

Band 38 Ant 3									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int. (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.00	23.15	23.30	23.9	0	
20	QPSK	1	49	22.88	23.08	22.84			
20	QPSK	1	99	22.77	22.98	22.83			
20	QPSK	50	0	22.59	22.74	22.80			
20	QPSK	50	24	22.28	22.50	22.72	23	0.0	
20	QPSK	50	50	22.15	22.38	22.61			
20	QPSK	100	0	22.04	22.28	22.52			
20	16QAM	1	0	22.34	22.48	22.30			
20	16QAM	1	49	22.23	22.43	22.33	23	0.0	
20	16QAM	1	99	22.12	22.38	22.30			
20	16QAM	50	0	21.28	21.30	21.34			
20	16QAM	50	24	21.21	21.21	21.20			
20	16QAM	50	50	21.21	21.27	21.23	22	1.0	
20	16QAM	100	0	21.22	21.24	21.24			
20	16QAM	1	0	21.28	21.28	21.28			
20	16QAM	1	49	21.25	21.28	21.23			
20	16QAM	1	99	21.22	21.21	21.13	22	1.0	
20	16QAM	50	0	20.25	20.35	20.24			
20	16QAM	50	24	20.21	20.30	20.27			
20	16QAM	50	50	20.20	20.33	20.10			
20	256QAM	1	0	20.24	20.38	20.31	21	2.0	
20	256QAM	1	49	18.33	18.41	18.30			
20	256QAM	1	99	18.21	18.29	18.20			
20	256QAM	50	0	18.18	18.29	18.18			
20	256QAM	50	24	18.18	18.27	18.15	19	4.0	
20	256QAM	50	50	18.11	18.20	18.08			
20	256QAM	100	0	18.04	18.20	18.16			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.75	22.90	23.05	23.9	0	
15	QPSK	1	37	22.74	22.87	22.72			
15	QPSK	1	74	22.66	22.83	22.79			
15	QPSK	36	0	22.52	22.59	22.13			
15	QPSK	36	20	22.08	22.21	22.06	23	0.0	
15	QPSK	36	36	22.15	22.29	22.15			
15	QPSK	75	0	22.15	22.23	22.16			
15	16QAM	1	0	22.30	22.34	22.22			
15	16QAM	1	37	22.12	22.28	22.28	23	0.0	
15	16QAM	1	74	22.17	22.30	22.23			
15	16QAM	36	0	21.15	21.35	21.30			
15	16QAM	36	20	21.25	21.29	21.08			
15	16QAM	36	39	21.08	21.17	21.19	22	1.0	
15	16QAM	75	0	21.10	21.26	21.18			
15	16QAM	1	0	21.15	21.27	21.22			
15	16QAM	1	37	21.12	21.20	21.16			
15	16QAM	1	74	21.01	21.11	21.02	21	2.0	
15	16QAM	36	0	20.15	20.25	20.14			
15	16QAM	36	20	20.18	20.24	20.22			
15	16QAM	36	39	20.15	20.22	20.20			
15	256QAM	1	0	18.22	18.37	18.18	19	4.0	
15	256QAM	1	37	18.14	18.23	18.14			
15	256QAM	1	74	18.15	18.24	18.08			
15	256QAM	36	0	18.08	18.24	18.08			
15	256QAM	36	20	18.12	18.14	18.14	19	4.0	
15	256QAM	36	39	18.07	18.14	17.93			
15	256QAM	75	0	18.15	18.21	18.06			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.75	22.90	23.05	23.9	0	
10	QPSK	1	25	22.84	23.00	22.72			
10	QPSK	1	49	22.68	22.80	22.72			
10	QPSK	25	0	22.53	22.59	22.16			
10	QPSK	25	12	22.10	22.18	22.11	23	0.0	
10	QPSK	25	25	22.05	22.18	22.12			
10	QPSK	50	0	22.05	22.18	22.18			
10	QPSK	1	0	22.31	22.37	22.19			
10	16QAM	1	0	22.31	22.37	22.19	23	0.0	
10	16QAM	1	25	22.27	22.39	22.15			
10	16QAM	1	49	22.11	22.20	22.21			
10	16QAM	25	0	21.29	21.27	21.22			
10	16QAM	25	12	21.12	21.21	21.11	22	1.0	
10	16QAM	50	0	21.15	21.20	21.18			
10	16QAM	1	0	21.18	21.22	21.13			
10	16QAM	1	25	21.17	21.14	21.08			
10	16QAM	1	49	21.01	21.09	21.07	22	1.0	
10	16QAM	25	0	20.17	20.24	20.12			
10	16QAM	25	12	20.13	20.18	20.14			
10	16QAM	25	25	20.04	20.18	20.00			
10	256QAM	1	0	18.27	18.35	18.19	19	4.0	
10	256QAM	1	25	18.11	18.22	18.22			
10	256QAM	1	49	18.15	18.25	18.07			
10	256QAM	25	0	18.04	18.20	18.01			
10	256QAM	25	12	18.07	18.21	18.00	19	4.0	
10	256QAM	25	25	18.05	18.16	17.96			
10	256QAM	50	0	18.18	18.15	18.08			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.85	23.10	22.95	23.9	0	
5	QPSK	1	12	22.84	23.04	22.77			
5	QPSK	1	24	22.73	22.78	22.84			
5	QPSK	12	0	22.21	22.24	22.10			
5	QPSK	12	7	22.06	22.16	22.11	23	0.0	
5	QPSK	12	13	22.13	22.08	22.08			
5	QPSK	25	0	22.17	22.19	22.06			
5	QPSK	1	0	22.21	22.43	22.28			
5	16QAM	1	12	22.28	22.37	22.20	23	0.0	
5	16QAM	1	24	22.21	22.27	22.10			
5	16QAM	12	0	21.24	21.28	21.18			
5	16QAM	12	7	21.11	21.21	21.14			
5	16QAM	12	13	21.12	21.16	21.11	22	1.0	
5	16QAM	25	0	21.09	21.21	21.17			
5	16QAM	1	0	21.13	21.21	21.19			
5	16QAM	1	12	21.17	21.24	21.18			
5	16QAM	1	24	21.01	21.14	21.02	21	2.0	
5	16QAM	12	0	20.13	20.22	20.21			
5	16QAM	12	7	20.02	20.23	20.16			
5	16QAM	12	13	19.97	20.18	20.03			
5	256QAM	1	0	18.12	18.33	18.15	19	4.0	
5	256QAM	1	12	18.14	18.31	18.17			
5	256QAM	1	24	18.13	18.33	18.10			
5	256QAM	12	0	18.09	18.26	18.12			
5	256QAM	12	7	18.09	18.21	18.14	19	4.0	
5	256QAM	12	13	18.07	18.15	17.99			
5	256QAM	25	0	18.14	18.17	18.02			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.85	23.10	22.95	23.9	0	
5	QPSK	1	12	22.77	22.90	22.77			
5	QPSK	1	24	22.68	22.78	22.79			
5	QPSK	12	0	22.09	22.08	22.73			
5	QPSK	12	7	22.08	22.04	22.63	23	0.0	
5	QPSK	12	13	22.05	22.07	22.54			
5	QPSK	25	0	22.05	22.09	22.59			
5	16QAM	1	0	22.09	22.05	22.76			
5	16QAM	1	12	22.08	22.07	22.87	23	0.0	
5	16QAM	1	24	22.01	22.00	22.46			
5	16QAM	12	0	21.62	21.67	21.72			
5	16QAM	12	7	21.49	21.64	21.73			



Band 42 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	15.87	15.94	15.86	17.4	0	
20	QPSK	1	49	15.84	15.91	15.79			
20	QPSK	1	99	15.86	15.88	15.82			
20	QPSK	50	0	15.78	15.90	15.69			
20	QPSK	50	24	15.86	15.81	15.76	17.4	0	
20	QPSK	50	49	15.80	15.77	15.83			
20	QPSK	100	0	15.85	15.89	15.75			
20	16QAM	1	0	15.79	15.84	15.80	17.4	0	
20	16QAM	1	49	15.76	15.85	15.81			
20	16QAM	1	99	15.76	15.73	15.79			
20	16QAM	50	24	15.80	15.88	15.69	17.4	0	
20	16QAM	50	49	15.85	15.87	15.83			
20	16QAM	50	50	15.80	15.74	15.74			
20	16QAM	100	0	15.80	15.73	15.80			
20	64QAM	1	0	15.76	15.80	15.75			
20	64QAM	1	49	15.74	15.75	15.64	17.4	0	
20	64QAM	1	99	15.80	15.89	15.83			
20	64QAM	50	0	15.80	15.79	15.53			
20	64QAM	50	24	15.55	15.74	15.64	17.4	0	
20	64QAM	50	50	15.57	15.59	15.65			
20	64QAM	100	0	15.80	15.77	15.67			
20	256QAM	1	0	15.77	15.82	15.81			
20	256QAM	1	49	15.83	15.83	15.83	17.4	0	
20	256QAM	1	99	15.72	15.81	15.76			
20	256QAM	50	0	15.81	15.79	15.82			
20	256QAM	50	24	15.81	15.78	15.53	17.4	0	
20	256QAM	50	50	15.82	15.82	15.64			
20	256QAM	100	0	15.75	15.73	15.83			
Channel									
Frequency (MHz)									
15	QPSK	1	0	15.78	15.78	15.73	17.4	0	
15	QPSK	1	37	15.79	15.78	15.73			
15	QPSK	1	74	15.81	15.73	15.79			
15	QPSK	36	0	15.85	15.87	15.88			
15	QPSK	36	20	15.82	15.71	15.63	17.4	0	
15	QPSK	36	36	15.84	15.71	15.68			
15	QPSK	75	0	15.76	15.75	15.71			
15	16QAM	1	0	15.73	15.68	15.70			
15	16QAM	1	37	15.83	15.74	15.81	17.4	0	
15	16QAM	1	74	15.68	15.61	15.62			
15	16QAM	36	0	15.87	15.71	15.44			
15	16QAM	36	20	15.82	15.63	15.52	17.4	0	
15	16QAM	36	36	15.58	15.63	15.71			
15	16QAM	75	0	15.74	15.67	15.62			
15	16QAM	75	0	15.74	15.67	15.62			
15	64QAM	1	0	15.86	15.89	15.89			
15	64QAM	1	37	15.84	15.79	15.84	17.4	0	
15	64QAM	1	74	15.67	15.56	15.61			
15	64QAM	36	0	15.87	15.71	15.69			
15	64QAM	36	20	15.82	15.63	15.44	17.4	0	
15	64QAM	36	36	15.50	15.52	15.61			
15	64QAM	75	0	15.72	15.58	15.45			
15	64QAM	75	0	15.72	15.58	15.45			
15	64QAM	1	0	15.81	15.72	15.63	17.4	0	
15	64QAM	1	37	15.70	15.52	15.46			
15	64QAM	1	74	15.60	15.62	15.56			
15	64QAM	36	0	15.81	15.74	15.44			
15	64QAM	36	20	15.56	15.72	15.54	17.4	0	
15	64QAM	36	36	15.54	15.54	15.44			
15	64QAM	75	0	15.72	15.52	15.43			
15	256QAM	1	0	15.68	15.83	15.63	17.4	0	
15	256QAM	1	37	15.71	15.72	15.45			
15	256QAM	1	74	15.68	15.67	15.57			
15	256QAM	36	0	15.52	15.69	15.50			
15	256QAM	36	20	15.60	15.52	15.42	17.4	0	
15	256QAM	36	36	15.52	15.63	15.46			
15	256QAM	75	0	15.64	15.58	15.47			
Channel									
Frequency (MHz)									
10	QPSK	1	0	15.78	15.78	15.73	17.4	0	
10	QPSK	1	25	15.81	15.79	15.67			
10	QPSK	1	49	15.73	15.77	15.65			
10	QPSK	25	0	15.82	15.85	15.63			
10	QPSK	25	12	15.81	15.74	15.62	17.4	0	
10	QPSK	25	25	15.67	15.73	15.72			
10	QPSK	50	0	15.75	15.73	15.68			
10	16QAM	1	0	15.79	15.78	15.69			
10	16QAM	1	25	15.85	15.78	15.82	17.4	0	
10	16QAM	1	49	15.67	15.65	15.72			
10	16QAM	25	0	15.83	15.83	15.63			
10	16QAM	25	12	15.83	15.76	15.49	17.4	0	
10	16QAM	25	25	15.67	15.67	15.58			
10	16QAM	50	0	15.67	15.65	15.46			
10	16QAM	50	12	15.53	15.44	15.55	17.4	0	
10	16QAM	50	25	15.53	15.54	15.64			
10	16QAM	1	0	15.87	15.48	15.45			
10	64QAM	1	25	15.65	15.52	15.55	17.4	0	
10	64QAM	1	49	15.53	15.50	15.60			
10	64QAM	25	0	15.49	15.60	15.37			
10	64QAM	25	12	15.52	15.75	15.57	17.4	0	
10	64QAM	25	25	15.54	15.49	15.59			
10	64QAM	50	0	15.54	15.74	15.71			
10	256QAM	1	0	15.71	15.80	15.56	17.4	0	
10	256QAM	1	49	15.57	15.71	15.50			
10	256QAM	25	0	15.46	15.75	15.50			
10	256QAM	25	12	15.45	15.54	15.43	17.4	0	
10	256QAM	25	25	15.45	15.52	15.52			
10	256QAM	50	0	15.51	15.59	15.41			
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.82	15.68	15.65	17.4	0	
5	QPSK	1	12	15.72	15.69	15.77			
5	QPSK	1	24	15.62	15.69	15.84			
5	QPSK	12	0	15.88	15.80	15.51			
5	QPSK	12	7	15.82	15.81	15.48	17.4	0	
5	QPSK	12	13	15.61	15.71	15.84			
5	QPSK	25	0	15.74	15.71	15.75			
5	16QAM	1	0	15.64	15.58	15.60			
5	16QAM	1	12	15.65	15.68	15.50	17.4	0	
5	16QAM	1	24	15.64	15.59	15.67			
5	16QAM	12	0	15.53	15.62	15.49			
5	16QAM	12	7	15.50	15.53	15.43	17.4	0	
5	16QAM	12	13	15.50	15.54	15.75			
5	16QAM	25	0	15.72	15.58	15.66			
5	16QAM	1	0	15.68	15.72	15.66			
5	64QAM	1	12	15.67	15.64	15.54	17.4	0	
5	64QAM	1	24	15.44	15.64	15.64			
5	64QAM	12	0	15.44	15.66	15.47			
5	64QAM	12	7	15.51	15.69	15.50	17.4	0	
5	64QAM	12	13	15.41	15.41	15.54			
5	64QAM	25	0	15.46	15.74	15.48			
5	256QAM	1	0	15.60	15.79	15.70			
5	256QAM	1	12	15.61	15.74	15.56	17.4	0	
5	256QAM	1	24	15.37	15.65	15.55			
5	256QAM	12	0	15.54	15.77	15.51			
5	256QAM	12	7	15.41	15.60	15.55	17.4	0	
5	256QAM	12	13	15.44	15.64	15.48			
5	256QAM	25	0	15.60	15.50	15.46			

Band 42 Part 96 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	15.74	15.75	15.83	17.4	0	
20	QPSK	1	49	15.74	15.81	15.70			
20	QPSK	1	99	15.76	15.78	15.75			
20	QPSK	50	0	15.67	15.86	15.64			
20	QPSK	50	24	15.60	15.77	15.69	17.4	0	
20	QPSK	50	49	15.65	15.74	15.50			
20	QPSK	100	0	15.70	15.75	15.68			
20	16QAM	1	0	15.74	15.69	15.67	17.4	0	
20	16QAM	1	49	15.65	15.74	15.50			
20	16QAM	1	99	15.50	15.64	15.70			
20	16QAM	50	0	15.55	15.76	15.49	17.4	0	
20	16QAM	50	24	15.44	15.57	15.52			
20	16QAM	50	50	15.45	15.46	15.51			
20	16QAM	100	0	15.72	15.69	15.60			
20	256QAM	1	0	15.76	15.67	15.76			
20	256QAM	1	49	15.61	15.68	15.61	17.4	0	
20	256QAM	1	99	15.60	15.79	15.67			
20	256QAM	50	0	15.44	15.55	15.50			
20	256QAM	50	24	15.53	15.71	15.45	17.4	0	
20	256QAM	50	50	15.50	15.58	15.52			
20	256QAM	100	0	15.70	15.60	15.64			
Channel									
Frequency (MHz)									
15	QPSK	1	0	15.74	15.74	15.73	17.4	0	
15	QPSK	1	37	15.74	15.74	15.64			
15	QPSK	1	74	15.73	15.73	15.69			
15	QPSK	36	0	15.64	15.81	15.58			
15	QPSK	36	20	15.66	15.77	15.67	17.4	0	
15	QPSK	72	0	15.67	15.76	15.63			
15	16QAM	1	0	15.76	15.73	15.63	17.4	0	
15	16QAM	1	37	15.77	15.73	15.48			
15	16QAM	1	74	15.67	15.58	15.61			
15	16QAM	36	0	15.67	15.71	15.69			
15	16QAM	36	20	15.53	15.84	15.44	17.4	0	
15	16QAM	36	39	15.50	15.55	15.81			
15	16QAM	72	0	15.72	15.72	15.46			
15	64QAM	1	0	15.61	15.72	15.63			
15	64QAM	1	37	15.70	15.62	15.46	17.4	0	
15	64QAM	1	74	15.50	15.50	15.56			
15	64QAM	36	0	15.47	15.74	15.44			
15	64QAM	36	20	15.56	15.72	15.43			
15	64QAM	36	39	15.54	15.49	15.52			
15	64QAM	72	0	15.72	15.62	15.54			
15	256QAM	1	0	15.74	15.74	15.74	17.4	0	
15	256QAM	1	37	15.74	15.72	15.45			
15	256QAM	1	74	15.58	15.67	15.57			
15	256QAM	36	0	15.46	15.82	15.50			
15	256QAM	36	20	15.59	15.52	15.42	17.4	0	
15	256QAM	36	39	15.64	15.63	15.46			
15	256QAM	72	0	15.62	15.58	15.57			
Channel									
Frequency (MHz)									
10	QPSK	1	0	15.63	15.63	15.63	17.4	0	
10	QPSK	1	25	15.60	15.69	15.64			
10	QPSK	1	50	15.67	15.67	15.73			
10	QPSK	20	0	15.63	15.75	15.50			
10	QPSK	20	12	15.64	15.71	15.61	17.4	0	
10	QPSK	20	24	15.64	15.64	15.61			
10	QPSK	50	0	15.78	15.59	15.65			
10	16QAM	1	0	15.70	15.69	15.81	17.4	0	
10	16QAM	1	25	15.78	15.78	15.49			
10	16QAM	1	49	15.62	15.57	15.58			
10	16QAM	20	0	15.61	15.66	15.46			
10	16QAM	20	12	15.53	15.44	15.50	17.4	0	
10	16QAM	20	24	15.50	15.54	15.46			
10	16QAM	50	0	15.67	15.61	15.46			
10	64QAM	1	0	15.67	15.67	15.45			
10	64QAM	1	0	15.65	15.68	15.67			
10	64QAM	1	25	15.65	15.52	15.55	17.4	0	
10	64QAM	1	50	15.50	15.60	15.60			
10	64QAM	20	0	15.46	15.59	15.57			
10	64QAM	20	12	15.52	15.75	15.57			
10	64QAM	20	24	15.50	15.59	15.49	17.4	0	
10	64QAM	50	0	15.67	15.61	15.46			
10	256QAM	1	0	15.54	15.64	15.71			
10	256QAM	1	25	15.74	15.60	15.50	17.4	0	
10	256QAM	1	49	15.67	15.71	15.45			
10	256QAM	20	0	15.46	15.58	15.50			
10	256QAM	20	12	15.42	15.74	15.43	17.4	0	
10	256QAM	20	24	15.48	15.58	15.42			
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.62	15.69	15.69	17.4	0	
5	QPSK	1	12	15.72	15.69	15.77			
5	QPSK	1	24	15.64	15.64	15.64			
5	QPSK	12	0	15.69	15.60	15.51			
5	QPSK	12	7	15.60	15.61	15.48			
5	16QAM	1	0	15.74	15.71	15.75	17.4	0	
5	16QAM	1	0	15.64	15.68	15.64			
5	16QAM	1	12	15.50	15.69	15.50			
5	16QAM	1	24	15.64	15.58	15.57			
5	16QAM	12	0	15.53	15.63	15.49			
5	16QAM	12	7	15.50	15.53	15.43	17.4	0	
5	16QAM	12	13	15.50	15.54	15.75			
5	64QAM	1	0	15.72	15.58	15.58			
5	64QAM	1	0	15.58	15.72	15.66			
5	64QAM	1	12	15.67	15.64	15.54			
5	64QAM	1	12	15.64	15.64	15.64			
5	64QAM	12	13	15.41	15.41	15.54			
5	64QAM	20	0	15.56	15.74	15.49			
5	256QAM	1	0	15.64	15.64	15.73	17.4	0	
5	256QAM	1	12	15.61	15.74	15.55			
5	256QAM	1	24	15.57	15.65	15.65			
5	256QAM	12	0	15.54	15.77	15.51			
5	256QAM	12	7	15.41	15.60	15.50			
5	256QAM	12	13	15.44	15.64	15.48			
5	256QAM	20	0	15.60	15.50	15.40			



Band 48 Ant 3									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Mid-Hi Ch / Freq	Power Low Mid-Hi Ch / Freq	Power High Mid-Hi Ch / Freq	Power Aggr Ch / Freq	Tune-up limit (dBm)	MPE (dB)
Channel				56940	56950	56100	56640	Tune-up limit (dBm)	MPE (dB)
Frequency (MHz)				3607.5	3607.5	3643.5	3697.5		
20	QPSK	1	0	16.10	16.10	16.13	15.83	17.4	0
20	QPSK	1	40	16.00	15.99	15.83	15.90		
20	QPSK	1	80	15.87	16.03	15.98	15.79		
20	QPSK	50	0	15.90	16.00	15.98	15.80		
20	QPSK	50	24	16.01	15.85	15.78	15.73	17.4	0
20	QPSK	50	80	15.76	15.85	15.81	15.67		
20	QPSK	100	0	15.85	16.04	16.03	15.80		
20	16QAM	1	0	15.97	15.99	15.97	15.86	17.4	0
20	16QAM	1	40	15.97	15.50	15.80	15.78		
20	16QAM	1	90	15.70	15.99	15.80	15.70		
20	16QAM	50	0	15.83	15.89	15.76	15.81		
20	16QAM	50	24	15.97	15.80	15.70	15.80	17.4	0
20	16QAM	50	80	15.86	15.68	15.60	15.62		
20	16QAM	100	0	15.80	15.90	15.90	15.67		
20	64QAM	1	0	15.94	15.00	15.00	15.74	17.4	0
20	64QAM	1	40	16.03	15.90	16.07	15.77		
20	64QAM	1	90	15.74	15.98	15.98	15.60		
20	64QAM	50	0	15.82	15.91	15.90	15.83		
20	64QAM	50	24	15.98	15.71	15.62	15.83	17.4	0
20	64QAM	50	80	15.81	15.78	15.80	15.67		
20	64QAM	100	0	15.84	16.00	15.94	15.77		
20	256QAM	1	0	15.92	16.09	15.96	15.79	17.4	0
20	256QAM	1	40	15.91	15.94	15.79	15.86		
20	256QAM	1	90	15.70	15.97	15.87	15.79		
20	256QAM	50	0	15.87	15.80	15.82	15.72		
20	256QAM	50	24	15.94	15.79	15.70	15.58	17.4	0
20	256QAM	50	80	15.58	15.83	15.81	15.65		
20	256QAM	100	0	15.85	15.96	15.87	15.73		
Channel				56915	56920	56100	56640	Tune-up limit (dBm)	MPE (dB)
Frequency (MHz)				3617.5	3617.5	3643.5	3697.5		
15	QPSK	1	0	15.08	16.04	16.03	15.73	17.4	0
15	QPSK	1	37	15.81	15.92	15.76	15.79		
15	QPSK	1	74	15.77	16.04	15.79	15.86		
15	QPSK	36	0	15.88	16.01	15.81	15.88		
15	QPSK	36	20	15.83	15.82	15.70	15.59	17.4	0
15	QPSK	36	8	15.62	15.71	15.70	15.60		
15	QPSK	75	0	15.90	15.98	15.93	15.88		
15	16QAM	1	0	15.91	15.92	15.92	15.60	17.4	0
15	16QAM	1	37	15.80	15.78	15.74	15.68		
15	16QAM	1	74	15.59	15.85	15.70	15.61		
15	16QAM	36	0	15.68	15.74	15.68	15.63		
15	16QAM	36	20	15.80	15.88	15.50	15.44	17.4	0
15	16QAM	36	39	15.52	15.63	15.72	15.58		
15	16QAM	75	0	15.81	15.83	15.76	15.74		
15	64QAM	1	0	15.77	15.98	15.80	15.87	17.4	0
15	64QAM	1	37	15.87	15.78	15.58	15.60		
15	64QAM	1	74	15.69	15.88	15.72	15.48		
15	64QAM	36	0	15.74	15.86	15.87	15.75		
15	64QAM	36	20	15.87	15.65	15.47	15.52	17.4	0
15	64QAM	36	39	15.51	15.64	15.44	15.54		
15	64QAM	75	0	15.79	15.87	15.75	15.97		
15	256QAM	1	0	15.81	16.02	15.90	15.86	17.4	0
15	256QAM	1	37	15.80	15.83	15.80	15.70		
15	256QAM	1	74	15.62	15.80	15.78	15.62		
15	256QAM	36	0	15.76	15.69	15.65	15.60		
15	256QAM	36	20	15.76	15.69	15.67	15.52	17.4	0
15	256QAM	36	39	15.46	15.73	15.70	15.51		
15	256QAM	75	0	15.68	15.75	15.77	15.59		
Channel				56915	56915	56100	56640	Tune-up limit (dBm)	MPE (dB)
Frequency (MHz)				3655.5	3657.5	3643.5	3697.5		
10	QPSK	1	0	15.87	16.08	15.96	15.76	17.4	0
10	QPSK	1	25	16.04	15.89	15.88	15.80		
10	QPSK	1	40	15.82	15.97	15.82	15.74		
10	QPSK	25	0	15.81	15.96	15.80	15.78		
10	QPSK	25	12	15.89	15.81	15.62	15.58	17.4	0
10	QPSK	25	25	15.72	15.74	15.84	15.49		
10	QPSK	50	0	15.92	16.03	15.86	15.77		
10	16QAM	1	0	15.81	15.85	15.80	15.52	17.4	0
10	16QAM	1	25	15.89	15.84	15.80	15.83		
10	16QAM	1	40	15.96	15.83	15.78	15.83		
10	16QAM	25	0	15.81	15.76	15.62	15.63		
10	16QAM	25	12	15.81	15.74	15.64	15.49	17.4	0
10	16QAM	25	25	15.63	15.50	15.75	15.60		
10	16QAM	50	0	15.72	15.72	15.74	15.63		
10	64QAM	1	0	15.80	15.98	15.88	15.68	17.4	0
10	64QAM	1	25	15.98	15.81	15.50	15.68		
10	64QAM	1	40	15.69	15.91	15.68	15.55		
10	64QAM	25	0	15.74	15.82	15.78	15.72		
10	64QAM	25	12	15.82	15.69	15.50	15.48	17.4	0
10	64QAM	25	25	15.48	15.60	15.76	15.48		
10	64QAM	50	0	15.68	15.87	15.77	15.72		
10	256QAM	1	0	15.78	15.91	15.80	15.75	17.4	0
10	256QAM	1	25	15.88	15.77	15.67	15.88		
10	256QAM	1	40	15.85	15.69	15.60	15.53		
10	256QAM	25	0	15.84	15.89	15.68	15.67		
10	256QAM	25	12	15.86	15.69	15.54	15.50	17.4	0
10	256QAM	25	25	15.53	15.69	15.74	15.40		
10	256QAM	50	0	15.72	15.83	15.82	15.65		
Channel				56915	56915	56100	56640	Tune-up limit (dBm)	MPE (dB)
Frequency (MHz)				3652.5	3657.5	3643.5	3697.5		
5	QPSK	1	0	16.03	16.12	16.08	15.71	17.4	0
5	QPSK	1	12	15.90	15.97	15.89	15.80		
5	QPSK	1	24	15.70	15.89	15.90	15.68		
5	QPSK	12	0	15.82	15.89	15.82	15.80		
5	QPSK	12	7	15.91	15.82	15.87	15.58	17.4	0
5	QPSK	12	13	15.82	15.78	15.78	15.52		
5	QPSK	25	0	15.92	15.94	15.96	15.72		
5	16QAM	1	0	15.84	15.93	15.91	15.62	17.4	0
5	16QAM	1	12	15.92	15.80	15.77	15.62		
5	16QAM	1	24	15.86	15.95	15.72	15.58		
5	16QAM	12	0	15.69	15.82	15.68	15.71		
5	16QAM	12	7	15.81	15.77	15.68	15.42	17.4	0
5	16QAM	12	13	15.90	15.65	15.81	15.52		
5	16QAM	25	0	15.81	15.83	15.76	15.68		
5	64QAM	1	0	15.80	15.97	15.94	15.67	17.4	0
5	64QAM	1	12	15.95	15.80	15.90	15.88		
5	64QAM	1	24	15.60	15.83	15.79	15.51		
5	64QAM	12	0	15.80	15.77	15.76	15.70		
5	64QAM	12	7	15.87	15.58	15.51	15.40	17.4	0
5	64QAM	12	13	15.54	15.73	15.72	15.48		
5	64QAM	25	0	15.68	15.97	15.86	15.63		
5	256QAM	1	0	15.88	15.98	15.79	15.75	17.4	0
5	256QAM	1	12	15.88	15.90	15.71	15.78		
5	256QAM	1	24	15.60	15.90	15.72	15.60		
5	256QAM	12	0	15.75	15.88	15.67	15.54		
5	256QAM	12	7	15.78	15.63	15.61	15.44	17.4	0
5	256QAM	12	13	15.53	15.70	15.67	15.43		
5	256QAM	25	0	15.72	15.69	15.70	15.70		

Reduced Power Mode for DSI6-Standalone

GSM850 Ant 0		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		524.2	834.4	818.8	(dBm)	524.2	834.4	818.8	
GSM 1 Tx slot		33.20	33.32	33.28		24.20	24.32	24.28	24.50
GPRS 1 Tx slot		33.25	33.39	33.31	33.50	24.25	24.39	24.31	24.50
GPRS 2 Tx slots		30.42	30.54	30.50	31.00	24.42	24.54	24.50	25.00
GPRS 3 Tx slots		28.88	28.92	28.84	29.50	24.62	24.66	24.58	25.24
GPRS 4 Tx slots		27.25	27.38	27.30	28.00	24.25	24.38	24.30	25.00
EDGE 1 Tx slot		26.18	26.24	26.10	27.00	17.18	17.24	17.10	18.00
EDGE 2 Tx slots		24.41	24.49	24.45	25.00	18.41	18.49	18.45	19.00
EDGE 3 Tx slots		23.12	23.25	23.10	24.00	18.86	18.99	18.84	19.74
EDGE 4 Tx slots		21.20	21.27	21.18	22.00	18.20	18.27	18.18	19.00

GSM1900 Ant 0		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	
GSM 1 Tx slot		28.65	28.68	28.60		19.65	19.68	19.60	20.00
GPRS 1 Tx slot		28.69	28.74	28.63	29.00	19.69	19.74	19.63	20.00
GPRS 2 Tx slots		25.35	25.39	25.31	26.00	19.35	19.39	19.31	20.00
GPRS 3 Tx slots		22.96	23.07	22.96	24.50	18.70	18.81	18.70	20.24
GPRS 4 Tx slots		21.28	21.38	21.27	22.50	18.28	18.38	18.27	19.50
EDGE 1 Tx slot		23.50	23.57	23.43	24.50	14.50	14.57	14.43	15.50
EDGE 2 Tx slots		21.83	21.87	21.80	23.00	15.83	15.87	15.80	17.00
EDGE 3 Tx slots		20.69	20.74	20.61	22.00	16.43	16.48	16.35	17.74
EDGE 4 Tx slots		18.46	18.57	18.52	20.00	15.46	15.57	15.52	17.00

Band		WCDMA V Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			Tune-up Limit (dBm)
TX Channel		1312	1413	1513		4132	4182	4233	
Rx Channel		1537	1638	1738	(dBm)	4357	4407	4458	
Frequency (MHz)		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.80	21.92	21.87	23.00	23.65	23.72	23.63	24.00
3GPP Rel 99	RMC 12.2Kbps	21.85	21.99	21.93	23.00	23.71	23.78	23.66	24.00
3GPP Rel 6	HSDPA Subtest-1	21.11	21.15	21.00	22.00	22.89	22.84	22.83	23.00
3GPP Rel 6	HSDPA Subtest-2	20.97	21.09	20.97	22.00	22.77	22.91	22.84	23.00
3GPP Rel 6	HSDPA Subtest-3	20.50	20.61	20.51	21.50	22.30	22.43	22.33	22.50
3GPP Rel 6	HSDPA Subtest-4	20.41	20.62	20.49	21.50	22.24	22.41	22.37	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.03	21.13	20.88	22.00	22.89	22.73	22.75	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.84	20.95	20.75	22.00	22.65	22.79	22.59	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.45	20.42	20.34	21.50	22.26	22.26	22.21	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.33	20.49	20.49	21.50	22.16	22.29	22.31	22.50
3GPP Rel 6	HSUPA Subtest-1	21.10	21.06	21.04	22.00	22.90	22.94	22.94	23.00
3GPP Rel 6	HSUPA Subtest-2	19.02	19.14	18.97	20.00	20.89	20.97	20.75	21.00
3GPP Rel 6	HSUPA Subtest-3	19.96	20.03	20.05	21.00	21.79	21.92	21.93	22.00
3GPP Rel 6	HSUPA Subtest-4	18.90	19.07	19.05	20.00	20.77	20.87	20.83	21.00
3GPP Rel 6	HSUPA Subtest-5	21.06	20.90	20.94	22.00	22.85	22.76	22.74	23.00



Band 4 Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MFR (dB)				
Channel												
20055 20175 20395												
20	QPSK	1	0	20.26	20.30	20.32	21	0				
20	QPSK	14	0	20.14	20.23	20.14						
20	QPSK	1	99	20.11	20.18	20.04						
20	QPSK	50	0	19.23	19.37	19.22						
20	QPSK	50	24	19.21	19.24	19.24	20	1				
20	QPSK	50	50	19.18	19.25	19.12						
20	QPSK	100	0	19.19	19.32	19.25						
10	HQAM	1	0	19.18	19.26	19.15						
10	HQAM	1	49	19.12	19.25	19.19	20	1				
10	HQAM	1	99	19.08	19.15	19.03						
10	HQAM	50	0	18.43	18.49	18.41						
10	HQAM	50	24	18.38	18.51	18.38						
10	HQAM	50	50	18.40	18.49	18.43	19	2				
10	HQAM	100	0	18.48	18.61	18.57						
10	HQAM	1	0	18.29	18.36	18.21						
10	HQAM	1	49	18.37	18.43	18.31						
10	HQAM	1	99	18.12	18.25	18.10	18	3				
10	HQAM	50	0	17.30	17.43	17.35						
10	HQAM	50	24	17.34	17.46	17.37						
10	HQAM	50	50	17.22	17.30	17.25						
10	HQAM	100	0	17.37	17.41	17.27	16	5				
20	SSBDM	1	0	15.40	15.51	15.47						
20	SSBDM	1	99	15.34	15.37	15.30						
20	SSBDM	50	0	15.28	15.31	15.32						
20	SSBDM	50	24	15.42	15.45	15.38	16	5				
20	SSBDM	50	50	15.14	15.26	15.11						
20	SSBDM	100	0	15.27	15.30	15.25						
20025 20175 20395												
Channel												
1711.5 1732.5 1747.5												
16	QPSK	1	0	20.18	20.27	20.12	21	0				
16	QPSK	14	0	20.14	20.14	20.14						
16	QPSK	1	74	20.07	20.04	19.96						
16	QPSK	50	0	19.26	19.37	19.29						
16	QPSK	50	24	19.23	19.38	19.34	20	1				
16	QPSK	36	36	19.15	19.32	19.21						
16	QPSK	75	0	19.29	19.39	19.31						
15	HQAM	1	0	19.21	19.33	19.20						
15	HQAM	1	37	19.18	19.35	19.27	20	1				
15	HQAM	1	74	19.16	19.24	19.10						
15	HQAM	36	0	18.37	18.36	18.37						
15	HQAM	36	20	18.25	18.43	18.28						
15	HQAM	36	50	18.40	18.57	18.46	19	2				
15	HQAM	1	0	18.21	18.32	18.07						
15	HQAM	1	74	18.20	18.31	18.15						
15	HQAM	1	74	17.97	18.17	17.98						
15	HQAM	36	0	17.17	17.32	17.21	18	3				
15	HQAM	36	20	17.36	17.43	17.30						
15	HQAM	36	36	17.17	17.23	17.19						
15	HQAM	75	0	17.28	17.31	17.21						
15	SSBDM	1	37	15.13	15.24	15.17	16	5				
15	SSBDM	1	74	15.26	15.31	15.25						
15	SSBDM	36	0	15.34	15.36	15.32						
15	SSBDM	36	20	15.28	15.37	15.26						
15	SSBDM	36	36	15.07	15.18	15.11	16	5				
15	SSBDM	75	0	15.18	15.31	15.15						
20005 20175 20395												
Channel												
1711.5 1732.5 1750												
10	QPSK	1	0	20.18	20.27	20.12	21	0				
10	QPSK	1	25	20.18	20.21	20.15						
10	QPSK	1	49	20.01	20.12	19.93						
10	QPSK	25	0	19.22	19.40	19.32						
10	QPSK	25	12	19.22	19.40	19.32	20	1				
10	QPSK	25	25	19.21	19.31	19.20						
10	QPSK	25	49	19.24	19.32	19.20						
10	HQAM	1	0	19.21	19.33	19.20						
10	HQAM	1	25	19.23	19.32	19.27	20	1				
10	HQAM	12	0	18.32	18.37	18.31						
10	HQAM	25	0	18.36	18.39	18.34						
10	HQAM	25	12	18.31	18.39	18.34						
10	HQAM	25	12	18.30	18.35	18.38	19	2				
10	HQAM	50	0	18.41	18.50	18.52						
10	HQAM	1	0	18.15	18.23	18.09						
10	HQAM	1	8	18.27	18.33	18.15						
10	HQAM	1	49	18.09	18.18	17.98	18	3				
10	HQAM	25	0	17.24	17.36	17.32						
10	HQAM	25	12	17.25	17.36	17.32						
10	HQAM	25	25	17.11	17.21	17.17						
10	HQAM	50	0	17.31	17.31	17.22	16	5				
10	HQAM	1	25	15.38	15.47	15.37						
10	SSBDM	1	25	15.18	15.24	15.22						
10	SSBDM	1	49	15.20	15.25	15.24						
10	SSBDM	25	0	15.34	15.35	15.35	16	5				
10	SSBDM	25	12	15.35	15.38	15.36						
10	SSBDM	25	25	15.09	15.14	15.05						
10	SSBDM	50	0	15.13	15.21	15.14						
19975 20175 20395												
Channel												
1711.5 1732.5 1750.5												
5	QPSK	1	0	20.18	20.27	20.12	21	0				
5	QPSK	1	12	20.20	20.26	20.05						
5	QPSK	1	24	20.06	20.10	19.93						
5	QPSK	12	0	19.33	19.37	19.24						
5	QPSK	12	7	19.23	19.32	19.33	20	1				
5	QPSK	12	13	19.22	19.31	19.19						
5	QPSK	25	0	19.25	19.42	19.15						
5	HQAM	1	0	19.27	19.28	19.18						
5	HQAM	1	12	19.20	19.31	19.22	20	1				
5	HQAM	1	24	19.17	19.24	19.08						
5	HQAM	12	0	18.36	18.37	18.27						
5	HQAM	12	7	18.30	18.46	18.30						
5	HQAM	12	7	18.41	18.35	18.38	19	2				
5	HQAM	25	0	18.40	18.43	18.50						
5	HQAM	1	0	18.17	18.21	18.14						
5	HQAM	1	2	18.25	18.40	18.15						
5	HQAM	1	24	17.97	18.11	17.87	18	3				
5	HQAM	12	0	17.25	17.37	17.28						
5	HQAM	12	7	17.25	17.27	17.28						
5	HQAM	12	13	17.12	17.17	17.15						
5	HQAM	25	0	17.31	17.27	17.17	16	5				
5	SSBDM	1	25	15.37	15.40	15.33						
5	SSBDM	1	12	15.15	15.29	15.21						
5	SSBDM	1	24	15.24	15.24	15.27						
5	SSBDM	12	0	15.30	15.36	15.18	16	5				
5	SSBDM	12	7	15.29	15.41	15.30						
5	SSBDM	12	13	15.10	15.11	15.00						
5	SSBDM	25	0	15.23	15.31	15.12						
19995 20175 20395												
Channel												
1711.5 1732.5 1750.5												
1.4	QPSK	1	0	20.18	20.27	20.12	21	0				
1.4	QPSK	1	8	20.19	20.24	20.11						
1.4	QPSK	1	14	20.04	20.10	19.99						
1.4	QPSK	8	0	19.33	19.37	19.24						
1.4	QPSK	8	4	19.24	19.37	19.30	20	1				
1.4	QPSK	8	7	19.21	19.32	19.14						
1.4	QPSK	15	0	19.30	19.38	19.28						
1.4	HQAM	1	0	19.26	19.33	19.21						
1.4	HQAM	1	14	19.16	19.15	19.04	20	1				
1.4	HQAM	1	8	19.18	19.46	19.31						
1.4	HQAM	1	18	19.04	19.44	19.39						
1.4	HQAM	8	7	18.32	18.42	19.30						
1.4	HQAM	8	7	18.41	18.45	18.45	19	2				
1.4	HQAM	1	0	18.21	18.24	18.18						
1.4	HQAM	1	8	18.32	18.29	18.24						
1.4	HQAM	1	18	18.07	18.18	18.20						
1.4	HQAM	8	4	17.23	17.35	17.24	18	3				
1.4	HQAM	8	7	17.30	17.38	17.31						
1.4	HQAM	1	14	17.23	17.29	17.13						
1.4	SSBDM	1	0	15.37	15.37	15.43						
1.4	SSBDM	1	14	15.18	15.33	15.23	16	5				
1.4	SSBDM	1	14	15.30	15.25	15.17						
1.4	SSBDM	8	0	15.32	15.30	15.29						
1.4	SSBDM	8	7	15.28	15.41	15.32						
1.4	SSBDM	8	7	15.09	15.18	15.01	16	5				
1.4	SSBDM	15	0	15.12	15.28	15.19						
19975 20175 20395												
Channel												
1711.5 1732.5 1750.5												
1.4	QPSK	1	0	20.22	20.26	20.13	21	0				
1.4	QPSK	1	8	20.08	20.13	20.04						
1.4	QPSK	1	14	19.96	20.01	19.90						
1.4	QPSK	3	0	20.22	20.25	20.14						
1.4	QPSK	3	0	20.13	20.16	20.13	20	1				
1.4	QPSK	6	0	19.27	19.49	19.37						
1.4	QPSK	1	14	19.31	19.38	19.27						
1.4	HQAM	1	3	19.14	19.36	19.17						
1.4	HQAM	3	1	19.24	19.27	19.23	20	1				
1.4	HQAM	3	1	19.12	19.23	19.17						
1.4	HQAM	3	1	18.38	18.48	18.45						
1.4	HQAM	3	0	18.29	18.41	18.25						
1.4	HQAM	3	0	18.16	18.24	18.15	19	2				
1.4	HQAM	3	1	18.33	18.46	18.34						
1.4	HQAM	3	1	18.01	18.19	17.97						
1.4	HQAM	6	0	17.17	17.39	17.22						
1.4	SSBDM	1	0	15.40	15.43	15.37	16	5				
1.4	SSBDM	1	0	15.12	15.35	15.19						
1.4	SSBDM	1	6	15.29	15.32	15.26						
1.4	SSBDM	1	6	15.27	15.31	15.21						
1.4	SSBDM	3	3	15.01	15.17	15.06	16	5				
1.4	SSBDM	3	3	15.21	15.28	15.19						
19995 20175 20395												
Channel												
1711.5 1732.5 1750.5												



Band 13 Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.82	22.82	22.82	24	0	
10	QPSK	1	25	22.77	22.77	22.77			
10	QPSK	1	49	22.73	22.73	22.73			
10	QPSK	25	0	21.87	21.87	21.87	23	1	
10	QPSK	25	12	21.82	21.82	21.82			
10	QPSK	25	25	21.78	21.78	21.78			
10	16QAM	1	0	21.83	21.83	21.83	23	1	
10	16QAM	1	25	21.77	21.77	21.77			
10	16QAM	1	49	21.72	21.72	21.72			
10	16QAM	1	49	21.81	21.81	21.81	22	2	
10	16QAM	25	0	20.90	20.90	20.90			
10	16QAM	25	12	20.85	20.85	20.85			
10	16QAM	25	25	20.73	20.73	20.73	22	2	
10	16QAM	50	0	20.84	20.84	20.84			
10	16QAM	1	25	20.79	20.79	20.79			
10	16QAM	1	26	20.74	20.74	20.74	22	2	
10	16QAM	1	49	20.60	20.60	20.60			
10	16QAM	1	49	20.57	20.57	20.57			
10	16QAM	25	12	19.86	19.86	19.86	21	3	
10	16QAM	25	25	19.81	19.81	19.81			
10	16QAM	50	0	19.85	19.85	19.85			
10	256QAM	1	25	17.86	17.86	17.86	19	5	
10	256QAM	1	49	17.74	17.74	17.74			
10	256QAM	25	0	17.80	17.80	17.80			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.71	22.78	22.82	24	0	
5	QPSK	1	12	22.68	22.72	22.84			
5	QPSK	1	24	22.64	22.74	22.84			
5	QPSK	12	0	21.66	21.77	21.88	23	1	
5	QPSK	12	7	21.71	21.78	21.73			
5	QPSK	12	13	21.49	21.84	21.84			
5	QPSK	25	0	21.66	21.79	21.87	23	1	
5	16QAM	1	0	21.63	21.81	21.83			
5	16QAM	1	12	21.57	21.80	21.84			
5	16QAM	1	24	21.59	21.81	21.86	23	1	
5	16QAM	12	0	20.70	20.81	20.89			
5	16QAM	12	7	20.68	20.77	20.84			
5	16QAM	12	13	20.61	20.72	20.81	22	2	
5	16QAM	25	0	20.68	20.81	20.73			
5	16QAM	1	0	20.52	20.65	20.59			
5	16QAM	1	12	20.46	20.60	20.50	22	2	
5	16QAM	1	24	20.48	20.57	20.43			
5	16QAM	12	0	19.86	19.78	19.87			
5	16QAM	12	7	19.70	19.74	19.83	21	3	
5	16QAM	12	13	19.66	19.71	19.59			
5	16QAM	25	0	19.61	19.79	19.66			
5	256QAM	1	12	17.78	17.83	17.76	19	5	
5	256QAM	1	24	17.68	17.83	17.78			
5	256QAM	1	24	17.64	17.75	17.79			
5	256QAM	12	0	17.76	17.88	17.77	19	5	
5	256QAM	12	7	17.65	17.73	17.60			
5	256QAM	12	13	17.55	17.79	17.65			
5	256QAM	25	0	17.73	17.78	17.68			
5	256QAM	25	0	17.73	17.78	17.68			

Band 17 Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq. (MHz)	Power High Ch./Freq. (MHz)	Power High Ch./Freq. (MHz)	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.85	22.88	22.81	24	0	
10	QPSK	1	25	22.81	22.87	22.73			
10	QPSK	1	49	22.71	22.80	22.87			
10	QPSK	25	0	21.89	21.90	21.86	23	1	
10	QPSK	25	12	21.79	21.81	21.84			
10	QPSK	25	25	21.76	21.80	21.84			
10	16QAM	1	0	21.75	21.81	21.88	23	1	
10	16QAM	1	25	21.65	21.76	21.87			
10	16QAM	1	49	21.59	21.69	21.85			
10	16QAM	25	0	20.89	20.92	20.95	22	2	
10	16QAM	25	12	20.77	20.87	20.92			
10	16QAM	25	25	20.66	20.80	20.73			
10	16QAM	50	0	20.73	20.88	20.71	22	2	
10	16QAM	1	0	20.71	20.81	20.69			
10	16QAM	1	25	20.71	20.76	20.86			
10	16QAM	1	49	20.59	20.69	20.57	21	3	
10	16QAM	25	0	19.79	19.92	19.79			
10	16QAM	25	12	19.75	19.78	19.84			
10	16QAM	25	25	19.77	19.86	19.77	19	5	
10	256QAM	1	0	17.62	17.69	17.60			
10	256QAM	1	25	17.76	17.85	17.80			
10	256QAM	1	49	17.73	17.78	17.71	19	5	
10	256QAM	25	0	17.78	17.84	17.80			
10	256QAM	25	12	17.65	17.79	17.69			
10	256QAM	25	25	17.63	17.72	17.67			
10	256QAM	50	0	17.67	17.79	17.72			
10	256QAM	1	25	17.65	17.75	17.65			
10	256QAM	1	49	17.62	17.75	17.62			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.77	22.85	22.72	24	0	
5	QPSK	1	12	22.74	22.72	22.86			
5	QPSK	1	24	22.66	22.74	22.81			
5	QPSK	12	0	21.76	21.81	21.72	23	1	
5	QPSK	12	7	21.69	21.77	21.71			
5	QPSK	12	13	21.69	21.86	21.72			
5	QPSK	25	0	21.68	21.76	21.79	23	1	
5	16QAM	1	0	21.72	21.76	21.87			
5	16QAM	1	12	21.60	21.87	21.58			
5	16QAM	1	24	21.54	21.54	21.50	22	2	
5	16QAM	12	0	20.82	20.85	20.74			
5	16QAM	12	7	20.74	20.83	20.71			
5	16QAM	25	0	20.70	20.79	20.58	22	2	
5	16QAM	1	0	20.59	20.72	20.63			
5	16QAM	1	12	20.29	20.62	20.57			
5	16QAM	1	24	20.54	20.81	20.50	21	3	
5	16QAM	12	0	19.87	19.79	19.72			
5	16QAM	12	13	19.71	19.73	19.72			
5	16QAM	12	13	19.51	19.57	19.50	19	5	
5	16QAM	25	0	19.83	19.75	19.86			
5	256QAM	1	0	17.71	17.84	17.74			
5	256QAM	1	12	17.66	17.79	17.73	19	5	
5	256QAM	1	24	17.63	17.73	17.65			
5	256QAM	12	0	17.69	17.74	17.71			
5	256QAM	12	7	17.58	17.70	17.61			
5	256QAM	12	13	17.63	17.85	17.62			
5	256QAM	25	0	17.61	17.65	17.58			

Band 26 Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.82	22.89	22.74	24	0	
10	QPSK	1	25	22.79	22.84	22.73			
10	QPSK	1	74	22.68	22.77	22.71			
10	QPSK	36	0	21.08	21.11	21.07	23	1	
10	QPSK	36	25	21.03	21.06	21.03			
10	QPSK	36	75	21.05	21.07	21.05			
10	16QAM	1	0	21.87	21.72	21.68	23	1	
10	16QAM	1	25	21.83	21.67	21.53			
10	16QAM	1	74	21.48	21.60	21.55			
10	16QAM	36	0	20.67	20.79	20.69	22	2	
10	16QAM	36	25	20.69	20.74	20.69			
10	16QAM	36	75	20.58	20.73	20.68			
10	16QAM	1	0	20.58	20.68	20.54	22	2	
10	16QAM	1	25	20.59	20.67	20.62			
10	16QAM	1	74	20.51	20.56	20.49			
10	16QAM	1	74	20.51	20.56	20.49	21	3	
10	16QAM	1	25	20.51	20.56	20.49			
10	16QAM	1	74	20.51	20.56	20.49			
10	16QAM	36	0	19.90	19.71	19.82	19	5	
10	16QAM	36	25	19.50	19.84	19.53			
10	16QAM	36	75	19.35	19.58	19.62			
10	256QAM	1	0	17.67	17.80	17.66	19	5	
10	256QAM	1	25	17.68	17.75	17.61			
10	256QAM	1	74	17.64	17.68	17.62			
10	256QAM	36	0	17.62	17.73	17.67	19	5	
10	256QAM	36	25	17.61	17.68	17.53			
10	256QAM	36	75	17.58	17.68	17.56			
Frequency (MHz)									
10	QPSK	1	0	22.73	22.82	22.68	24	0	
10	QPSK	1	25	22.70	22.72	22.58			
10	QPSK	1	74	22.54	22.63	22.51			
10	QPSK	25	0	21.07	21.17	21.04	23	1	
10	QPSK	25	12	21.08	21.06	21.04			
10	QPSK	25	25	21.09	21.06	21.08			
10	QPSK	50	0	21.52	21.62	21.54	22	2	
10	16QAM	1	0	21.48	21.65	21.53			
10	16QAM	1	25	21.50	21.63	21.42			
10	16QAM	1	49	21.35	21.48	21.42	22	2	
10	16QAM	25	0	20.55	20.68	20.63			
10	16QAM	25	12	20.59	20.58	20.61			
10	16QAM	25	25	20.53	20.52	20.56	22	2	
10	16QAM	50	0	20.45	20.59	20.63			
10	16QAM	50	12	20.45	20.56	20.48			
10	16QAM	1	25	20.40	20.53	20.44	22	2	
10	16QAM	1	49	20.37	20.43	20.37			
10	16QAM	1	74	20.30	20.35	20.32			
10	256QAM	25	12	19.54	19.61	19.50	19	5	
10	256QAM	25	25	19.40	19.57	19.45			
10	256QAM	25	49	19.37	19.48	19.45			
10	256QAM	1	0	17.60	17.73	17.59	19	5	
10	256QAM	1	25	17.63	17.71	17.57			
10	256QAM	1	74	17.57	17.65	17.55			
10	256QAM	25	0	17.54	17.64	17.57	19	5	
10	256QAM	25	12	17.52	17.60	17.47			
10	256QAM	25	25	17.47	17.54	17.47			
10	256QAM	50	0	17.45	17.53	17.53	19	5	
10	256QAM	50	12	17.45	17.53	17.53			
10	256QAM	50	25	17.45	17.53	17.53			



Band 38 Ant 0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)	MPE (dB)					
Channel													
Frequency (MHz)				39760	39800	39840							
20	QPSK	1	0	20.63	20.70	20.57	22	0					
20	QPSK	1	49	20.60	20.65	20.63							
20	QPSK	1	99	20.62	20.68	20.48	21	1					
20	QPSK	50	0	19.59	19.56	19.50							
20	QPSK	50	24	19.42	19.57	19.49	21	1					
20	QPSK	50	50	19.33	19.47	19.34							
20	QPSK	100	0	19.44	19.37	19.51	21	1					
20	16QAM	1	0	19.42	19.52	19.42							
20	16QAM	1	49	19.33	19.40	19.35	20	2					
20	16QAM	1	99	19.30	19.42	19.35							
20	16QAM	50	0	18.45	18.50	18.47	20	2					
20	16QAM	50	24	18.43	18.50	18.43							
20	16QAM	50	50	18.36	18.43	18.40	20	2					
20	16QAM	100	0	18.40	18.45	18.40							
20	16QAM	1	0	18.33	18.45	18.35	20	2					
20	16QAM	1	49	18.31	18.40	18.32							
20	16QAM	1	99	18.33	18.33	18.35	19	3					
20	16QAM	50	0	17.41	17.45	17.35							
20	16QAM	50	24	17.33	17.41	17.27	19	3					
20	16QAM	50	50	17.30	17.34	17.19							
20	16QAM	100	0	17.32	17.43	17.38	17	5					
20	256QAM	1	0	15.45	15.31	15.40							
20	256QAM	1	49	15.33	15.49	15.31	17	5					
20	256QAM	1	99	15.34	15.39	15.28							
20	256QAM	50	0	15.44	15.48	15.42	17	5					
20	256QAM	50	24	15.35	15.43	15.31							
20	256QAM	50	50	15.30	15.36	15.25	20	5					
20	256QAM	100	0	15.40	15.44	15.39							
Channel													
Frequency (MHz)				39765	39805	39845							
15	QPSK	1	0	20.73	20.63	20.63	22	0					
15	QPSK	1	37	20.65	20.68	20.49							
15	QPSK	1	74	20.42	20.54	20.36	21	1					
15	QPSK	36	0	19.61	19.67	19.36							
15	QPSK	36	20	19.29	19.61	19.35	21	1					
15	QPSK	36	50	19.33	19.40	19.38							
15	16QAM	1	0	19.31	19.47	19.34	21	1					
15	16QAM	1	74	19.10	19.31	19.24							
15	16QAM	36	0	18.39	18.49	18.39	20	2					
15	16QAM	36	20	18.35	18.48	18.35							
15	16QAM	36	50	18.31	18.35	18.28	20	2					
15	16QAM	75	0	18.37	18.44	18.30							
15	16QAM	1	0	18.35	18.37	18.25	19	3					
15	16QAM	1	37	18.25	18.29	18.20							
15	16QAM	1	74	18.16	18.22	18.13	20	2					
15	16QAM	36	0	17.37	17.35	17.24							
15	16QAM	36	20	17.39	17.34	17.21	19	3					
15	16QAM	36	50	17.30	17.32	17.13							
15	16QAM	75	0	17.22	17.37	17.29	17	5					
15	256QAM	1	0	15.38	15.38	15.32							
15	256QAM	1	37	15.32	15.38	15.32	17	5					
15	256QAM	1	74	15.25	15.34	15.21							
15	256QAM	36	0	15.31	15.35	15.28	17	5					
15	256QAM	36	20	15.29	15.38	15.16							
15	256QAM	36	50	15.29	15.34	15.16	20	2					
15	256QAM	75	0	15.27	15.36	15.10							
Channel													
Frequency (MHz)				39760	39800	39820							
10	QPSK	1	0	20.63	20.59	20.56	22	0					
10	QPSK	1	25	20.61	20.55	20.42							
10	QPSK	1	49	20.42	20.48	20.34	21	1					
10	QPSK	25	0	19.44	19.51	19.41							
10	QPSK	25	12	19.39	19.47	19.39	21	1					
10	QPSK	25	25	19.27	19.38	19.30							
10	16QAM	1	0	19.39	19.44	19.30	21	1					
10	16QAM	1	25	19.29	19.35	19.38							
10	16QAM	1	49	19.21	19.28	19.28	21	1					
10	16QAM	25	0	18.35	18.42	18.35							
10	16QAM	25	12	18.30	18.31	18.32	20	2					
10	16QAM	50	0	18.37	18.37	18.30							
10	16QAM	1	0	18.29	18.31	18.21	20	2					
10	16QAM	1	25	18.19	18.32	18.27							
10	16QAM	1	49	18.15	18.22	18.19	19	3					
10	16QAM	25	0	17.32	17.38	17.22							
10	16QAM	25	12	17.28	17.30	17.23	19	3					
10	16QAM	25	25	17.21	17.22	17.17							
10	16QAM	50	0	17.29	17.31	17.25	17	5					
10	256QAM	1	0	15.31	15.37	15.30							
10	256QAM	1	25	15.21	15.33	15.27	17	5					
10	256QAM	1	49	15.30	15.29	15.14							
10	256QAM	25	0	15.30	15.45	15.32	17	5					
10	256QAM	25	12	15.28	15.36	15.17							
10	256QAM	25	25	15.27	15.31	15.14	20	2					
10	256QAM	50	0	15.25	15.40	15.22							
Channel													
Frequency (MHz)				39775	39805	39825							
5	QPSK	1	0	20.64	20.67	20.43	22	0					
5	QPSK	1	12	20.48	20.55	20.46							
5	QPSK	1	24	20.39	20.49	20.40	21	1					
5	QPSK	12	0	19.41	19.58	19.45							
5	QPSK	12	7	19.34	19.48	19.36	21	1					
5	QPSK	12	13	19.24	19.41	19.27							
5	QPSK	25	0	18.32	18.40	18.42	21	1					
5	16QAM	1	0	19.34	19.48	19.25							
5	16QAM	1	12	19.28	19.35	19.29	21	1					
5	16QAM	1	24	19.15	19.37	19.26							
5	16QAM	12	0	18.42	18.42	18.42	20	2					
5	16QAM	12	7	18.34	18.36	18.30							
5	16QAM	12	13	18.27	18.35	18.27	20	2					
5	16QAM	25	0	18.34	18.38	18.40							
5	16QAM	1	0	18.23	18.34	18.22	19	3					
5	16QAM	12	0	17.29	17.43	17.24							
5	16QAM	12	7	17.22	17.37	17.18	17	5					
5	16QAM	12	13	17.38	17.23	17.07							
5	16QAM	25	0	17.35	17.36	17.25	17	5					
5	256QAM	1	0	15.32	15.45	15.38							
5	256QAM	1	12	15.26	15.36	15.26	17	5					
5	256QAM	1	24	15.24	15.32	15.21							
5	256QAM	12	0	15.33	15.44	15.35	20	5					
5	256QAM	12	7	15.25	15.33	15.19							
5	256QAM	12	13	15.21	15.27	15.12	20	5					
5	256QAM	25	0	15.27	15.39	15.22							
Channel													
Frequency (MHz)				39775	39805	39825							



Band 42 Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.62	20.74	20.67	22	0				
20	QPSK	1	49	20.60	20.72	20.64						
20	QPSK	1	99	20.58	20.69	20.52	21	1				
20	QPSK	50	0	19.70	19.74	19.70						
20	QPSK	50	24	19.61	19.69	19.60	21	1				
20	QPSK	50	49	19.55	19.63	19.63						
20	QPSK	100	0	19.59	19.66	19.53	21	1				
20	16QAM	1	0	19.53	19.58	19.47						
20	16QAM	1	49	19.40	19.53	19.42	20	2				
20	16QAM	1	99	19.38	19.46	19.37						
20	16QAM	50	0	18.59	18.70	18.61	20	2				
20	16QAM	50	24	18.55	18.65	18.53						
20	16QAM	50	50	18.54	18.58	18.55	20	2				
20	64QAM	1	0	18.50	18.54	18.54						
20	64QAM	1	49	18.50	18.56	18.49	20	2				
20	64QAM	1	99	18.43	18.49	18.43						
20	64QAM	50	0	17.55	17.66	17.54	19	3				
20	64QAM	50	24	17.48	17.61	17.48						
20	64QAM	50	50	17.39	17.54	17.45	19	3				
20	64QAM	100	0	17.50	17.60	17.56						
20	256QAM	1	0	15.69	15.77	15.68	17	5				
20	256QAM	1	49	15.61	15.72	15.62						
20	256QAM	1	99	15.57	15.65	15.57	17	5				
20	256QAM	50	0	15.60	15.67	15.57						
20	256QAM	50	24	15.56	15.67	15.52	17	5				
20	256QAM	50	50	15.53	15.60	15.47						
20	256QAM	100	0	15.49	15.59	15.54	17	5				
20	256QAM	100	0	15.49	15.59	15.54						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.54	20.61	20.54	22	0				
15	QPSK	1	37	20.50	20.58	20.56						
15	QPSK	1	74	20.43	20.58	20.47	21	1				
15	QPSK	36	0	19.60	19.68	19.60						
15	QPSK	36	20	19.52	19.54	19.54	21	1				
15	QPSK	75	0	19.44	19.58	19.44						
15	16QAM	1	0	19.40	19.44	19.33	21	1				
15	16QAM	1	37	19.37	19.33	19.29						
15	16QAM	1	74	19.25	19.42	19.28	20	2				
15	16QAM	36	0	18.48	18.57	18.46						
15	16QAM	36	18	18.32	18.32	18.30	20	2				
15	16QAM	36	50	18.44	18.51	18.46						
15	16QAM	75	0	18.48	18.53	18.43	20	2				
15	64QAM	1	0	19.47	19.57	19.44						
15	64QAM	1	37	19.37	19.49	19.38	20	2				
15	64QAM	1	74	19.30	19.40	19.35						
15	64QAM	36	0	17.52	17.59	17.47	19	3				
15	64QAM	36	20	17.41	17.54	17.41						
15	64QAM	75	0	17.39	17.45	17.47	17	5				
15	256QAM	1	0	15.66	15.64	15.61						
15	256QAM	1	37	15.60	15.67	15.60	17	5				
15	256QAM	1	74	15.53	15.54	15.49						
15	256QAM	36	0	15.63	15.60	15.45	17	5				
15	256QAM	36	20	15.46	15.54	15.49						
15	256QAM	36	39	15.45	15.56	15.38	17	5				
15	256QAM	75	0	15.46	15.50	15.49						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.54	20.58	20.54	22	0				
10	QPSK	1	25	20.52	20.58	20.50						
10	QPSK	1	49	20.53	20.51	20.38	21	1				
10	QPSK	25	0	19.52	19.67	19.55						
10	QPSK	25	12	19.52	19.64	19.56	21	1				
10	QPSK	25	25	19.50	19.53	19.40						
10	QPSK	50	0	19.50	19.55	19.48	21	1				
10	16QAM	1	0	19.38	19.50	19.43						
10	16QAM	1	25	19.33	19.48	19.29	20	2				
10	16QAM	1	49	19.25	19.34	19.32						
10	16QAM	25	0	18.52	18.58	18.52	20	2				
10	16QAM	25	12	18.45	18.46	18.44						
10	16QAM	25	25	18.41	18.54	18.40	20	2				
10	16QAM	50	0	18.40	18.52	18.40						
10	64QAM	1	0	19.40	19.48	19.35	20	2				
10	64QAM	1	25	19.32	19.45	19.21						
10	64QAM	1	49	19.12	19.29	19.16	19	3				
10	64QAM	25	0	17.27	17.31	17.43						
10	64QAM	25	12	17.23	17.41	17.30	19	3				
10	64QAM	25	25	17.24	17.57	17.41						
10	256QAM	1	0	15.65	15.57	15.60	17	5				
10	256QAM	1	25	15.56	15.57	15.51						
10	256QAM	1	49	15.44	15.60	15.44	17	5				
10	256QAM	25	0	15.56	15.54	15.54						
10	256QAM	25	12	15.47	15.63	15.48	17	5				
10	256QAM	25	25	15.40	15.48	15.38						
10	256QAM	50	0	15.37	15.50	15.44	17	5				
10	256QAM	50	0	15.37	15.50	15.44						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.50	20.65	20.50	22	0				
5	QPSK	1	12	20.48	20.59	20.54						
5	QPSK	1	24	20.36	20.50	20.43	21	1				
5	QPSK	12	0	19.58	19.68	19.64						
5	QPSK	12	7	19.47	19.61	19.47	21	1				
5	QPSK	12	13	19.43	19.49	19.39						
5	QPSK	25	0	19.54	19.58	19.54	21	1				
5	16QAM	1	0	19.46	19.46	19.37						
5	16QAM	1	12	19.39	19.48	19.38	20	2				
5	16QAM	1	24	19.29	19.35	19.23						
5	16QAM	12	0	18.46	18.46	18.57	20	2				
5	16QAM	12	7	18.49	18.59	18.44						
5	16QAM	12	13	18.42	18.53	18.50	20	2				
5	16QAM	25	0	18.50	18.57	18.50						
5	64QAM	1	0	19.40	19.46	19.38	20	2				
5	64QAM	1	12	19.33	19.44	19.32						
5	64QAM	1	24	19.17	19.31	19.17	19	3				
5	64QAM	12	0	17.43	17.48	17.45						
5	64QAM	12	7	17.40	17.49	17.44	19	3				
5	64QAM	12	13	17.31	17.38	17.34						
5	64QAM	25	0	17.46	17.46	17.44	17	5				
5	256QAM	1	0	15.58	15.52	15.59						
5	256QAM	1	12	15.52	15.54	15.53	17	5				
5	256QAM	1	24	15.44	15.65	15.53						
5	256QAM	12	0	15.45	15.51	15.53	17	5				
5	256QAM	12	7	15.31	15.57	15.48						
5	256QAM	12	13	15.30	15.31	15.43	17	5				
5	256QAM	25	0	15.37	15.45	15.51						

Band 42 Part 96 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Power Ch / Freq	Power Level Power Ch / Freq	Power Level Power Ch / Freq	Turn-up time (min)	APR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	9	20.44	20.51	20.51			
20	QPSK	1	49	20.50	20.58	20.54			
20	QPSK	1	19	20.38	20.42	20.41	22	0	
20	QPSK	50	24	19.52	19.60	19.63			0
20	QPSK	50	24	19.44	19.40	19.37			0
20	QPSK	50	24	19.44	19.40	19.41	21	1	
20	QPSK	100	0	19.52	19.54	19.44			
20	16QAM	1	5	19.39	19.41	19.37	21	1	
20	16QAM	1	49	19.40	19.40	19.37			
20	16QAM	1	99	19.33	19.32	19.23			
20	16QAM	50	0	18.57	18.54	18.47			
20	16QAM	50	0	18.54	18.52	18.48			
20	16QAM	50	50	18.38	18.41	18.37	20	2	
20	16QAM	100	0	18.42	18.53	18.46			
20	16QAM	100	0	18.42	18.51	18.48			
20	64QAM	1	40	18.36	18.52	18.30	20	2	
20	64QAM	1	80	18.36	18.52	18.33			
20	64QAM	50	5	17.41	17.40	17.50			
20	64QAM	50	24	17.52	17.58	17.41	19	3	
20	64QAM	100	0	17.43	17.58	17.43			
20	256QAM	1	0	15.66	15.64	15.63			
20	256QAM	1	40	15.50	15.49	15.52	17	5	
20	256QAM	1	80	15.49	15.62	15.42			
20	256QAM	50	24	15.60	15.60	15.52			
20	256QAM	50	24	15.49	15.59	15.50	17	5	
20	256QAM	50	50	15.45	15.43	15.43			
20	256QAM	100	0	15.45	15.49	15.46			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.40	20.43	20.41			
15	QPSK	1	47	20.35	20.33	20.40	22	0	
15	QPSK	1	74	20.29	20.45	20.37			
15	QPSK	50	24	19.45	19.58	19.46			
15	QPSK	50	20	19.20	19.43	19.35	21	1	
15	QPSK	50	24	19.45	19.58	19.39			
15	QPSK	70	5	19.40	19.46	19.37			
15	16QAM	1	0	19.32	19.31	19.33			
15	16QAM	1	37	19.27	19.37	19.35	21	1	
15	16QAM	1	74	19.22	19.23	19.15			
15	16QAM	50	0	18.46	18.46	18.32			
15	16QAM	50	0	18.42	18.48	18.42	20	2	
15	16QAM	50	30	18.29	18.31	18.35			
15	16QAM	100	0	18.33	18.39	18.27			
15	64QAM	1	0	18.33	18.39	18.28			
15	64QAM	1	37	18.32	18.48	18.24			
15	64QAM	50	0	17.37	17.48	17.36			
15	64QAM	50	20	17.32	17.37	17.30	19	3	
15	64QAM	50	72	17.22	17.30	17.29			
15	64QAM	70	6	17.35	17.51	17.39			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.30	20.33	20.31			
15	QPSK	1	25	20.26	20.32	20.39	22	0	
15	QPSK	1	52	20.20	20.36	20.24			
15	QPSK	20	0	19.37	19.59	19.51			
15	QPSK	20	12	19.41	19.46	19.58	21	1	
15	QPSK	50	24	19.33	19.33	19.32			
15	QPSK	50	5	19.42	19.48	19.35			
15	16QAM	1	0	19.28	19.31	19.26			
15	16QAM	1	25	19.23	19.36	19.28	21	1	
15	16QAM	1	49	19.20	19.17	19.18			
15	16QAM	20	0	18.44	18.46	18.40			
15	16QAM	20	12	18.39	18.39	18.38	20	2	
15	16QAM	20	25	18.30	18.24	18.36			
15	16QAM	50	0	18.36	18.37	18.31			
15	64QAM	1	0	18.33	18.42	18.35			
15	64QAM	1	25	18.28	18.45	18.21	20	2	
15	64QAM	50	0	18.12	18.29	18.18			
15	64QAM	20	0	17.27	17.48	17.35			
15	64QAM	20	12	17.23	17.43	17.30	19	3	
15	64QAM	20	25	17.28	17.44	17.28			
15	64QAM	50	0	17.28	17.45	17.30			
15	256QAM	1	0	15.66	15.66	15.50			
15	256QAM	1	25	15.46	15.46	15.47	17	5	
15	256QAM	1	49	15.45	15.58	15.28			
15	256QAM	20	0	15.45	15.58	15.43			
15	256QAM	20	12	15.33	15.46	15.43	17	5	
15	256QAM	20	25	15.41	15.38	15.42			
15	256QAM	50	0	15.37	15.38	15.44			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.42	20.49	20.41			
5	QPSK	1	12	20.37	20.56	20.38	22	0	
5	QPSK	1	24	20.32	20.52	20.27			
5	QPSK	12	5	19.46	19.55	19.50			
5	QPSK	12	7	19.37	19.45	19.47	21	1	
5	16QAM	1	0	19.42	19.48	19.35			
5	16QAM	1	0	19.28	19.27	19.24			
5	16QAM	12	12	19.16	19.24	19.30	21	1	
5	16QAM	1	24	19.20	19.28	19.07			
5	16QAM	12	7	18.46	18.47	18.48			
5	16QAM	12	7	18.36	18.35	18.43	20	2	
5	16QAM	12	13	18.34	18.37	18.43			
5	64QAM	1	0	18.32	18.51	18.29			
5	64QAM	1	0	18.36	18.42	18.31			
5	64QAM	1	12	18.20	18.36	18.25	20	2	
5	64QAM	1	12	18.12	18.18	18.13			
5	64QAM	12	13	17.23	17.41	17.38			
5	64QAM	20	0	17.38	17.51	17.37	19	3	
5	256QAM	1	0	15.64	15.64	15.49			
5	256QAM	1	12	15.47	15.41	15.40	17	5	
5	256QAM	1	24	15.36	15.53	15.38			
5	256QAM	12	0	15.36	15.53	15.41			
5	256QAM	12	7	15.37	15.53	15.35	17	5	
5	256QAM	12	13	15.33	15.29	15.41			
5	256QAM	20	0	15.35	15.39	15.47			

Band 48 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tuneup Int. (dBm)	MPR (dB)			
Channel				56340	56830	56150	56660					
Frequency (MHz)				20.69	20.69	20.64	20.69					
20	QPSK	1	0	20.77	20.54	20.71	20.67	22	0			
20	QPSK	1	49	20.71	20.79	20.67	20.62					
20	QPSK	8	0	20.69	20.73	20.69	20.58					
20	QPSK	50	0	20.51	20.54	20.54	20.55					
20	QPSK	50	24	20.55	20.59	20.48	20.55	21	1			
20	QPSK	50	50	20.43	20.52	20.42	20.39					
20	QPSK	100	0	20.56	20.61	20.54	20.52					
20	16QAM	1	0	20.49	20.59	20.53	20.45					
20	16QAM	1	49	20.49	20.54	20.47	20.43	21	1			
20	16QAM	1	99	20.43	20.47	20.35	20.41					
20	16QAM	25	0	19.51	19.63	19.60	19.54					
20	16QAM	50	24	19.54	19.58	19.52	19.44					
20	16QAM	50	50	19.46	19.51	19.41	19.48	20	2			
20	16QAM	100	0	19.46	19.56	19.51	19.55					
20	64QAM	1	0	19.40	19.50	19.5	19.45					
20	64QAM	1	49	19.45	19.55	19.41	19.43					
20	64QAM	1	99	19.35	19.45	19.41	19.40	19	3			
20	64QAM	50	0	19.70	19.73	19.67	19.69					
20	64QAM	50	24	19.54	19.68	19.64	19.58					
20	64QAM	50	50	19.51	19.61	19.55	19.52					
20	256QAM	1	0	19.61	19.69	19.58	19.58	17	5			
20	256QAM	1	0	19.69	19.74	19.61	19.68					
20	256QAM	1	99	19.52	19.62	19.48	19.53					
20	256QAM	25	0	19.60	19.66	19.57	19.63					
20	256QAM	50	24	19.52	19.61	19.54	19.55	17	5			
20	256QAM	50	50	19.39	19.54	19.41	19.44					
20	256QAM	100	0	19.57	19.61	19.53	19.55					
Channel				56315	56925	56100	56660					
Frequency (MHz)				20.72	20.72	20.62	20.72					
15	QPSK	1	0	20.72	20.77	20.62 <td>20.59</td> <td rowspan="4">22</td> <td rowspan="4">0</td> <td rowspan="4"></td>	20.59	22			0	
15	QPSK	1	37	20.60	20.69	20.60	20.51					
15	QPSK	1	74	20.60	20.62	20.55	20.49					
15	QPSK	36	0	20.48	20.50	20.48	20.47					
15	QPSK	36	20	20.44	20.49	20.45	20.40	21	1			
15	QPSK	36	36	20.33	20.40	20.33	20.35					
15	QPSK	75	0	20.42	20.55	20.43	20.46					
15	16QAM	1	0	20.44	20.55	20.44	20.32					
15	16QAM	1	37	20.40	20.50	20.38	20.36	21	1			
15	16QAM	1	74	20.34	20.39	20.21	20.28					
15	16QAM	36	0	19.46	19.51	19.45	19.46					
15	16QAM	36	20	19.45	19.51	19.47	19.30					
15	16QAM	36	36	19.39	19.40	19.26	19.41	20	2			
15	16QAM	75	0	19.36	19.51	19.36	19.48					
15	64QAM	1	0	19.35	19.53	19.49	19.33					
15	64QAM	1	37	19.41	19.45	19.33	19.38					
15	64QAM	1	74	19.26	19.41	19.26	19.39	19	3			
15	64QAM	36	0	19.55	19.57	19.55	19.59					
15	64QAM	36	20	19.47	19.61	19.61	19.51					
15	64QAM	36	36	19.35	19.64	19.43	19.58					
15	64QAM	75	0	19.54	19.54	19.47	19.44	17	5			
15	256QAM	1	0	19.61	19.62	19.67	19.56					
15	256QAM	1	37	19.60	19.65	19.67	19.56					
15	256QAM	1	74	19.42	19.48	19.37	19.40					
15	256QAM	36	0	19.52	19.62	19.54	19.58	17	5			
15	256QAM	36	20	19.38	19.50	19.49	19.47					
15	256QAM	36	36	19.36	19.45	19.34	19.35					
15	256QAM	75	0	19.50	19.47	19.43	19.50					
Channel				56315	56915	56100	56660					
Frequency (MHz)				20.72	20.72	20.62	20.72					
10	QPSK	1	0	20.72	20.77	20.62 <td>20.59</td> <td rowspan="4">22</td> <td rowspan="4">0</td> <td rowspan="4"></td>	20.59	22	0			
10	QPSK	1	25	20.66	20.68	20.59	20.52					
10	QPSK	1	49	20.59	20.60	20.54	20.52					
10	QPSK	36	0	20.30	20.61	20.47	20.44					
10	QPSK	25	12	20.44	20.59	20.40	20.51	21	1			
10	QPSK	25	25	20.37	20.37	20.38	20.29					
10	QPSK	50	0	20.53	20.48	20.50	20.40					
10	16QAM	1	0	20.44	20.51	20.39	20.37					
10	16QAM	1	25	20.40	20.48	20.35	20.33	21	1			
10	16QAM	1	49	20.31	20.39	20.29	20.28					
10	16QAM	25	0	19.38	19.50	19.51	19.42					
10	16QAM	25	12	19.41	19.45	19.37	19.37					
10	64QAM	1	0	19.42	19.46	19.41	19.38	20	2			
10	64QAM	1	25	19.42	19.39	19.29	19.35					
10	64QAM	1	25	19.35	19.44	19.35	19.35					
10	64QAM	25	0	19.64	19.60	19.61	19.62					
10	64QAM	25	12	19.49	19.64	19.64	19.51	19	3			
10	64QAM	25	25	19.37	19.48	19.49	19.44					
10	64QAM	50	0	19.47	19.58	19.49	19.50					
10	256QAM	1	0	19.65	19.61	19.58	19.55					
10	256QAM	1	25	19.63	19.58	19.51	19.51	17	5			
10	256QAM	1	49	19.40	19.50	19.45	19.41					
10	256QAM	25	0	19.40	19.58	19.42	19.49					
10	256QAM	25	12	19.40	19.40	19.40	19.44					
10	256QAM	25	25	19.36	19.43	19.35	19.31	17	5			
10	256QAM	50	0	19.51	19.54	19.43	19.45					
Channel				56295	56819	56100	56715					
Frequency (MHz)				20.73	20.81	20.62	20.71					
5	QPSK	1	0	20.73	20.81	20.62 <td>20.61</td> <td rowspan="4">22</td> <td rowspan="4">0</td> <td rowspan="4"></td>	20.61	22			0	
5	QPSK	1	12	20.62	20.64	20.57	20.51					
5	QPSK	1	24	20.60	20.81	20.59	20.51					
5	QPSK	12	0	20.42	20.53	20.46	20.47					
5	QPSK	12	7	20.47	20.52	20.42	20.48	21	1			
5	QPSK	12	13	20.31	20.40	20.35	20.34					
5	QPSK	25	0	20.44	20.57	20.44	20.43					
5	16QAM	1	0	20.38	20.49	20.39	20.34					
5	16QAM	1	12	20.39	20.41	20.43	20.39	21	1			
5	16QAM	1	24	20.29	20.39	20.24	20.27					
5	16QAM	12	0	19.39	19.55	19.45	19.34					
5	16QAM	12	13	19.39	19.49	19.31	19.34					
5	16QAM	25	0	19.42	19.49	19.42	19.43	20	2			
5	64QAM	1	0	19.35	19.51	19.42	19.40					
5	64QAM	1	12	19.39	19.41	19.34	19.30					
5	64QAM	1	24	19.27	19.37	19.37	19.29					
5	64QAM	12	0	19.56	19.68	19.53	19.55	19	3			
5	64QAM	12	13	19.48	19.51	19.55	19.53					
5	64QAM	25	0	19.47	19.57	19.53	19.42					
5	256QAM	1	0	19.58	19.69	19.58	19.56					
5	256QAM	1	12	19.60	19.55	19.64	19.55	17	5			
5	256QAM	1	24	19.45	19.51	19.49	19.39					
5	256QAM	12	0	19.47	19.60	19.64	19.57					
5	256QAM	12	7	19.48	19.53	19.43	19.51					
5	256QAM	12	13	19.30	19.45	19.27	19.32	17	5			
5	256QAM	25	0	19.53	19.49	19.44	19.45					

GSM850 Ant 1		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50
GSM 1 Tx slot		32.18	32.34	32.26		23.18	23.34	23.26	
GPRS 1 Tx slot		32.23	32.38	32.30	33.50	23.23	23.38	23.30	24.50
GPRS 2 Tx slots		29.48	29.52	29.41	30.50	23.48	23.52	23.41	24.50
GPRS 3 Tx slots		27.74	27.85	27.79	29.00	23.48	23.59	23.53	24.74
GPRS 4 Tx slots		26.27	26.35	26.27	27.00	23.27	23.35	23.27	24.00
EDGE 1 Tx slot		25.13	25.18	25.08	26.00	16.13	16.18	16.08	17.00
EDGE 2 Tx slots		23.21	23.35	23.21	25.00	17.21	17.35	17.21	19.00
EDGE 3 Tx slots		22.19	22.30	22.27	24.00	17.93	18.04	18.01	19.74
EDGE 4 Tx slots		20.02	20.14	20.07	21.00	17.02	17.14	17.07	18.00

GSM900 Ant 1		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8	30.00	1850.2	1880	1909.8	21.00
GSM 1 Tx slot		29.81	29.93	29.89		20.81	20.93	20.89	
GPRS 1 Tx slot		29.85	29.97	29.93	30.00	20.85	20.97	20.93	21.00
GPRS 2 Tx slots		25.58	25.62	25.50	27.00	19.58	19.62	19.50	21.00
GPRS 3 Tx slots		23.66	23.69	23.61	25.50	19.40	19.43	19.35	21.24
GPRS 4 Tx slots		21.31	21.41	21.28	22.50	18.31	18.41	18.28	19.50
EDGE 1 Tx slot		23.45	23.54	23.51	25.00	14.45	14.54	14.51	16.00
EDGE 2 Tx slots		21.84	21.91	21.79	23.50	15.84	15.91	15.79	17.50
EDGE 3 Tx slots		20.63	20.69	20.56	22.50	16.37	16.43	16.30	18.24
EDGE 4 Tx slots		18.56	18.66	18.62	20.50	15.56	15.66	15.62	17.50

Band		WCDMA U Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
TX Channel		1312	1413	1513		4132	4182	4233	
Rx Channel		1537	1638	1738	30.00	4357	4407	4458	23.00
Frequency (MHz)		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.81	22.89	22.78	24.00	22.40	22.46	22.30	24.00
3GPP Rel 99	RMC 12.2Kbps	22.87	22.96	22.83	24.00	22.43	22.49	22.37	24.00
3GPP Rel 6	HSDPA Subtest-1	21.95	22.02	21.87	23.00	21.55	21.60	21.37	23.00
3GPP Rel 6	HSDPA Subtest-2	21.85	21.86	21.83	23.00	21.47	21.50	21.47	23.00
3GPP Rel 6	HSDPA Subtest-3	21.28	21.46	21.37	22.50	20.86	21.05	21.00	22.50
3GPP Rel 6	HSDPA Subtest-4	21.27	21.52	21.36	22.50	20.85	21.15	20.90	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.94	22.12	21.74	23.00	21.47	21.68	21.28	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.85	21.86	21.70	23.00	21.42	21.42	21.34	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.45	21.28	21.38	22.50	21.02	20.85	20.93	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.26	21.13	21.39	22.50	20.82	20.75	20.99	22.50
3GPP Rel 6	HSUPA Subtest-1	21.90	21.98	22.06	23.00	21.51	21.56	21.61	23.00
3GPP Rel 6	HSUPA Subtest-2	19.87	19.94	19.82	21.00	19.41	19.49	19.39	21.00
3GPP Rel 6	HSUPA Subtest-3	20.92	20.93	20.82	22.00	20.54	20.48	20.44	22.00
3GPP Rel 6	HSUPA Subtest-4	19.77	19.86	19.82	21.00	19.37	19.45	19.37	21.00
3GPP Rel 6	HSUPA Subtest-5	22.04	21.68	21.73	23.00	21.58	21.32	21.38	23.00



Band 4 Ant 1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power High Ch./Fires	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.63	21.70	21.68			
20	QPSK	1	49	21.68	21.70	21.68			
20	QPSK	1	99	21.64	21.63	21.63			23
20	QPSK	50	0	20.96	21.03	20.95			
20	QPSK	50	24	20.92	20.98	20.97			
20	QPSK	50	50	20.78	20.91	20.84			22
20	QPSK	100	0	20.93	20.96	20.97			
20	QPSK	100	24	20.75	20.93	20.85			
20	QPSK	1	49	20.76	20.84	20.74			22
20	QPSK	1	99	20.66	20.77	20.70			
20	QPSK	50	0	19.89	19.97	19.93			
20	QPSK	50	24	19.83	19.92	19.86			21
20	QPSK	50	50	19.74	19.85	19.72			
20	QPSK	100	0	19.89	19.92	19.93			
20	QPSK	1	0	19.75	19.83	19.79			
20	QPSK	1	49	19.65	19.76	19.66			21
20	QPSK	1	99	19.56	19.71	19.69			
20	QPSK	50	0	19.90	19.98	19.89			
20	QPSK	50	24	19.83	19.93	19.81			20
20	QPSK	50	50	19.74	19.86	19.74			
20	QPSK	100	0	19.77	19.83	19.81			
20	QPSK	1	49	19.66	19.76	19.69			
20	QPSK	1	99	19.52	19.70	19.65			18
20	QPSK	50	0	19.70	19.83	19.69			
20	QPSK	50	24	19.62	19.76	19.62			
20	QPSK	50	50	19.73	19.82	19.77			18
20	QPSK	100	0	19.56	19.75	19.63			
20	QPSK	100	0	19.76	19.85	19.76			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.17.5	17.17.5	17.17.5			
15	QPSK	1	49	21.56	21.71	21.68			
15	QPSK	1	99	21.44	21.67	21.63			23
15	QPSK	1	74	21.45	21.60	21.49			
15	QPSK	36	0	20.80	20.94	20.89			
15	QPSK	36	24	20.83	20.91	20.87			22
15	QPSK	75	0	20.79	20.92	20.76			
15	QPSK	1	99	20.72	20.80	20.80			
15	QPSK	1	37	20.64	20.80	20.59			22
15	QPSK	1	74	20.62	20.76	20.65			
15	QPSK	36	0	19.84	19.91	19.75			
15	QPSK	36	20	19.70	19.82	19.78			21
15	QPSK	75	0	19.82	19.70	19.70			
15	QPSK	1	0	19.70	19.71	19.70			
15	QPSK	1	49	19.62	19.67	19.68			21
15	QPSK	1	74	19.48	19.52	19.52			
15	QPSK	36	0	19.80	19.87	19.77			
15	QPSK	36	24	19.77	19.86	19.71			20
15	QPSK	36	36	19.54	19.73	19.61			
15	QPSK	75	0	19.74	19.87	19.70			
15	QPSK	1	99	19.64	19.86	19.84			
15	QPSK	1	37	19.76	19.76	19.76			18
15	QPSK	1	74	19.62	19.74	19.64			
15	QPSK	36	0	19.62	19.76	19.61			
15	QPSK	36	20	19.63	19.71	19.74			18
15	QPSK	75	0	19.63	19.64	19.67			
15	QPSK	75	0	19.63	19.74	19.65			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.61	21.61	21.61			
10	QPSK	1	25	21.53	21.62	21.61			23
10	QPSK	1	49	21.42	21.57	21.41			
10	QPSK	1	25	20.86	20.92	20.86			
10	QPSK	25	12	20.85	20.91	20.75			22
10	QPSK	25	25	20.66	20.79	20.77			
10	QPSK	50	0	20.61	20.76	20.61			
10	QPSK	1	0	20.71	20.84	20.78			22
10	QPSK	1	25	20.64	20.78	20.61			
10	QPSK	50	0	19.83	19.92	19.86			
10	QPSK	25	0	19.78	19.91	19.72			
10	QPSK	25	12	19.76	19.84	19.78			21
10	QPSK	50	0	19.68	19.71	19.64			
10	QPSK	50	0	19.63	19.84	19.75			
10	QPSK	1	0	19.71	19.68	19.73			21
10	QPSK	1	25	19.50	19.62	19.52			
10	QPSK	1	49	19.45	19.67	19.61			
10	QPSK	25	0	19.78	19.84	19.63			20
10	QPSK	25	12	19.68	19.74	19.68			
10	QPSK	50	0	19.73	19.83	19.74			
10	QPSK	1	25	19.61	19.80	19.63			
10	QPSK	1	25	19.73	19.82	19.76			18
10	QPSK	1	49	19.58	19.72	19.62			
10	QPSK	1	25	19.57	19.63	19.65			
10	QPSK	25	12	19.69	19.76	19.76			18
10	QPSK	25	25	19.56	19.71	19.64			
10	QPSK	50	0	19.67	19.67	19.64			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.46	21.70	21.62			
5	QPSK	1	12	21.48	21.60	21.57			23
5	QPSK	1	24	21.48	21.57	21.42			
5	QPSK	8	0	20.86	20.97	20.81			
5	QPSK	12	7	20.88	20.92	20.76			22
5	QPSK	12	13	20.64	20.81	20.76			
5	QPSK	1	0	20.67	20.84	20.76			
5	QPSK	1	0	20.64	20.80	20.79			22
5	QPSK	1	12	20.68	20.71	20.65			
5	QPSK	1	24	20.46	20.63	20.56			
5	QPSK	12	0	19.81	19.89	19.74			
5	QPSK	12	7	19.76	19.87	19.77			21
5	QPSK	1	0	19.65	19.75	19.68			
5	QPSK	25	0	19.79	19.81	19.78			
5	QPSK	1	0	19.71	19.70	19.73			21
5	QPSK	1	12	19.58	19.68	19.60			
5	QPSK	1	24	19.50	19.67	19.54			
5	QPSK	12	0	19.84	19.91	19.63			20
5	QPSK	12	13	19.72	19.87	19.75			
5	QPSK	12	13	19.62	19.83	19.64			
5	QPSK	25	0	19.72	19.87	19.71			
5	QPSK	1	0	19.87	19.84	19.85			18
5	QPSK	1	12	19.61	19.80	19.73			
5	QPSK	1	24	19.57	19.69	19.63			
5	QPSK	1	12	19.67	19.69	19.60			
5	QPSK	12	0	19.67	19.70	19.72			18
5	QPSK	12	7	19.68	19.78	19.65			
5	QPSK	12	13	19.59	19.68	19.65			
5	QPSK	25	0	19.64	19.70	19.67			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.51	21.71	21.57			
1.4	QPSK	1	3	21.56	21.68	21.52			23
1.4	QPSK	1	5	21.45	21.59	21.42			
1.4	QPSK	3	0	21.54	21.62	21.55			
1.4	QPSK	3	1	21.50	21.57	21.55			22
1.4	QPSK	3	3	21.50	21.52	21.41			
1.4	QPSK	6	0	20.82	20.88	20.81			22
1.4	QPSK	1	0	20.84	20.92	20.83			
1.4	QPSK	1	3	20.88	20.91	20.75			
1.4	QPSK	1	0	20.71	20.83	20.75			22
1.4	QPSK	3	0	20.75	20.76	20.64			
1.4	QPSK	3	1	20.52	20.74	20.57			
1.4	QPSK	1	0	19.70	19.85	19.76			21
1.4	QPSK	1	3	19.77	19.87	19.77			
1.4	QPSK	1	5	19.76	19.85	19.79			21
1.4	QPSK	3	0	19.71	19.72	19.64			
1.4	QPSK	3	1	19.58	19.69	19.62			
1.4	QPSK	1	0	19.60	19.67	19.63			20
1.4	QPSK	3	0	19.63	19.68	19.78			
1.4	QPSK	1	0	19.79	19.79	19.61			
1.4	QPSK	3	0	19.63	19.70	19.60			18
1.4	QPSK	3	1	19.65	19.73	19.68			
1.4	QPSK	3	1	19.52	19.68	19.52			
1.4	QPSK	6	0	19.72	19.70	19.61			18

Band 5 Ant 1										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power High Ch./Fires	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.22	21.31	21.28				
10	QPSK	1	25	21.18	21.28	21.23			22	
10	QPSK	1	49	21.08	21.15	21.12				
10	QPSK	25	0	20.29	20.34	20.23				
10	QPSK	25	12	20.21	20.21	20.18			21	
10	QPSK	25	25	20.15	20.22	20.17				
10	QPSK	50	0	20.15	20.28	20.15				
10	QPSK	50	12	20.07	20.17	20.09			21	
10	QPSK	1	25	20.01	20.16	20.13				
10	QPSK	1	49	20.03	20.09	20.03			21	
10	QPSK	25	0	19.93	19.97	19.93				
10	QPSK	25	12	19.86	19.93	19.82			2	
10	QPSK	25	25	19.78	19.90	19.83				
10	QPSK	50	0	19.70	19.82	19.70				
10	QPSK	1	0	19.29	19.31	19.24				
10	QPSK	1	25	19.16	19.28	19.21			20	
10	QPSK	1	49	19.07	19.15	19.10				
10	QPSK	25	0	18.97	18.44	18.36				
10	QPSK	25	12	18.26	18.39	18.31			19	
10	QPSK	25	49	18.13	18.37	18.25				
10	QPSK	50	0	18.36	18.40	18.30				
10	QPSK	1	0	18.37	18.47	18.33				
10	QPSK	25	0	18.31	18.37	18.25			17	
10	QPSK	25	12	18.25	18.32	18.27				
10	QPSK	1	49	18.24	18.36	18.27				
10	QPSK	25	0	18.16	18.42	18.33			17	
10	QPSK	25	49	18.09	18.35	18.20				
10	QPSK	50	0	18.02	18.22	18.16			17	
10	QPSK	25	25	18.15	18.30	18.21				
10	QPSK	50	0	18.15	18.30	18.21				
Channel										
Frequency (MHz)				20615	20616	20617	Turn-up time (sec)	MFR (dB)		
5	QPSK	1	0	21.11	21.24	21.22			22	0
5	QPSK	1	25	21.07	21.18	21.12				
5	QPSK	1	24	20.99	21.04	21.08				
5	QPSK	12	0	20.20	20.31	20.26				
5	QPSK	12	0	20.19	20.29	20.20			21	1
5	QPSK	12	13	20.09	20.15	20.09				
5	QPSK	25	0	20.03	20.21	20.09				
5	QPSK	25	0	20.03	20.13	20.06				
5	QPSK	12	13	19.88	20.04	19.96			21	1
5	QPSK	12	0	19.87	19.92	19.86				
5	QPSK	12	0	19.81	19.95	19.88				
5	QPSK	12	7	19.22	19.29	19.19			20	2
5	QPSK	12	0	19.20	19.32	19.21				
5	QPSK	0	0	19.11	19.23	19.13				
5	QPSK	1	0	19.21	19.23	19.21				
5	QPSK	12	0	19.10	19.22	19.10			20	2
5	QPSK	1	24	19.00	19.16	18.94				
5	QPSK	12	0	18.93	19.34	18.98				
5	QPSK	12	0	18.93	19.29	18.93				
5	QPSK	12	13	18.20	18.22	18.20			19	3
5	QPSK	25	0	18.29	18.35	18.18				
5	QPSK	25	0	18.29	18.35	18.18				
5	QPSK	12	0	18.25	18.32	18.16				
5	256QAM	1	12	18.20	18.27	18.23			17	5
5	256QAM	1	24	18.20	18.29	18.20				
5	256QAM	12	0	18.22	18.33	18.22				
5	256QAM	12	7	18.25	18.24	18.24			17	5
5	256QAM	12	13	18.09	18.19	18.12				
5	256QAM	1	0	18.09	18.19	18.12				
Channel										
Frequency (MHz)				20615	20616	20617	Turn-up time (sec)	MFR (dB)		
3	QPSK	1	0	21.11	21.21	21.17			22	0
3	QPSK	1	8	21.11	21.21	21.17				
3	QPSK	1	14	20.95	21.00	21.03				
3	QPSK	1	14	20.93	21.00	21.03				
3	QPSK	8	4	20.13	20.25	20.18			21	1
3	QPSK	8	7	20.08	20.15	20.11				
3	QPSK	1	0	20.13	20.13	20.10				
3	QPSK	1	0	20.00	20.17	19.96			21	1
3	QPSK	1	8	19.90	20.09	20.10				
3	QPSK	1	8	19.92	20.09	20.08				
3	QPSK	8	4	19.26	19.23	19.19			20	2
3	QPSK	8	7	19.12	19.18	19.15				
3	QPSK	1	0	19.18	19.29	19.11				
3	QPSK	1	0	19.02	19.17	19.10			20	2
3	QPSK	1	14	19.00	19.18	18.97				
3	QPSK	1	0	18.92	19.36	18.99				
3	QPSK	15	0	18.13	18.50	18.14				
3	QPSK	15	0	18.14	18.30	18.29				
3	QPSK	8	7	18.12	18.22	18.14			19	3
3	QPSK	1	0	18.03	18.10	18.03				
3	256QAM	1	0	18.23	18.35	18.21				
3	256QAM	1	8	18.18	18.34	18.27			17	5
3	256QAM	8	0	18.23	18.35	18.27				
3	256QAM	8	4	18.19	18.27	18.18			17	5
3	256QAM	8	0	18.03	18.50	18.10				
3	256QAM	15	0	18.20	18.31	18.14				
Channel										
Frequency (MHz)				20617	20618	20619	Turn-up time (sec)	MFR (dB)		
1.4	QPSK	1	0	21.14	21.17	21.23			22	0
1.4	QPSK	1	3	21.11	21.18	21.16				
1.4	QPSK	1	6	21.00	21.12	20.98				
1.4	QPSK	1	6	21.09	21.11	21.08				
1.4	QPSK	3	1	21.08	21.01	20.96				
1.4	QPSK	3	1	21.00	21.00	20.97				
1.4	QPSK	6	0	20.24	20.28	20.18			21	1
1.4	QPSK	1	0	20.09	20.28	20.09				
1.4	QPSK	1	6	20.06	20.09	20.07				
1.4	QPSK	1	6	20.05	20.22	20.05			21	1
1.4	QPSK	3	0	20.02	20.08	19.96				
1.4	QPSK	6	0	19.99	20.09	19.97				
1.4	QPSK	3	0	19.97	20.00	19.93				
1.4	QPSK	1	0	19.20	19.38	19.23			20	2
1.4	QPSK	1	6	19.33	19.32	19.17				
1.4	QPSK	1	6	19.14	19.16	19.15				
1.4	QPSK	1	6	19.18	19.33	19.25			20	2
1.4	QPSK	3	0	19.37	19.25	19.16				
1.4	QPSK	3	0	19.13	19.13	19.06				
1.4	QPSK	3	0	18.98	19.09	18.97			19	3
1.4	QPSK	6	0	18.26	18.38	18.27				
1.4	256QAM	1	0	18.33	18.37	18.27				
1.4	256QAM	3	0	18.23	18.33	18.21				
1.4	256QAM	3	0	18.20	18.21	18.16				
1.4	256QAM	3	0	18.24	18.32	18.21			17	5
1.4	256QAM	3	1	18.27	18.27	18.19				
1.4	256QAM	6	0	18.00	18.27	18.10				
1.4	256QAM	6	0	18.14	18.23	18.16			17	5



Band 13 Ant 1									
BW (MHz)	Modulation	RB Spz	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.31	21.31	21.31	23	0	
10	QPSK	1	25	21.31	21.31	21.31			
10	QPSK	1	49	21.31	21.31	21.31			
10	QPSK	25	0	20.43	20.43	20.43	22	1	
10	QPSK	25	25	20.43	20.43	20.43			
10	QPSK	25	50	20.43	20.43	20.43			
10	QPSK	50	0	20.38	20.38	20.38	22	1	
10	QPSK	50	25	20.38	20.38	20.38			
10	QPSK	50	50	20.38	20.38	20.38			
10	16QAM	1	0	20.27	20.27	20.27	21	2	
10	16QAM	1	25	20.27	20.27	20.27			
10	16QAM	1	49	20.27	20.27	20.27			
10	16QAM	25	0	19.35	19.35	19.35	20	3	
10	16QAM	25	25	19.35	19.35	19.35			
10	16QAM	25	50	19.35	19.35	19.35			
10	16QAM	50	0	18.41	18.41	18.41	18	5	
10	16QAM	50	25	18.41	18.41	18.41			
10	16QAM	50	50	18.41	18.41	18.41			
10	256QAM	1	0	16.33	16.33	16.33	18	5	
10	256QAM	1	25	16.33	16.33	16.33			
10	256QAM	1	49	16.33	16.33	16.33			
10	256QAM	25	0	15.40	15.40	15.40	18	5	
10	256QAM	25	25	15.40	15.40	15.40			
10	256QAM	25	50	15.40	15.40	15.40			
10	256QAM	50	0	14.42	14.42	14.42	23	0	
10	256QAM	50	25	14.42	14.42	14.42			
10	256QAM	50	50	14.42	14.42	14.42			

Band 17 Ant 1									
BW (MHz)	Modulation	RB Spz	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.61	21.61	21.61	23	0	
10	QPSK	1	25	21.61	21.61	21.61			
10	QPSK	1	49	21.61	21.61	21.61			
10	QPSK	25	0	20.68	20.68	20.68	22	1	
10	QPSK	25	25	20.68	20.68	20.68			
10	QPSK	25	50	20.68	20.68	20.68			
10	QPSK	50	0	20.53	20.53	20.53	22	1	
10	QPSK	50	25	20.53	20.53	20.53			
10	QPSK	50	50	20.53	20.53	20.53			
10	16QAM	1	0	20.42	20.42	20.42	21	2	
10	16QAM	1	25	20.42	20.42	20.42			
10	16QAM	1	49	20.42	20.42	20.42			
10	16QAM	25	0	19.50	19.50	19.50	20	3	
10	16QAM	25	25	19.50	19.50	19.50			
10	16QAM	25	50	19.50	19.50	19.50			
10	16QAM	50	0	18.58	18.58	18.58	18	5	
10	16QAM	50	25	18.58	18.58	18.58			
10	16QAM	50	50	18.58	18.58	18.58			
10	256QAM	1	0	16.07	16.07	16.07	18	5	
10	256QAM	1	25	16.07	16.07	16.07			
10	256QAM	1	49	16.07	16.07	16.07			
10	256QAM	25	0	15.15	15.15	15.15	18	5	
10	256QAM	25	25	15.15	15.15	15.15			
10	256QAM	25	50	15.15	15.15	15.15			
10	256QAM	50	0	14.23	14.23	14.23	23	0	
10	256QAM	50	25	14.23	14.23	14.23			
10	256QAM	50	50	14.23	14.23	14.23			

Band 26 Ant 1									
BW (MHz)	Modulation	RB Spz	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.32	21.32	21.32	22	0	
10	QPSK	1	25	21.32	21.32	21.32			
10	QPSK	1	49	21.32	21.32	21.32			
10	QPSK	25	0	20.24	20.24	20.24	21	1	
10	QPSK	25	25	20.24	20.24	20.24			
10	QPSK	25	50	20.24	20.24	20.24			
10	QPSK	50	0	20.19	20.19	20.19	21	1	
10	QPSK	50	25	20.19	20.19	20.19			
10	QPSK	50	50	20.19	20.19	20.19			
10	16QAM	1	0	19.24	19.24	19.24	20	2	
10	16QAM	1	25	19.24	19.24	19.24			
10	16QAM	1	49	19.24	19.24	19.24			
10	16QAM	25	0	18.32	18.32	18.32	19	3	
10	16QAM	25	25	18.32	18.32	18.32			
10	16QAM	25	50	18.32	18.32	18.32			
10	16QAM	50	0	17.40	17.40	17.40	17	5	
10	16QAM	50	25	17.40	17.40	17.40			
10	16QAM	50	50	17.40	17.40	17.40			
10	256QAM	1	0	15.48	15.48	15.48	17	5	
10	256QAM	1	25	15.48	15.48	15.48			
10	256QAM	1	49	15.48	15.48	15.48			
10	256QAM	25	0	14.56	14.56	14.56	17	5	
10	256QAM	25	25	14.56	14.56	14.56			
10	256QAM	25	50	14.56	14.56	14.56			
10	256QAM	50	0	13.64	13.64	13.64	17	5	
10	256QAM	50	25	13.64	13.64	13.64			
10	256QAM	50	50	13.64	13.64	13.64			

Band 66 Ant 1									
BW (MHz)	Modulation	RB Spz	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.72	21.72	21.72	23	0	
10	QPSK	1	25	21.72	21.72	21.72			
10	QPSK	1	49	21.72	21.72	21.72			
10	QPSK	25	0	20.77	20.77	20.77	22	1	
10	QPSK	25	25	20.77	20.77	20.77			
10	QPSK	25	50	20.77	20.77	20.77			
10	QPSK	50	0	20.68	20.68	20.68	22	1	
10	QPSK	50	25	20.68	20.68	20.68			
10	QPSK	50	50	20.68	20.68	20.68			
10	16QAM	1	0	19.64	19.64	19.64	21	2	
10	16QAM	1	25	19.64	19.64	19.64			
10	16QAM	1	49	19.64	19.64	19.64			
10	16QAM	25	0	18.72	18.72	18.72	20	3	
10	16QAM	25	25	18.72	18.72	18.72			
10	16QAM	25	50	18.72	18.72	18.72			
10	16QAM	50	0	17.80	17.80	17.80	18	5	
10	16QAM	50	25	17.80	17.80	17.80			
10	16QAM	50	50	17.80	17.80	17.80			
10	256QAM	1	0	15.88	15.88	15.88	18	5	
10	256QAM	1	25	15.88	15.88	15.88			
10	256QAM	1	49	15.88	15.88	15.88			
10	256QAM	25	0	14.96	14.96	14.96	18	5	
10	256QAM	25	25	14.96	14.96	14.96			
10	256QAM	25	50	14.96	14.96	14.96			
10	256QAM	50	0	14.04	14.04	14.04	23	0	
10	256QAM	50	25	14.04	14.04	14.04			
10	256QAM	50	50	14.04	14.04	14.04			

Channel		26715		26865		27015		In-use freq	MFR MHz
Channel		26715		26865		27015			
5	QPSK	1	0	21.19	21.34	21.05		22	0
5	QPSK	1	12	21.11	21.12	21.05			
5	QPSK	1	24	21.09	21.09	20.98		23	0
5	QPSK	12	24	20.24	20.24	20.38			
5	QPSK	12	7	20.17	20.13	20.09		21	1
5	QPSK	12	19	20.07	20.11	20.04			
5	QPSK	12	25	20.07	20.12	20.05		20	1
5	QPSK	1	0	20.10	20.10	20.08			
5	QPSK	1	12	19.96	20.00	20.05		21	0
5	QPSK	1	19	19.85	19.94	19.91			
5	QPSK	12	0	19.21	19.25	19.13		20	2
5	QPSK	12	7	19.14	19.21	19.18			
5	QPSK	12	19	19.14	19.20	19.13		19	3
5	QPSK	25	0	19.16	19.18	19.07			
5	QPSK	1	0	19.11	19.15	19.06		20	2
5	QPSK	1	19	19.00	19.00	19.92			
5	QPSK	1	24	19.00	19.08	19.92		19	3
5	QPSK	12	0	18.16	18.26	18.11			
5	QPSK	12	19	18.29	18.29	18.13		17	5
5	QPSK	12	13	17.98	18.15	18.03			
5	QPSK	25	0	18.10	18.22	18.18		17	5
5	QPSK	12	19	18.24	18.34	18.26			
5	QPSK	1	24	16.18	16.27	16.17		17	5
5	QPSK	1	19	16.11	16.08	16.07			
5	QPSK	12	12	16.08	16.19	16.08		17	5
5	QPSK	12	7	16.13	16.17	16.09			
5	QPSK	12	13	16.01	16.12	16.02		17	5
5	QPSK	12	19	16.01	16.12	16.02			
Channel		26705		26865		27015		In-use freq	MFR MHz
Channel		26705		26865		27015			
3	QPSK	1	0	21.15	21.32	21.05		22	0
3	QPSK	1	8	21.07	21.20	21.08			
3	QPSK	1	14	21.09	21.15	20.98		23	0
3	QPSK	12	24	20.16	20.24	20.38			
3	QPSK	8	4	20.09	20.12	20.05		21	1
3	QPSK	8	7	20.09	20.10	20.02			
3	QPSK	8	7	20.19	20.20	20.07		20	1
3	QPSK	1	0	20.15	20.18	20.04			
3	QPSK	1	8	20.03	20.06	20.07		21	1
3	QPSK	1	14	20.05	20.07	20.01			
3	QPSK	8	4	19.13	19.38	19.12		19	2
3	QPSK	8	4	19.23	19.24	19.10			
3	QPSK	8	7	19.09	19.12	19.09		19	2
3	QPSK	15	0	19.10	19.25	19.09			
3	QPSK	1	0	19.11	19.14	19.05		20	2
3	QPSK	1	8	19.09	19.03	19.02			
3	QPSK	1	14	19.03	19.07	19.91		19	3
3	QPSK	8	0	18.11	18.31	18.19			
3	QPSK	8	4	18.18	18.23	18.03		17	5
3	QPSK	8	7	18.04	18.17	18.03			
3	QPSK	15	0	18.04	18.29	18.15		17	5
3	QPSK	8	4	18.02	18.22	18.06			
3	QPSK	1	8	16.23	16.21	16.21		17	5
3	QPSK	1	14	16.03	16.23	16.11			
3	QPSK	8	0	16.15	16.22	16.15		17	5
3	QPSK	8	4	16.02	16.22	16.06			
3	QPSK	8	7	16.02	16.12	16.02		17	5
3	QPSK	15	0	16.02	16.12	16.02			

Band 38 Ant 1									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	22.41	22.53	22.49	24	0	
20	QPSK	1	49	22.52	22.58	22.59			
20	QPSK	50	0	21.48	21.53	21.47			
20	QPSK	50	24	21.36	21.45	21.40			
20	QPSK	50	50	21.48	21.53	21.47	23	1	
20	QPSK	100	0	21.37	21.49	21.34			
20	16QAM	1	0	21.32	21.38	21.36			
20	16QAM	1	49	21.28	21.43	21.31			
20	16QAM	1	99	21.39	21.35	21.36	23	1	
20	16QAM	50	0	20.41	20.54	20.38			
20	16QAM	50	24	20.35	20.39	20.33			
20	16QAM	50	50	20.20	20.37	20.26			
20	16QAM	100	0	20.29	20.42	20.42	22	2	
20	16QAM	1	0	20.25	20.41	20.40			
20	16QAM	1	49	20.38	20.31	20.34			
20	16QAM	1	99	20.29	20.33	20.34			
20	16QAM	50	0	19.34	19.49	19.38	21	3	
20	16QAM	50	24	19.41	19.48	19.29			
20	16QAM	50	50	19.25	19.45	19.30			
20	16QAM	100	0	19.34	19.43	19.44			
20	256QAM	1	0	17.42	17.47	17.34	19	5	
20	256QAM	1	99	17.32	17.44	17.31			
20	256QAM	1	99	17.39	17.34	17.31			
20	256QAM	50	24	17.20	17.40	17.27			
20	256QAM	50	50	17.18	17.27	17.12			
20	256QAM	100	0	17.28	17.32	17.17			
Channel									
Frequency (MHz)				37855	38000	38155	Time-up limit (dBm)	MPE (dB)	
15	QPSK	1	0	22.53	22.54	22.41	24	0	
15	QPSK	1	37	22.19	22.23	22.20			
15	QPSK	1	74	22.12	22.20	22.21			
15	QPSK	36	0	21.40	21.42	21.36			
15	QPSK	36	20	21.28	21.35	21.31	23	1	
15	QPSK	36	50	21.29	21.38	21.31			
15	QPSK	75	0	21.23	21.42	21.26			
15	16QAM	1	0	21.27	21.28	21.25			
15	16QAM	1	99	21.23	21.28	21.28	23	1	
15	16QAM	1	74	21.25	21.25	21.24			
15	16QAM	36	0	20.39	20.45	20.38			
15	16QAM	36	20	20.35	20.40	20.30			
15	16QAM	36	50	20.17	20.22	20.16	22	2	
15	16QAM	75	0	20.25	20.28	20.28			
15	16QAM	1	0	20.15	20.35	20.37			
15	16QAM	1	37	20.14	20.25	20.29			
15	16QAM	1	74	20.15	20.29	20.28	22	2	
15	16QAM	1	99	19.24	19.41	19.33			
15	16QAM	36	20	19.38	19.36	19.24			
15	16QAM	36	50	19.25	19.28	19.28			
15	256QAM	1	0	19.27	19.36	19.34	21	3	
15	256QAM	1	0	17.34	17.40	17.31			
15	256QAM	1	99	17.32	17.37	17.32			
15	256QAM	1	74	17.18	17.27	17.14			
15	256QAM	36	0	17.19	17.24	17.21	19	5	
15	256QAM	36	20	17.12	17.33	17.13			
15	256QAM	36	50	17.18	17.12	17.03			
15	256QAM	75	0	17.16	17.30	17.07			
Channel									
Frequency (MHz)				37860	38000	38020	Time-up limit (dBm)	MPE (dB)	
10	QPSK	1	0	22.53	22.54	22.41	24	0	
10	QPSK	1	25	22.23	22.30	22.27			
10	QPSK	1	49	22.19	22.21	22.25			
10	QPSK	25	0	21.34	21.38	21.41			
10	QPSK	25	12	21.28	21.36	21.32	23	1	
10	QPSK	25	25	21.21	21.37	21.27			
10	QPSK	50	0	21.32	21.44	21.27			
10	16QAM	1	0	21.23	21.28	21.30			
10	16QAM	1	25	21.13	21.37	21.27	23	1	
10	16QAM	1	49	21.22	21.28	21.08			
10	16QAM	25	0	20.38	20.50	20.39			
10	16QAM	25	12	20.28	20.38	20.27			
10	16QAM	25	19	20.28	20.38	20.34	22	2	
10	16QAM	50	0	20.33	20.29	20.30			
10	16QAM	50	0	20.14	20.38	20.30			
10	16QAM	1	25	20.18	20.20	20.24			
10	16QAM	1	49	20.15	20.30	20.02	22	2	
10	16QAM	25	0	19.20	19.40	19.27			
10	16QAM	25	12	19.33	19.32	19.25			
10	16QAM	25	19	19.16	19.32	19.22			
10	16QAM	50	0	19.24	19.30	19.38	21	3	
10	256QAM	1	0	17.37	17.41	17.21			
10	256QAM	1	25	17.27	17.32	17.18			
10	256QAM	1	49	17.16	17.27	17.09			
10	256QAM	25	0	17.18	17.23	17.10	19	5	
10	256QAM	25	12	17.13	17.31	17.14			
10	256QAM	25	25	17.10	17.20	17.09			
10	256QAM	50	0	17.18	17.27	17.18			
Channel									
Frequency (MHz)				37775	38000	38020	Time-up limit (dBm)	MPE (dB)	
5	QPSK	1	0	22.26	22.40	22.42	24	0	
5	QPSK	1	12	22.27	22.21	22.34			
5	QPSK	1	24	22.17	22.17	22.21			
5	QPSK	12	0	21.43	21.47	21.44			
5	QPSK	12	7	21.30	21.39	21.30	23	1	
5	QPSK	12	13	21.20	21.36	21.22			
5	QPSK	25	0	21.30	21.44	21.19			
5	16QAM	1	0	21.27	21.30	21.27			
5	16QAM	1	12	21.15	21.31	21.27	23	1	
5	16QAM	1	24	21.23	21.31	21.04			
5	16QAM	12	7	20.28	20.30	20.29			
5	16QAM	12	7	20.28	20.30	20.29			
5	16QAM	12	13	20.11	20.20	20.15	22	2	
5	16QAM	25	0	20.38	20.31	20.29			
5	16QAM	1	0	20.21	20.28	20.27			
5	16QAM	1	12	20.16	20.22	20.23			
5	16QAM	1	24	20.28	20.28	20.07	22	2	
5	16QAM	12	0	19.28	19.35	19.27			
5	16QAM	12	7	19.28	19.35	19.27			
5	16QAM	12	13	19.23	19.35	19.19			
5	256QAM	1	0	17.30	17.33	17.31	19	5	
5	256QAM	1	12	17.23	17.35	17.25			
5	256QAM	1	24	17.05	17.29	17.19			
5	256QAM	12	0	17.13	17.30	17.29			
5	256QAM	12	7	17.13	17.30	17.21	19	5	
5	256QAM	12	13	17.09	17.18	17.06			
5	256QAM	25	0	17.16	17.31	17.06			
5	256QAM	25	0	17.16	17.31	17.06			

Band 41 Ant 1										
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)
Channel										
Frequency (MHz)				38750	40165	40600	41055	41600		
20	QPSK	1	0	22.54	22.52	22.63	22.63	22.48	24	0
20	QPSK	1	49	22.50	22.59	22.64	22.48	22.43		
20	QPSK	1	99	22.52	22.51	22.67	22.43	22.48		
20	QPSK	50	0	21.54	21.57	21.64	21.55	21.44		
20	QPSK	50	24	21.50	21.45	21.59	21.47	21.43	23	1
20	QPSK	50	50	21.38	21.48	21.48	21.45	21.37		
20	QPSK	100	0	21.50	21.45	21.55	21.43	21.39		
20	16QAM	1	0	21.40	21.46	21.53	21.38	21.40		
20	16QAM	1	49	21.42	21.51	21.48	21.33	21.33	23	1
20	16QAM	1	99	21.37	21.30	21.41	21.28	21.22	22	2
20	16QAM	50	0	20.54	20.53	20.62	20.46	20.38		
20	16QAM	50	24	20.48	20.40	20.57	20.39	20.37		
20	16QAM	100	0	20.38	20.39	20.46	20.30	20.40		
20	16QAM	50	50	20.41	20.37	20.50	20.31	20.32	21	2
20	16QAM	1	49	20.39	20.35	20.46	20.29	20.32		
20	16QAM	1	99	20.32	20.30	20.45	20.27	20.21		
20	16QAM	50	0	19.48	19.58	19.63	19.53	19.38		
20	16QAM	50	24	19.43	19.51	19.58	19.39	19.41	20	2
20	16QAM	50	50	19.37	19.40	19.49	19.38	19.28		
20	16QAM	100	0	19.32	19.42	19.46	19.39	19.39		
20	16QAM	1	0	17.54	17.62	17.68	17.49	17.44		
20	256QAM	1	0	17.56	17.54	17.67	17.52	17.38	19	5
20	256QAM	1	49	17.48	17.43	17.54	17.48	17.33		
20	256QAM	1	99	17.42	17.47	17.52	17.42	17.27		
20	256QAM	50	0	17.48	17.47	17.52	17.32	17.42		
20	256QAM	50	24	17.41	17.47	17.57	17.42	17.42	18	5
20	256QAM	50	50	17.46	17.42	17.60	17.38	17.45		
20	256QAM	100	0	17.42	17.42	17.52	17.32	17.41		
Channel				38728	40173	40600	41068	41616		
Frequency (MHz)				38728	40173	40600	41068	41616		
15	QPSK	1	0	22.47	22.45	22.53	22.53	22.48	24	0
15	QPSK	1	39	22.45	22.54	22.54	22.41	22.31		
15	QPSK	1	74	22.45	22.53	22.56	22.39	22.22		
15	QPSK	50	0	21.48	21.53	21.49	21.43	21.38		
15	QPSK	50	24	21.45	21.38	21.53	21.41	21.30	23	1
15	QPSK	50	50	21.35	21.39	21.48	21.34	21.27		
15	QPSK	100	0	21.42	21.32	21.45	21.37	21.34		
15	16QAM	1	0	21.38	21.39	21.45	21.28	21.27		
15	16QAM	1	39	21.37	21.19	21.21	21.23	21.23	22	1
15	16QAM	1	74	21.23	21.20	21.29	21.20	21.14		
15	16QAM	50	0	20.48	20.40	20.59	20.42	20.24		
15	16QAM	50	24	20.39	20.29	20.50	20.41	20.28		
15	16QAM	50	39	20.31	20.32	20.41	20.21	20.26	21	2
15	16QAM	50	50	20.25	20.45	20.45	20.25	20.25		
15	16QAM	100	0	20.33	20.37	20.45	20.30	20.29		
15	16QAM	1	39	20.33	20.24	20.35	20.20	20.21		
15	16QAM	1	74	20.25	20.25	20.35	20.20	20.12	20	2
15	16QAM	50	0	19.42	19.44	19.57	19.39	19.31		
15	16QAM	50	24	19.37	19.44	19.51	19.31	19.36		
15	16QAM	50	39	19.33	19.33	19.43	19.31	19.36		
15	16QAM	75	0	19.43	19.33	19.43	19.35	19.32	19	5
15	16QAM	100	0	19.43	19.33	19.43	19.35	19.32		
15	256QAM	1	39	17.45	17.46	17.56	17.39	17.34		
15	256QAM	1	74	17.36	17.39	17.48	17.38	17.22		
15	256QAM	50	0	17.36	17.36	17.45	17.43	17.58	18	5
15	256QAM	50	24	17.31	17.36	17.53	17.33	17.32		
15	256QAM	50	39	17.31	17.37	17.44	17.34	17.25		
15	256QAM	100	0	17.28	17.28	17.37	17.28	17.35		
Channel				38728	40170	40600	41065	41600	Time-up limit (dBm)	MPE (dB)
Frequency (MHz)				38728	40170	40600	41065	41600		
5	QPSK	1	0	22.48	22.46	22.56	22.41	22.41	24	0
5	QPSK	1	24	22.42	22.44	22.51	22.32	22.25		
5	QPSK	1	49	22.47	22.49	22.58	22.32	22.29		
5	QPSK	25	0	21.45	21.43	21.59	21.44	21.37		
5	QPSK	25	12	21.41	21.36	21.46	21.37	21.35	23	1
5	QPSK	25	24	21.38	21.22	21.38	21.33	21.18		
5	QPSK	50	0	21.44	21.39	21.46	21.29	21.25		
5	16QAM	1	0	21.38	21.42	21.39	21.25	21.33		
5	16QAM	1	49	21.33	21.16	21.34	21.21	21.18	23	1
5	16QAM	25	0	20.45	20.41	20.46	20.34	20.26		
5	16QAM	25	12	20.38	20.33	20.38	20.32	20.22		
5	16QAM	25	24	20.35	20.24	20.35	20.26	20.19		
5	16QAM	50	0	20.38	20.47	20.47	20.28	20.23	22	2
5	16QAM	1	0	20.35	20.27	20.38	20.20	20.23		
5	16QAM	1	25	20.29	20.21	20.41	20.17	20.27		
5	16QAM	1	49	20.18	20.24	20.24	20.17	20.14		
5	16QAM	25	0	19.35	19.51	19.55	19.43	19.35	21	3
5	16QAM	25	12	19.34	19.45	19.45	19.24	19.29		
5	16QAM	25	24	19.35	19.28	19.28	19.27	19.14		
5	16QAM	50	0	19.48	19.37	19.42	19.28	19.29		
5	16QAM	50	12	17.48	17.52	17.62	17.48	17.50	19	5
5	16QAM	1	20	17.42	17.43	17.55	17.49	17.24		
5	256QAM	1	49	17.31	17.30	17.47	17.34	17.29		
5	256QAM	1	74	17.28	17.40	17.47	17.46	17.24		
5	256QAM	25	12	17.36	17.36	17.54	17.41	17.31	18	5
5	256QAM	25	24	17.32	17.32	17.36	17.24	17.27		
5	256QAM	50	0	17.40	17.40	17.51	17.39	17.41		
Channel				38678	40162	40600	41060	41600		
Frequency (MHz)				38678	40162	40600	41060	41600		
5	QPSK	1	0	22.48	22.46	22.56	22.41	22.41	24	0
5	QPSK	1	14	22.42	22.55	22.54	22.35	22.29		
5	QPSK	1	24	22.41	22.49	22.58	22.35	22.29		
5	QPSK	12	0	21.40	21.48	21.59	21.44	21.31		
5	QPSK	12	7	21.45	21.39	21.50	21.43	21.31	23	1
5	QPSK	12	14	21.41	21.35	21.47	21.37	21.21		
5	QPSK	25	0	21.43	21.41	21.52	21.38	21.24		
5	QPSK	25	1	21.27	21.33	21.38	21.39	21.21		
5	16QAM	1	0	21.33	21.35	21.42	21.29	21.22	23	1
5	16QAM	1	24	21.25	21.17	21.29	21.18	21.13		
5	16QAM	12	0	20.45	20.45	20.46	20.35	20.21		
5	16QAM	12	9	20.34	20.33	20.44	20.30	20.28		
5	16QAM	12	13	20.33	20.26	20.39	20.27	20.26	22	2
5	16QAM	12	25	20.48	20.47	20.37	20.33	20.28		
5	16QAM	1	0	20.34	20.35	20.44	20.21	20.27		
5	16QAM	1	12	20.34	20.26	20.37	20.25	20.24		
5	16QAM	1	24	20.25	20.31	20.37	20.11	20.17	21	5
5	16QAM	12	0	19.41	19.45	19.54	19.43	19.34		
5	16QAM	12	9	19.29	19.45	19.49	19.24	19.34		
5	16QAM	12	13	19.30	19.36	19.38	19.24	19.19		
5	16QAM	12	25	19.42	19.38	19.46	19.31	19.34	20	7
5	256QAM	1	0	17.29	17.32	17.42	17.42	17.40		
5	256QAM	1	12	17.45	17.46	17.54	17.47	17.35		
5	256QAM	1	24	17.28	17.28	17.43	17.37	17.28		
5	256QAM	12	7	17.50	17.49	17.57	17.46	17.39	19	5
5	256QAM	12	7	17.35	17.43	17.50	17.33	17.34		
5	256QAM	12	13	17.32	17.33	17.36	17.26	17.27		
5	256QAM	12	25	17.25	17.31	17.37	17.28	17.21		



Band 42 Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
42160 42160 42160												
20	QPSK	1	0	23.66	23.71	23.50	24	0				
20	QPSK	1	49	23.62	23.66	23.67						
20	QPSK	1	99	23.62	23.69	23.49						
20	QPSK	50	0	22.57	22.55	22.53						
20	QPSK	50	24	22.56	22.60	22.56	23	1				
20	QPSK	50	50	22.53	22.53	22.53						
20	16QAM	1	0	22.38	22.62	22.42						
20	16QAM	1	49	22.37	22.67	22.49						
20	16QAM	1	99	22.35	22.40	22.30	23	1				
20	16QAM	50	24	21.52	21.66	21.56						
20	16QAM	50	50	21.53	21.61	21.48						
20	16QAM	50	50	21.44	21.54	21.40						
20	16QAM	100	0	21.40	21.58	21.47	22	2				
20	16QAM	100	0	21.40	21.58	21.47						
20	64QAM	1	0	21.45	21.53	21.45						
20	64QAM	1	49	21.38	21.48	21.44						
20	64QAM	1	99	21.36	21.41	21.37	22	2				
20	64QAM	50	0	20.58	20.60	20.53						
20	64QAM	50	24	20.50	20.55	20.50						
20	64QAM	50	50	20.40	20.48	20.34						
20	256QAM	1	0	18.46	18.51	18.42	19	5				
20	256QAM	1	49	18.35	18.46	18.36						
20	256QAM	1	99	18.28	18.39	18.30						
20	256QAM	50	24	18.40	18.46	18.34						
20	256QAM	50	50	18.27	18.34	18.21	19	5				
20	256QAM	50	50	18.17	18.30	18.22						
20	256QAM	100	0	18.17	18.30	18.22						
20	256QAM	100	0	18.17	18.30	18.22						
Channel												
Frequency (MHz)												
42165 42160 42165												
15	QPSK	1	0	23.63	23.67	23.43	24	0				
15	QPSK	1	37	23.64	23.60	23.63						
15	QPSK	1	74	23.49	23.46	23.36						
15	QPSK	36	0	22.45	22.50	22.44						
15	QPSK	36	20	22.51	22.47	22.50	23	1				
15	QPSK	36	36	22.40	22.53	22.36						
15	QPSK	75	0	22.31	22.54	22.37						
15	16QAM	1	0	22.35	22.38	22.29						
15	16QAM	1	37	22.31	22.37	22.30	23	1				
15	16QAM	1	74	22.32	22.32	22.24						
15	16QAM	36	0	21.47	21.54	21.51						
15	16QAM	36	21	21.55	21.55	21.45						
15	16QAM	36	36	21.38	21.45	21.34	22	2				
15	16QAM	75	0	21.29	21.44	21.41						
15	64QAM	1	0	21.40	21.40	21.36						
15	64QAM	1	37	21.27	21.36	21.30						
15	64QAM	1	74	21.25	21.37	21.27	21	3				
15	64QAM	36	0	20.43	20.55	20.40						
15	64QAM	36	20	20.43	20.41	20.38						
15	64QAM	75	0	20.34	20.45	20.35						
15	256QAM	1	0	18.40	18.46	18.28	19	5				
15	256QAM	1	37	18.35	18.41	18.27						
15	256QAM	1	74	18.32	18.35	18.25						
15	256QAM	36	0	18.31	18.43	18.30						
15	256QAM	36	20	18.17	18.29	18.13	19	5				
15	256QAM	36	36	18.16	18.25	18.14						
15	256QAM	75	0	18.32	18.32	18.21						
15	256QAM	75	0	18.32	18.32	18.21						
Channel												
Frequency (MHz)												
42165 42160 42165												
10	QPSK	1	0	23.59	23.63	23.44	24	0				
10	QPSK	1	25	23.48	23.51	23.52						
10	QPSK	1	49	23.43	23.49	23.34						
10	QPSK	25	0	22.50	22.50	22.44						
10	QPSK	25	12	22.50	22.53	22.52	23	1				
10	QPSK	25	25	22.36	22.45	22.28						
10	QPSK	50	0	22.37	22.53	22.47						
10	16QAM	1	0	22.27	22.38	22.29						
10	16QAM	1	25	22.22	22.39	22.32	23	1				
10	16QAM	1	49	22.24	22.34	22.27						
10	16QAM	25	0	21.37	21.61	21.48						
10	16QAM	25	12	21.42	21.50	21.42						
10	16QAM	25	25	21.35	21.42	21.45	22	2				
10	16QAM	50	0	21.34	21.51	21.34						
10	64QAM	1	0	21.33	21.47	21.36						
10	64QAM	1	25	21.24	21.37	21.29						
10	64QAM	1	49	21.30	21.27	21.33	22	2				
10	64QAM	25	0	20.42	20.48	20.43						
10	64QAM	25	12	20.42	20.41	20.42						
10	64QAM	25	25	20.30	20.34	20.26						
10	256QAM	1	0	18.40	18.43	18.39	19	5				
10	256QAM	1	25	18.25	18.35	18.26						
10	256QAM	1	49	18.15	18.33	18.24						
10	256QAM	25	0	18.32	18.39	18.24						
10	256QAM	25	12	18.16	18.24	18.10	19	5				
10	256QAM	25	25	18.16	18.25	18.15						
10	256QAM	50	0	18.34	18.35	18.31						
10	256QAM	50	0	18.34	18.35	18.31						
Channel												
Frequency (MHz)												
3455 3455 3455												
5	QPSK	1	0	23.56	23.65	23.44	24	0				
5	QPSK	1	12	23.47	23.50	23.54						
5	QPSK	1	24	23.46	23.55	23.39						
5	QPSK	12	0	22.45	22.59	22.44						
5	QPSK	12	7	22.42	22.54	22.45	23	1				
5	QPSK	12	13	22.35	22.48	22.34						
5	QPSK	25	0	22.34	22.45	22.37						
5	16QAM	1	0	22.30	22.46	22.31						
5	16QAM	1	12	22.28	22.35	22.28	23	1				
5	16QAM	1	24	22.26	22.27	22.23						
5	16QAM	12	0	21.48	21.63	21.50						
5	16QAM	12	7	21.45	21.48	21.41						
5	16QAM	12	13	21.35	21.41	21.36	22	2				
5	16QAM	25	0	21.39	21.47	21.36						
5	64QAM	1	0	21.39	21.48	21.43						
5	64QAM	1	12	21.35	21.41	21.40						
5	64QAM	1	24	21.27	21.29	21.27	22	2				
5	64QAM	12	0	20.45	20.47	20.47						
5	64QAM	12	7	20.47	20.42	20.37						
5	64QAM	12	13	20.25	20.34	20.26						
5	256QAM	1	0	18.35	18.43	18.29	21	3				
5	256QAM	1	12	18.30	18.32	18.27						
5	256QAM	1	24	18.18	18.29	18.20						
5	256QAM	12	0	18.28	18.32	18.24						
5	256QAM	12	7	18.12	18.36	18.07	19	5				
5	256QAM	12	13	18.17	18.30	18.12						
5	256QAM	25	0	18.23	18.30	18.19						
5	256QAM	25	0	18.23	18.30	18.19						

Band 42 Part 96 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up test (dBm)	MPR (dB)	
Channel				43100	43350	43600			
Frequency (MHz)				3690	3715	3690			
20	QPSK	1	0	23.62	23.62	23.62			
20	QPSK	1	49	23.56	23.55	23.43	24	0	
20	QPSK	1	99	23.38	23.32	23.37			
20	QPSK	1	149	22.90	22.80	22.48			
20	QPSK	50	24	22.44	22.43	22.45			
20	QPSK	50	50	22.26	22.22	22.31	23	1	
20	QPSK	50	75	22.10	22.04	22.06			
20	QPSK	50	100	21.84	21.78	21.79			
20	16QAM	1	0	22.35	22.37	22.37			
20	16QAM	1	49	22.23	22.22	22.28			
20	16QAM	1	99	22.26	22.24	22.15			
20	16QAM	50	50	21.40	21.64	21.43			
20	16QAM	50	75	21.24	21.28	21.28			
20	16QAM	50	100	21.06	21.51	21.47	22	2	
20	16QAM	100	0	21.20	21.60	21.52			
20	64QAM	1	0	21.20	21.51	21.38			
20	64QAM	1	49	21.25	21.44	21.29	22	2	
20	64QAM	1	99	21.26	21.28	21.27			
20	64QAM	50	24	20.49	20.58	20.51			
20	64QAM	50	24	20.40	20.40	20.43	21	3	
20	64QAM	50	50	20.26	20.35	20.19			
20	64QAM	100	0	20.29	20.41	20.27			
20	256QAM	1	0	18.33	18.38	18.30	19	5	
20	256QAM	1	49	18.37	18.37	18.30			
20	256QAM	1	99	18.22	18.24	18.20			
20	256QAM	50	0	18.37	18.36	18.27			
20	256QAM	50	24	18.15	18.24	18.03	19	5	
20	256QAM	50	50	18.17	18.21	18.03			
20	256QAM	100	0	18.23	18.23	18.23			
Channel				43105	43350	43610			
Frequency (MHz)				3720	3745	3720			
10	QPSK	1	0	23.62	23.62	23.62			
10	QPSK	1	37	23.45	23.32	23.42	24	0	
10	QPSK	1	74	23.36	23.41	23.31			
10	QPSK	1	111	23.28	23.29	23.30			
10	QPSK	36	20	22.32	22.28	22.35	23	1	
10	QPSK	36	56	22.22	22.22	22.27			
10	QPSK	75	0	22.31	22.29	22.37			
10	16QAM	1	0	22.31	22.29	22.29			
10	16QAM	1	37	22.06	22.07	22.13	23	1	
10	16QAM	1	74	22.23	22.26	22.11			
10	16QAM	36	5	21.31	21.60	21.44			
10	16QAM	36	41	21.37	21.44	21.38	22	2	
10	16QAM	36	79	21.21	21.42	21.21			
10	16QAM	75	0	21.22	21.42	21.22			
10	64QAM	1	0	21.35	21.46	21.35			
10	64QAM	1	37	21.09	21.39	21.25			
10	64QAM	1	74	21.21	21.31	21.21			
10	64QAM	36	5	20.45	20.44	20.35			
10	64QAM	36	20	20.31	20.46	20.31	21	3	
10	64QAM	36	56	20.33	20.32	20.05			
10	64QAM	79	0	20.16	20.32	20.25			
10	256QAM	1	0	18.30	18.36	18.24			
10	256QAM	1	37	18.25	18.25	18.25			
10	256QAM	1	74	18.12	18.18	18.18	19	5	
10	256QAM	36	5	18.20	18.32	18.15			
10	256QAM	36	20	18.11	18.16	18.16			
10	256QAM	36	50	18.12	18.17	18.09	19	5	
10	256QAM	79	0	18.27	18.27	18.21			
Channel				43140	43340	43560			
Frequency (MHz)				3742	3764	3742			
10	QPSK	1	0	23.42	23.51	23.42			
10	QPSK	1	25	23.42	23.49	23.49	24	0	
10	QPSK	1	49	23.26	23.30	23.27			
10	QPSK	1	74	23.23	23.41	23.41			
10	QPSK	36	12	22.30	22.33	22.38	23	1	
10	QPSK	36	48	22.24	22.24	22.23			
10	QPSK	50	5	22.24	22.25	22.25			
10	16QAM	1	0	22.32	22.34	22.22			
10	16QAM	1	49	22.14	22.27	22.05	23	1	
10	16QAM	29	0	21.31	21.33	21.34			
10	16QAM	29	21	21.31	21.39	21.39			
10	16QAM	29	25	21.21	21.39	21.31	22	2	
10	64QAM	1	0	21.23	21.27	21.28			
10	64QAM	1	0	21.34	21.46	21.37			
10	64QAM	1	25	21.16	21.35	21.28	22	2	
10	64QAM	1	21	21.23	21.35	21.18			
10	64QAM	29	5	20.37	20.46	20.43			
10	64QAM	29	12	20.38	20.42	20.35			
10	64QAM	29	24	20.35	20.45	20.20	21	3	
10	64QAM	50	0	20.27	20.40	20.19			
10	256QAM	1	0	18.16	18.16	18.16			
10	256QAM	1	25	18.18	18.18	18.18			
10	256QAM	1	40	18.17	18.15	18.10	19	5	
10	256QAM	36	12	18.22	18.22	18.24			
10	256QAM	29	12	18.02	18.26	18.01	19	5	
10	256QAM	29	25	18.01	18.04	18.00			
10	256QAM	50	0	18.28	18.22	18.28			
Channel				43115	43340	43560			
Frequency (MHz)				3764	3784	3764			
5	QPSK	1	0	23.63	23.63	23.63			
5	QPSK	1	12	23.47	23.46	23.26	24	0	
5	QPSK	1	24	23.31	23.31	23.23			
5	QPSK	12	0	22.33	22.54	22.45			
5	QPSK	12	7	22.35	22.33	22.41			
5	QPSK	14	0	22.25	22.25	22.25	23	1	
5	QPSK	26	0	22.12	22.44	22.35			
5	16QAM	1	0	22.21	22.20	22.20			
5	16QAM	1	21	21.18	22.23	21.24	23	1	
5	16QAM	1	24	21.19	22.23	22.11			
5	16QAM	1	49	21.23	21.38	21.38			
5	16QAM	12	7	21.35	21.43	21.32	22	2	
5	16QAM	12	13	21.23	21.41	21.31			
5	16QAM	26	1	21.16	21.35	21.12			
5	64QAM	1	0	21.29	21.43	21.33			
5	64QAM	1	12	21.17	21.37	21.23	22	2	
5	64QAM	1	13	20.19	20.37	20.06			
5	64QAM	26	0	20.27	20.28	20.26			
5	256QAM	1	0	18.26	18.26	18.13			
5	256QAM	1	12	18.22	18.22	18.23	19	5	
5	256QAM	1	24	18.18	18.18	18.18			
5	256QAM	12	12	18.28	18.28	18.18			
5	256QAM	12	7	18.12	18.20	18.01	19	5	
5	256QAM	12	13	18.02	18.06	17.89			
5	256QAM	26	0	18.24	18.24	18.13			

Band 48 Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tuneup band (dBm)	MPR (dB)			
Channel				56360	56350	56190	56640					
Frequency (MHz)				56360	56350	56190	56640					
20	QPSK	1	0	23.72	23.58	23.76	23.66	24	0			
20	QPSK	1	49	23.58	23.76	23.61	23.54					
20	QPSK	8	0	23.56	23.66	23.69	23.59					
20	QPSK	50	0	23.64	23.74	23.57	23.53					
20	QPSK	50	24	23.48	23.66	23.49	23.50	24	0			
20	QPSK	50	50	23.40	23.48	23.45	23.37					
20	QPSK	100	0	23.52	23.68	23.59	23.48					
20	16QAM	1	0	23.67	23.64	23.75	23.52					
20	16QAM	1	49	23.66	23.74	23.68	23.52	24	0			
20	16QAM	1	99	23.64	23.66	23.64	23.49					
20	16QAM	25	0	22.62	22.76	22.66	22.71					
20	16QAM	50	24	22.59	22.70	22.65	22.63					
20	16QAM	50	50	22.56	22.63	22.58	22.48	23	1			
20	16QAM	100	0	22.65	22.69	22.62	22.57					
20	64QAM	1	0	22.52	22.51	22.57	22.54					
20	64QAM	1	49	22.46	22.56	22.50	22.49					
20	64QAM	1	99	22.37	22.48	22.43	22.36	23	1			
20	64QAM	25	0	21.60	21.74	21.68	21.59					
20	64QAM	50	24	21.57	21.69	21.55	21.59					
20	64QAM	50	50	21.67	21.62	21.52	21.57					
20	64QAM	100	0	21.64	21.70	21.60	21.60	20	4			
20	256QAM	1	0	19.54	19.64	19.53	19.58					
20	256QAM	1	49	19.55	19.59	19.45	19.52					
20	256QAM	1	99	19.46	19.62	19.48	19.40					
20	256QAM	25	0	19.54	19.58	19.44	19.52					
20	256QAM	50	24	19.39	19.53	19.39	19.41	20	4			
20	256QAM	50	50	19.43	19.48	19.38	19.40					
20	256QAM	100	0	19.43	19.52	19.40	19.47					
Channel				56315	56300	56160	56660					
Frequency (MHz)				56315	56300	56160	56660					
15	QPSK	1	0	23.18	23.13	23.62	23.62	24	0			
15	QPSK	1	37	23.49	23.62	23.61	23.42					
15	QPSK	1	74	23.52	23.61	23.60	23.61					
15	QPSK	36	0	23.64	23.69	23.49	23.42					
15	QPSK	36	20	23.33	23.62	23.38	23.37	24	0			
15	QPSK	36	36	23.38	23.44	23.40	23.34					
15	QPSK	75	0	23.44	23.64	23.52	23.38					
15	16QAM	1	0	23.52	23.76	23.50	23.40					
15	16QAM	1	37	23.51	23.60	23.62	23.51	24	0			
15	16QAM	1	74	23.59	23.51	23.50	23.45					
15	16QAM	36	0	22.58	22.69	22.67	22.66					
15	16QAM	36	20	22.42	22.65	22.49	22.48					
15	16QAM	36	36	22.53	22.49	22.50	22.40	23	1			
15	16QAM	75	0	22.51	22.58	22.53	22.48					
15	64QAM	1	0	22.48	22.47	22.44	22.46					
15	64QAM	1	37	22.33	22.52	22.43	22.45					
15	64QAM	1	74	22.23	22.42	22.26	22.31	22	2			
15	64QAM	36	0	21.54	21.64	21.56	21.59					
15	64QAM	36	20	21.44	21.64	21.46	21.49					
15	64QAM	36	36	21.50	21.64	21.52	21.50					
15	64QAM	75	0	21.58	21.63	21.52	21.54	20	4			
15	256QAM	1	0	19.46	19.51	19.40	19.49					
15	256QAM	1	37	19.48	19.53	19.41	19.40					
15	256QAM	1	74	19.41	19.47	19.44	19.29					
15	256QAM	36	0	19.46	19.44	19.34	19.41	20	4			
15	256QAM	36	20	19.30	19.39	19.31	19.33					
15	256QAM	36	36	19.39	19.33	19.23	19.29					
15	256QAM	75	0	19.31	19.48	19.27	19.40					
Channel				56300	56315	56160	56660					
Frequency (MHz)				56300	56315	56160	56660					
10	QPSK	1	0	23.66	23.74	23.67	23.61	24	0			
10	QPSK	1	25	23.49	23.70	23.49	23.47					
10	QPSK	1	49	23.43	23.56	23.48	23.55					
10	QPSK	25	0	23.53	23.61	23.59	23.47					
10	QPSK	25	12	23.40	23.54	23.40	23.42	24	0			
10	QPSK	25	25	23.45	23.37	23.31	23.27					
10	QPSK	50	0	23.40	23.62	23.53	23.44					
10	16QAM	1	0	23.59	23.80	23.69	23.48					
10	16QAM	1	25	23.51	23.64	23.62	23.47	24	0			
10	16QAM	1	49	23.54	23.56	23.60	23.42					
10	16QAM	25	0	22.51	22.62	22.58	22.62					
10	16QAM	25	12	22.54	22.59	22.57	22.59					
10	16QAM	25	25	22.51	22.49	22.54	22.34	23	1			
10	16QAM	50	0	22.50	22.58	22.49	22.45					
10	64QAM	1	0	22.47	22.53	22.52	22.39					
10	64QAM	1	25	22.33	22.42	22.44	22.38					
10	64QAM	1	49	22.29	22.41	22.32	22.29	23	1			
10	64QAM	25	0	21.64	21.66	21.62	21.64					
10	64QAM	25	12	21.52	21.61	21.49	21.45					
10	64QAM	25	25	21.53	21.64	21.45	21.45					
10	64QAM	50	0	21.52	21.61	21.52	21.47	22	2			
10	256QAM	1	0	19.49	19.53	19.45	19.44					
10	256QAM	1	25	19.43	19.54	19.34	19.48					
10	256QAM	1	49	19.38	19.39	19.35	19.28					
10	256QAM	25	0	19.47	19.48	19.33	19.45	20	4			
10	256QAM	25	12	19.30	19.45	19.24	19.34					
10	256QAM	25	25	19.32	19.42	19.31	19.29					
10	256QAM	50	0	19.35	19.39	19.26	19.38					
Channel				56275	56310	56160	56675					
Frequency (MHz)				56275	56310	56160	56675					
5	QPSK	1	0	23.67	23.77	23.66	23.64	24	0			
5	QPSK	1	12	23.43	23.59	23.52	23.45					
5	QPSK	1	24	23.53	23.59	23.55	23.55					
5	QPSK	12	0	23.58	23.71	23.46	23.40					
5	QPSK	12	7	23.44	23.60	23.38	23.36	24	0			
5	QPSK	12	13	23.41	23.35	23.31	23.29					
5	QPSK	25	0	23.44	23.59	23.46	23.43					
5	16QAM	1	0	23.53	23.73	23.69	23.49					
5	16QAM	1	12	23.53	23.66	23.57	23.55	24	0			
5	16QAM	1	24	23.50	23.61	23.49	23.40					
5	16QAM	12	0	22.52	22.71	22.54	22.68					
5	16QAM	12	7	22.52	22.60	22.51	22.66					
5	64QAM	1	12	22.34	22.50	22.42	22.34	23	1			
5	64QAM	1	24	22.24	22.39	22.28	22.24					
5	64QAM	12	0	21.61	21.69	21.61	21.59					
5	64QAM	12	7	21.43	21.56	21.50	21.46					
5	64QAM	25	0	21.56	21.56	21.51	21.47	22	2			
5	256QAM	1	0	19.44	19.52	19.43	19.48					
5	256QAM	1	12	19.48	19.49	19.38	19.42					
5	256QAM	1	24	19.32	19.47	19.42	19.33					
5	256QAM	12	0	19.48	19.54	19.33	19.48	20	4			
5	256QAM	12	7	19.27	19.47	19.35	19.33					
5	256QAM	12	13	19.40	19.38	19.28	19.28					
5	256QAM	25	0	19.37	19.47	19.36	19.40					

GSM1900 Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	29.32	29.41	29.38	30.00	20.32	20.41	20.38	21.00
GSM11 Tx slot	29.35	29.47	29.43	30.00	20.35	20.47	20.43	21.00
GPRS 1 Tx slots	26.38	26.51	26.42	27.00	20.38	20.51	20.42	21.00
GPRS 2 Tx slots	23.74	23.85	23.81	25.50	19.48	19.59	19.55	21.24
GPRS 3 Tx slots	22.18	22.29	22.19	24.00	19.18	19.29	19.19	21.00
GPRS 4 Tx slots	24.14	24.28	24.22	25.50	15.14	15.28	15.22	16.50
EDGE 1 Tx slot	22.45	22.56	22.49	24.00	16.45	16.56	16.49	18.00
EDGE 2 Tx slots	21.38	21.49	21.46	22.50	17.12	17.23	17.20	18.24
EDGE 3 Tx slots	19.33	19.42	19.39	20.50	16.33	16.42	16.39	17.50
EDGE 4 Tx slots								

Band		WCDMA II Ant 2			Tune-up Limit (dBm)	WCDMA IV Ant 2			Tune-up Limit (dBm)
TX Channel		9262	8400	9538		1312	1413	1513	
Rx Channel		9662	8800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.02	23.15	23.05	24.00	23.20	23.28	23.15	24.00
3GPP Rel 99	RMC 12.2Kbps	23.08	23.17	23.11	24.00	23.29	23.34	23.22	24.00
3GPP Rel 6	HSDPA Subtest-1	22.21	22.37	22.05	23.00	22.27	22.49	22.19	23.00
3GPP Rel 6	HSDPA Subtest-2	22.14	22.26	22.10	23.00	22.23	22.40	22.16	23.00
3GPP Rel 6	HSDPA Subtest-3	21.56	21.80	21.68	22.50	21.72	21.93	21.80	22.50
3GPP Rel 6	HSDPA Subtest-4	21.61	21.74	21.71	22.50	21.71	21.90	21.80	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.15	22.32	22.16	23.00	22.24	22.39	22.31	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.92	22.03	21.99	23.00	22.08	22.13	22.05	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.46	21.56	21.55	22.50	21.60	21.62	21.72	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.50	21.58	21.49	22.50	21.60	21.72	21.56	22.50
3GPP Rel 6	HSUPA Subtest-1	22.18	22.35	22.35	23.00	22.28	22.52	22.50	23.00
3GPP Rel 6	HSUPA Subtest-2	20.19	20.24	20.01	21.00	20.30	20.36	20.12	21.00
3GPP Rel 6	HSUPA Subtest-3	21.00	21.23	21.18	22.00	21.37	21.30	21.33	22.00
3GPP Rel 6	HSUPA Subtest-4	20.07	20.15	20.02	21.00	20.12	20.30	20.17	21.00
3GPP Rel 6	HSUPA Subtest-5	22.27	22.18	22.17	23.00	22.38	22.30	22.33	23.00

Band 2 Ant 2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.12	21.24	21.07			22	0				
20	QPSK	1	49	21.08	21.08	21.08								
20	QPSK	1	99	20.92	21.04	20.92								
20	QPSK	50	0	20.80	20.90	20.80			21.5	0.5				
20	QPSK	50	24	20.71	20.85	20.74								
20	QPSK	50	50	20.63	20.78	20.74								
20	QPSK	100	0	20.79	20.83	20.78			21.5	0.5				
20	QPSK	100	0	20.75	20.79	20.75								
20	HQAM	1	49	20.99	20.74	20.64			21.5	0.5				
20	HQAM	1	99	20.80	20.67	20.61								
20	HQAM	50	0	19.82	19.91	19.86			20.5	1.5				
20	HQAM	50	24	19.74	19.86	19.73								
20	HQAM	50	50	19.67	19.79	19.69			20.5	1.5				
20	HQAM	100	0	19.77	19.86	19.81								
20	HQAM	1	0	19.78	19.83	19.71			20.5	1.5				
20	HQAM	1	49	19.64	19.78	19.71								
20	HQAM	50	0	18.72	18.80	18.73			19.5	2.5				
20	HQAM	50	24	18.64	18.75	18.70								
20	HQAM	100	0	18.64	18.71	18.58			17.5	4.5				
20	HQAM	1	49	18.37	18.51	18.42								
20	HQAM	1	99	18.30	18.46	18.32			17.5	4.5				
20	HQAM	50	24	18.64	18.75	18.72								
20	HQAM	50	50	18.66	18.71	18.60			17.5	4.5				
20	HQAM	100	0	18.52	18.74	18.63								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.075	18.000	19.125			22	0				
15	QPSK	1	0	21.01	21.18	20.92								
15	QPSK	1	37	20.92	20.99	20.84			21.5	0.5				
15	QPSK	1	74	20.84	20.98	20.82								
15	QPSK	36	0	20.74	20.84	20.75			21.5	0.5				
15	QPSK	36	0	20.68	20.73	20.70								
15	QPSK	36	36	20.52	20.71	20.62			21.5	0.5				
15	QPSK	75	0	20.67	20.76	20.71								
15	QPSK	75	0	20.61	20.68	20.62			21.5	0.5				
15	HQAM	1	37	20.51	20.68	20.58								
15	HQAM	1	49	20.33	20.53	20.43			20.5	1.5				
15	HQAM	36	0	19.67	19.77	19.76								
15	HQAM	36	20	19.63	19.76	19.62			20.5	1.5				
15	HQAM	36	39	19.52	19.83	19.72								
15	HQAM	75	0	19.62	19.83	19.72			20.5	1.5				
15	HQAM	1	0	19.70	19.73	19.60								
15	HQAM	1	37	19.67	19.74	19.63			19.5	2.5				
15	HQAM	1	74	19.58	19.62	19.53								
15	HQAM	36	0	18.61	18.76	18.67			19.5	2.5				
15	HQAM	36	20	18.62	18.65	18.55								
15	HQAM	36	39	18.50	18.52	18.51			17.5	4.5				
15	HQAM	75	0	18.52	18.67	18.51								
15	HQAM	1	0	18.66	18.66	18.66			17.5	4.5				
15	HQAM	1	37	18.74	18.86	18.70								
15	HQAM	1	74	18.76	18.78	18.69			17.5	4.5				
15	HQAM	36	20	18.63	18.73	18.63								
15	HQAM	36	39	18.58	18.62	18.55			17.5	4.5				
15	HQAM	75	0	18.62	18.74	18.63								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.91	21.16	20.98			22	0				
10	QPSK	1	25	20.97	21.02	20.85								
10	QPSK	1	49	20.79	20.99	20.88			21.5	0.5				
10	QPSK	1	9	20.73	20.82	20.72								
10	QPSK	25	12	20.62	20.70	20.70			21.5	0.5				
10	QPSK	25	25	20.52	20.73	20.69								
10	QPSK	100	0	20.69	20.69	20.69			21.5	0.5				
10	HQAM	1	0	20.69	20.70	20.65								
10	HQAM	1	25	20.49	20.69	20.53			20.5	1.5				
10	HQAM	1	49	20.37	20.53	20.43								
10	HQAM	25	0	19.77	19.79	19.76			20.5	1.5				
10	HQAM	25	12	19.60	19.81	19.64								
10	HQAM	50	0	19.55	19.68	19.61			20.5	1.5				
10	HQAM	50	0	19.68	19.78	19.73								
10	HQAM	1	0	19.72	19.72	19.64			20.5	1.5				
10	HQAM	1	25	19.53	19.73	19.63								
10	HQAM	1	49	19.40	19.63	19.55			19.5	2.5				
10	HQAM	25	0	18.69	18.72	18.67								
10	HQAM	25	12	18.55	18.60	18.49			17.5	4.5				
10	HQAM	50	0	18.53	18.62	18.48								
10	HQAM	1	0	18.67	18.63	18.48			17.5	4.5				
10	HQAM	1	25	18.60	18.79	18.69								
10	HQAM	1	49	18.69	18.74	18.64			17.5	4.5				
10	HQAM	25	12	18.55	18.77	18.65								
10	HQAM	25	25	18.58	18.67	18.48			17.5	4.5				
10	HQAM	50	0	18.62	18.73	18.64								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.08	21.14	20.96			22	0				
5	QPSK	1	8	20.95	20.91	20.88								
5	QPSK	1	14	20.85	20.99	20.84			21.5	0.5				
5	QPSK	8	0	20.73	20.82	20.73								
5	QPSK	8	4	20.59	20.72	20.70			21.5	0.5				
5	QPSK	8	7	20.54	20.69	20.61								
5	QPSK	16	0	20.70	20.69	20.69			21.5	0.5				
5	HQAM	1	0	20.65	20.68	20.69								
5	HQAM	1	8	20.52	20.62	20.55			20.5	1.5				
5	HQAM	1	14	20.50	20.58	20.55								
5	HQAM	8	0	19.70	19.77	19.81			20.5	1.5				
5	HQAM	8	4	19.68	19.81	19.62								
5	HQAM	16	0	19.67	19.73	19.67			20.5	1.5				
5	HQAM	1	0	19.61	19.68	19.69								
5	HQAM	1	14	19.61	19.59	19.56			19.5	2.5				
5	HQAM	8	4	18.68	18.71	18.61								
5	HQAM	8	7	18.51	18.70	18.68			17.5	4.5				
5	HQAM	16	0	18.60	18.63	18.72								
5	HQAM	1	8	18.73	18.84	18.65			17.5	4.5				
5	HQAM	1	14	18.76	18.79	18.68								
5	HQAM	8	0	18.52	18.72	18.63			17.5	4.5				
5	HQAM	8	4	18.53	18.74	18.67								
5	HQAM	8	7	18.67	18.67	18.67			17.5	4.5				
5	HQAM	16	0	18.64	18.71	18.61								
Channel														
Frequency (MHz)														
3	QPSK	1	0	18.015	18.000	19.000			22	0				
3	QPSK	1	0	20.98	21.14	20.98								
3	QPSK	1	8	20.90	20.91	20.86			21.5	0.5				
3	QPSK	1	16	20.85	20.90	20.84								
3	QPSK	8	0	20.73	20.82	20.73			21.5	0.5				
3	QPSK	8	4	20.59	20.72	20.70								
3	QPSK	8	7	20.54	20.69	20.61			21.5	0.5				
3	QPSK	16	0	20.70	20.69	20.69								
3	HQAM	1	0	20.65	20.68	20.69			21.5	0.5				
3	HQAM	1	8	20.52	20.62	20.55								
3	HQAM	1	16	20.50	20.58	20.55			20.5	1.5				
3	HQAM	8	0	19.70	19.77	19.81								
3	HQAM	8	4	19.68	19.81	19.62			20.5	1.5				
3	HQAM	16	0	19.67	19.73	19.67								
3	HQAM	1	0	19.61	19.68	19.69			20.5	1.5				
3	HQAM	1	16	19.61	19.59	19.56								
3	HQAM	8	4	18.68	18.71	18.61			19.5	2.5				
3	HQAM	8	7	18.51	18.70	18.68								
3	HQAM	16	0	18.60	18.63	18.72			17.5	4.5				
3	HQAM	1	8	18.73	18.84	18.65								
3	HQAM	1	16	18.76	18.79	18.68			17.5	4.5				
3	HQAM	8	0	18.52	18.72	18.63								
3	HQAM	8	4	18.53	18.74	18.67			17.5	4.5				
3	HQAM	8	7	18.67	18.67	18.67								
3	HQAM	16	0	18.64	18.71	18.61								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.03	21.16	20.98			22	0				
1.4	QPSK	1	0	20.93	20.93	20.93								
1.4	QPSK	1	5	20.81	20.92	20.86			21.5	0.5				
1.4	QPSK	3	0	20.68	21.01	21.07								
1.4	QPSK	3	3	20.67	20.87	20.88			21.5	0.5				
1.4	QPSK	3	6	20.67	20.87	20.83								
1.4	QPSK	1	5	20.67	20.69	20.73			21.5	0.5				
1.4	QPSK	1	10	20.67	20.68	20.74								
1.4	HQAM	1	5	20.47	20.61	20.60			20.5	1.5				
1.4	HQAM	1	10	20.54	20.57	20.59								
1.4	HQAM	3	0	19.79	19.80	19.74			20.5	1.5				
1.4	HQAM	3	3	19.67	19.76	19.68								
1.4	HQAM	3	6	19.67	19.76	19.68			20.5	1.5				
1.4	HQAM	1	5	19.71	19.72	19.68								
1.4	HQAM	1	10	19.74	19.75	19.68			20.5	1.5				
1.4	HQAM	3	0	19.63	19.66	19.62								
1.4	HQAM	3	3	19.63	19.66	19.62			19.5	2.5				
1.4	HQAM	3	6	19.63	19.66	19.62								

Band 25 Ant 2																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up Ind. (dB)	MPR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	21.43	21.52	21.47	22	0								
20	QPSK	1	48	21.40	21.47	21.44										
20	QPSK	1	96	21.34	21.40	21.29	21.5	0.5								
20	QPSK	50	0	21.04	21.15	21.07										
20	QPSK	50	24	21.01	21.10	21.02										
20	QPSK	50	50	20.94	21.03	20.89										
20	QPSK	100	0	21.05	21.13	21.09	21.5	0.5								
20	IQAM	1	0	20.47	20.57	20.53										
20	IQAM	1	48	20.47	20.52	20.43	20.5	1.5								
20	IQAM	1	96	20.36	20.45	20.32										
20	IQAM	50	0	20.90	20.99	20.85										
20	IQAM	50	24	19.97	20.06	19.93										
20	IQAM	50	50	19.80	19.99	19.89	19.5	2.5								
20	IQAM	100	0	20.00	20.16	20.07										
20	IQAM	1	0	19.48	19.53	19.41	20.5	1.5								
20	IQAM	1	48	19.41	19.48	19.41										
20	IQAM	1	96	19.35	19.41	19.27										
20	IQAM	50	0	18.99	19.11	19.06										
20	IQAM	50	24	18.96	19.06	18.98	19.5	2.5								
20	IQAM	50	50	18.94	19.01	18.94										
20	25QAM	1	0	17.71	17.77	17.66	17.5	4.5								
20	25QAM	1	48	17.54	17.12	17.05										
20	25QAM	1	96	17.00	17.05	16.93										
20	25QAM	50	0	16.90	16.97	16.87										
20	25QAM	50	24	16.89	16.92	16.89	17.5	4.5								
20	25QAM	50	50	16.74	16.85	16.71										
20	25QAM	100	0	16.74	16.85	16.71										
Channel																
Frequency (MHz)																
16	QPSK	1	0	21.31	21.44	21.37			22	0						
16	QPSK	1	37	21.30	21.33	21.38										
16	QPSK	1	74	21.24	21.36	21.18	21.5	0.5								
16	QPSK	36	0	20.95	21.07	21.03										
16	QPSK	36	20	20.94	20.95	20.98										
16	QPSK	36	36	20.89	20.99	20.79										
16	IQAM	75	0	20.97	20.93	21.01	21.5	0.5								
16	IQAM	1	0	20.34	20.43	20.40										
16	IQAM	1	37	20.41	20.48	20.39	20.5	1.5								
16	IQAM	1	74	20.31	20.32	20.32										
16	IQAM	36	0	19.93	19.99	19.98										
16	IQAM	36	20	19.85	19.91	19.84										
16	IQAM	36	36	19.80	19.95	19.86	20.5	1.5								
16	IQAM	75	0	19.97	20.12	19.94										
16	IQAM	1	0	19.33	19.42	19.37										
16	IQAM	1	37	19.25	19.35	19.26										
16	IQAM	1	74	19.24	19.37	19.10	19.5	2.5								
16	IQAM	36	0	18.87	19.05	18.83										
16	IQAM	36	20	18.82	18.92	18.82										
16	IQAM	36	36	18.81	18.95	18.82										
16	IQAM	75	0	18.86	18.94	18.82	17.5	4.5								
16	25QAM	1	0	16.92	17.13	16.92										
16	25QAM	1	37	16.92	17.00	17.00										
16	25QAM	1	74	16.86	16.95	16.87										
16	25QAM	36	0	16.81	16.96	16.84	17.5	4.5								
16	25QAM	36	20	16.77	16.90	16.78										
16	25QAM	36	36	16.64	16.74	16.66										
16	25QAM	75	0	16.71	16.92	16.62										
Channel																
Frequency (MHz)																
10	QPSK	1	0	21.37	21.48	21.43	22	0								
10	QPSK	1	26	21.33	21.40	21.38										
10	QPSK	1	48	21.22	21.26	21.16	21.5	0.5								
10	QPSK	25	0	20.92	21.06	20.96										
10	QPSK	25	12	20.89	21.02	20.93										
10	QPSK	25	25	20.88	20.94	20.75										
10	IQAM	1	0	20.37	20.43	20.41	21.5	0.5								
10	IQAM	1	26	20.34	20.44	20.38										
10	IQAM	1	48	20.26	20.37	20.26	20.5	1.5								
10	IQAM	25	0	19.99	20.00	19.91										
10	IQAM	25	12	19.82	19.98	19.80										
10	IQAM	25	25	19.80	19.92	19.71										
10	IQAM	50	0	19.90	20.00	19.98	19.5	2.5								
10	IQAM	1	0	19.40	19.44	19.38										
10	IQAM	1	26	19.34	19.34	19.30										
10	IQAM	1	48	19.20	19.27	19.16										
10	IQAM	25	0	18.85	19.06	18.99	17.5	4.5								
10	IQAM	25	12	18.82	19.01	18.83										
10	IQAM	25	25	18.84	18.94	18.81										
10	IQAM	50	0	18.87	18.96	18.86										
10	25QAM	1	0	17.08	17.09	17.00	17.5	4.5								
10	25QAM	1	26	16.94	17.04	16.90										
10	25QAM	1	48	16.92	16.98	16.86										
10	25QAM	25	0	16.97	16.99	16.89										
10	25QAM	25	12	16.97	16.98	16.74	17.5	4.5								
10	25QAM	25	25	16.70	16.72	16.58										
10	25QAM	50	0	16.70	16.92	16.62										
10	25QAM	50	0	16.70	16.92	16.62										
Channel																
Frequency (MHz)																
5	QPSK	1	0	21.37	21.48	21.43	22	0								
5	QPSK	1	12	21.27	21.32	21.26										
5	QPSK	1	24	21.22	21.30	21.19	21.5	0.5								
5	QPSK	12	0	20.91	21.12	21.03										
5	QPSK	12	7	20.87	21.03	20.87										
5	QPSK	12	13	20.83	20.95	20.86										
5	IQAM	1	0	20.36	20.40	20.48	21.5	0.5								
5	IQAM	1	0	20.42	20.47	20.47										
5	IQAM	1	12	20.34	20.43	20.29	20.5	1.5								
5	IQAM	1	24	20.25	20.43	20.18										
5	IQAM	12	0	19.94	20.02	19.97										
5	IQAM	12	7	19.93	20.00	19.88										
5	IQAM	12	13	19.85	19.98	19.81	19.5	2.5								
5	IQAM	25	0	20.00	20.01	19.95										
5	IQAM	1	0	19.40	19.44	19.38	17.5	4.5								
5	IQAM	1	12	19.37	19.38	19.34										
5	IQAM	1	24	19.16	19.29	19.19										
5	IQAM	12	0	18.96	19.06	18.92										
5	IQAM	12	7	18.90	18.94	18.89	19.5	2.5								
5	IQAM	12	13	18.83	18.94	18.80										
5	25QAM	1	0	17.02	17.13	17.00										
5	25QAM	1	12	16.97	17.07	16.94										
5	25QAM	1	24	16.89	16.97	16.85	17.5	4.5								
5	25QAM	12	0	16.84	16.84	16.82										
5	25QAM	12	7	16.81	16.81	16.81										
5	25QAM	12	13	16.65	16.74	16.65										
5	25QAM	25	0	16.73	16.84	16.69										
5	25QAM	25	0	16.73	16.84	16.69										
Channel																
Frequency (MHz)																
3	QPSK	1	0	21.39	21.45	21.39	22	0								
3	QPSK	1	12	21.29	21.36	21.29										
3	QPSK	1	14	21.31	21.34	21.18	21.5	0.5								
3	QPSK	8	0	20.91	21.02	20.98										
3	QPSK	8	7	20.87	21.04	20.87										
3	QPSK	8	14	20.81	20.93	20.83										
3	IQAM	16	0	20.88	20.87	20.87	21.5	0.5								
3	IQAM	1	0	20.44	20.43	20.43										
3	IQAM	1	14	20.31	20.40	20.21	20.5	1.5								
3	IQAM	8	0	20.01	20.02	19.97										
3	IQAM	8	7	19.96	19.97	19.72										
3	IQAM	8	14	19.93	19.93	19.81										
3	IQAM	8	0	19.39	19.38	19.29	19.5	2.5								
3	IQAM	1	0	18.94	19.02	19.03										
3	IQAM	8	7	18.86	18.97	19.72										
3	IQAM	8	14	18.82	18.85	18.84										
3	25QAM	1	0	17.05	17.11	17.01	17.5	4.5								
3	25QAM	1	12	16.91	16.97	16.91										
3	25QAM	1	14	16.90	16.92	16.79										
3	25QAM	8	0	16.85	16.89	16.84										
3	25QAM	8	7	16.86	16.78	16.57	17.5	4.5								
3	25QAM	8	14	16.82	16.82	16.82										
3	25QAM	16	0	16.70	16.80	16.70										
3	25QAM	16	0	16.70	16.80	16.70										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	21.36	21.37	21.37	22	0								
1.4	QPSK	1	8	21.28	21.32	21.21										
1.4	QPSK	1	0	21.22	21.28	21.21	21.5	0.5								
1.4	QPSK	1	8	21.26	21.32	21.21										
1.4	QPSK	1	8	21.22	21.27	21.21										
1.4	QPSK	1	8	21.22	21.27	21.21										
1.4	QPSK	1	0	21.02	21.04	20.91	21.5	0.5								
1.4	QPSK	1	8	20.88	20.88	20.82										
1.4	QPSK	1	0	20.90	20.90	20.85	20.5	1.5								
1.4	QPSK	1	8	20.40	20.43	20.39										
1.4	QPSK	1	8	20.40	20.43	20.39										
1.4	QPSK	8	0	19.97	20.03	19.94										
1.4	QPSK	1	0	19.86	19.95	19.94	19.5	2.5								
1.4	QPSK	1	8	19.89	19.91	19.93										
1.4	QPSK	1	8	19.89	19.91	19.93										
1.4	QPSK	8	0	19.77	19.83	19.14										
1.4	QPSK	1	0	18.93	18.97	18.92	17.5	4.5								
1.4	QPSK	1	8	18.93	18.97	18.92										
1.4	QPSK	1	8	18.93	18.94	18.95										
1.4	QPSK	8	0	18.84	18.97	18.81										
1.4	25QAM	1	0	16.76	16.78	16.76	17.5	4.5								
1.4	25QAM	1	8	16.76	16.78	16.76										
1.4	25QAM	1	8	16.76	16.78	16.76										
1.4	25QAM	8	0	16.80	16.85	16.89										

Band 38 Ant 2													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)					
Channel													
Frequency (MHz)				37860	38000	38150							
20	QPSK	1	0	22.49	22.50	22.53	23.7	0					
20	QPSK	1	49	22.35	22.48	22.50							
20	QPSK	1	99	22.37	22.50	22.46							
20	QPSK	50	0	21.27	21.41	21.37							
20	QPSK	50	24	21.27	21.35	21.38	23	0.7					
20	QPSK	50	49	21.28	21.35	21.33							
20	QPSK	100	0	21.22	21.41	21.27							
20	16QAM	1	0	21.29	21.34	21.29							
20	16QAM	1	49	21.24	21.38	21.22	23	0.7					
20	16QAM	1	99	21.09	21.19	21.14							
20	16QAM	50	0	20.41	20.51	20.58							
20	16QAM	50	24	20.34	20.53	20.51							
20	16QAM	50	49	20.36	20.36	20.26	22	1.7					
20	16QAM	100	0	20.26	20.49	20.37							
20	16QAM	100	1	20.25	20.27	20.25							
20	8QAM	1	0	20.21	20.28	20.24							
20	8QAM	1	49	20.21	20.28	20.24	22	1.7					
20	8QAM	1	99	20.02	20.14	20.04							
20	8QAM	50	0	19.47	19.55	19.42							
20	8QAM	50	24	19.43	19.48	19.41							
20	8QAM	50	50	19.31	19.45	19.35	21	2.7					
20	8QAM	100	0	19.34	19.31	19.20							
20	8QAM	100	1	19.34	19.31	19.20							
20	256QAM	1	0	17.41	17.48	17.31							
20	256QAM	1	49	17.39	17.39	17.21	19	4.7					
20	256QAM	1	99	17.39	17.39	17.19							
20	256QAM	50	0	17.31	17.47	17.36							
20	256QAM	50	24	17.36	17.33	17.27							
20	256QAM	50	49	17.25	17.33	17.21	19	4.7					
20	256QAM	50	50	17.26	17.36	17.22							
20	256QAM	100	0	17.21	17.37	17.25							
20	256QAM	100	1	17.25	17.37	17.25							
Channel													
Frequency (MHz)				37825	38000	38175							
15	QPSK	1	0	22.43	22.49	22.44	23.7	0					
15	QPSK	1	37	22.39	22.38	22.43							
15	QPSK	1	74	22.31	22.42	22.43							
15	QPSK	36	0	21.32	21.43	21.26							
15	QPSK	36	20	21.14	21.30	21.24	23	0.7					
15	QPSK	36	36	21.15	21.29	21.26							
15	QPSK	75	0	21.11	21.33	21.21							
15	16QAM	1	0	21.25	21.20	21.12							
15	16QAM	1	37	21.16	21.27	21.26	23	0.7					
15	16QAM	1	74	21.07	21.08	21.08							
15	16QAM	36	0	20.31	20.44	20.43							
15	16QAM	36	20	20.32	20.37	20.38							
15	16QAM	75	0	20.16	20.30	20.13	22	1.7					
15	16QAM	75	0	19.32	19.46	19.32							
15	16QAM	1	37	20.17	20.21	20.11							
15	16QAM	1	74	20.16	20.08	20.10							
15	8QAM	1	0	19.32	19.46	19.32	21	2.7					
15	8QAM	36	20	19.38	19.45	19.38							
15	8QAM	75	0	19.15	19.27	19.11							
15	256QAM	1	0	17.29	17.36	17.18							
15	256QAM	1	37	17.15	17.26	17.18	19	4.7					
15	256QAM	1	74	17.10	17.23	17.15							
15	256QAM	36	0	17.19	17.42	17.12							
15	256QAM	36	20	17.22	17.30	17.14							
15	256QAM	36	39	17.19	17.19	17.17	19	4.7					
15	256QAM	75	0	17.16	17.21	17.13							
Channel													
Frequency (MHz)				37800	38000	38200							
10	QPSK	1	0	22.34	22.52	22.44	23.7	0					
10	QPSK	1	25	22.30	22.32	22.41							
10	QPSK	1	49	22.23	22.45	22.42							
10	QPSK	25	0	21.35	21.43	21.31							
10	QPSK	25	12	21.23	21.23	21.29	23	0.7					
10	QPSK	25	25	21.19	21.19	21.24							
10	QPSK	50	0	21.14	21.36	21.24							
10	QPSK	50	1	21.18	21.26	21.17							
10	16QAM	1	0	21.18	21.27	21.17	23	0.7					
10	16QAM	1	25	21.20	21.22	21.21							
10	16QAM	1	49	21.08	21.10	21.08							
10	16QAM	25	0	20.32	20.39	20.51							
10	16QAM	25	19	20.21	20.34	20.46	22	1.7					
10	16QAM	25	37	20.24	20.24	20.22							
10	16QAM	50	0	20.19	20.38	20.15							
10	16QAM	50	0	19.39	19.51	19.28							
10	8QAM	1	0	20.12	20.19	20.12	22	1.7					
10	8QAM	1	49	20.15	20.00	20.19							
10	8QAM	25	0	19.39	19.31	19.28							
10	8QAM	25	12	19.38	19.35	19.28							
10	8QAM	25	15	19.34	19.35	19.24	21	2.7					
10	8QAM	25	25	19.28	19.22	19.25							
10	8QAM	50	0	19.16	19.27	19.14							
10	256QAM	1	0	17.29	17.34	17.17							
10	256QAM	1	25	17.16	17.24	17.17	19	4.7					
10	256QAM	1	49	17.15	17.26	17.17							
10	256QAM	25	0	17.24	17.36	17.19							
10	256QAM	25	19	17.32	17.39	17.16							
10	256QAM	25	25	17.31	17.23	17.15	19	4.7					
10	256QAM	50	0	17.12	17.19	17.28							
Channel													
Frequency (MHz)				37775	38000	38225							
5	QPSK	1	0	22.29	22.54	22.43	23.7	0					
5	QPSK	1	12	22.31	22.40	22.39							
5	QPSK	1	24	22.31	22.48	22.40							
5	QPSK	12	0	21.22	21.36	21.31							
5	QPSK	12	7	21.19	21.29	21.31	23	0.7					
5	QPSK	12	13	21.15	21.19	21.22							
5	QPSK	25	0	21.14	21.36	21.24							
5	16QAM	1	0	21.15	21.22	21.14							
5	16QAM	1	12	21.14	21.19	21.16	23	0.7					
5	16QAM	1	24	21.13	21.13	21.04							
5	16QAM	12	7	20.30	20.30	20.51							
5	16QAM	12	7	20.21	20.40	20.39							
5	16QAM	12	13	20.51	20.26	20.11	22	1.7					
5	16QAM	25	0	20.13	20.33	20.21							
5	16QAM	25	0	20.16	20.23	20.15							
5	16QAM	25	0	19.32	19.47	19.28							
5	8QAM	1	0	19.32	19.41	19.37	21	2.7					
5	8QAM	12	13	19.32	19.39	19.27							
5	8QAM	12	15	19.28	19.28	19.28	19	4.7					
5	256QAM	1	0	17.17	17.30	17.17							
5	256QAM	1	24	17.07	17.25	17.07							
5	256QAM	12	13	17.06	17.24	17.07							
5	256QAM	12	7	17.31	17.28	17.18	19	4.7					
5	256QAM	12	7	17.15	17.28	17.14							
Channel													
Frequency (MHz)				37750	38000	38250							



Band 42 Ant 2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.89	20.94	20.91	22	0				
20	QPSK	1	49	20.86	20.89	20.92						
20	QPSK	1	99	20.77	20.87	20.72	21	1				
20	QPSK	50	0	20.22	20.33	20.20						
20	QPSK	50	24	20.24	20.28	20.21	21	1				
20	QPSK	50	49	20.21	20.16	20.11						
20	QPSK	100	0	20.15	20.26	20.19	21	1				
20	16QAM	1	0	20.09	20.21	20.11						
20	16QAM	1	49	20.15	20.18	20.08	21	1				
20	16QAM	1	99	19.95	20.09	20.03						
20	16QAM	50	0	19.17	19.30	19.19	20	2				
20	16QAM	50	24	19.18	19.25	19.22						
20	16QAM	50	50	19.06	19.18	19.08	20	2				
20	16QAM	100	0	19.00	19.22	19.00						
20	64QAM	1	0	18.04	19.15	18.10	20	2				
20	64QAM	1	49	19.05	19.13	19.05						
20	64QAM	1	99	18.90	19.05	18.90	19	3				
20	64QAM	50	0	18.05	18.15	18.04						
20	64QAM	50	24	18.07	18.10	17.96	19	3				
20	64QAM	50	50	17.96	18.03	17.94						
20	64QAM	100	0	18.17	18.26	18.17	17	5				
20	256QAM	1	0	18.23	18.31	18.22						
20	256QAM	1	49	18.11	18.25	18.20	17	5				
20	256QAM	1	99	18.06	18.19	18.06						
20	256QAM	50	24	18.10	18.20	18.11	17	5				
20	256QAM	50	50	18.08	18.13	18.08						
20	256QAM	100	0	18.07	18.20	18.08	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.84	20.89	20.86	22	0				
15	QPSK	1	37	20.71	20.75	20.83						
15	QPSK	1	74	20.71	20.75	20.70	21	1				
15	QPSK	36	0	20.15	20.30	20.21						
15	QPSK	36	20	20.10	20.17	20.08	21	1				
15	QPSK	36	36	20.07	20.07	20.06						
15	QPSK	75	0	20.00	20.22	20.09	21	1				
15	16QAM	1	0	20.00	20.18	20.05						
15	16QAM	36	0	19.96	20.03	19.99	21	1				
15	16QAM	36	19	19.92	19.99	19.89						
15	16QAM	1	74	19.92	19.99	19.89	20	2				
15	16QAM	36	0	19.09	19.17	19.07						
15	16QAM	36	19	19.05	19.13	19.03	20	2				
15	16QAM	36	36	19.00	19.09	19.00						
15	16QAM	75	0	18.02	18.18	18.07	20	2				
15	64QAM	1	0	18.08	19.11	18.02						
15	64QAM	1	37	18.97	19.98	18.98	19	3				
15	64QAM	1	74	18.97	19.90	18.94						
15	64QAM	36	0	18.00	18.07	17.97	17	5				
15	64QAM	36	0	18.00	18.07	17.97						
15	64QAM	36	20	17.92	18.02	17.82	19	3				
15	64QAM	36	36	18.00	18.04	18.00						
15	256QAM	1	0	18.03	18.06	18.04	Turn-up limit (dBm)	MPR (dB)				
15	256QAM	36	0	18.03	18.06	18.04						
15	256QAM	36	20	18.00	18.04	18.00						
15	256QAM	75	0	18.00	18.14	18.04						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.74	20.80	20.74	22	0				
5	QPSK	1	12	20.76	20.86	20.82						
5	QPSK	1	24	20.80	20.82	20.83	21	1				
5	QPSK	12	0	20.10	20.40	20.22						
5	QPSK	12	7	20.09	20.14	20.07	21	1				
5	QPSK	12	13	19.98	20.07	19.98						
5	QPSK	25	0	20.00	20.18	20.14	21	1				
5	16QAM	1	0	20.02	20.10	20.05						
5	16QAM	1	12	19.95	20.03	19.94	21	1				
5	16QAM	1	24	19.89	19.99	19.89						
5	16QAM	12	0	19.80	19.99	19.80	20	2				
5	16QAM	12	7	19.12	19.10	19.14						
5	16QAM	12	13	19.03	19.10	19.04	20	2				
5	16QAM	25	0	18.05	19.18	18.04						
5	64QAM	1	0	18.06	19.08	18.06	20	2				
5	64QAM	1	12	19.02	19.02	18.90						
5	64QAM	1	24	18.97	18.97	18.91	19	3				
5	64QAM	12	0	17.90	17.96	17.92						
5	64QAM	12	7	18.04	17.99	17.92	17	5				
5	64QAM	12	13	17.88	17.94	17.84						
5	64QAM	25	0	18.05	18.20	18.00	17	5				
5	256QAM	1	0	18.12	18.24	18.13						
5	256QAM	1	12	18.02	18.16	18.12	17	5				
5	256QAM	1	24	18.02	18.06	18.00						
5	256QAM	12	0	18.00	18.12	18.14	17	5				
5	256QAM	12	7	18.07	18.07	18.00						
5	256QAM	12	13	18.03	18.06	18.04	Turn-up limit (dBm)	MPR (dB)				
5	256QAM	25	0	18.03	18.06	18.04						

Band 42 Part 96 Ant 2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.80	20.83	20.82	22	0				
20	QPSK	1	49	20.81	20.75	20.77						
20	QPSK	1	99	19.94	20.74	20.55	21	1				
20	QPSK	50	0	20.18	20.32	20.28						
20	QPSK	50	24	20.17	20.26	20.13	21	1				
20	QPSK	50	49	20.14	20.13	20.05						
20	QPSK	100	0	20.00	20.22	20.04	21	1				
20	16QAM	1	0	20.09	20.17	20.08						
20	16QAM	1	49	20.05	20.13	20.05	20	2				
20	16QAM	1	99	19.92	19.98	20.00						
20	16QAM	50	0	19.98	19.20	19.94	20	2				
20	16QAM	50	24	19.90	19.17	19.19						
20	16QAM	50	50	19.02	19.14	18.94	20	2				
20	16QAM	100	0	18.97	19.05	18.95						
20	64QAM	1	0	18.05	18.15	18.07	20	2				
20	64QAM	1	49	18.98	18.10	18.94						
20	64QAM	1	99	18.94	18.96	18.90	19	3				
20	64QAM	50	0	17.92	18.08	17.94						
20	64QAM	50	24	17.98	18.07	17.87	17	5				
20	64QAM	50	50	17.82	17.89	17.80						
20	64QAM	100	0	18.13	18.20	18.02	17	5				
20	256QAM	1	0	18.15	18.26	18.14						
20	256QAM	1	49	18.06	18.23	18.06	17	5				
20	256QAM	1	99	18.05	18.13	18.03						
20	256QAM	50	0	18.02	18.23	18.11	17	5				
20	256QAM	50	24	18.07	18.19	18.06						
20	256QAM	50	50	18.04	18.00	18.01	Turn-up limit (dBm)	MPR (dB)				
20	256QAM	100	0	18.01	18.15	18.06						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.79	20.73	20.73	22	0				
15	QPSK	1	37	20.61	20.79	20.67						
15	QPSK	1	74	20.66	20.69	20.59	21	1				
15	QPSK	36	0	20.01	20.21	20.13						
15	QPSK	36	20	20.10	20.12	20.05	21	1				
15	QPSK	36	40	19.99	19.98	19.97						
15	QPSK	76	0	19.98	20.12	19.12	21	1				
15	16QAM	1	0	19.93	20.02	19.88						
15	16QAM	1	37	19.97	19.98	19.86	21	1				
15	16QAM	1	74	19.77	19.98	19.76						
15	16QAM	36	0	19.00	19.18	19.01	20	2				
15	16QAM	36	20	19.01	19.17	19.00						
15	16QAM	36	40	18.98	19.03	18.84	19	3				
15	16QAM	76	0	18.94	18.99	18.97						
15	64QAM	1	0	18.03	18.09	18.07	20	2				
15	64QAM	1	37	18.87	18.96	18.92						
15	64QAM	1	74	18.86	18.95	18.87	20	2				
15	64QAM	36	0	17.87	17.87	17.78						
15	64QAM	36	20	17.96	17.87	17.88	19	3				
15	64QAM	36	40	17.77	17.86	17.78						
15	64QAM	76	0	18.08	18.11	18.13	17	5				
15	256QAM	1	0	18.05	18.16	18.05						
15	256QAM	1	37	18.06	18.15	18.06	17	5				
15	256QAM	1	74	18.03	18.15	18.03						
15	256QAM	36	0	17.95	18.04	17.95	17	5				
15	256QAM	36	20	18.00	18.04	18.03						
15	256QAM	36	40	17.99	18.00	17.99	17	5				
15	256QAM	76	0	18.00	18.09	18.02						
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.83	20.83	20.83	22	0				
20	QPSK	1	25	20.83	20.72	20.70						
20	QPSK	1	50	20.83	20.72	20.70	21	1				
20	QPSK	20	0	20.11	20.18	20.12						
20	QPSK	20	13	20.13	20.24	20.13	21	1				
20	QPSK	20	26	20.02	20.13	20.01						
20	QPSK	50	0	20.01	20.10	20.11	21	1				
20	16QAM	1	0	19.92	20.02	19.91						
20	16QAM	1	25	19.98	19.98	19.82	21	1				
20	16QAM	1	49	19.80	19.98	19.81						
20	16QAM	20	0	19.10	19.15	19.06	20	2				
20	16QAM	20	13	19.00	19.15	19.00						
20	16QAM	20	26	18.89	19.03	18.82	19	3				
20	16QAM	50	0	18.90	19.04	18.98						
20	64QAM	1	0	18.00	18.00	18.02	20	2				
20	64QAM	1	25	18.91	18.99	18.99						
20	64QAM	1	50	18.87	18.99	18.82	20	2				
20	64QAM	20	0	17.93	17.99	17.78						
20	64QAM	20	13	17.96	17.92	17.79	19	3				
20	64QAM	20	26	17.87	17.86	17.82						
20	64QAM	50	0	17.97	18.07	18.06	17	5				
20	256QAM	1	0	18.06	18.16	18.08						
20	256QAM	1	25	18.07	18.07	18.01	17	5				
20	256QAM	1	49	18.00	18.01	18.74						
20	256QAM	20	0	18.04	18.04	18.05	17	5				
20	256QAM	20	13	18.01	18.04	18.01						
20	256QAM	20	26	18.01	18.01	18.01	17	5				
20	256QAM	50	0	18.01	18.01	18.01						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.79	20.73	20.73	22	0				
5	QPSK	1	12	20.64	20.76	20.71						
5	QPSK	1	24	20.63	20.63	20.57	21	1				
5	QPSK	12	0	20.13	20.15	20.12						
5	QPSK	12	7	20.14	20.12	20.17	21	1				
5	16QAM	1	0	19.95	20.09	19.15						
5	16QAM	1	12	19.92	20.01	19.93	21	1				
5	16QAM	1	24	19.87	19.98	19.84						
5	16QAM	12	0	19.05	19.08	19.00	20	2				
5	16QAM	12	7	18.96	19.07	18.92						
5	16QAM	12	13	18.94	19.02	18.76	20	2				
5	16QAM	24	0	18.93	19.12	18.93						
5	64QAM	1	0	18.04	18.08	18.04	19	3				
5	64QAM	1	12	18.90	18.90	18.90						
5	64QAM	1	24	18.87	18.96	18.87	19	3				
5	64QAM	12	0	17.88	17.87	17.79						
5	64QAM	12	7	17.87	17.86	17.82	17	5				
5	64QAM	12	13	17.88	17.88	17.83						
5	64QAM	24	0	18.08	17.99	18.00	17	5				
5	256QAM	1	0	18.03	18.03	18.03						
5	256QAM	1	12	18.01	18.09	18.01	17	5				
5	256QAM	1	24	18.01	18.05	18.79						
5	256QAM	12	0	18.00	18.12	18.12	17	5				
5	256QAM	12	7	18.04	18.04	18.96						
5	256QAM	12	13	18.00	18.00	18.00	17	5				
5	256QAM	24	0	18.01	18.01	18.01						



Band 48 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up band (dBm)	MPR (dB)
Channel				56340	56930	56150	56640	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56340	56930	56150	56640		
20	QPSK	1	0	21.23	21.30	21.19	21.13	22	0
20	QPSK	1	49	21.03	21.17	21.19	21.06		
20	QPSK	8	0	21.05	21.17	21.11	21.11		
20	QPSK	50	0	21.13	21.09	21.09	20.95		
20	QPSK	50	24	20.98	21.02	21.02	20.99	22	0
20	QPSK	50	50	20.97	21.13	21.08	21.04		
20	QPSK	100	0	21.07	21.16	21.10	21.00		
20	16QAM	1	0	21.14	21.17	21.16	21.00		
20	16QAM	1	49	20.96	21.08	21.08	20.94	22	0
20	16QAM	8	0	20.91	21.04	20.98	21.08		
20	16QAM	50	0	20.29	20.35	20.27	20.26		
20	16QAM	50	24	20.21	20.30	20.21	20.25		
20	16QAM	50	50	20.13	20.23	20.10	20.16	21	1
20	16QAM	100	0	20.25	20.38	20.22	20.27		
20	64QAM	1	0	20.16	20.27	20.21	20.15		
20	64QAM	1	49	20.08	20.22	20.18	20.17		
20	64QAM	8	0	20.05	20.15	20.05	20.02	20	2
20	64QAM	50	0	19.21	19.31	19.21	19.24		
20	64QAM	50	24	19.17	19.28	19.11	19.14		
20	64QAM	50	50	19.10	19.19	19.08	19.08		
20	64QAM	100	0	19.20	19.28	19.20	19.23	18	4
20	256QAM	1	0	17.29	17.34	17.24	17.28		
20	256QAM	1	49	17.21	17.29	17.25	17.19		
20	256QAM	1	99	17.14	17.22	17.09	17.10		
20	256QAM	8	0	17.16	17.28	17.14	17.17	18	4
20	256QAM	50	0	17.18	17.23	17.16	17.16		
20	256QAM	50	24	17.10	17.16	17.10	17.04		
20	256QAM	50	50	17.10	17.16	17.10	17.04		
20	256QAM	100	0	17.10	17.23	17.10	17.12	Tune-up band (dBm)	MPR (dB)
Channel				56315	56930	56150	56640		
Frequency (MHz)				56315	56930	56150	56640	Tune-up band (dBm)	MPR (dB)
15	QPSK	1	0	21.13	21.12	21.13	21.05		
15	QPSK	1	37	20.94	21.07	21.14	20.97	22	0
15	QPSK	1	74	20.99	21.13	21.09	21.07		
15	QPSK	36	0	21.02	21.17	20.94	20.91		
15	QPSK	36	20	20.84	20.88	20.93	20.90	22	0
15	QPSK	36	36	20.84	21.08	21.03	21.00		
15	QPSK	75	0	21.02	21.08	20.97	20.96		
15	16QAM	1	0	21.11	21.03	21.01	20.86	22	0
15	16QAM	1	37	20.87	21.06	21.04	20.98		
15	16QAM	1	74	20.85	20.97	20.85	20.95		
15	16QAM	36	0	20.14	20.23	20.13	20.20		
15	16QAM	36	20	20.14	20.26	20.15	20.18	21	1
15	16QAM	36	36	20.02	20.17	20.04	20.09		
15	16QAM	75	0	20.12	20.20	20.22	20.20		
15	64QAM	1	0	20.08	20.21	20.13	20.02		
15	64QAM	1	37	20.02	20.08	20.13	20.10	21	1
15	64QAM	1	74	19.92	20.11	19.96	19.94		
15	64QAM	36	0	19.11	19.25	19.09	19.13		
15	64QAM	36	20	19.10	19.18	18.97	19.06	20	2
15	64QAM	36	36	19.06	19.14	19.07	19.03		
15	64QAM	75	0	19.09	19.24	19.07	19.17		
15	256QAM	1	0	17.16	17.22	17.13	17.20	18	4
15	256QAM	1	37	17.07	17.25	17.13	17.14		
15	256QAM	1	74	17.10	17.09	16.98	17.00		
15	256QAM	36	0	17.09	17.14	17.08	17.03		
15	256QAM	36	20	17.06	17.14	17.07	17.06	18	4
15	256QAM	36	36	16.98	17.13	17.09	16.93		
15	256QAM	75	0	17.04	17.17	17.04	17.01		
Channel				56300	56915	56150	56640	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56300	56915	56150	56640		
10	QPSK	1	0	21.06	21.04	21.12	20.86	22	0
10	QPSK	1	25	20.94	21.10	21.10	20.94		
10	QPSK	1	49	20.87	21.07	21.05	21.03		
10	QPSK	36	0	21.02	21.13	21.02	20.92		
10	QPSK	25	12	20.82	20.99	20.91	20.91	22	0
10	QPSK	25	25	20.91	21.10	20.93	20.97		
10	QPSK	50	0	21.04	21.07	21.03	20.97		
10	16QAM	1	0	21.03	21.11	21.08	20.88		
10	16QAM	1	25	20.92	21.08	21.02	20.89	22	0
10	16QAM	1	49	20.75	20.92	20.84	20.97		
10	16QAM	25	0	20.20	20.24	20.14	20.15		
10	16QAM	25	12	20.10	20.25	20.12	20.10	21	1
10	16QAM	25	25	19.99	20.16	20.02	20.04		
10	16QAM	50	0	20.16	20.18	20.20	20.21		
10	64QAM	1	0	20.07	20.23	20.20	20.04	21	1
10	64QAM	1	25	19.96	20.19	20.10	20.02		
10	64QAM	1	49	19.98	20.10	20.03	19.93		
10	64QAM	25	0	19.11	19.25	19.09	19.10		
10	64QAM	25	12	19.13	19.16	18.98	19.11	20	2
10	64QAM	25	25	19.04	19.13	19.05	18.98		
10	64QAM	50	0	19.10	19.17	19.10	19.08		
10	256QAM	1	0	17.22	17.21	17.16	17.20	18	4
10	256QAM	1	25	17.12	17.14	17.11	17.04		
10	256QAM	1	49	17.04	17.14	17.05	17.01		
10	256QAM	25	0	17.28	17.14	17.02	17.11		
10	256QAM	25	12	17.06	17.06	17.07	17.06	18	4
10	256QAM	25	25	17.05	17.02	17.04	17.00		
10	256QAM	50	0	17.09	17.14	17.11	17.01		
Channel				56285	56900	56150	56640	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56285	56900	56150	56640		
5	QPSK	1	0	21.12	21.26	21.09	20.85	22	0
5	QPSK	1	12	20.90	21.01	21.05	20.95		
5	QPSK	1	24	20.89	21.04	21.03	21.02		
5	QPSK	12	0	21.03	21.18	20.94	20.84		
5	QPSK	12	7	20.85	20.99	20.85	20.82	22	0
5	QPSK	12	13	20.82	21.05	20.94	20.98		
5	QPSK	25	0	20.99	21.13	21.04	20.95		
5	16QAM	1	0	21.10	21.07	21.04	20.94		
5	16QAM	1	12	20.81	21.04	20.93	20.88	22	0
5	16QAM	1	24	20.82	20.96	20.89	20.99		
5	16QAM	12	0	20.22	20.31	20.23	20.21		
5	16QAM	12	7	20.07	20.20	20.08	20.19	21	1
5	16QAM	12	13	19.99	20.18	19.95	20.01		
5	64QAM	1	0	20.14	20.19	20.12	20.12		
5	64QAM	1	0	20.12	20.19	20.11	20.04	21	1
5	64QAM	1	12	19.98	20.09	20.12	20.08		
5	64QAM	1	24	20.01	20.01	20.00	19.90		
5	64QAM	12	0	19.12	19.21	19.14	19.10	20	2
5	64QAM	12	7	19.08	19.22	19.05	19.01		
5	64QAM	12	13	18.97	19.12	18.88	19.04		
5	64QAM	25	0	19.16	19.21	19.03	19.14		
5	256QAM	1	0	17.22	17.22	17.10	17.22	18	4
5	256QAM	1	12	17.07	17.24	17.21	17.07		
5	256QAM	1	24	17.08	17.18	17.04	17.07		
5	256QAM	12	0	17.02	17.15	17.11	17.10		
5	256QAM	12	7	17.07	17.19	17.04	17.13	18	4
5	256QAM	12	13	17.03	17.04	17.05	16.97		
5	256QAM	25	0	17.03	17.20	17.10	17.01		



Band	SBS Average Power (dBm)				Tx Channel	Frame Average Power (dBm)				Tx Channel	SBS Average Power (dBm)				Tx Channel	
	802			860		802			860		802			860		
	802	860	810	802		860	810	802	860		810	802	860	810		
	Limit	Limit	Limit	Limit		Limit	Limit	Limit	Limit		Limit	Limit	Limit	Limit		
QPSK 1 Tx side	31.11	31.18	31.10	31.59	22.11	22.18	22.10	22.59	22.11	22.18	22.10	22.59	22.11	22.18	22.10	22.59
QPSK 2 Tx side	27.62	27.60	27.54	28.00	27.62	27.60	27.54	28.00	27.62	27.60	27.54	28.00	27.62	27.60	27.54	28.00
QPSK 3 Tx side	25.78	25.76	25.71	26.00	25.78	25.76	25.71	26.00	25.78	25.76	25.71	26.00	25.78	25.76	25.71	26.00
QPSK 4 Tx side	23.39	23.32	23.40	23.59	23.39	23.32	23.40	23.59	23.39	23.32	23.40	23.59	23.39	23.32	23.40	23.59
EDGE 1 Tx side	25.84	25.74	25.80	27.00	25.84	25.74	25.80	27.00	25.84	25.74	25.80	27.00	25.84	25.74	25.80	27.00
EDGE 2 Tx side	24.08	24.12	23.99	25.00	24.08	24.12	23.99	25.00	24.08	24.12	23.99	25.00	24.08	24.12	23.99	25.00
EDGE 3 Tx side	22.34	22.27	22.19	24.00	22.34	22.27	22.19	24.00	22.34	22.27	22.19	24.00	22.34	22.27	22.19	24.00
EDGE 4 Tx side	20.73	20.80	20.77	22.00	20.73	20.80	20.77	22.00	20.73	20.80	20.77	22.00	20.73	20.80	20.77	22.00

Band	Tx Channel	WCDMA II A/G 3			Tx Channel	WCDMA IV A/G 3			Tx Channel	WCDMA IV A/G 3			Tx Channel	WCDMA IV A/G 3		
		5862	5900	5938		5862	5900	5938		5862	5900	5938		5862	5900	5938
Frequency (MHz)																
Limit (dBm)																
SCPP Rel 56	AMR 12.2kbit/s	24.03	24.10	24.12	24.50	24.03	24.10	24.12	24.50	24.03	24.10	24.12	24.50	24.03	24.10	24.12
SCPP Rel 56		24.07	24.25	24.15	24.50	24.07	24.25	24.15	24.50	24.07	24.25	24.15	24.50	24.07	24.25	24.15
SCPP Rel 6	AMR 12.2kbit/s	23.10	23.35	23.36	23.50	23.10	23.35	23.36	23.50	23.10	23.35	23.36	23.50	23.10	23.35	23.36
SCPP Rel 6		22.27	22.30	22.50	23.00	22.27	22.30	22.50	23.00	22.27	22.30	22.50	23.00	22.27	22.30	22.50
SCPP Rel 6	AMR 12.2kbit/s	22.81	22.82	22.82	23.00	22.81	22.82	22.82	23.00	22.81	22.82	22.82	23.00	22.81	22.82	22.82
SCPP Rel 6		22.89	22.89	22.84	23.00	22.71	22.80	22.80	23.00	22.71	22.80	22.80	23.00	22.71	22.80	22.80
SCPP Rel 6	AMR 12.2kbit/s	22.44	22.42	22.18	23.00	22.44	22.42	22.18	23.00	22.44	22.42	22.18	23.00	22.44	22.42	22.18
SCPP Rel 6		23.18	23.31	23.37	23.50	23.18	23.31	23.37	23.50	23.18	23.31	23.37	23.50	23.18	23.31	23.37
SCPP Rel 6	AMR 12.2kbit/s	22.59	22.75	22.87	23.00	22.59	22.75	22.87	23.00	22.59	22.75	22.87	23.00	22.59	22.75	22.87
SCPP Rel 6		22.58	22.71	22.80	23.00	22.58	22.71	22.80	23.00	22.58	22.71	22.80	23.00	22.58	22.71	22.80
SCPP Rel 6	AMR 12.2kbit/s	23.26	23.37	23.13	23.50	23.26	23.37	23.13	23.50	23.26	23.37	23.13	23.50	23.26	23.37	23.13
SCPP Rel 6		21.46	21.24	21.33	21.50	21.46	21.24	21.33	21.50	21.46	21.24	21.33	21.50	21.46	21.24	21.33
SCPP Rel 6	AMR 12.2kbit/s	22.41	22.25	22.24	22.50	22.41	22.25	22.24	22.50	22.41	22.25	22.24	22.50	22.41	22.25	22.24
SCPP Rel 6		21.15	21.50	21.44	21.50	21.15	21.50	21.44	21.50	21.15	21.50	21.44	21.50	21.15	21.50	21.44
SCPP Rel 6	AMR 12.2kbit/s	20.25	20.26	20.12	20.50	20.25	20.26	20.12	20.50	20.25	20.26	20.12	20.50	20.25	20.26	20.12

Band 2 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.65	22.72	22.70			
20	QPSK	1	49	22.62	22.63	22.63	23.8	0	
20	QPSK	1	99	22.45	22.58	22.63			
20	QPSK	50	0	22.50	22.58	22.63			
20	QPSK	50	50	21.97	22.01	21.98	23	0.8	
20	QPSK	100	0	21.98	22.02	21.87			
20	16QAM	50	0	21.90	21.97	21.86			
20	16QAM	1	49	21.85	21.92	21.84	23	0.8	
20	16QAM	1	99	21.80	21.85	21.75			
20	16QAM	50	0	20.96	20.99	20.90			
20	16QAM	50	24	20.81	20.94	20.89	22	1.8	
20	16QAM	50	50	20.75	20.87	20.76			
20	16QAM	100	0	20.87	20.93	20.80			
20	64QAM	1	0	20.80	20.91	20.80			
20	64QAM	1	49	20.76	20.86	20.71	22	1.8	
20	64QAM	50	0	20.71	20.78	20.70			
20	64QAM	50	0	19.97	20.08	19.94			
20	64QAM	50	24	19.97	20.03	19.96			
20	64QAM	50	50	19.93	20.03	19.92	21	2.8	
20	64QAM	100	0	19.93	20.03	19.92			
20	64QAM	1	49	17.96	18.01	17.90			
20	256QAM	1	49	17.89	17.98	17.88	19	4.8	
20	256QAM	1	99	17.81	17.89	17.88			
20	256QAM	50	0	17.78	17.86	17.80			
20	256QAM	50	24	17.83	17.88	17.85	19	4.8	
20	256QAM	50	50	17.68	17.81	17.69			
20	256QAM	100	0	17.78	17.84	17.64			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.07	18.00	18.03			
15	QPSK	1	0	22.80	22.88	22.81			
15	QPSK	1	49	22.82	22.98	22.87	23.8	0	
15	QPSK	1	74	22.40	22.49	22.46			
15	QPSK	36	0	21.93	21.98	21.88			
15	QPSK	36	20	21.90	21.94	21.79	23	0.8	
15	QPSK	36	36	21.84	21.88	21.73			
15	QPSK	75	0	21.89	21.90	21.78			
15	16QAM	1	0	21.83	21.82	21.82			
15	16QAM	1	37	21.78	21.87	21.73	23	0.8	
15	16QAM	1	74	21.76	21.82	21.66			
15	16QAM	36	0	20.90	20.93	20.85			
15	16QAM	36	20	20.69	20.87	20.77	22	1.8	
15	16QAM	36	36	20.73	20.85	20.69			
15	16QAM	75	0	20.73	20.85	20.69			
15	64QAM	1	0	20.70	20.77	20.69			
15	64QAM	1	37	20.62	20.75	20.62	22	1.8	
15	64QAM	1	74	20.57	20.72	20.72			
15	64QAM	36	0	19.90	19.97	19.82			
15	64QAM	36	20	19.83	19.97	19.88			
15	64QAM	36	36	19.87	19.91	19.81	21	2.8	
15	64QAM	75	0	19.81	19.89	19.83			
15	256QAM	1	0	17.76	17.84	17.64			
15	256QAM	1	37	17.82	17.88	17.79	19	4.8	
15	256QAM	1	74	17.78	17.85	17.81			
15	256QAM	36	0	17.78	17.86	17.80			
15	256QAM	36	20	17.73	17.75	17.78	19	4.8	
15	256QAM	36	36	17.64	17.74	17.60			
15	256QAM	75	0	17.71	17.84	17.64			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.60	22.61	22.61			
10	QPSK	1	25	22.46	22.54	22.50	23.8	0	
10	QPSK	1	49	22.34	22.52	22.43			
10	QPSK	25	0	21.96	21.98	21.88			
10	QPSK	25	12	21.85	21.90	21.81	23	0.8	
10	QPSK	25	25	21.80	21.89	21.78			
10	QPSK	50	0	21.80	21.86	21.75			
10	16QAM	1	0	21.85	21.88	21.71			
10	16QAM	1	25	21.80	21.86	21.80	23	0.8	
10	16QAM	1	49	21.87	21.97	21.82			
10	16QAM	25	0	20.93	20.90	20.75			
10	16QAM	25	12	20.77	20.90	20.88	22	1.8	
10	16QAM	25	25	20.73	20.83	20.70			
10	16QAM	50	0	20.76	20.80	20.70			
10	64QAM	1	0	20.65	20.76	20.71			
10	64QAM	1	25	20.53	20.71	20.65	22	1.8	
10	64QAM	1	49	20.64	20.67	20.73			
10	64QAM	25	0	19.93	20.03	19.88			
10	64QAM	25	12	19.83	19.94	19.80			
10	64QAM	25	25	19.86	19.85	19.75	21	2.8	
10	64QAM	50	0	19.88	19.94	19.80			
10	256QAM	1	0	17.84	17.87	17.80			
10	256QAM	1	25	17.81	17.82	17.75	19	4.8	
10	256QAM	1	49	17.74	17.78	17.70			
10	256QAM	25	0	17.78	17.83	17.79			
10	256QAM	25	12	17.77	17.81	17.79	19	4.8	
10	256QAM	25	25	17.65	17.72	17.58			
10	256QAM	50	0	17.77	17.78	17.70			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.63	22.61	22.61			
5	QPSK	1	12	22.39	22.54	22.48	23.8	0	
5	QPSK	1	24	22.38	22.51	22.49			
5	QPSK	12	0	21.94	21.96	21.89			
5	QPSK	12	7	21.85	21.87	21.88	23	0.8	
5	QPSK	12	13	21.83	21.80	21.71			
5	QPSK	25	0	21.95	21.98	21.89			
5	16QAM	1	0	21.75	21.80	21.73			
5	16QAM	1	12	21.61	21.81	21.78	23	0.8	
5	16QAM	1	24	21.71	21.76	21.65			
5	16QAM	12	0	20.85	20.92	20.79			
5	16QAM	12	7	20.74	20.82	20.80	22	1.8	
5	16QAM	12	13	20.73	20.80	20.70			
5	16QAM	25	0	20.74	20.79	20.68			
5	16QAM	1	0	20.73	20.80	20.65			
5	16QAM	1	12	20.65	20.77	20.69	22	1.8	
5	16QAM	1	24	20.82	20.72	20.71			
5	64QAM	1	0	19.87	19.98	19.86			
5	64QAM	1	12	19.80	19.90	19.80			
5	64QAM	12	13	19.82	19.91	19.78	21	2.8	
5	64QAM	25	0	19.88	19.96	19.82			
5	256QAM	1	0	17.78	17.86	17.79			
5	256QAM	1	12	17.79	17.82	17.76	19	4.8	
5	256QAM	1	24	17.73	17.79	17.77			
5	256QAM	12	0	17.80	17.88	17.74			
5	256QAM	12	7	17.72	17.79	17.72	19	4.8	
5	256QAM	12	13	17.64	17.74	17.66			
5	256QAM	25	0	17.82	17.88	17.80			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.51	22.66	22.50			
3	QPSK	1	8	22.37	22.51	22.46	23.8	0	
3	QPSK	1	14	22.39	22.51	22.41			
3	QPSK	8	0	21.85	21.90	21.81			
3	QPSK	8	4	21.87	21.86	21.87	23	0.8	
3	QPSK	8	7	21.77	21.79	21.72			
3	QPSK	15	0	21.90	21.89	21.73			
3	16QAM	1	0	21.82	21.90	21.71			
3	16QAM	1	8	21.78	21.81	21.77	23	0.8	
3	16QAM	1	14	21.74	21.75	21.66			
3	16QAM	8	0	20.84	20.95	20.81			
3	16QAM	8	4	20.89	20.94	20.83	22	1.8	
3	16QAM	8	7	20.71	20.74	20.72			
3	16QAM	15	0	20.79	20.88	20.66			
3	64QAM	1	0	20.76	20.82	20.75			
3	64QAM	1	8	20.67	20.75	20.67	22	1.8	
3	64QAM	1	14	20.67	20.76	20.67			
3	64QAM	8	0	19.84	19.96	19.80			
3	64QAM	8	4	19.87	19.88	19.89	21	2.8	
3	64QAM	8	7	19.81	19.88	19.81			
3	256QAM	1	0	17.78	17.91	17.76			
3	256QAM	1	8	17.75	17.88	17.76	19	4.8	
3	256QAM	1	14	17.71	17.77	17.69			
3	256QAM	8	0	17.80	17.86	17.78			
3	256QAM	8	4	17.69	17.82	17.79	19	4.8	
3	256QAM	8	7	17.65	17.75	17.67			
3	256QAM	15	0	17.74	17.85	17.71			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.81	22.81	22.86			
1.4	QPSK	1	3	22.40	22.57	22.43	23.8	0	
1.4	QPSK	1	5	22.33	22.53	22.46			
1.4	QPSK	3	0	22.43	22.56	22.46			
1.4	QPSK	3	3	22.45	22.55	22.45	23.8	0	
1.4	QPSK	3	5	22.35	22.53	22.46			
1.4	QPSK	15	0	21.86	21.91	21.82	23	0.8	
1.4	QPSK	15	3	21.82	21.92	21.87			
1.4	QPSK	15	5	21.84	21.90	21.83			
1.4	QPSK	3	0	21.82	21.90	21.83	23	0.8	
1.4	QPSK	3	3	21.78	21.87	21.84			
1.4	QPSK	3	5	21.76	21.80	21.64			
1.4	QPSK	15	0	20.98	21.08	20.96	22	1.8	
1.4	QPSK	15	3	20.94	21.04	20.94			
1.4	QPSK	15	5	20.74	20.85	20.79			
1.4	QPSK	3	0	20.79	20.82	20.73			
1.4	QPSK	3	3	20.69	20.78	20.75	22	1.8	
1.4	QPSK	3	5	20.67	20.76	20.67			
1.4	QPSK	15	0	19.86	19.96	19.85	21	2.8	

Band 25 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up Inst. (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.60	22.76	22.72	23.8	0	24	0
20	QPSK	1	48	22.45	22.60	22.54				
20	QPSK	1	96	22.38	22.55	22.55				
20	QPSK	50	0	22.24	22.33	22.27				
20	QPSK	50	24	22.14	22.28	22.15	23	0.8	23	1
20	QPSK	50	50	22.10	22.21	22.11				
20	QPSK	100	0	22.14	22.26	22.23				
20	IQAM	100	0	22.00	22.05	22.01				
20	IQAM	1	48	21.93	22.00	21.85	23	0.8	23	1
20	IQAM	1	96	21.82	21.93	21.80				
20	IQAM	50	0	21.14	21.22	21.17				
20	IQAM	50	24	21.09	21.17	21.13				
20	IQAM	50	50	21.02	21.10	21.03	22	1.8	22	2
20	IQAM	100	0	21.04	21.15	21.03				
20	IQAM	1	0	20.99	21.05	20.94				
20	IQAM	1	48	20.91	21.00	20.89				
20	IQAM	1	96	20.85	20.93	20.78	22	1.8	22	2
20	IQAM	50	0	20.18	20.32	20.21				
20	IQAM	50	24	20.10	20.27	20.20				
20	IQAM	50	50	20.12	20.20	20.18				
20	IQAM	100	0	20.05	20.17	20.07	21	2.8	21	3
20	25QAM	1	0	18.44	18.52	18.38				
20	25QAM	1	48	18.33	18.47	18.35				
20	25QAM	1	96	18.30	18.40	18.32				
20	25QAM	50	0	18.09	18.24	18.11	19	4.8	19	5
20	25QAM	50	24	18.06	18.19	18.14				
20	25QAM	50	50	18.08	18.12	18.01				
20	25QAM	100	0	18.10	18.21	18.16				
Channel				26560	26560	26560	Tune-up Inst. (dB)	MPR (dB)		
Frequency (MHz)				183.5	183.5	183.5				
16	QPSK	1	0	22.60	22.69	22.69	23.8	0	24	0
16	QPSK	1	37	22.45	22.55	22.47				
16	QPSK	1	74	22.27	22.48	22.42				
16	QPSK	36	0	22.12	22.29	22.17				
16	QPSK	36	18	22.07	22.14	22.08	23	0.8	23	1
16	QPSK	36	36	22.02	22.17	22.02				
16	QPSK	75	0	21.98	22.04	21.94				
16	IQAM	1	0	21.98	21.94	21.94				
16	IQAM	1	37	21.78	21.89	21.74	23	0.8	23	1
16	IQAM	1	74	21.62	21.86	21.63				
16	IQAM	36	0	20.99	21.15	21.04				
16	IQAM	36	20	20.99	21.08	21.09				
16	IQAM	36	36	20.90	21.07	20.92	22	1.8	22	2
16	IQAM	75	0	20.90	21.07	20.92				
16	IQAM	1	0	20.89	21.00	20.84				
16	IQAM	1	37	20.77	20.94	20.68				
16	IQAM	1	74	20.75	20.79	20.67	21	2.8	21	3
16	IQAM	36	0	20.06	20.26	20.17				
16	IQAM	36	20	20.06	20.17	20.08				
16	IQAM	36	36	19.95	20.12	20.01				
16	IQAM	75	0	19.91	20.08	19.98	19	4.8	19	5
16	25QAM	1	37	18.20	18.42	18.29				
16	25QAM	1	74	18.23	18.28	18.18				
16	25QAM	36	0	17.95	18.16	17.96				
16	25QAM	36	20	17.97	18.14	18.11	19	4.8	19	5
16	25QAM	36	36	18.00	17.98	17.95				
16	25QAM	75	0	17.97	18.00	17.90				
Channel				26560	26560	26560	Tune-up Inst. (dB)	MPR (dB)		
Frequency (MHz)				183.5	183.5	183.5				
10	QPSK	1	0	22.50	22.49	22.48	23.8	0	24	0
10	QPSK	1	25	22.35	22.52	22.44				
10	QPSK	1	48	22.28	22.47	22.47				
10	QPSK	25	0	22.20	22.29	22.26				
10	QPSK	25	12	22.02	22.19	22.02	23	0.8	23	1
10	QPSK	25	25	22.08	22.09	22.08				
10	QPSK	50	0	22.07	22.13	22.06				
10	IQAM	1	0	21.85	21.91	21.87				
10	IQAM	1	25	21.81	21.88	21.74	23	0.8	23	1
10	IQAM	1	48	21.73	21.86	21.63				
10	IQAM	25	0	21.08	21.19	21.03				
10	IQAM	25	12	21.02	21.10	21.08				
10	IQAM	25	12	20.96	21.06	20.98	22	1.8	22	2
10	IQAM	50	0	20.90	21.10	20.97				
10	IQAM	1	0	20.88	20.91	20.84				
10	IQAM	1	25	20.81	20.87	20.77				
10	IQAM	1	48	20.84	20.82	20.74	21	2.8	21	3
10	IQAM	25	0	20.07	20.28	20.17				
10	IQAM	25	12	20.08	20.15	20.16				
10	IQAM	25	25	19.98	20.17	20.12				
10	IQAM	50	0	19.93	20.04	20.01	19	4.8	19	5
10	25QAM	1	25	18.22	18.43	18.32				
10	25QAM	1	25	18.22	18.44	18.31				
10	25QAM	1	48	18.20	18.36	18.18				
10	25QAM	25	0	18.02	18.18	17.98	19	4.8	19	5
10	25QAM	25	12	17.98	18.05	18.00				
10	25QAM	25	25	18.02	18.02	17.89				
10	25QAM	50	0	18.04	18.08	17.93				
Channel				26565	26565	26565	Tune-up Inst. (dB)	MPR (dB)		
Frequency (MHz)				183.5	183.5	183.5				
5	QPSK	1	0	22.50	22.47	22.45	23.8	0	24	0
5	QPSK	1	12	22.42	22.57	22.45				
5	QPSK	1	24	22.25	22.46	22.41				
5	QPSK	12	0	22.17	22.21	22.23				
5	QPSK	12	7	22.10	22.24	22.08	23	0.8	23	1
5	QPSK	12	13	22.04	22.15	22.03				
5	QPSK	25	0	21.98	22.18	22.11				
5	IQAM	1	0	21.88	21.99	21.89				
5	IQAM	1	12	21.78	21.93	21.79	23	0.8	23	1
5	IQAM	1	24	21.72	21.87	21.62				
5	IQAM	12	0	21.01	21.15	21.12				
5	IQAM	12	7	21.05	21.08	21.00				
5	IQAM	12	13	20.80	21.07	20.98	22	1.8	22	2
5	IQAM	25	0	20.94	21.07	20.95				
5	IQAM	1	0	20.85	20.92	20.90				
5	IQAM	1	12	20.81	20.96	20.75				
5	IQAM	1	24	20.78	20.85	20.68	21	2.8	21	3
5	IQAM	12	0	20.14	20.17	20.17				
5	IQAM	12	7	20.00	20.19	20.09				
5	IQAM	12	13	20.00	20.15	20.13				
5	IQAM	25	0	19.95	20.08	20.02	19	4.8	19	5
5	25QAM	1	13	18.31	18.39	18.25				
5	25QAM	1	12	18.21	18.35	18.25				
5	25QAM	11	24	18.25	18.26	18.23				
5	25QAM	12	0	18.03	18.13	18.03	19	4.8	19	5
5	25QAM	12	7	18.03	18.07	18.04				
5	25QAM	12	13	18.04	18.15	18.03				
5	25QAM	25	0	17.96	18.14	18.01				
Channel				183.5	183.5	183.5	Tune-up Inst. (dB)	MPR (dB)		
3	QPSK	1	0	22.47	22.45	22.44	23.8	0	24	0
3	QPSK	1	8	22.45	22.55	22.49				
3	QPSK	1	16	22.28	22.46	22.41				
3	QPSK	8	0	22.15	22.30	22.21				
3	QPSK	8	8	22.03	22.16	22.05	23	0.8	23	1
3	QPSK	8	16	21.97	22.11	22.04				
3	QPSK	16	0	21.95	22.20	21.91				
3	IQAM	1	0	21.90	21.97	21.90				
3	IQAM	1	8	21.79	21.92	21.79	23	0.8	23	1
3	IQAM	1	16	21.73	21.90	21.70				
3	IQAM	8	0	21.14	21.27	21.14				
3	IQAM	8	8	21.03	21.15	21.03				
3	IQAM	8	16	21.01	21.01	20.87	22	1.8	22	2
3	IQAM	16	0	20.99	21.09	20.97				
3	IQAM	1	0	20.82	20.87	20.81				
3	IQAM	1	8	20.78	20.89	20.78				
3	IQAM	1	16	20.75	20.80	20.69	21	2.8	21	3
3	IQAM	8	0	20.10	20.17	20.15				
3	IQAM	8	8	20.06	20.15	20.08				
3	IQAM	8	16	20.00	20.13	20.03				
3	IQAM	16	0	19.94	20.04	19.98	19	4.8	19	5
3	25QAM	1	8	18.30	18.40	18.31				
3	25QAM	1	16	18.27	18.42	18.30				
3	25QAM	1	14	18.22	18.37	18.18				
3	25QAM	8	0	17.97	18.10	18.01	19	4.8	19	5
3	25QAM	8	8	17.96	18.11	18.01				
3	25QAM	8	16	18.05	18.04	17.88				
3	25QAM	15	0	18.07	18.16	18.04				
Channel				183.7	183.7	183.7	Tune-up Inst. (dB)	MPR (dB)		
Frequency (MHz)				183.7	183.7	183.7				
1.4	QPSK	1	0	22.47	22.62	22.68	23.8	0	24	0
1.4	QPSK	1	8	22.41	22.66	22.64				
1.4	QPSK	1	16	22.23	22.44	22.42				
1.4	QPSK	3	0	22.40	22.63	22.61				
1.4	QPSK	3	8	22.28	22.58	22.53	23	0.8	23	1
1.4	QPSK	3	16	22.15	22.43	22.38				
1.4	QPSK	6	0	22.35	22.43	22.38				
1.4	QPSK	6	8	22.16	22.39	22.34				
1.4	QPSK	6	16	22.05	22.39	22.34	23	0.8	23	1
1.4	QPSK	12	0	21.81	21.86	21.73				
1.4	QPSK	12	8	21.75	21.81	21.65				
1.4	QPSK	12	16	21.68	21.71	21.55				
1.4	QPSK	12	24	21.59	21.61	21.45	22	1.8	22	2
1.4	QPSK	24	0	20.98	21.12	21.00				
1.4	QPSK	1	0	20.86	20.99	20.87				
1.4	QPSK	1	8	20.81	20.95	20.84				
1.4	QPSK	1	16	20.73	20.81	20.68	21	2.8	21	3
1.4	QPSK	6	0	20.12	20.24	20.18				
1.4	QPSK	6	8	20.12	20.24	20.18				
1.4	QPSK	6	16	20.13	20.24	20.18				
1.4	QPSK	12	0	19.95	20.10	20.04	19	4.8	19	5
1.4	25QAM	1	8	18.16	18.30	18.21				
1.4	25QAM	1	16	18.16	18.33					

Band 38 Ant 3												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up [ms] (dBm)	MPE (dB)				
Channel												
Frequency [MHz]												
20	QPSK	1	0	23.49	23.57	23.53	24	0				
20	QPSK	1	49	23.37	23.45	23.30						
20	QPSK	1	99	23.28	23.35	23.30						
20	QPSK	50	0	22.59	22.54	22.20						
20	QPSK	50	24	22.28	22.29	22.16	23	1				
20	QPSK	50	50	22.15	22.12	22.18						
20	QPSK	100	0	22.24	22.26	22.22						
20	16QAM	1	0	22.34	22.48	22.33						
20	16QAM	1	49	22.33	22.43	22.30	23	1				
20	16QAM	1	99	22.25	22.36	22.30						
20	16QAM	50	0	21.26	21.39	21.24						
20	16QAM	50	24	21.21	21.27	21.23						
20	16QAM	100	0	21.22	21.24	21.24	22	2				
20	8QAM	1	0	21.25	21.33	21.26						
20	8QAM	1	49	21.25	21.28	21.23						
20	8QAM	1	99	21.17	21.21	21.12						
20	8QAM	50	0	20.32	20.35	20.24	21	3				
20	8QAM	50	24	20.21	20.30	20.27						
20	8QAM	50	50	20.11	20.23	20.10						
20	8QAM	100	0	20.24	20.38	20.31						
20	256QAM	1	0	18.23	18.41	18.30	19	5				
20	256QAM	1	49	18.23	18.38	18.25						
20	256QAM	1	99	18.25	18.39	18.21						
20	256QAM	50	0	18.12	18.29	18.16						
20	256QAM	50	24	18.18	18.27	18.18						
20	256QAM	50	50	18.11	18.20	18.18						
Channel												
Frequency [MHz]												
15	QPSK	1	0	23.73	23.73	23.73	24	0				
15	QPSK	1	37	23.24	23.38	23.25						
15	QPSK	1	74	23.14	23.18	23.12						
15	QPSK	36	0	22.92	22.92	22.13						
15	QPSK	36	20	22.08	22.21	22.05	23	1				
15	QPSK	36	50	22.15	22.29	22.16						
15	QPSK	75	0	22.15	22.23	22.16						
15	16QAM	1	0	22.30	22.34	22.22						
15	16QAM	1	37	22.32	22.36	22.30	23	1				
15	16QAM	1	74	22.17	22.30	22.23						
15	16QAM	36	0	21.15	21.35	21.19						
15	16QAM	36	20	21.25	21.32	21.18						
15	16QAM	36	50	21.08	21.17	21.19	22	2				
15	16QAM	75	0	21.10	21.26	21.18						
15	8QAM	1	74	21.01	21.11	21.02						
15	8QAM	1	37	21.02	21.10	21.02						
15	8QAM	36	20	20.18	20.24	20.18	21	3				
15	8QAM	36	50	20.12	20.18	20.12						
15	8QAM	75	0	20.15	20.27	20.22						
15	256QAM	1	0	18.22	18.37	18.18						
15	256QAM	1	74	18.15	18.24	18.08	19	5				
15	256QAM	36	0	18.08	18.24	18.08						
15	256QAM	36	20	18.12	18.14	18.14						
15	256QAM	36	50	18.07	18.14	17.93						
15	256QAM	75	0	18.15	18.21	18.06						
Channel												
Frequency [MHz]												
10	QPSK	1	0	25.75	25.95	25.15	24	0				
10	QPSK	1	25	23.38	23.33	23.30						
10	QPSK	1	49	23.13	23.21	23.12						
10	QPSK	25	0	22.35	22.39	22.16						
10	QPSK	25	12	22.10	22.18	22.11	23	1				
10	QPSK	25	25	22.03	22.16	22.12						
10	QPSK	50	0	22.25	22.22	22.18						
10	16QAM	1	0	22.31	22.37	22.19						
10	16QAM	1	0	22.27	22.29	22.15	23	1				
10	16QAM	1	49	22.11	22.30	22.21						
10	16QAM	25	0	21.29	21.27	21.22						
10	16QAM	25	12	21.12	21.21	21.11						
10	16QAM	50	0	21.15	21.20	21.18	22	2				
10	16QAM	50	0	21.18	21.22	21.13						
10	8QAM	1	25	21.17	21.14	21.18						
10	8QAM	1	49	21.01	21.09	21.07						
10	8QAM	25	0	20.17	20.24	20.12	21	3				
10	8QAM	25	12	20.13	20.18	20.14						
10	8QAM	25	25	20.04	20.18	20.00						
10	8QAM	50	0	20.22	20.33	20.17						
10	256QAM	1	0	18.27	18.35	18.19	19	5				
10	256QAM	1	25	18.11	18.22	18.22						
10	256QAM	1	49	18.15	18.25	18.07						
10	256QAM	25	0	18.04	18.20	18.01						
10	256QAM	25	12	18.07	18.21	18.05	19	5				
10	256QAM	25	25	18.05	18.12	17.96						
10	256QAM	50	0	18.18	18.15	18.08						
Channel												
Frequency [MHz]												
5	QPSK	1	0	23.35	23.48	23.41	24	0				
5	QPSK	1	12	23.23	23.35	23.31						
5	QPSK	1	24	23.22	23.24	23.29						
5	QPSK	12	0	22.21	22.24	22.10						
5	QPSK	12	7	22.06	22.16	22.11	23	1				
5	QPSK	12	13	22.12	22.08	22.08						
5	QPSK	25	0	22.12	22.19	22.06						
5	QPSK	1	0	22.21	22.43	22.28						
5	16QAM	1	12	22.28	22.37	22.29	23	1				
5	16QAM	1	24	22.21	22.27	22.19						
5	16QAM	12	0	21.24	21.28	21.28						
5	16QAM	12	7	21.11	21.21	21.14						
5	16QAM	12	13	21.12	21.18	21.11	22	2				
5	16QAM	25	0	21.09	21.21	21.17						
5	16QAM	1	0	21.13	21.21	21.19						
5	16QAM	1	12	21.17	21.24	21.18						
5	8QAM	1	24	21.01	21.14	21.02	22	2				
5	8QAM	12	0	20.13	20.22	20.21						
5	8QAM	12	7	20.02	20.23	20.16						
5	8QAM	12	13	19.97	20.18	20.03						
5	8QAM	25	0	20.12	20.33	20.15	21	3				
5	256QAM	1	0	18.18	18.35	18.20						
5	256QAM	1	12	18.14	18.31	18.17						
5	256QAM	1	24	18.13	18.18	18.10						
5	256QAM	12	0	18.09	18.26	18.12	19	5				
5	256QAM	12	7	18.09	18.21	18.14						
5	256QAM	12	13	18.07	18.15	17.99						
5	256QAM	25	0	18.14	18.17	18.02						

Band 41 Ant 3											
RF [MHz]	Modulation	RB Size	RB Offset	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Time-up limit (sec)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.65	23.73	23.61	23.62	23.58	23.58	24	0
20	QPSK	1	49	23.60	23.69	23.60	23.63	23.54			
20	QPSK	1	99	23.56	23.58	23.50	23.50	23.51			
20	QPSK	50	0	22.66	22.72	22.60	22.69	22.58			
20	QPSK	50	24	22.65	22.68	22.75	22.63	22.56		23	1
20	QPSK	50	50	22.60	22.61	22.63	22.64				
20	QPSK	100	0	22.58	22.62	22.75	22.57	22.55			
20	16QAM	1	0	22.66	22.68	22.61	22.66	22.56		23	1
20	16QAM	1	49	22.63	22.64	22.63	22.63	22.53			
20	16QAM	1	99	22.59	22.54	22.69	22.50	22.48			
20	16QAM	50	0	21.71	21.75	21.82	21.62	21.51			
20	16QAM	50	24	21.68	21.75	21.82	21.64	21.59		22	1
20	16QAM	50	50	21.60	21.62	21.70	21.54	21.51			
20	16QAM	100	0	21.58	21.59	21.73	21.55	21.52			
20	16QAM	1	49	21.57	21.68	21.73	21.58	21.58		21	3
20	16QAM	1	99	21.55	21.50	21.85	21.56	21.79			
20	16QAM	50	0	21.53	21.57	21.62	21.52	21.76			
20	16QAM	50	0	20.73	20.76	20.82	20.60	20.57			
20	16QAM	50	24	20.68	20.63	20.77	20.62	20.57		21	3
20	16QAM	50	50	20.60	20.62	20.68	20.58	20.57			
20	16QAM	100	0	20.61	20.66	20.74	20.64	20.53			
20	256QAM	1	0	18.74	18.68	18.91	18.76	18.73		19	5
20	256QAM	1	49	18.75	18.74	18.81	18.67	18.68			
20	256QAM	1	99	18.66	18.67	18.79	18.59	18.59			
20	256QAM	50	0	18.64	18.71	18.81	18.54	18.57			
20	256QAM	50	24	18.57	18.72	18.76	18.59	18.54		19	5
20	256QAM	50	50	18.51	18.54	18.69	18.57	18.58			
20	256QAM	100	0	18.44	18.48	18.62	18.51	18.52			
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.67	23.73	23.61	23.74	23.65		24	0
20	QPSK	1	49	23.48	23.55	23.73	23.57	23.39			
20	QPSK	1	99	23.42	23.46	23.63	23.49	23.35			
20	QPSK	50	0	22.64	22.64	22.74	22.59	22.49			
20	QPSK	50	24	22.54	22.63	22.69	22.56	22.45		23	1
20	QPSK	50	50	22.54	22.56	22.65	22.50	22.33			
20	QPSK	100	0	22.49	22.57	22.67	22.62	22.47			
20	16QAM	1	0	22.54	22.58	22.71	22.52	22.54		23	1
20	16QAM	1	49	22.53	22.62	22.68	22.50	22.47			
20	16QAM	1	99	22.51	22.45	22.58	22.41	22.41			
20	16QAM	50	0	21.64	21.68	21.89	21.64	21.59			
20	16QAM	50	24	21.61	21.61	21.73	21.59	21.52		22	2
20	16QAM	50	50	21.58	21.48	21.55	21.43	21.47			
20	16QAM	100	0	21.56	21.57	21.71	21.54	21.48			
20	16QAM	1	49	21.53	21.39	21.77	21.51	21.81		22	2
20	16QAM	1	99	21.72	21.84	21.94	21.87	21.68			
20	16QAM	50	0	21.73	21.71	21.84	21.71	21.68			
20	16QAM	50	24	20.68	20.69	20.74	20.59	20.58			
20	16QAM	50	50	20.68	20.60	20.83	20.66	20.47		21	3
20	16QAM	50	100	20.48	20.47	20.59	20.48	20.38			
20	16QAM	100	0	20.53	20.51	20.59	20.41	20.42			
20	256QAM	1	0	18.72	18.69	18.91	18.62	18.61		19	5
20	256QAM	1	49	18.60	18.64	18.89	18.59	18.58			
20	256QAM	1	99	18.52	18.56	18.68	18.44	18.43			
20	256QAM	50	0	18.45	18.54	18.54	18.35	18.43			
20	256QAM	50	24	18.39	18.51	18.54	18.34	18.45		19	5
20	256QAM	50	50	18.32	18.36	18.57	18.30	18.38			
20	256QAM	100	0	18.17	18.22	18.36	18.16	18.17			
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.68	23.69	23.73	23.68	23.57		24	0
20	QPSK	1	25	23.55	23.57	23.71	23.56	23.50			
20	QPSK	1	50	23.51	23.56	23.70	23.49	23.49			
20	QPSK	25	0	22.51	22.58	22.75	22.57	22.47			
20	QPSK	25	12	22.57	22.65	22.72	22.50	22.42		23	1
20	QPSK	25	25	22.51	22.52	22.65	22.52	22.38			
20	QPSK	50	0	22.55	22.54	22.67	22.53	22.50			
20	16QAM	1	0	22.60	22.57	22.68	22.57	22.49		23	1
20	16QAM	1	25	22.58	22.59	22.62	22.59	22.47			
20	16QAM	1	49	22.48	22.41	22.59	22.42	22.40			
20	16QAM	25	0	21.65	21.63	21.77	21.54	21.54			
20	16QAM	25	12	21.64	21.64	21.76	21.54	21.47		22	2
20	16QAM	25	25	21.51	21.54	21.58	21.41	21.41			
20	16QAM	50	0	21.58	21.50	21.70	21.51	21.48			
20	16QAM	1	0	21.88	21.90	21.70	21.89	21.81		22	2
20	16QAM	1	25	21.74	21.89	21.88	21.83	21.67			
20	16QAM	1	50	21.75	21.72	21.84	21.74	21.72			
20	16QAM	25	0	20.68	20.66	20.72	20.64	20.48			
20	16QAM	25	12	20.68	20.56	20.88	20.56	20.48		21	3
20	16QAM	25	25	20.44	20.50	20.67	20.46	20.38			
20	16QAM	50	0	20.51	20.59	20.67	20.56	20.39			
20	16QAM	1	0	18.69	18.74	18.85	18.69	18.69		19	5
20	16QAM	1	25	18.52	18.57	18.52	18.50	18.39			
20	256QAM	1	49	18.50	18.60	18.72	18.52	18.49			
20	256QAM	1	99	18.50	18.56	18.68	18.48	18.44			
20	256QAM	25	12	18.45	18.68	18.67	18.55	18.50		19	5
20	256QAM	25	25	18.48	18.59	18.56	18.53	18.49			
20	256QAM	50	0	18.45	18.61	18.55	18.52	18.43			
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.67	23.68	23.72	23.64	23.47		24	0
5	QPSK	1	12	23.48	23.55	23.70	23.60	23.45			
5	QPSK	1	25	23.47	23.50	23.65	23.49	23.49			
5	QPSK	12	0	22.59	22.58	22.73	22.57	22.51			
5	QPSK	12	7	22.58	22.64	22.63	22.52	22.42		23	1
5	QPSK	12	12	22.49	22.57	22.67	22.47	22.33			
5	QPSK	25	0	22.45	22.49	22.59	22.46	22.40			
5	QPSK	1	0	22.69	22.68	22.76	22.53	22.52		23	1
5	QPSK	1	12	22.67	22.65	22.73	22.51	22.42			
5	16QAM	1	24	22.51	22.50	22.59	22.48	22.40			
5	16QAM	12	0	21.62	21.67	21.74	21.49	21.58			
5	16QAM	12	7	21.49	21.64	21.73	21.48	21.53		22	2
5	16QAM	12	12	21.58	21.47	21.61	21.48	21.47			
5	16QAM	1	0	21.83	21.53	21.63	21.51	21.48			
5	16QAM	1	0	21.88	21.93	21.97	21.89	21.77		22	2
5	16QAM	1	12	21.74	21.82	21.91	21.80	21.72			
5	16QAM	1	24	21.68	21.72	21.77	21.69	21.68			
5	16QAM	12	0	20.63	20.72	20.75	20.62	20.49			
5	16QAM	12	7	20.53	20.58	20.59	20.45	20.48		21	3
5	16QAM	12	12	20.51	20.56	20.59	20.51	20.39			
5	16QAM	25	0	20.37	20.60	20.61	20.57	20.48			
5	256QAM	1	0	18.73	18.78	18.77	18.63	18.63		19	5
5	256QAM	1	12	18.69	18.71	18.81	18.73	18.61			
5	256QAM	1	24	18.62	18.54	18.68	18.46	18.49			
5	256QAM	12	0	18.40	18.49	18.48	18.35	18.32			
5	256QAM	12	7	18.43	18.62	18.63	18.51	18.44		19	5
5	256QAM	12	12	18.37	18.52	18.63	18.46	18.44			
5	256QAM	25	0	18.35	18.68	18.66	18.55	18.43			



Band 42 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Peak Ch / Freq	Power Max Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.37	21.38	21.35			
20	QPSK	1	48	21.12	21.19	21.14		22.6	0
20	QPSK	1	96	21.10	21.28	21.20			
20	QPSK	50	0	21.29	21.32	21.16			
20	QPSK	50	24	21.09	21.12	20.98		22.6	0
20	QPSK	50	50	21.13	21.10	21.05			
20	QPSK	100	0	21.20	21.31	21.27			
20	16QAM	1	0	21.29	21.27	21.23		22.6	0
20	16QAM	1	48	21.08	21.10	21.05			
20	16QAM	1	96	21.13	21.23	21.19			
20	16QAM	50	0	20.99	21.02	20.94			
20	16QAM	50	24	20.87	20.97	20.92		22	0.6
20	16QAM	50	50	20.83	20.90	20.86			
20	16QAM	100	0	21.01	21.09	21.07			
20	64QAM	1	0	21.08	21.12	21.05			
20	64QAM	1	48	21.00	21.07	20.92		22	0.6
20	64QAM	1	96	20.86	21.00	20.90			
20	64QAM	50	0	19.88	19.99	19.94			
20	64QAM	50	24	19.80	19.94	19.90		21	1.6
20	64QAM	50	50	19.78	19.87	19.77			
20	64QAM	100	0	19.99	20.08	19.92			
20	256QAM	1	0	18.02	18.13	17.98			
20	256QAM	1	48	18.02	18.08	18.01		19	3.6
20	256QAM	1	96	17.96	18.01	17.90			
20	256QAM	50	0	17.93	18.00	17.92			
20	256QAM	50	24	17.95	18.05	17.92		19	3.6
20	256QAM	50	50	17.91	17.98	17.84			
20	256QAM	100	0	17.80	17.90	17.85			
Channel									
Frequency (MHz)									
16	QPSK	1	0	21.24	21.22	21.21			
16	QPSK	1	37	21.05	21.04	21.09		22.6	0
16	QPSK	1	74	21.15	21.17	21.09			
16	QPSK	36	0	21.12	21.20	21.08			
16	QPSK	36	20	21.07	20.99	20.87		22.6	0
16	QPSK	36	36	21.00	21.00	21.00			
16	QPSK	75	0	21.08	21.15	21.21			
16	16QAM	1	0	21.20	21.12	21.18			
16	16QAM	1	37	21.06	21.03	21.00		22.6	0
16	16QAM	1	74	20.98	21.10	21.00			
16	16QAM	36	0	20.84	20.87	20.85			
16	16QAM	36	20	20.82	20.80	20.75		22	0.6
16	16QAM	36	36	20.78	20.86	20.78			
16	16QAM	75	0	20.84	21.02	20.94			
16	64QAM	1	0	21.04	20.99	21.00			
16	64QAM	1	37	20.88	20.99	20.87		22	0.6
16	64QAM	1	74	20.85	20.91	20.90			
16	64QAM	36	0	19.84	19.95	19.82			
16	64QAM	36	20	19.86	19.91	19.82		21	1.6
16	64QAM	36	36	19.81	19.88	19.80			
16	64QAM	75	0	19.97	19.99	19.92			
16	256QAM	1	0	17.85	18.09	17.85			
16	256QAM	1	37	17.85	17.85	17.85		19	3.6
16	256QAM	1	74	17.85	17.85	17.85			
16	256QAM	36	0	17.87	17.84	17.79			
16	256QAM	36	20	17.77	17.90	17.89		19	3.6
16	256QAM	36	37	17.77	17.90	17.89			
16	256QAM	75	0	17.83	17.87	17.80			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.08	21.08	21.08			
10	QPSK	1	25	21.08	21.05	21.10		22.6	0
10	QPSK	1	49	21.15	21.11	21.05			
10	QPSK	25	0	21.07	21.04	20.95			
10	QPSK	25	25	21.10	20.93	21.03		22.6	0
10	QPSK	50	0	21.07	21.18	21.11			
10	16QAM	1	0	21.14	21.21	21.18			
10	16QAM	1	25	20.99	21.04	20.96		22.6	0
10	16QAM	1	49	20.96	21.12	21.10			
10	16QAM	25	0	20.88	20.91	20.86			
10	16QAM	25	25	20.78	20.87	20.79		22	0.6
10	16QAM	50	0	20.76	20.87	20.84			
10	16QAM	50	25	20.78	20.82	20.75			
10	64QAM	1	0	20.87	20.98	20.97			
10	64QAM	1	25	20.83	20.89	20.93		22.6	0
10	64QAM	1	49	21.03	21.03	20.94			
10	64QAM	25	0	20.79	20.90	20.79			
10	64QAM	25	25	20.65	20.81	20.79		22	0.6
10	64QAM	50	0	20.74	20.80	20.78			
10	64QAM	50	25	20.88	20.88	20.81			
10	64QAM	1	0	20.97	20.98	20.97			
10	64QAM	1	25	20.77	20.87	20.81		22	0.6
10	64QAM	1	49	20.71	20.81	20.76			
10	64QAM	25	0	19.80	19.78	19.82			
10	64QAM	25	25	19.82	19.83	19.89		21	1.6
10	64QAM	50	0	19.70	19.78	19.81			
10	256QAM	1	0	17.90	17.89	17.78			
10	256QAM	1	25	17.97	18.03	17.92		19	3.6
10	256QAM	1	49	17.82	17.82	17.76			
10	256QAM	25	0	17.81	17.81	17.83			
10	256QAM	25	25	17.70	17.80	17.86		19	3.6
10	256QAM	25	25	17.82	17.85	17.75			
10	256QAM	50	0	17.72	17.85	17.74			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.13	21.11	21.16			
5	QPSK	1	14	21.01	21.04	20.95		22.6	0
5	QPSK	1	24	20.95	21.14	20.99			
5	QPSK	12	0	21.08	21.23	20.98			
5	QPSK	12	7	20.93	20.92	20.95		22.6	0
5	QPSK	12	13	20.97	20.97	20.99			
5	QPSK	25	0	20.98	21.16	21.17			
5	16QAM	1	0	21.14	21.08	21.14			
5	16QAM	1	12	21.01	20.97	20.98		22.6	0
5	16QAM	1	24	20.96	21.06	20.96			
5	16QAM	12	0	20.86	20.77	20.69			
5	16QAM	12	7	20.71	20.77	20.83		22	0.6
5	16QAM	12	13	20.61	20.78	20.78			
5	16QAM	25	0	20.94	20.90	20.84			
5	16QAM	25	1	20.92	20.69	20.90		22	0.6
5	64QAM	1	0	20.86	20.92	20.74			
5	64QAM	1	24	20.64	20.86	20.71			
5	64QAM	12	0	19.64	19.87	19.82			
5	64QAM	12	7	19.57	19.74	19.70		21	1.6
5	64QAM	12	13	19.67	19.68	19.66			
5	64QAM	25	0	19.81	19.81	19.76			
5	256QAM	1	0	17.94	17.97	17.75			
5	256QAM	1	12	17.85	18.04	17.79		19	3.6
5	256QAM	1	24	17.71	17.86	17.78			
5	256QAM	12	0	17.80	17.91	17.88			
5	256QAM	12	7	17.83	17.99	17.76		19	3.6
5	256QAM	12	13	17.69	17.82	17.70			
5	256QAM	25	0	17.71	18.00	17.70			

Band 42 Part 96 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Peak Ch / Freq	Power Max Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				43100	43340	43460			
20	QPSK	1	0	21.21	21.22	21.23			
20	QPSK	1	48	21.05	21.19	21.08		22.6	0
20	QPSK	1	96	21.00	21.16	21.13			
20	QPSK	50	0	21.16	21.24	21.08			
20	QPSK	50	24	21.01	20.97	20.95		22.6	0
20	QPSK	50	50	21.11	21.06	21.05			
20	QPSK	100	0	21.13	21.23	21.22			
20	16QAM	1	0	21.21	21.19	21.15		22.6	0
20	16QAM	1	48	21.06	21.10	21.05			
20	16QAM	1	96	21.06	21.14	21.05			
20	16QAM	50	0	20.95	20.91	20.83			
20	16QAM	50	24	20.87	20.82	20.85		22	0.6
20	16QAM	50	50	20.85	20.83	20.84			
20	16QAM	100	0	21.05	21.05	21.05			
20	64QAM	1	0	21.05	21.01	21.04			
20	64QAM	1	48	20.84	20.86	20.82		22	0.6
20	64QAM	1	96	20.75	20.82	20.84			
20	64QAM	50	0	19.77	19.89	19.74			
20	64QAM	50	24	19.65	19.89	19.85		21	1.6
20	64QAM	50	50	19.74	19.84	19.87			
20	64QAM	100	0	19.86	19.95	19.79			
20	256QAM	1	0	18.00	17.98	17.90			
20	256QAM	1	48	17.99	18.07	17.93		19	3.6
20	256QAM	1	96	17.83	17.97	17.80			
20	256QAM	50	0	17.85	18.00	17.84			
20	256QAM	50	24	17.85	18.00	17.85		19	3.6
20	256QAM	50	50	17.86	17.93	17.85			
20	256QAM	100	0	17.79	18.01	17.77			
Channel				43160	43340	43516	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				43160	43340	43516			
15	QPSK	1	0	21.21	21.22	21.23			
15	QPSK	1	37	20.98	21.17	20.98		22.6	0
15	QPSK	1	74	21.04	21.01	21.03			
15	QPSK	50	0	21.04	21.23	21.05			
15	QPSK	50	20	20.96	20.93	20.82		22.6	0
15	QPSK	50	50	20.96	20.93	21.04			
15	QPSK	75	0	21.02	21.12	21.09			
15	16QAM	1	0	21.07	21.05	20.99		22.6	0
15	16QAM	1	37	20.99	21.00	21.00			
15	16QAM	1	74	20.95	21.08	20.99			
15	16QAM	50	0	20.83	20.89	20.74			
15	16QAM	50	20	20.69	20.77	20.82		22	0.6
15	16QAM	50	50	20.78	20.79	20.77			
15	16QAM	75	0	20.84	20.90	20.94			
15	64QAM	1	37	20.80	20.87	20.76		22	0.6
15	64QAM	1	74	20.82	20.87	20.73			
15	64QAM	50	0	19.65	19.89	19.83			
15	64QAM	50	20	19.65	19.86	19.75		21	1.6
15	64QAM	50	50	19.61	19.89	19.74			
15	64QAM	75	0	19.82	19.89	19.84			
15	256QAM	1	37	17.85	18.07	17.85		19	3.6
15	256QAM	1	74	17.89	18.05	17.72			
15	256QAM	50	0	17.85	17.93	17.75			
15	256QAM	50	20	17.70	18.02	17.85		19	3.6
15	256QAM	50	50	17.89	17.86	17.85			
15	256QAM	75	0	17.89	17.93	17.77			
Channel				43140	43340	43540	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				43140	43340	43540			
10	QPSK	1	0	21.13	21.19	21.16			
10	QPSK	1	25	21.01	21.14	21.02		22.6	0
10	QPSK	1	50	20.94	21.03	21.05			
10	QPSK	25	0	21.13	21.23	21.05			
10	QPSK	25	12	20.96	20.90	20.94		22.6	0
10	QPSK	25	37	20.96	20.90	20.97			
10	QPSK	50	0	20.99	21.08	21.01			
10	16QAM	1	0	21.07	21.11	21.02		22.6	0
10	16QAM	1	25	20.93	20.96	20.95			
10	16QAM	1	49	21.03	21.03	21.04			
10	16QAM	25	0	20.79	20.90	20.70			
10	16QAM	25	12	20.65	20.81	20.79		22	0.6
10	16QAM	25	25	20.74	20.85	20.71			
10	16QAM	25	37	20.86	20.86	20.86			
10	64QAM	1	0	20.97	20.98	20.97			
10	64QAM	1	25	20.77	20.87	20.81		22	0.6
10	64QAM	1	49	20.93	20.97	20.97			
10	64QAM	25	0	19.66	19.79	19.62			
10	64QAM	25	12	19.52	19.83	19.69		21	1.6
10	64QAM	25	25	19.70	19.87	19.81			
10	64QAM	50	0	19.81	19.91	19.82			
10	256QAM	1	0	17.86	17.91	17.79			
10	256QAM	1	25	17.87	18.03	17.82		19	3.6
10	256QAM	1	49	17.82	17.82	17.82			
10	256QAM	25	0	17.81	17.86	17.83			
10	256QAM	25	12	17.70	17.89	17.66		19	3.6
10	256QAM	25	25	17.88	17.85	17.79			
10	256QAM	50	0	17.79	17.85	17.74			
Channel				43116	43340	43560	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				43116	43340	43560			
5	QPSK	1	0	21.13	21.11	21.16			
5	QPSK	1	12	21.01	21.04	21.05		22.6	0
5	QPSK	1	24	20.94	21.03	21.05			
5	QPSK	12	0	21.09	21.22	20.95			
5	QPSK	12	7	20.93	20.93	20.98		22.6	0
5	QPSK	14	0	20.98	21.05	21.05			
5	16QAM	1	0	21.14	21.16	21.14		22.6	0
5	16QAM	1	12	21.07	21.07	21.06			
5	16QAM	1	24	20.99	21.05	20.96			
5	16QAM	12	0	20.96	21.07	20.99			
5	16QAM	12	7	20.71	20.77	20.83		22	0.6
5	16QAM	12	13	20.87	20.78	20.78			
5	64QAM	1	0	20.93	20.94	20.94			
5	64QAM	1	12	20.86	20.92	20.74		22	0.6
5	64QAM	1	24	20.87	20.91	20.91			
5	64QAM	12	0	19.67	19.68	19.68			
5	64QAM	12	13	19.83	19.91	19.75		21	1.6
5	256QAM	1	0	17.84	17.84	17.84			
5	256QAM	1	12	17.85	18.04	17.79		19	3.6
5	256QAM	1	24	17.71	18.06	17.78			
5	256QAM	12	0	17.80	17.84	17.68			
5	256QAM	12	7	17.83	17.89	17.76		19	3.6
5	256QAM	12	13	17.86	17.82	17.74			
5	256QAM	12	14	17.71	18.05	17.72			

Band 48 Ant 3									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Mod Ch / Freq	Power Low Mod Ch / Freq	Power High Mod Ch / Freq	Power High Mod Ch / Freq	Tune-up time (dBm)	MPE (dB)
Channel				56940	56950	56100	56640	Tune-up time (dBm)	MPE (dB)
Frequency (MHz)				56940	56950	56100	56640		
20	QPSK	1	0	21.60	21.60	21.53	21.59	22.7	0
20	QPSK	1	40	21.55	21.67	21.53	21.48		
20	QPSK	1	80	21.45	21.61	21.49	21.56		
20	QPSK	50	0	21.60	21.63	21.57	21.45		
20	QPSK	50	24	21.52	21.61	21.58	21.50	22.7	0
20	QPSK	50	50	21.40	21.46	21.39	21.35		
20	QPSK	100	0	21.48	21.57	21.47	21.42		
20	16QAM	1	0	21.56	21.60	21.46	21.58	22.7	0
20	16QAM	1	40	21.48	21.54	21.45	21.41		
20	16QAM	1	90	21.35	21.56	21.37	21.23		
20	16QAM	50	0	21.40	21.62	21.46	21.51		
20	16QAM	50	24	21.49	21.62	21.45	21.37	22.7	0
20	16QAM	50	50	21.52	21.59	21.39	21.46		
20	16QAM	100	0	21.46	21.42	21.50	21.52		
20	64QAM	1	0	21.49	21.50	21.47	21.42	22.7	0
20	64QAM	1	40	21.27	21.53	21.39	21.24		
20	64QAM	1	90	21.54	21.61	21.46	21.39		
20	64QAM	50	0	21.35	21.45	21.32	21.28		
20	64QAM	50	24	21.32	21.40	21.28	21.23	22	0.7
20	64QAM	50	50	21.18	21.33	21.20	21.20		
20	64QAM	100	0	21.27	21.39	21.36	21.26		
20	256QAM	1	0	19.34	19.44	19.37	19.22	20	2.7
20	256QAM	1	40	19.35	19.29	19.34	19.15		
20	256QAM	1	90	19.27	19.32	19.23	19.07		
20	256QAM	50	0	19.33	19.41	19.27	19.21		
20	256QAM	50	24	19.29	19.36	19.23	19.21	20	2.7
20	256QAM	50	50	19.20	19.29	19.16	19.13		
20	256QAM	100	0	19.25	19.26	19.24	19.20		
Channel				56915	56920	56100	56640	Tune-up time (dBm)	MPE (dB)
Frequency (MHz)				56915	56920	56100	56640		
15	QPSK	1	0	21.44	21.54	21.43	21.57	22.7	0
15	QPSK	1	37	21.42	21.65	21.40	21.43		
15	QPSK	1	74	21.29	21.48	21.42	21.33		
15	QPSK	36	0	21.62	21.57	21.60	21.40		
15	QPSK	36	20	21.47	21.47	21.44	21.43	22.7	0
15	QPSK	36	40	21.33	21.44	21.36	21.31		
15	QPSK	75	0	21.43	21.48	21.44	21.24		
15	16QAM	1	0	21.44	21.48	21.41	21.49	22.7	0
15	16QAM	1	37	21.26	21.39	21.31	21.29		
15	16QAM	1	74	21.24	21.42	21.35	21.12		
15	16QAM	36	0	21.37	21.49	21.38	21.35		
15	16QAM	36	20	21.43	21.26	21.40	21.34	22.7	0
15	16QAM	36	36	21.44	21.42	21.19	21.44		
15	16QAM	75	0	21.46	21.51	21.34	21.39		
15	64QAM	1	0	21.44	21.43	21.37	21.38		
15	64QAM	1	37	21.17	21.45	21.31	21.21	22.7	0
15	64QAM	1	74	21.38	21.47	21.26	21.21		
15	64QAM	36	0	21.27	21.39	21.27	21.18		
15	64QAM	36	20	21.21	21.34	21.20	21.14		
15	64QAM	36	36	21.11	21.34	21.07	21.14	22	0.7
15	64QAM	75	0	21.19	21.25	21.25	21.21		
15	256QAM	1	0	19.23	19.40	19.22	19.14		
15	256QAM	1	37	19.26	19.29	19.26	19.02	20	2.7
15	256QAM	1	74	19.19	19.26	19.19	19.01		
15	256QAM	36	0	19.22	19.35	19.20	19.13		
15	256QAM	36	20	19.24	19.32	19.11	19.15		
15	256QAM	36	36	19.17	19.28	19.07	19.10	15	
15	256QAM	75	0	19.24	19.32	19.12	19.13		
Channel				56905	56915	56100	56640	Tune-up time (dBm)	MPE (dB)
Frequency (MHz)				56905	56915	56100	56640		
10	QPSK	1	0	21.50	21.40	21.40	21.52	22.7	0
10	QPSK	1	25	21.47	21.56	21.41	21.20		
10	QPSK	1	40	21.43	21.55	21.32	21.22		
10	QPSK	25	0	21.42	21.33	21.54	21.41		
10	QPSK	25	12	21.43	21.56	21.53	21.42	22.7	0
10	QPSK	25	25	21.37	21.34	21.29	21.18		
10	QPSK	50	0	21.38	21.39	21.35	21.35		
10	16QAM	1	0	21.60	21.45	21.29	21.46		
10	16QAM	1	25	21.40	21.48	21.36	21.32	22.7	0
10	16QAM	1	40	21.26	21.40	21.28	21.19		
10	16QAM	25	0	21.41	21.42	21.41	21.38		
10	16QAM	25	12	21.37	21.48	21.42	21.20		
10	16QAM	25	25	21.42	21.51	21.17	21.33	22.7	0
10	16QAM	50	0	21.45	21.50	21.33	21.51		
10	64QAM	1	0	21.37	21.41	21.20	21.58		
10	64QAM	1	25	21.13	21.42	21.39	21.08	22.7	0
10	64QAM	1	40	21.40	21.68	21.35	21.27		
10	64QAM	25	0	21.21	21.41	21.10	21.15		
10	64QAM	25	12	21.24	21.29	21.20	21.15	22	0.7
10	64QAM	25	25	21.12	21.29	21.05	21.16		
10	64QAM	50	0	21.13	21.32	21.30	21.20		
10	256QAM	1	0	19.28	19.32	19.26	19.13		
10	256QAM	1	40	19.21	19.45	19.26	19.06	20	2.7
10	256QAM	1	40	19.12	19.17	19.11	19.06		
10	256QAM	25	0	19.28	19.27	19.20	19.07		
10	256QAM	25	12	19.34	19.29	19.26	19.15		
10	256QAM	25	25	19.15	19.22	19.15	19.02	20	2.7
10	256QAM	50	0	19.19	19.24	19.20	19.16		
Channel				56905	56910	56425	56975	Tune-up time (dBm)	MPE (dB)
Frequency (MHz)				56905	56910	56425	56975		
5	QPSK	1	0	21.49	21.60	21.46	21.43	22.7	0
5	QPSK	1	12	21.40	21.56	21.46	21.36		
5	QPSK	1	24	21.34	21.45	21.44	21.25		
5	QPSK	12	0	21.49	21.50	21.49	21.48		
5	QPSK	12	7	21.38	21.45	21.44	21.35	22.7	0
5	QPSK	12	13	21.34	21.32	21.34	21.17		
5	QPSK	25	0	21.33	21.41	21.33	21.26		
5	16QAM	1	0	21.45	21.49	21.42	21.40		
5	16QAM	1	12	21.33	21.45	21.42	21.38	22.7	0
5	16QAM	1	24	21.21	21.24	21.20	21.19		
5	16QAM	12	0	21.37	21.42	21.32	21.46		
5	16QAM	12	7	21.45	21.62	21.39	21.21		
5	16QAM	12	13	21.47	21.42	21.28	21.35	22.7	0
5	16QAM	25	0	21.39	21.07	21.40	21.36		
5	64QAM	1	0	21.44	21.45	21.43	21.28		
5	64QAM	1	12	21.11	21.49	21.30	21.20	22.7	0
5	64QAM	1	24	21.49	21.53	21.38	21.37		
5	64QAM	12	0	21.31	21.40	21.29	21.13		
5	64QAM	12	7	21.17	21.29	21.25	21.08		
5	64QAM	12	13	21.09	21.22	21.08	21.08	22	0.7
5	64QAM	25	0	21.14	21.35	21.30	21.15		
5	256QAM	1	0	19.31	19.36	19.27	19.12		
5	256QAM	1	12	19.31	19.34	19.31	19.12	20	2.7
5	256QAM	1	24	19.22	19.29	19.15	19.01		
5	256QAM	12	0	19.26	19.28	19.16	19.15		
5	256QAM	12	7	19.23	19.24	19.05	19.14		
5	256QAM	12	13	19.13	19.25	19.02	19.09	20	2.7
5	256QAM	25	0	19.17	19.27	19.16	19.13		

Reduced Power Mode for DSI6-Simultaneous

GSM850 Ant 0		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		524.2	839.4	818.8	(dBm)	524.2	839.4	818.8	
GSM 1 Tx slot		33.20	33.32	33.28		24.20	24.32	24.28	24.50
GPRS 1 Tx slot		33.25	33.39	33.31	33.50	24.25	24.39	24.31	24.50
GPRS 2 Tx slots		30.42	30.54	30.50	31.00	24.42	24.54	24.50	25.00
GPRS 3 Tx slots		28.88	28.92	28.84	29.50	24.62	24.66	24.58	25.24
GPRS 4 Tx slots		27.25	27.38	27.30	28.00	24.25	24.38	24.30	25.00
EDGE 1 Tx slot		26.18	26.24	26.10	27.00	17.18	17.24	17.10	18.00
EDGE 2 Tx slots		24.41	24.49	24.45	25.00	18.41	18.49	18.45	19.00
EDGE 3 Tx slots		23.12	23.25	23.10	24.00	18.86	18.99	18.84	19.74
EDGE 4 Tx slots		21.20	21.27	21.18	22.00	18.20	18.27	18.18	19.00

GSM1900 Ant 0		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	
GSM 1 Tx slot		28.65	28.68	28.60		19.65	19.68	19.60	20.00
GPRS 1 Tx slot		28.69	28.74	28.63	29.00	19.69	19.74	19.63	20.00
GPRS 2 Tx slots		25.35	25.39	25.31	26.00	19.35	19.39	19.31	20.00
GPRS 3 Tx slots		22.96	23.07	22.96	24.50	18.70	18.81	18.70	20.24
GPRS 4 Tx slots		21.28	21.38	21.27	22.50	18.28	18.38	18.27	19.50
EDGE 1 Tx slot		23.50	23.57	23.43	24.50	14.50	14.57	14.43	15.50
EDGE 2 Tx slots		21.83	21.87	21.80	23.00	15.83	15.87	15.80	17.00
EDGE 3 Tx slots		20.69	20.74	20.61	22.00	16.43	16.48	16.35	17.74
EDGE 4 Tx slots		18.46	18.57	18.52	20.00	15.46	15.57	15.52	17.00

Band		WCDMA V Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			Tune-up Limit (dBm)
TX Channel		1312	1413	1513		4132	4182	4233	
Rx Channel		1537	1638	1738	(dBm)	4357	4407	4458	
Frequency (MHz)		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.80	21.92	21.87	23.00	23.65	23.72	23.63	24.00
3GPP Rel 99	RMC 12.2Kbps	21.85	21.99	21.93	23.00	23.71	23.78	23.66	24.00
3GPP Rel 6	HSDPA Subtest-1	21.11	21.15	21.00	22.00	22.89	22.84	22.83	23.00
3GPP Rel 6	HSDPA Subtest-2	20.97	21.09	20.97	22.00	22.77	22.91	22.84	23.00
3GPP Rel 6	HSDPA Subtest-3	20.50	20.61	20.51	21.50	22.30	22.43	22.33	22.50
3GPP Rel 6	HSDPA Subtest-4	20.41	20.62	20.49	21.50	22.24	22.41	22.37	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.03	21.13	20.88	22.00	22.89	22.73	22.75	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.84	20.95	20.75	22.00	22.65	22.79	22.59	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.45	20.42	20.34	21.50	22.26	22.26	22.21	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.33	20.49	20.49	21.50	22.16	22.29	22.31	22.50
3GPP Rel 6	HSUPA Subtest-1	21.10	21.06	21.04	22.00	22.90	22.94	22.94	23.00
3GPP Rel 6	HSUPA Subtest-2	19.02	19.14	18.97	20.00	20.89	20.97	20.75	21.00
3GPP Rel 6	HSUPA Subtest-3	19.96	20.03	20.05	21.00	21.79	21.92	21.93	22.00
3GPP Rel 6	HSUPA Subtest-4	18.90	19.07	19.05	20.00	20.77	20.87	20.83	21.00
3GPP Rel 6	HSUPA Subtest-5	21.06	20.90	20.94	22.00	22.85	22.76	22.74	23.00



Band 4 Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MFR (dB)				
Channel												
20055 20175 20395												
20	QPSK	1	0	20.26	20.30	20.32	21	0				
20	QPSK	14	0	20.14	20.23	20.14						
20	QPSK	1	99	20.11	20.16	20.04						
20	QPSK	50	0	19.23	19.37	19.22	20	1				
20	QPSK	50	24	19.21	19.24	19.24						
20	QPSK	50	50	19.18	19.25	19.12						
20	QPSK	100	0	19.19	19.32	19.25	20	1				
20	HQAM	1	99	19.16	19.26	19.15						
20	HQAM	1	49	19.12	19.25	19.19						
20	HQAM	1	99	19.08	19.15	19.03	19	2				
20	HQAM	50	0	18.43	18.49	18.41						
20	HQAM	50	24	18.38	18.51	18.38						
20	HQAM	50	50	18.40	18.49	18.43	18	3				
20	HQAM	100	0	18.48	18.61	18.57						
20	HQAM	1	0	18.29	18.36	18.21						
20	HQAM	1	49	18.37	18.43	18.31	19	2				
20	HQAM	1	99	18.12	18.25	18.10						
20	HQAM	50	0	17.30	17.43	17.35						
20	HQAM	50	24	17.34	17.46	17.37	18	3				
20	HQAM	50	50	17.22	17.30	17.25						
20	HQAM	100	0	17.37	17.41	17.27						
20	256QAM	1	0	15.40	15.51	15.47	16	5				
20	256QAM	1	99	15.36	15.39	15.32						
20	256QAM	50	0	15.34	15.37	15.30						
20	256QAM	50	24	15.42	15.45	15.38	16	5				
20	256QAM	50	50	15.14	15.26	15.11						
20	256QAM	100	0	15.27	15.30	15.25						
20055 20175 20395												
Channel												
16	QPSK	1	0	20.18	20.27	20.12	21	0				
16	QPSK	14	0	20.14	20.24	20.04						
16	QPSK	1	74	20.07	20.04	19.96						
16	QPSK	36	36	19.15	19.32	19.21	20	1				
16	QPSK	75	0	19.29	19.39	19.21						
16	HQAM	1	99	19.21	19.29	19.22						
16	HQAM	1	37	19.18	19.35	19.27	20	1				
16	HQAM	1	74	19.16	19.24	19.32						
16	HQAM	36	0	18.37	18.36	18.37						
16	HQAM	36	20	18.25	18.43	18.28	19	2				
16	HQAM	36	50	18.40	18.57	18.46						
16	HQAM	1	0	18.21	18.32	18.07						
16	HQAM	1	9	18.30	18.41	18.15	19	2				
16	HQAM	1	74	17.97	18.17	17.98						
16	HQAM	36	0	17.17	17.32	17.21						
16	HQAM	36	20	17.36	17.43	17.32	18	3				
16	HQAM	36	50	17.17	17.23	17.19						
16	HQAM	75	0	17.28	17.31	17.21						
16	HQAM	1	0	15.31	15.38	15.17	16	5				
16	256QAM	1	37	15.13	15.24	15.17						
16	256QAM	1	74	15.26	15.31	15.25						
16	256QAM	36	0	15.34	15.36	15.32	16	5				
16	256QAM	36	20	15.28	15.37	15.26						
16	256QAM	36	50	15.07	15.18	15.11						
16	256QAM	75	0	15.19	15.31	15.15						
20055 20175 20395												
Channel												
10	QPSK	1	0	20.16	20.25	20.10	21	0				
10	QPSK	1	26	20.18	20.21	20.15						
10	QPSK	1	49	20.01	20.12	19.93						
10	QPSK	25	12	19.22	19.40	19.32	20	1				
10	QPSK	25	25	19.21	19.31	19.20						
10	QPSK	25	38	19.24	19.32	19.26						
10	HQAM	1	0	19.21	19.33	19.20	20	1				
10	HQAM	1	26	19.23	19.32	19.27						
10	HQAM	12	0	18.32	18.37	18.21						
10	HQAM	25	0	18.36	18.39	18.34	19	2				
10	HQAM	25	12	18.31	18.39	18.34						
10	HQAM	25	25	18.38	18.55	18.38						
10	HQAM	50	0	18.41	18.50	18.52	19	2				
10	HQAM	1	0	18.16	18.23	18.09						
10	HQAM	1	8	18.27	18.33	18.15						
10	HQAM	1	49	18.09	18.18	17.98	18	3				
10	HQAM	25	0	17.24	17.36	17.32						
10	HQAM	25	12	17.25	17.36	17.32						
10	HQAM	25	25	17.11	17.21	17.17	16	5				
10	HQAM	50	0	17.31	17.31	17.22						
10	HQAM	50	12	17.38	17.47	17.37						
10	256QAM	1	26	15.18	15.24	15.22	16	5				
10	256QAM	1	49	15.20	15.25	15.24						
10	256QAM	25	0	15.34	15.35	15.24						
10	256QAM	25	12	15.36	15.38	15.36	16	5				
10	256QAM	25	25	15.09	15.14	15.05						
10	256QAM	50	0	15.13	15.21	15.14						
19695 20175 20395												
Channel												
5	QPSK	1	0	20.22	20.23	20.12	21	0				
5	QPSK	1	12	20.20	20.26	20.05						
5	QPSK	1	24	20.08	20.16	19.93						
5	QPSK	12	0	19.34	19.45	19.33	20	1				
5	QPSK	12	7	19.23	19.32	19.33						
5	QPSK	12	14	19.24	19.31	19.22						
5	QPSK	25	0	19.25	19.42	19.25	20	1				
5	QPSK	25	1	19.27	19.28	19.18						
5	HQAM	1	0	19.20	19.33	19.22						
5	HQAM	1	24	19.17	19.24	19.08	20	1				
5	HQAM	12	0	18.36	18.37	18.27						
5	HQAM	12	7	18.30	18.46	18.30						
5	HQAM	12	13	18.41	18.38	18.39	19	2				
5	HQAM	25	0	18.40	18.53	18.50						
5	HQAM	25	1	18.17	18.21	18.14						
5	HQAM	1	24	18.26	18.40	18.24	19	2				
5	HQAM	1	12	17.97	18.11	17.97						
5	HQAM	12	7	17.28	17.33	17.27						
5	HQAM	12	13	17.12	17.17	17.06	18	3				
5	HQAM	12	19	17.31	17.27	17.17						
5	HQAM	1	0	15.37	15.40	15.33						
5	256QAM	1	12	15.16	15.29	15.21	16	5				
5	256QAM	1	24	15.24	15.31	15.27						
5	256QAM	12	0	15.32	15.36	15.30						
5	256QAM	12	7	15.29	15.41	15.30	16	5				
5	256QAM	12	13	15.15	15.21	15.12						
5	256QAM	25	0	15.28	15.31	15.12						
19695 20175 20395												
Channel												
3	QPSK	1	0	20.18	20.28	20.15	21	0				
3	QPSK	1	8	20.19	20.24	20.11						
3	QPSK	1	14	20.04	20.10	19.99						
3	QPSK	8	0	19.33	19.37	19.24	20	1				
3	QPSK	8	4	19.24	19.37	19.30						
3	QPSK	8	7	19.31	19.32	19.14						
3	QPSK	15	0	19.30	19.38	19.28	20	1				
3	HQAM	1	0	19.26	19.33	19.21						
3	HQAM	1	8	19.21	19.25	19.21						
3	HQAM	1	14	19.16	19.15	19.04	19	2				
3	HQAM	8	0	18.38	18.46	18.31						
3	HQAM	8	4	18.29	18.44	18.29						
3	HQAM	8	7	18.32	18.42	18.30	19	2				
3	HQAM	15	0	18.44	18.47	18.45						
3	HQAM	1	0	18.14	18.21	18.07						
3	HQAM	1	8	18.30	18.39	18.24	18	3				
3	HQAM	1	14	18.07	18.15	17.99						
3	HQAM	8	4	17.23	17.35	17.24						
3	HQAM	8	7	17.10	17.18	17.21	16	5				
3	HQAM	15	0	15.37	15.37	15.43						
3	256QAM	1	8	15.16	15.33	15.24						
3	256QAM	1	15	15.30	15.29	15.15	16	5				
3	256QAM	8	4	15.32	15.30	15.26						
3	256QAM	8	4	15.28	15.41	15.22						
3	256QAM	8	7	15.09	15.18	15.07	16	5				
3	256QAM	15	0	15.21	15.28	15.13						
3	256QAM	15	0	15.21	15.28	15.13						
19695 20175 20395												
Channel												
1.4	QPSK	1	0	20.22	20.26	20.13	21	0				
1.4	QPSK	1	3	20.09	20.21	20.07						
1.4	QPSK	1	8	19.96	20.01	19.90						
1.4	QPSK	3	0	20.22	20.23	20.14	20	1				
1.4	QPSK	3	1	20.13	20.16	20.13						
1.4	QPSK	3	8	20.04	20.06	19.90						
1.4	HQAM	1	0	19.31	19.36	19.27	20	1				
1.4	HQAM	1	3	19.27	19.40	19.33						
1.4	HQAM	1	8	19.24	19.40	19.25						
1.4	HQAM	3	0	19.20	19.37	19.25	19	2				
1.4	HQAM	3	1	19.14	19.27	19.17						
1.4	HQAM	3	1	19.12	19.23	19.17	19	2				
1.4	HQAM	3	8	18.38	18.48	18.45						
1.4	HQAM	3	0	18.29	18.41	18.25						
1.4	HQAM	3	0	18.16	18.24	18.15	19	2				
1.4	HQAM	3	1	18.33	18.46	18.34						
1.4	HQAM	3	1	18.01	18.19	17.97						
1.4	HQAM	3	0	17.17	17.39	17.22	18	3				
1.4	HQAM	3	0	18.40	18.43	18.37						
1.4	HQAM	3	1	15.12	15.35	15.19						
1.4	256QAM	1	0	15.29	15.32	15.20	16	5				
1.4	256QAM	1	3	15.31	15.31	15.21						
1.4	256QAM	3	0	15.10	15.17	15.06						



Band 13 Ant 0												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.82	22.82	22.82	24	0				
10	QPSK	1	25	22.77	22.77	22.77						
10	QPSK	1	49	22.73	22.73	22.84						
10	QPSK	25	0	21.87	21.87	21.88	23	1				
10	QPSK	25	12	21.73	21.73	21.84						
10	QPSK	25	25	21.76	21.84	21.89						
10	QPSK	50	0	21.83	21.83	21.84	23	1				
10	16QAM	1	0	21.77	21.77	21.81						
10	16QAM	1	25	21.72	21.72	21.81						
10	16QAM	1	49	21.81	21.81	21.89	22	2				
10	16QAM	25	0	20.90	20.90	20.95						
10	16QAM	25	12	20.95	20.95	20.98						
10	16QAM	25	25	20.73	20.73	20.84	22	2				
10	16QAM	50	0	20.79	20.79	20.81						
10	16QAM	1	25	20.74	20.74	20.86						
10	16QAM	1	49	20.80	20.80	20.91	21	3				
10	16QAM	25	0	19.91	19.91	19.95						
10	16QAM	25	12	19.96	19.96	19.98						
10	16QAM	25	25	19.81	19.81	19.83	19	5				
10	16QAM	50	0	19.85	19.85	19.87						
10	16QAM	1	25	17.86	17.86	17.93						
10	256QAM	1	49	17.74	17.74	17.85	19	5				
10	256QAM	25	0	17.87	17.87	17.91						
10	256QAM	25	12	17.74	17.74	17.85						
10	256QAM	25	25	17.62	17.62	17.69	19	5				
10	256QAM	50	0	17.65	17.65	17.72						
10	256QAM	1	0	17.65	17.65	17.72						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.71	22.78	22.82	24	0				
5	QPSK	1	12	22.68	22.72	22.84						
5	QPSK	1	49	22.64	22.63	22.83						
5	QPSK	12	0	21.66	21.77	21.88	23	1				
5	QPSK	12	7	21.71	21.78	21.73						
5	QPSK	12	13	21.49	21.84	21.84						
5	QPSK	25	0	21.66	21.79	21.87	23	1				
5	16QAM	1	0	21.63	21.61	21.63						
5	16QAM	1	12	21.57	21.80	21.84						
5	16QAM	1	24	21.59	21.81	21.86	23	1				
5	16QAM	12	0	20.70	20.81	20.89						
5	16QAM	12	7	20.68	20.77	20.84						
5	16QAM	12	13	20.61	20.72	20.81	22	2				
5	16QAM	25	0	20.68	20.81	20.73						
5	16QAM	1	0	20.52	20.65	20.59						
5	16QAM	1	12	20.46	20.60	20.50	22	2				
5	16QAM	1	24	20.48	20.57	20.43						
5	16QAM	12	0	19.86	19.78	19.87						
5	16QAM	12	7	19.70	19.74	19.83	21	3				
5	16QAM	12	13	19.66	19.71	19.59						
5	16QAM	25	0	19.61	19.79	19.66						
5	256QAM	1	0	17.78	17.83	17.75	19	5				
5	256QAM	1	12	17.68	17.83	17.78						
5	256QAM	1	24	17.64	17.75	17.70						
5	256QAM	12	0	17.76	17.83	17.77	19	5				
5	256QAM	12	7	17.65	17.73	17.60						
5	256QAM	12	13	17.55	17.79	17.65						
5	256QAM	25	0	17.73	17.78	17.68	19	5				
5	256QAM	25	0	17.73	17.78	17.68						

Band 17 Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.85	22.88	22.81	24	0	
10	QPSK	1	25	22.81	22.87	22.73			
10	QPSK	1	49	22.71	22.80	22.87			
10	QPSK	25	0	21.89	21.90	21.86	23	1	
10	QPSK	25	12	21.73	21.81	21.84			
10	QPSK	25	25	21.76	21.84	21.89			
10	QPSK	50	0	21.75	21.89	21.84	23	1	
10	16QAM	1	0	21.75	21.81	21.88			
10	16QAM	1	25	21.65	21.76	21.87			
10	16QAM	1	49	21.59	21.69	21.85	22	2	
10	16QAM	25	0	20.89	20.92	20.95			
10	16QAM	25	12	20.77	20.87	20.92			
10	16QAM	25	25	20.66	20.80	20.73	22	2	
10	16QAM	50	0	20.73	20.85	20.71			
10	16QAM	1	0	20.71	20.81	20.69			
10	16QAM	1	25	20.71	20.76	20.86	22	2	
10	16QAM	1	49	20.59	20.69	20.57			
10	16QAM	25	0	19.79	19.92	19.79			
10	16QAM	25	12	19.79	19.85	19.76	21	3	
10	16QAM	25	25	19.75	19.78	19.84			
10	16QAM	50	0	19.77	19.86	19.77			
10	256QAM	1	0	17.62	17.69	17.60	19	5	
10	256QAM	1	25	17.76	17.85	17.80			
10	256QAM	1	49	17.73	17.78	17.71			
10	256QAM	25	0	17.78	17.84	17.80	19	5	
10	256QAM	25	12	17.65	17.79	17.69			
10	256QAM	25	25	17.63	17.72	17.67			
10	256QAM	50	0	17.67	17.79	17.72	19	5	
10	256QAM	1	0	17.67	17.79	17.72			
10	256QAM	1	25	17.62	17.75	17.69			
10	256QAM	1	49	17.60	17.73	17.66			
10	256QAM	25	0	17.60	17.73	17.66			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.77	22.85	22.72	24	0	
5	QPSK	1	12	22.74	22.72	22.68			
5	QPSK	1	24	22.66	22.74	22.61			
5	QPSK	12	0	21.76	21.81	21.72	23	1	
5	QPSK	12	7	21.69	21.77	21.71			
5	QPSK	12	13	21.60	21.73	21.70			
5	QPSK	25	0	21.69	21.77	21.71	23	1	
5	16QAM	1	0	21.72	21.76	21.87			
5	16QAM	1	12	21.60	21.87	21.88			
5	16QAM	1	24	21.64	21.84	21.83	23	1	
5	16QAM	12	0	20.82	20.85	20.74			
5	16QAM	12	7	20.74	20.83	20.71			
5	16QAM	12	13	19.71	19.73	19.72	22	2	
5	16QAM	25	0	20.70	20.79	20.58			
5	16QAM	1	0	20.59	20.72	20.63			
5	16QAM	1	12	20.29	20.62	20.57	22	2	
5	16QAM	1	24	20.54	20.81	20.50			
5	16QAM	12	0	19.87	19.79	19.72			
5	16QAM	12	7	19.71	19.73	19.72	21	3	
5	16QAM	12	13	19.61	19.67	19.65			
5	16QAM	25	0	19.57	19.75	19.66			
5	256QAM	1	0	17.71	17.84	17.74	19	5	
5	256QAM	1	12	17.66	17.79	17.73			
5	256QAM	1	24	17.65	17.73	17.65			
5	256QAM	12	0	17.69	17.74	17.71	19	5	
5	256QAM	12	7	17.66	17.73	17.61			
5	256QAM	12	13	17.63	17.85	17.62			
5	256QAM	25	0	17.61	17.85	17.58	19	5	
5	256QAM	25	0	17.61	17.85	17.58			

Band 26 Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (Sec)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.82	22.89	22.74	24	0	
15	QPSK	1	37	22.79	22.84	22.72			
15	QPSK	1	74	22.68	22.77	22.71			
15	QPSK	36	0	21.68	21.81	21.67	23		
15	QPSK	36	20	21.73	21.76	21.70			
15	QPSK	36	40	21.60	21.69	21.61			
15	QPSK	75	0	21.65	21.70	21.65	23	1	
15	16QAM	1	0	21.67	21.72	21.65			
15	16QAM	1	37	21.63	21.67	21.61			
15	16QAM	1	74	21.48	21.60	21.58	22	2	
15	16QAM	36	0	20.87	20.97	20.86			
15	16QAM	36	20	20.92	20.74	20.87			
15	16QAM	75	0	20.58	20.73	20.68	22	2	
15	16QAM	75	20	20.55	20.68	20.68			
15	16QAM	1	37	20.49	20.63	20.51			
15	16QAM	1	74	20.31	20.56	20.49	21	3	
15	16QAM	36	0	19.77	19.87	19.87			
15	16QAM	36	20	19.60	19.71	19.62			
15	16QAM	75	0	19.50	19.64	19.53	19	5	
15	16QAM	75	20	19.58	19.68	19.68			
15	25QAM	1	0	17.67	17.80	17.66			
15	25QAM	1	37	17.66	17.73	17.71	19	5	
15	25QAM	1	74	17.58	17.68	17.60			
15	25QAM	36	0	17.62	17.75	17.67			
15	25QAM	75	0	17.61	17.68	17.53	18	5	
15	25QAM	75	20	17.61	17.71	17.65			
15	25QAM	75	0	17.58	17.68	17.58			
Frequency Range									
				26740	26740	26740			
				Min	Min	Min			
15	QPSK	1	0	22.73	22.82	22.66	24	0	
15	QPSK	1	20	22.70	22.72	22.66			
15	QPSK	1	40	22.54	22.63	22.56			
15	QPSK	25	0	21.57	21.77	21.54	23	1	
15	QPSK	25	12	21.68	21.66	21.64			
15	QPSK	50	0	21.48	21.48	21.48			
15	QPSK	50	0	21.52	21.62	21.64	23	1	
15	16QAM	1	0	21.48	21.65	21.63			
15	16QAM	1	40	21.35	21.48	21.43			
15	16QAM	25	0	20.55	20.68	20.58	22	2	
15	16QAM	25	12	20.59	20.63	20.61			
15	16QAM	50	0	20.45	20.49	20.46			
15	16QAM	50	0	20.45	20.59	20.64	22	2	
15	16QAM	1	20	20.40	20.53	20.44			
15	16QAM	1	40	20.37	20.43	20.37			
15	16QAM	25	0	19.62	19.62	19.56	21	3	
15	16QAM	25	12	19.54	19.61	19.61			
15	16QAM	25	20	19.40	19.57	19.45			
15	25QAM	1	0	18.67	18.67	18.60	19	5	
15	25QAM	1	0	17.60	17.65	17.58			
15	25QAM	25	0	17.54	17.64	17.57			
15	25QAM	25	12	17.52	17.60	17.47	19	5	
15	25QAM	25	20	17.54	17.64	17.58			
15	25QAM	50	0	17.45	17.53	17.53			



Band 38 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)	MPE (dB)		
Channel										
Frequency (MHz)				39760	39800	39840				
20	QPSK	1	0	20.63	20.70	20.57	22	0		
20	QPSK	1	49	20.60	20.65	20.63				
20	QPSK	1	99	20.62	20.68	20.48	21	1		
20	QPSK	50	0	19.59	19.56	19.50				
20	QPSK	50	24	19.42	19.57	19.49	21	1		
20	QPSK	50	50	19.33	19.47	19.34				
20	QPSK	100	0	19.44	19.37	19.51	21	1		
20	16QAM	1	0	19.42	19.52	19.42				
20	16QAM	1	49	19.33	19.47	19.35	20	2		
20	16QAM	1	99	19.30	19.40	19.35				
20	16QAM	50	0	18.45	18.50	18.47	20	2		
20	16QAM	50	24	18.43	18.50	18.39				
20	16QAM	50	50	18.36	18.43	18.39	20	2		
20	16QAM	100	0	18.40	18.49	18.45				
20	16QAM	1	0	18.33	18.45	18.32	20	2		
20	16QAM	1	49	18.31	18.40	18.32				
20	16QAM	1	99	18.33	18.33	18.35	19	3		
20	16QAM	50	0	17.41	17.45	17.37				
20	16QAM	50	24	17.33	17.41	17.27	19	3		
20	16QAM	50	50	17.20	17.34	17.19				
20	16QAM	100	0	17.32	17.43	17.38	17	5		
20	256QAM	1	0	15.45	15.31	15.40				
20	256QAM	1	49	15.35	15.49	15.31	17	5		
20	256QAM	1	99	15.34	15.39	15.28				
20	256QAM	50	0	15.44	15.48	15.42	17	5		
20	256QAM	50	24	15.35	15.43	15.31				
20	256QAM	50	50	15.30	15.36	15.25	20	5		
20	256QAM	100	0	15.40	15.44	15.35				
Channel										
Frequency (MHz)				39765	39805	39815				
15	QPSK	1	0	20.72	20.63	20.73	22	0		
15	QPSK	1	37	20.65	20.68	20.49				
15	QPSK	1	74	20.42	20.54	20.36	21	1		
15	QPSK	36	0	19.61	19.67	19.36				
15	QPSK	36	20	19.29	19.61	19.35	21	1		
15	QPSK	36	50	19.33	19.40	19.38				
15	16QAM	1	0	19.31	19.47	19.34	21	1		
15	16QAM	1	74	19.10	19.31	19.24				
15	16QAM	36	0	18.39	18.49	18.39	20	2		
15	16QAM	36	20	18.35	18.48	18.35				
15	16QAM	36	50	18.31	18.35	18.28	20	2		
15	16QAM	75	0	18.37	18.44	18.39				
15	16QAM	1	0	18.35	18.37	18.25	19	3		
15	16QAM	1	37	18.25	18.29	18.20				
15	16QAM	1	74	18.16	18.22	18.13	20	2		
15	16QAM	36	0	17.37	17.35	17.24				
15	16QAM	36	20	17.32	17.34	17.21	19	3		
15	16QAM	36	50	17.28	17.31	17.13				
15	16QAM	75	0	17.22	17.37	17.29	17	5		
15	256QAM	1	0	15.37	15.38	15.31				
15	256QAM	1	37	15.32	15.33	15.21	17	5		
15	256QAM	1	74	15.25	15.35	15.23				
15	256QAM	36	0	15.31	15.36	15.28	17	5		
15	256QAM	36	20	15.29	15.34	15.16				
15	256QAM	36	50	15.29	15.34	15.16	20	5		
15	256QAM	75	0	15.27	15.36	15.10				
Channel										
Frequency (MHz)				39760	39800	39820				
10	QPSK	1	0	20.71	20.59	20.59	22	0		
10	QPSK	1	25	20.61	20.55	20.42				
10	QPSK	1	49	20.42	20.48	20.34	21	1		
10	QPSK	25	0	19.44	19.51	19.41				
10	QPSK	25	12	19.39	19.47	19.39	21	1		
10	QPSK	25	25	19.27	19.38	19.30				
10	16QAM	1	0	19.39	19.44	19.30	21	1		
10	16QAM	1	25	19.29	19.35	19.38				
10	16QAM	1	49	19.21	19.28	19.28	21	1		
10	16QAM	25	0	18.35	18.42	18.35				
10	16QAM	25	12	18.30	18.31	18.32	20	2		
10	16QAM	50	0	18.37	18.37	18.30				
10	16QAM	1	0	18.29	18.31	18.21	20	2		
10	16QAM	1	25	18.19	18.32	18.27				
10	16QAM	1	49	18.15	18.22	18.19	19	3		
10	16QAM	25	0	17.32	17.38	17.22				
10	16QAM	25	12	17.28	17.30	17.23	19	3		
10	16QAM	25	25	17.21	17.22	17.17				
10	16QAM	50	0	17.29	17.31	17.25	17	5		
10	16QAM	50	25	17.21	17.25	17.19				
10	256QAM	1	0	15.31	15.37	15.30	17	5		
10	256QAM	1	25	15.21	15.33	15.27				
10	256QAM	1	49	15.30	15.29	15.14	17	5		
10	256QAM	25	0	15.30	15.35	15.26				
10	256QAM	25	12	15.28	15.36	15.17	17	5		
10	256QAM	25	25	15.27	15.31	15.14				
10	256QAM	50	0	15.25	15.40	15.22	20	5		
10	256QAM	100	0	15.35	15.40	15.29				
Channel										
Frequency (MHz)				39775	39800	39825				
5	QPSK	1	0	20.54	20.57	20.43	22	0		
5	QPSK	1	12	20.45	20.52	20.46				
5	QPSK	1	24	20.39	20.49	20.40	21	1		
5	QPSK	12	0	19.41	19.58	19.45				
5	QPSK	12	7	19.39	19.48	19.36	21	1		
5	QPSK	12	13	19.24	19.41	19.27				
5	QPSK	25	0	18.32	18.40	18.42	21	1		
5	16QAM	1	0	19.34	19.48	19.25				
5	16QAM	1	12	19.28	19.35	19.29	21	1		
5	16QAM	1	24	19.15	19.37	19.26				
5	16QAM	12	0	18.42	18.42	18.42	20	2		
5	16QAM	12	7	18.34	18.36	18.30				
5	16QAM	12	13	18.27	18.35	18.27	20	2		
5	16QAM	25	0	18.34	18.38	18.40				
5	16QAM	1	0	18.23	18.34	18.22	19	3		
5	16QAM	12	0	17.29	17.43	17.24				
5	16QAM	12	7	17.22	17.37	17.18	17	5		
5	16QAM	12	13	17.38	17.23	17.07				
5	16QAM	25	0	17.35	17.36	17.25	17	5		
5	256QAM	1	0	15.32	15.45	15.38				
5	256QAM	1	12	15.26	15.36	15.26	17	5		
5	256QAM	1	24	15.24	15.32	15.21				
5	256QAM	12	0	15.33	15.44	15.35	20	5		
5	256QAM	12	7	15.25	15.33	15.19				
5	256QAM	12	13	15.21	15.27	15.12	20	5		
5	256QAM	25	0	15.27	15.39	15.22				
Channel										
Frequency (MHz)				39775	39800	39825				

Band 42 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.60	20.74	20.87	22	0		
20	QPSK	1	49	20.60	20.68	20.82				
20	QPSK	1	98	20.60	20.65	20.82				
20	QPSK	50	0	19.70	19.74	19.70				
20	QPSK	50	24	19.81	19.89	19.80	21	1		
20	QPSK	50	36	19.82	19.82	19.83				
20	QPSK	100	0	19.59	19.66	19.53				
20	16QAM	1	0	19.53	19.58	19.47				
20	16QAM	1	49	19.46	19.53	19.42	21	1		
20	16QAM	1	99	19.38	19.46	19.37				
20	16QAM	50	0	19.59	19.70	19.81				
20	16QAM	50	50	19.54	19.58	19.55				
20	16QAM	100	0	19.55	19.64	19.54	20	2		
20	64QAM	1	99	18.52	18.61	18.52				
20	64QAM	1	49	18.50	18.56	18.49				
20	64QAM	50	0	18.43	18.49	18.43				
20	64QAM	50	24	17.46	17.61	17.48	19	3		
20	64QAM	50	50	17.39	17.54	17.45				
20	64QAM	100	0	17.50	17.60	17.55				
20	256QAM	1	0	15.69	15.77	15.68				
20	256QAM	1	49	15.65	15.72	15.68	17	5		
20	256QAM	50	0	15.69	15.75	15.67				
20	256QAM	50	24	15.58	15.67	15.59				
20	256QAM	50	50	15.53	15.60	15.47				
20	256QAM	100	0	15.54	15.61	15.48				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.64	20.81	20.14	22	0		
15	QPSK	1	37	20.50	20.58	20.85				
15	QPSK	1	74	20.43	20.38	20.47				
15	QPSK	36	0	19.60	19.68	19.65				
15	QPSK	36	20	19.52	19.54	19.54	21	1		
15	QPSK	36	37	19.41	19.54	19.41				
15	QPSK	75	0	19.44	19.58	19.44				
15	16QAM	1	0	19.40	19.44	19.33				
15	16QAM	1	37	19.42	19.42	19.36	21	1		
15	16QAM	1	74	19.25	19.42	19.28				
15	16QAM	36	0	18.48	18.67	18.48				
15	16QAM	36	37	18.50	18.52	18.38				
15	16QAM	36	50	18.44	18.51	18.46	20	2		
15	16QAM	75	0	18.48	18.53	18.43				
15	64QAM	1	0	18.47	18.57	18.44				
15	64QAM	1	37	18.37	18.49	18.38				
15	64QAM	1	74	18.30	18.40	18.35	20	2		
15	64QAM	36	0	17.50	17.59	17.47				
15	64QAM	36	20	17.41	17.54	17.41				
15	64QAM	75	0	17.35	17.46	17.35				
15	256QAM	1	0	15.66	15.64	15.61	17	5		
15	256QAM	1	37	15.67	15.67	15.67				
15	256QAM	1	74	15.53	15.54	15.49				
15	256QAM	36	0	15.63	15.60	15.45				
15	256QAM	36	20	15.64	15.64	15.49				
15	256QAM	75	0	15.40	15.56	15.38				
15	256QAM	75	0	15.40	15.56	15.34				
15	256QAM	75	0	15.40	15.56	15.34				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.50	20.69	20.50	22	0		
10	QPSK	1	25	20.52	20.58	20.50				
10	QPSK	1	49	20.53	20.61	20.38				
10	QPSK	25	12	19.52	19.64	19.58				
10	QPSK	25	25	19.50	19.53	19.40	21	1		
10	QPSK	50	0	19.38	19.55	19.48				
10	16QAM	1	0	19.38	19.50	19.43				
10	16QAM	1	25	19.33	19.48	19.29				
10	16QAM	1	49	19.35	19.34	19.32	21	1		
10	16QAM	25	0	18.52	18.58	18.52				
10	16QAM	25	12	18.51	18.60	18.44				
10	16QAM	25	19	18.41	18.54	18.45				
10	16QAM	50	0	18.40	18.52	18.40	20	2		
10	64QAM	1	0	18.49	18.52	18.40				
10	64QAM	1	25	18.42	18.47	18.37				
10	64QAM	1	49	18.39	18.42	18.36				
10	64QAM	25	0	17.44	17.61	17.40	20	2		
10	64QAM	25	12	17.37	17.51	17.43				
10	64QAM	25	25	17.31	17.41	17.35				
10	64QAM	50	0	17.43	17.57	17.41				
10	256QAM	1	0	15.59	15.71	15.60	17	5		
10	256QAM	1	25	15.59	15.67	15.58				
10	256QAM	1	49	15.44	15.60	15.44				
10	256QAM	25	0	15.58	15.68	15.54				
10	256QAM	25	12	15.47	15.63	15.46				
10	256QAM	25	25	15.40	15.46	15.39				
10	256QAM	50	0	15.54	15.66	15.46				
10	256QAM	50	0	15.54	15.66	15.46				
Channel										
Frequency (MHz)										
5	QPSK	1	12	20.48	20.59	20.54	22	0		
5	QPSK	1	24	20.52	20.61	20.43				
5	QPSK	12	0	19.97	19.91	19.87				
5	QPSK	12	13	19.42	19.54	19.39				
5	QPSK	25	0	19.54	19.56	19.45	21	1		
5	16QAM	1	0	19.46	19.44	19.37				
5	16QAM	1	12	19.36	19.40	19.38				
5	16QAM	1	24	19.29	19.35	19.23				
5	16QAM	12	0	18.45	18.65	18.57	21	1		
5	16QAM	12	7	18.49	18.58	18.49				
5	16QAM	12	13	18.42	18.53	18.50				
5	16QAM	25	0	18.50	18.57	18.50				
5	64QAM	1	12	18.43	18.44	18.39	20	2		
5	64QAM	1	24	18.39	18.42	18.37				
5	64QAM	12	0	17.43	17.68	17.45				
5	64QAM	12	7	17.40	17.65	17.44				
5	64QAM	12	13	17.36	17.50	17.34	19	3		
5	256QAM	1	0	15.62	15.67	15.59				
5	256QAM	1	12	15.52	15.64	15.53				
5	256QAM	1	24	15.48	15.55	15.50				
5	256QAM	12	0	15.58	15.68	15.54	17	5		
5	256QAM	12	7	15.51	15.57	15.48				
5	256QAM	12	13	15.50	15.61	15.43				
5	256QAM	25	0	15.52	15.62	15.61				
5	256QAM	25	12	15.47	15.61	15.45				
5	256QAM	25	25	15.40	15.46	15.39				



Band 48 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Low Meds Ch / Freqs	Power High Meds Ch / Freqs	Power High Ch / Freqs	Turn-up time (dBm)	MPP (dB)			
Channel				56340	56630	56160	56660					
Frequency (MHz)				56610	56630	56141	56650					
20	QPSK	1	0	20.77	20.94	20.71	20.67	22	0			
20	QPSK	1	49	20.71	20.79	20.67	20.62					
20	QPSK	1	99	20.69	20.72	20.59	20.58					
20	QPSK	50	0	20.51	20.64	20.54	20.59					
20	QPSK	50	24	20.55	20.59	20.49	20.55	21	1			
20	QPSK	50	50	20.43	20.52	20.42	20.39					
20	QPSK	100	0	20.56	20.61	20.54	20.52					
20	16QAM	1	0	20.48	20.59	20.53	20.45					
20	16QAM	1	49	20.45	20.54	20.47	20.43	21	1			
20	16QAM	1	99	20.43	20.47	20.35	20.41					
20	16QAM	50	0	19.91	19.83	19.60	19.54					
20	16QAM	50	24	19.94	19.88	19.64	19.58					
20	16QAM	50	50	19.46	19.51	19.41	19.48	20	2			
20	64QAM	100	0	19.46	19.55	19.41	19.45					
20	64QAM	1	0	19.45	19.50	19.54	19.45					
20	64QAM	1	49	19.45	19.55	19.41	19.45					
20	64QAM	1	99	19.35	19.48	19.41	19.40	20	2			
20	64QAM	50	0	18.70	19.73	19.67	19.69					
20	64QAM	50	24	19.54	19.88	19.64	19.58					
20	64QAM	50	50	19.51	19.61	19.56	19.52					
20	256QAM	1	0	19.61	19.69	19.56	19.56	19	3			
20	256QAM	1	49	19.60	19.74	19.61	19.66					
20	256QAM	1	99	19.61	19.69	19.61	19.65					
20	256QAM	50	0	19.52	19.62	19.48	19.53					
20	256QAM	50	24	19.50	19.60	19.57	19.63	17	5			
20	256QAM	50	50	19.39	19.54	19.41	19.44					
20	256QAM	100	0	19.57	19.61	19.50	19.55					
Channel				56315	56620	56160	56665					
Frequency (MHz)				56315	56620	56160	56665					
15	QPSK	1	0	20.71	20.77	20.62	20.59	22	0			
15	QPSK	1	37	20.60	20.69	20.60	20.51					
15	QPSK	1	74	20.60	20.62	20.50	20.49					
15	QPSK	86	0	20.48	20.50	20.48	20.47					
15	QPSK	86	20	20.44	20.49	20.45	20.40	21	1			
15	QPSK	86	49	20.31	20.40	20.33	20.39					
15	QPSK	75	0	20.42	20.55	20.43	20.46					
15	16QAM	1	0	20.44	20.55	20.44	20.32					
15	16QAM	1	37	20.40	20.50	20.35	20.38	21	1			
15	16QAM	1	74	20.34	20.39	20.21	20.28					
15	16QAM	58	0	19.48	19.51	19.45	19.46					
15	16QAM	58	20	19.45	19.51	19.47	19.32					
15	16QAM	98	39	19.39	19.40	19.26	19.41	20	2			
15	16QAM	75	0	19.36	19.51	19.36	19.48					
15	64QAM	1	0	19.35	19.53	19.49	19.53					
15	64QAM	1	37	19.41	19.45	19.33	19.36					
15	64QAM	1	74	19.25	19.41	19.29	19.36	19	3			
15	64QAM	58	0	19.55	19.67	19.56	19.59					
15	64QAM	58	20	19.47	19.61	19.61	19.51					
15	64QAM	98	39	19.25	19.52	19.45	19.44					
15	64QAM	75	0	19.54	19.54	19.47	19.44	17	5			
15	256QAM	1	0	19.61	19.62	19.57	19.56					
15	256QAM	1	37	19.60	19.62	19.47	19.55					
15	256QAM	1	74	19.42	19.48	19.37	19.44					
15	256QAM	58	0	19.52	19.62	19.54	19.58	17	5			
15	256QAM	58	20	19.35	19.50	19.49	19.47					
15	256QAM	58	39	19.35	19.48	19.34	19.35					
15	256QAM	75	0	19.50	19.47	19.43	19.50					
Channel				56290	56115	56160	56665 <td colspan="3"></td>					
Frequency (MHz)				56290	56075	56425	56065 <td colspan="3"></td>					
10	QPSK	1	0	20.72	20.73	20.64	20.61	22	0			
10	QPSK	1	25	20.65	20.66	20.59	20.52					
10	QPSK	1	49	20.59	20.60	20.54	20.52					
10	QPSK	16	0	20.39	20.61	20.47	20.44					
10	QPSK	25	12	20.44	20.56	20.45	20.51	21	1			
10	QPSK	25	25	20.37	20.37	20.38	20.29					
10	16QAM	1	0	20.53	20.48	20.50	20.40					
10	16QAM	1	0	20.44	20.51	20.39	20.37					
10	16QAM	1	25	20.40	20.48	20.36	20.33	21	1			
10	16QAM	1	49	20.31	20.38	20.29	20.38					
10	16QAM	25	0	19.39	19.50	19.51	19.42					
10	16QAM	25	12	19.41	19.45	19.37	19.37					
10	16QAM	25	25	19.42	19.38	19.28	19.38	20	2			
10	16QAM	50	0	19.40	19.47	19.43	19.47					
10	64QAM	1	0	19.42	19.46	19.44	19.38					
10	64QAM	1	25	19.35	19.44	19.35	19.39					
10	64QAM	1	49	19.27	19.33	19.27	19.31	19	3			
10	64QAM	25	0	19.44	19.60	19.61	19.62					
10	64QAM	25	12	19.40	19.64	19.54	19.51					
10	64QAM	25	25	19.37	19.48	19.49	19.44					
10	64QAM	50	0	19.47	19.58	19.48	19.50	17	5			
10	256QAM	1	0	19.65	19.61	19.68	19.59					
10	256QAM	1	25	19.63	19.58	19.51	19.51					
10	256QAM	1	49	19.45	19.50	19.45	19.61					
10	256QAM	25	0	19.49	19.58	19.42	19.49	17	5			
10	256QAM	25	12	19.45	19.51	19.45	19.44					
10	256QAM	25	25	19.35	19.43	19.30	19.31					
10	256QAM	50	0	19.51	19.54	19.43	19.45					
Channel				56265	56080	56170	56715 <td colspan="3"></td>					
Frequency (MHz)				56265	56080	56170	56715 <td colspan="3"></td>					
5	QPSK	1	0	20.73	20.81	20.57	20.61	22	0			
5	QPSK	1	12	20.62	20.64	20.57	20.51					
5	QPSK	1	24	20.60	20.61	20.50	20.51					
5	QPSK	12	0	20.42	20.53	20.48	20.47					
5	QPSK	12	7	20.47	20.52	20.42	20.46	21	1			
5	QPSK	12	19	20.31	20.40	20.35	20.34					
5	QPSK	25	0	20.44	20.57	20.44	20.43					
5	16QAM	1	0	20.39	20.46	20.39	20.34					
5	16QAM	1	12	20.39	20.41	20.43	20.36	21	1			
5	16QAM	1	24	20.28	20.39	20.34	20.27					
5	16QAM	12	0	19.39	19.54	19.53	19.47					
5	16QAM	12	7	19.40	19.55	19.45	19.34					
5	16QAM	12	19	19.39	19.40	19.31	19.34	20	2			
5	16QAM	25	0	19.42	19.48	19.42	19.43					
5	64QAM	1	0	19.35	19.51	19.42	19.40					
5	64QAM	1	12	19.39	19.41	19.34	19.39					
5	64QAM	1	24	19.27	19.37	19.37	19.29	19	3			
5	64QAM	12	0	19.66	19.66	19.53	19.58					
5	64QAM	12	7	19.45	19.61	19.58	19.53					
5	64QAM	12	19	19.46	19.58	19.50	19.46					
5	64QAM	25	0	19.41	19.57	19.50	19.42	17	5			
5	256QAM	1	0	19.59	19.66	19.58	19.59					
5	256QAM	1	12	19.60	19.55	19.54	19.55					
5	256QAM	1	24	19.45	19.51	19.40	19.39					
5	256QAM	12	0	19.47	19.60	19.54	19.57	17<				

GSM850 Ant 1		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50
GSM 1 Tx slot		32.18	32.34	32.26		23.18	23.34	23.26	
GPRS 1 Tx slot		32.23	32.38	32.30	33.50	23.23	23.38	23.30	24.50
GPRS 2 Tx slots		29.48	29.52	29.41	30.50	23.48	23.52	23.41	24.50
GPRS 3 Tx slots		27.74	27.85	27.79	29.00	23.48	23.59	23.53	24.74
GPRS 4 Tx slots		26.27	26.35	26.27	27.00	23.27	23.35	23.27	24.00
EDGE 1 Tx slot		25.13	25.18	25.08	26.00	16.13	16.18	16.08	17.00
EDGE 2 Tx slots		23.21	23.35	23.21	25.00	17.21	17.35	17.21	19.00
EDGE 3 Tx slots		22.19	22.30	22.27	24.00	17.93	18.04	18.01	19.74
EDGE 4 Tx slots		20.02	20.14	20.07	21.00	17.02	17.14	17.07	18.00

GSM900 Ant 1		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8	30.00	1850.2	1880	1909.8	21.00
GSM 1 Tx slot		29.81	29.93	29.89		20.81	20.93	20.89	
GPRS 1 Tx slot		29.85	29.97	29.93	30.00	20.85	20.97	20.93	21.00
GPRS 2 Tx slots		25.58	25.62	25.50	27.00	19.58	19.62	19.50	21.00
GPRS 3 Tx slots		23.66	23.69	23.61	25.50	19.40	19.43	19.35	21.24
GPRS 4 Tx slots		21.31	21.41	21.28	22.50	18.31	18.41	18.28	19.50
EDGE 1 Tx slot		23.45	23.54	23.51	25.00	14.45	14.54	14.51	16.00
EDGE 2 Tx slots		21.84	21.91	21.79	23.50	15.84	15.91	15.79	17.50
EDGE 3 Tx slots		20.63	20.69	20.56	22.50	16.37	16.43	16.30	18.24
EDGE 4 Tx slots		18.56	18.66	18.62	20.50	15.56	15.66	15.62	17.50

Band		WCDMA U Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
TX Channel		1312	1413	1513		4132	4182	4233	
Rx Channel		1537	1638	1738	30.00	4357	4407	4458	23.00
Frequency (MHz)		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.81	22.89	22.78	24.00	22.40	22.46	22.30	24.00
3GPP Rel 99	RMC 12.2Kbps	22.87	22.96	22.83	24.00	22.43	22.49	22.37	24.00
3GPP Rel 6	HSDPA Subtest-1	21.95	22.02	21.87	23.00	21.55	21.60	21.37	23.00
3GPP Rel 6	HSDPA Subtest-2	21.85	21.86	21.83	23.00	21.47	21.50	21.47	23.00
3GPP Rel 6	HSDPA Subtest-3	21.28	21.46	21.37	22.50	20.86	21.05	21.00	22.50
3GPP Rel 6	HSDPA Subtest-4	21.27	21.52	21.36	22.50	20.85	21.15	20.90	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.94	22.12	21.74	23.00	21.47	21.68	21.28	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.85	21.86	21.70	23.00	21.42	21.42	21.34	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.45	21.28	21.38	22.50	21.02	20.85	20.93	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.26	21.13	21.39	22.50	20.82	20.75	20.99	22.50
3GPP Rel 6	HSUPA Subtest-1	21.90	21.98	22.06	23.00	21.51	21.56	21.61	23.00
3GPP Rel 6	HSUPA Subtest-2	19.87	19.94	19.82	21.00	19.41	19.49	19.39	21.00
3GPP Rel 6	HSUPA Subtest-3	20.92	20.93	20.82	22.00	20.54	20.48	20.44	22.00
3GPP Rel 6	HSUPA Subtest-4	19.77	19.86	19.82	21.00	19.37	19.45	19.37	21.00
3GPP Rel 6	HSUPA Subtest-5	22.04	21.68	21.73	23.00	21.58	21.32	21.38	23.00



Band 4 Ant 1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.63	21.70	21.68			
20	QPSK	1	49	21.68	21.70	21.68			
20	QPSK	1	99	21.64	21.63	21.63			
20	QPSK	50	0	20.96	21.03	20.95			
20	QPSK	50	24	20.92	20.98	20.97			
20	QPSK	50	50	20.78	20.91	20.84			
20	QPSK	100	0	20.93	20.96	20.97			
20	QPSK	100	0	20.75	20.75	20.75			
20	16QAM	1	49	20.76	20.84	20.74			
20	16QAM	1	99	20.66	20.77	20.70			
20	16QAM	50	0	19.89	19.97	19.93			
20	16QAM	50	24	19.83	19.92	19.86			
20	16QAM	50	50	19.74	19.85	19.72			
20	16QAM	100	0	19.89	19.92	19.93			
20	64QAM	1	0	19.75	19.83	19.79			
20	64QAM	1	49	19.65	19.78	19.66			
20	64QAM	1	99	19.56	19.71	19.59			
20	64QAM	50	0	18.90	19.08	18.89			
20	64QAM	50	24	18.93	19.03	18.91			
20	64QAM	50	50	18.74	18.86	18.74			
20	64QAM	100	0	18.77	18.93	18.81			
20	256QAM	1	49	18.66	18.91	18.69			
20	256QAM	1	49	18.62	18.90	18.65			
20	256QAM	1	99	18.70	18.83	18.69			
20	256QAM	50	0	18.62	18.87	18.60			
20	256QAM	50	24	18.73	18.82	18.77			
20	256QAM	50	50	18.67	18.75	18.63			
20	256QAM	100	0	18.76	18.81	18.76			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.56	21.71	21.58			
15	QPSK	1	49	21.47	21.67	21.49			
15	QPSK	1	74	21.45	21.60	21.49			
15	QPSK	36	0	20.80	20.94	20.89			
15	QPSK	36	24	20.83	20.91	20.87			
15	QPSK	36	36	20.79	20.92	20.75			
15	16QAM	1	0	20.72	20.80	20.80			
15	16QAM	1	37	20.64	20.80	20.59			
15	16QAM	1	74	20.62	20.76	20.65			
15	16QAM	36	0	19.84	19.91	19.75			
15	16QAM	36	20	19.70	19.82	19.78			
15	16QAM	36	24	19.68	19.79	19.68			
15	16QAM	75	0	19.62	19.70	19.70			
15	64QAM	1	0	19.70	19.71	19.70			
15	64QAM	1	37	19.62	19.67	19.68			
15	64QAM	1	74	19.48	19.52	19.52			
15	64QAM	36	0	18.90	18.87	18.77			
15	64QAM	36	20	18.77	18.98	18.71			
15	64QAM	36	24	18.64	18.73	18.61			
15	64QAM	75	0	18.74	18.87	18.70			
15	256QAM	1	49	18.64	18.86	18.64			
15	256QAM	1	37	18.76	18.75	18.78			
15	256QAM	1	74	18.62	18.74	18.64			
15	256QAM	36	0	18.62	18.78	18.61			
15	256QAM	36	20	18.63	18.71	18.74			
15	256QAM	36	24	18.61	18.64	18.67			
15	256QAM	75	0	18.63	18.74	18.65			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.61	21.61	21.61			
10	QPSK	1	25	21.53	21.62	21.61			
10	QPSK	1	49	21.42	21.57	21.41			
10	QPSK	50	0	20.96	20.96	20.96			
10	QPSK	50	12	20.88	20.92	20.75			
10	QPSK	25	20	20.66	20.79	20.77			
10	QPSK	25	25	20.61	20.61	20.61			
10	QPSK	1	0	20.71	20.84	20.78			
10	16QAM	1	20	20.64	20.78	20.61			
10	16QAM	1	49	20.53	20.65	20.59			
10	16QAM	25	0	19.78	19.91	19.72			
10	16QAM	25	12	19.76	19.84	19.78			
10	16QAM	25	20	19.68	19.71	19.64			
10	16QAM	50	0	19.63	19.84	19.75			
10	64QAM	1	0	19.71	19.68	19.73			
10	64QAM	1	20	19.50	19.62	19.52			
10	64QAM	1	49	19.45	19.67	19.51			
10	64QAM	25	0	18.78	18.84	18.83			
10	64QAM	25	12	18.86	18.86	18.86			
10	64QAM	25	20	18.68	18.74	18.68			
10	64QAM	50	0	18.73	18.83	18.74			
10	256QAM	1	49	18.61	18.80	18.63			
10	256QAM	1	25	18.73	18.80	18.78			
10	256QAM	1	49	18.58	18.72	18.62			
10	256QAM	1	99	18.57	18.63	18.65			
10	256QAM	25	12	18.69	18.78	18.78			
10	256QAM	25	20	18.56	18.71	18.54			
10	256QAM	50	0	18.67	18.67	18.64			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.46	21.70	21.42			
5	QPSK	1	12	21.48	21.60	21.57			
5	QPSK	1	24	21.48	21.57	21.42			
5	QPSK	1	49	21.40	21.57	21.41			
5	QPSK	12	7	20.88	20.92	20.76			
5	QPSK	12	13	20.64	20.81	20.76			
5	QPSK	25	0	20.67	20.84	20.75			
5	16QAM	1	0	20.64	20.80	20.79			
5	16QAM	1	12	20.68	20.71	20.65			
5	16QAM	1	24	20.46	20.63	20.45			
5	16QAM	12	0	19.81	19.89	19.74			
5	16QAM	12	7	19.76	19.87	19.77			
5	16QAM	12	13	19.65	19.75	19.68			
5	16QAM	25	0	19.79	19.81	19.78			
5	64QAM	1	0	19.71	19.70	19.73			
5	64QAM	1	12	19.58	19.68	19.60			
5	64QAM	1	24	19.50	19.67	19.54			
5	64QAM	12	0	18.94	18.91	18.83			
5	64QAM	12	7	18.72	18.87	18.75			
5	64QAM	12	13	18.82	18.83	18.64			
5	64QAM	25	0	18.72	18.87	18.71			
5	256QAM	1	49	18.87	18.84	18.85			
5	256QAM	1	12	18.61	18.80	18.73			
5	256QAM	1	24	18.67	18.69	18.60			
5	256QAM	12	0	18.67	18.75	18.72			
5	256QAM	12	7	18.68	18.78	18.65			
5	256QAM	12	13	18.59	18.68	18.65			
5	256QAM	25	0	18.64	18.70	18.67			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.51	21.71	21.57			
1.4	QPSK	1	3	21.56	21.68	21.52			
1.4	QPSK	1	5	21.45	21.59	21.42			
1.4	QPSK	3	0	21.54	21.62	21.55			
1.4	QPSK	3	1	21.50	21.57	21.55			
1.4	QPSK	3	3	21.50	21.52	21.41			
1.4	QPSK	6	0	20.82	20.88	20.81			
1.4	16QAM	1	0	20.84	20.92	20.83			
1.4	16QAM	1	3	20.87	20.89	20.83			
1.4	16QAM	1	5	20.88	20.81	20.75			
1.4	16QAM	3	0	20.71	20.83	20.75			
1.4	16QAM	3	1	20.76	20.79	20.74			
1.4	16QAM	3	3	20.52	20.74	20.57			
1.4	16QAM	6	0	19.79	19.85	19.78			
1.4	64QAM	1	0	19.77	19.87	19.73			
1.4	64QAM	1	3	19.68	19.75	19.68			
1.4	64QAM	1	5	19.78	19.85	19.79			
1.4	64QAM	3	0	19.71	19.72	19.69			
1.4	64QAM	3	1	19.58	19.69	19.62			
1.4	256QAM	1	0	18.60	18.64	18.58			
1.4	256QAM	1	3	18.79	18.79	18.61			
1.4	256QAM	1	5	18.63	18.70	18.60			
1.4	256QAM	3	0	18.68	18.82	18.66			
1.4	256QAM	3	1	18.65	18.73	18.68			
1.4	256QAM	3	3	18.52	18.68	18.52			
1.4	256QAM	6	0	18.72	18.70	18.61			

Band 5 Ant 1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.22	21.31	21.28			
10	QPSK	1	25	21.18	21.28	21.23			
10	QPSK	1	49	21.08	21.15	21.12			22
10	QPSK	25	0	20.29	20.34	20.23			
10	QPSK	25	12	20.21	20.29	20.18			
10	QPSK	25	25	20.15	20.22	20.17			21
10	QPSK	50	0	20.15	20.28	20.15			
10	QPSK	50	12	20.07	20.23	20.10			
10	QPSK	50	1	20.03	20.20	20.08			21
10	QPSK	1	25	20.01	20.18	20.13			
10	QPSK	1	49	20.03	20.09	20.00			21
10	QPSK	25	0	19.97	20.12	19.93			
10	QPSK	25	12	19.96	20.10	19.92			20
10	QPSK	25	25	19.98	19.90	19.93			
10	QPSK	50	0	19.92	19.98	19.91			
10	QPSK	1	0	19.29	19.33	19.24			20
10	QPSK	1	25	19.16	19.28	19.21			
10	QPSK	1	49	19.07	19.20	19.16			20
10	QPSK	25	0	19.87	19.44	19.36			
10	QPSK	25	12	19.88	19.39	19.31			19
10	QPSK	25	49	20.13	19.37	19.28			
10	QPSK	50	0	19.36	18.40	18.30			
10	QPSK	1	0	19.37	18.47	18.33			
10	QPSK	1	25	19.31	18.36	18.25			17
10	QPSK	1	49	19.24	18.35	18.27			
10	QPSK	25	0	19.36	18.42	18.33			
10	QPSK	25	12	19.35	18.42	18.30			17
10	QPSK	25	49	19.37	18.42	18.30			
10	QPSK	50	0	19.36	18.40	18.30			17
10	QPSK	50	12	19.35	18.39	18.21			
10	QPSK	50	1	19.31	18.35	18.21			
10	QPSK	1	0	19.415	19.435	19.455	Turn-up time (sec)	MFR (dB)	
5	QPSK	1	0	21.11	21.24	21.22			
5	QPSK	1	25	21.07	21.18	21.15			22
5	QPSK	1	49	20.99	21.04	21.08			
5	QPSK	25	0	20.20	20.31	20.20			
5	QPSK	25	12	20.19	20.29	20.18			21
5	QPSK	25	12	20.19	20.29	20.15			
5	QPSK	25	25	20.03	20.21	20.09			
5	QPSK	50	0	20.03	20.21	20.09			
5	QPSK	50	12	19.99	20.22	19.96			21
5	QPSK	1	12	19.88	20.04	19.90			
5	QPSK	1	25	19.87	20.02	19.86			21
5	QPSK	1	49	19.81	19.95	19.85			
5	QPSK	25	7	19.22	19.29	19.19			20
5	QPSK	25	12	19.23	19.32	19.21			
5	QPSK	25	0	19.11	19.23	19.13			20
5	QPSK	1	0	19.21	19.23	19.21			
5	QPSK	1	25	19.16	19.23	19.16			20
5	QPSK	1	49	19.09	19.16	19.04			
5	QPSK	25	0	18.33	18.34	18.28			
5	QPSK	25	12	18.33	18.34	18.28			19
5	QPSK	25	12	18.20	18.22	18.20			
5	QPSK	25	0	18.29	18.35	18.18			
5	QPSK	25	12	18.29	18.35	18.18			19
5	QPSK	50	0	18.29	18.35	18.18			
5	QPSK	1	12	18.20	18.27	18.23			17
5	QPSK	1	24	18.20	18.29	18.20			
5	QPSK	1	49	18.22	18.33	18.27			17
5	QPSK	25	0	18.25	18.34	18.24			
5	QPSK	25	12	18.25	18.34	18.24			17
5	QPSK	25	12	18.10	18.19	18.12			
5	QPSK	25	25	18.02	18.19	18.12			
5	QPSK	50	0	18.02	18.19	18.12			
5	QPSK	50	12	18.015	18.095	18.095	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.11	21.21	21.17			
1.4	QPSK	1	8	21.11	21.21	21.17			22
1.4	QPSK	1	14	20.95	21.00	21.03			
1.4	QPSK	1	20	20.83	20.89	20.92			
1.4	QPSK	8	4	20.13	20.25	20.18			21
1.4	QPSK	8	7	20.08	20.15	20.11			
1.4	QPSK	8	14	20.03	20.13	20.10			21
1.4	QPSK	1	0	20.00	20.17	19.96			
1.4	QPSK	1	8	19.90	20.09	20.12			21
1.4	QPSK	1	14	19.82	19.98	19.95			
1.4	QPSK	8	0	19.36	19.33	19.10			20
1.4	QPSK	8	4	19.26	19.23	19.10			
1.4	QPSK	8	7	19.12	19.18	19.10			19
1.4	QPSK	1	0	19.18	19.29	19.11			
1.4	QPSK	1	8	19.02	19.17	19.10			20
1.4	QPSK	1	14	19.00	19.16	18.97			
1.4	QPSK	8	0	18.32	18.36	18.29			
1.4	QPSK	8	4	18.14	18.30	18.29			19
1.4	QPSK	8	7	18.12	18.22	18.14			
1.4	QPSK	1	0	18.03	18.10	18.03			
1.4	QPSK	1	8	18.23	18.35	18.21			17
1.4	QPSK	8	0	18.23	18.35	18.21			
1.4	QPSK	8	4	18.19	18.27	18.18			17
1.4	QPSK	8	7	18.03	18.10	18.03			
1.4	QPSK	1	0	18.20	18.31	18.14			
1.4	QPSK	1	8	18.14	18.25	18.17			
1.4	QPSK	1	14	18.14	18.25	18.17			20
1.4	QPSK	8	0	18.07	18.38	18.27			19
1.4	QPSK	8	4	18.08	18.39	18.27			
1.4	QPSK	8	7	18.08	18.38	18.27			
1.4	QPSK	1	0	18.33	18.37	18.27			
1.4	QPSK	1	8	18.23	18.33	18.21			17
1.4	QPSK	1	14	18.20	18.31	18.21			
1.4	QPSK	8	0	18.24	18.32	18.21			17
1.4	QPSK	8	4	18.27	18.37	18.19			
1.4	QPSK	8	7	18.27	18.37	18.19			
1.4	QPSK	1	0	18.14	18.23	18.16			17



Band 13 Ant 1									
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency [MHz]									
10	QPSK	1	0	21.27	21.27	21.27	23	0	
10	QPSK	1	25	21.28	21.28	21.28			
10	QPSK	1	49	21.29	21.29	21.29			
10	QPSK	25	0	20.43	20.43	20.43	22	1	
10	QPSK	25	12	20.44	20.44	20.44			
10	QPSK	25	25	20.45	20.45	20.45			
10	QPSK	50	0	20.46	20.46	20.46	22	1	
10	QPSK	50	1	20.47	20.47	20.47			
10	QPSK	50	25	20.48	20.48	20.48			
10	16QAM	1	49	20.49	20.49	20.49	21	2	
10	16QAM	25	0	19.53	19.53	19.53			
10	16QAM	25	12	19.54	19.54	19.54			
10	16QAM	25	25	19.55	19.55	19.55	21	2	
10	16QAM	50	0	19.47	19.47	19.47			
10	16QAM	50	1	19.48	19.48	19.48			
10	16QAM	1	25	19.49	19.49	19.49	21	2	
10	16QAM	25	0	19.53	19.53	19.53			
10	16QAM	25	12	19.54	19.54	19.54			
10	16QAM	25	25	19.55	19.55	19.55	20	3	
10	16QAM	50	0	19.47	19.47	19.47			
10	16QAM	50	1	19.48	19.48	19.48			
10	256QAM	1	49	19.49	19.49	19.49	18	5	
10	256QAM	25	0	18.41	18.41	18.41			
10	256QAM	25	12	18.42	18.42	18.42			
10	256QAM	25	25	18.43	18.43	18.43	18	5	
10	256QAM	50	0	17.45	17.45	17.45			
10	256QAM	50	1	17.46	17.46	17.46			
10	256QAM	1	25	17.47	17.47	17.47	18	5	
10	256QAM	25	0	17.49	17.49	17.49			
10	256QAM	25	12	17.50	17.50	17.50			
10	256QAM	25	25	17.51	17.51	17.51	18	5	
10	256QAM	50	0	16.47	16.47	16.47			
10	256QAM	50	1	16.48	16.48	16.48			
10	256QAM	1	49	16.49	16.49	16.49	18	5	
10	256QAM	25	0	15.48	15.48	15.48			
10	256QAM	25	12	15.49	15.49	15.49			
10	256QAM	25	25	15.50	15.50	15.50	18	5	
10	256QAM	50	0	14.47	14.47	14.47			
10	256QAM	50	1	14.48	14.48	14.48			
10	256QAM	1	25	14.49	14.49	14.49	18	5	
10	256QAM	25	0	13.48	13.48	13.48			
10	256QAM	25	12	13.49	13.49	13.49			
10	256QAM	25	25	13.50	13.50	13.50	18	5	
10	256QAM	50	0	12.47	12.47	12.47			
10	256QAM	50	1	12.48	12.48	12.48			
10	256QAM	1	49	12.49	12.49	12.49	18	5	
10	256QAM	25	0	11.47	11.47	11.47			
10	256QAM	25	12	11.48	11.48	11.48			
10	256QAM	25	25	11.49	11.49	11.49	18	5	
10	256QAM	50	0	10.47	10.47	10.47			
10	256QAM	50	1	10.48	10.48	10.48			
10	256QAM	1	25	10.49	10.49	10.49	18	5	
10	256QAM	25	0	9.47	9.47	9.47			
10	256QAM	25	12	9.48	9.48	9.48			
10	256QAM	25	25	9.49	9.49	9.49	18	5	
10	256QAM	50	0	8.47	8.47	8.47			
10	256QAM	50	1	8.48	8.48	8.48			
10	256QAM	1	49	8.49	8.49	8.49	18	5	
10	256QAM	25	0	7.47	7.47	7.47			
10	256QAM	25	12	7.48	7.48	7.48			
10	256QAM	25	25	7.49	7.49	7.49	18	5	
10	256QAM	50	0	6.47	6.47	6.47			
10	256QAM	50	1	6.48	6.48	6.48			
10	256QAM	1	25	6.49	6.49	6.49	18	5	
10	256QAM	25	0	5.47	5.47	5.47			
10	256QAM	25	12	5.48	5.48	5.48			
10	256QAM	25	25	5.49	5.49	5.49	18	5	
10	256QAM	50	0	4.47	4.47	4.47			
10	256QAM	50	1	4.48	4.48	4.48			
10	256QAM	1	49	4.49	4.49	4.49	18	5	
10	256QAM	25	0	3.47	3.47	3.47			
10	256QAM	25	12	3.48	3.48	3.48			
10	256QAM	25	25	3.49	3.49	3.49	18	5	
10	256QAM	50	0	2.47	2.47	2.47			
10	256QAM	50	1	2.48	2.48	2.48			
10	256QAM	1	25	2.49	2.49	2.49	18	5	
10	256QAM	25	0	1.47	1.47	1.47			
10	256QAM	25	12	1.48	1.48	1.48			
10	256QAM	25	25	1.49	1.49	1.49	18	5	
10	256QAM	50	0	0.47	0.47	0.47			
10	256QAM	50	1	0.48	0.48	0.48			
10	256QAM	1	49	0.49	0.49	0.49	18	5	
10	256QAM	25	0	-0.47	-0.47	-0.47			
10	256QAM	25	12	-0.48	-0.48	-0.48			
10	256QAM	25	25	-0.49	-0.49	-0.49	18	5	
10	256QAM	50	0	-1.47	-1.47	-1.47			
10	256QAM	50	1	-1.48	-1.48	-1.48			
10	256QAM	1	25	-1.49	-1.49	-1.49	18	5	
10	256QAM	25	0	-2.47	-2.47	-2.47			
10	256QAM	25	12	-2.48	-2.48	-2.48			
10	256QAM	25	25	-2.49	-2.49	-2.49	18	5	
10	256QAM	50	0	-3.47	-3.47	-3.47			
10	256QAM	50	1	-3.48	-3.48	-3.48			
10	256QAM	1	49	-3.49	-3.49	-3.49	18	5	
10	256QAM	25	0	-4.47	-4.47	-4.47			
10	256QAM	25	12	-4.48	-4.48	-4.48			
10	256QAM	25	25	-4.49	-4.49	-4.49	18	5	
10	256QAM	50	0	-5.47	-5.47	-5.47			
10	256QAM	50	1	-5.48	-5.48	-5.48			
10	256QAM	1	25	-5.49	-5.49	-5.49	18	5	
10	256QAM	25	0	-6.47	-6.47	-6.47			
10	256QAM	25	12	-6.48	-6.48	-6.48			
10	256QAM	25	25	-6.49	-6.49	-6.49	18	5	
10	256QAM	50	0	-7.47	-7.47	-7.47			
10	256QAM	50	1	-7.48	-7.48	-7.48			
10	256QAM	1	49	-7.49	-7.49	-7.49	18	5	
10	256QAM	25	0	-8.47	-8.47	-8.47			
10	256QAM	25	12	-8.48	-8.48	-8.48			
10	256QAM	25	25	-8.49	-8.49	-8.49	18	5	
10	256QAM	50	0	-9.47	-9.47	-9.47			
10	256QAM	50	1	-9.48	-9.48	-9.48			
10	256QAM	1	25	-9.49	-9.49	-9.49	18	5	
10	256QAM	25	0	-10.47	-10.47	-10.47			
10	256QAM	25	12	-10.48	-10.48	-10.48			
10	256QAM	25	25	-10.49	-10.49	-10.49	18	5	
10	256QAM	50	0	-11.47	-11.47	-11.47			
10	256QAM	50	1	-11.48	-11.48	-11.48			
10	256QAM	1	49	-11.49	-11.49	-11.49	18	5	
10	256QAM	25	0	-12.47	-12.47	-12.47			
10	256QAM	25	12	-12.48	-12.48	-12.48			
10	256QAM	25	25	-12.49	-12.49	-12.49	18	5	
10	256QAM	50	0	-13.47	-13.47	-13.47			
10	256QAM	50	1	-13.48	-13.48	-13.48			
10	256QAM	1	25	-13.49	-13.49	-13.49	18	5	
10	256QAM	25	0	-14.47	-14.47	-14.47			
10	256QAM	25	12	-14.48	-14.48	-14.48			
10	256QAM	25	25	-14.49	-14.49	-14.49	18	5	
10	256QAM	50	0	-15.47	-15.47	-15.47			
10	256QAM	50	1	-15.48	-15.48	-15.48			
10	256QAM	1	49	-15.49	-15.49	-15.49	18	5	
10	256QAM	25	0	-16.47	-16.47	-16.47			
10	256QAM	25	12	-16.48	-16.48	-16.48			
10	256QAM	25	25	-16.49	-16.49	-16.49	18	5	
10	256QAM	50	0	-17.47	-17.47	-17.47			
10	256QAM	50	1	-17.48	-17.48	-17.48			
10	256QAM	1	25	-17.49	-17.49	-17.49	18	5	
10	256QAM	25	0	-18.47	-18.47	-18.47			
10	256QAM	25	12	-18.48	-18.48	-18.48			
10	256QAM	25	25	-18.49	-18.49	-18.49	18	5	
10	256QAM	50	0	-19.47	-19.47	-19.47			
10	256QAM	50	1	-19.48	-19.48	-19.48			
10	256QAM	1	49	-19.49	-19.49	-19.49	18	5	
10	256QAM	25	0	-20.47	-20.47	-20.47			
10	256QAM	25	12	-20.48	-20.48	-20.48			
10	256QAM	25	25	-20.49	-20.49	-20.49	18	5	
10	256QAM	50	0	-21.47	-21.47	-21.47			
10	256QAM	50	1	-21.48	-21.48	-21.48			
10	256QAM	1	25	-21.49	-21.49	-21.49	18	5	
10	256QAM	25	0	-22.47	-22.47	-22.47			
10	256QAM	25	12	-22.48	-22.48	-22.48			
10	256QAM	25	25	-22.49	-22.49	-22.49	18	5	
10	256QAM	50	0	-23.47	-23.47	-23.47			
10	256QAM	50	1	-23.48	-23.48	-23.48			
10	256QAM	1	49	-23.49	-23.49	-23.49	18	5	
10	256QAM	25	0	-24.47	-24.47	-24.47			
10	256QAM	25	12	-24.48	-24.48	-24.48			
10	256QAM	25	25	-24.49	-24.49	-24.49	18	5	
10	256QAM	50	0	-25.47	-25.47	-25.47			
10	256QAM	50	1	-25.48	-25.48	-25.48			
10	256QAM	1	25	-25.49	-25.49	-25.49	18	5	
10	256QAM	25	0	-26.47	-26.47	-26.47			
10	256QAM	25	12	-26.48	-26.48	-26.48			
10	256QAM	25	25	-26.49	-26.49	-26.49	18	5	
10	256QAM	50	0	-27.47	-27.47	-27.47			
10	256QAM	50	1	-27.48	-27.48	-27.48			
10	256QAM	1	49	-27.49	-27.49	-27.49	18	5	
10	256QAM	25	0	-28.47	-28.4				



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38050	38150			
20	QPSK	1	0	22.41	22.53	22.46			
20	QPSK	1	48	22.32	22.35	22.39	24	0	
20	QPSK	50	0	21.26	21.42	21.39			
20	QPSK	50	0	21.48	21.53	21.47			
20	QPSK	50	24	21.38	21.46	21.40	23	1	
20	QPSK	50	48	21.31	21.41	21.36			
20	QPSK	100	0	21.37	21.48	21.34			
20	QPSK	1	0	21.32	21.38	21.36	23	1	
20	HQAM	1	48	20.26	20.30	20.30			
20	HQAM	1	96	20.30	20.36	20.36			
20	HQAM	50	24	20.34	20.39	20.35	22	2	
20	HQAM	50	50	20.29	20.37	20.29			
20	HQAM	100	0	20.26	20.30	20.30			
20	BAGAM	1	0	20.28	20.31	20.34			
20	BAGAM	1	48	20.28	20.31	20.34	22	2	
20	BAGAM	1	96	20.25	20.33	20.34			
20	BAGAM	50	0	19.34	19.49	19.36			
20	BAGAM	50	24	19.41	19.46	19.29	21	3	
20	BAGAM	50	50	19.26	19.45	19.30			
20	BAGAM	100	0	19.34	19.43	19.44			
20	25SQAM	1	0	17.42	17.47	17.34			
20	25SQAM	1	48	17.26	17.41	17.31	19	5	
20	25SQAM	1	96	17.20	17.34	17.23			
20	25SQAM	50	0	17.48	17.58	17.40			
20	25SQAM	50	24	17.20	17.40	17.27	19	5	
20	25SQAM	50	50	17.18	17.27	17.12			
20	25SQAM	100	0	17.20	17.30	17.15			
Channel									
Frequency (MHz)				37850	38050	38150	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	22.42	22.43	22.43			
15	QPSK	1	37	22.19	22.28	22.30	24	0	
15	QPSK	1	74	22.12	22.20	22.21			
15	QPSK	36	0	21.40	21.42	21.39			
15	QPSK	36	20	21.25	21.35	21.31	23	1	
15	QPSK	36	37	21.32	21.39	21.37			
15	QPSK	75	0	21.23	21.42	21.32			
15	HQAM	1	0	21.27	21.28	21.25			
15	HQAM	1	37	21.25	21.29	21.29	23	1	
15	HQAM	1	74	21.25	21.28	21.24			
15	HQAM	36	0	20.30	20.45	20.22			
15	HQAM	36	20	20.32	20.39	20.30	22	2	
15	HQAM	36	36	20.17	20.22	20.16			
15	HQAM	75	0	20.35	20.26	20.38			
15	HQAM	75	0	20.13	20.26	20.15			
15	BAGAM	1	37	20.34	20.26	20.26	22	2	
15	BAGAM	1	74	20.15	20.29	20.08			
15	BAGAM	36	0	19.28	19.41	19.33	21	3	
15	BAGAM	36	20	19.36	19.38	19.24			
15	BAGAM	36	36	19.24	19.31	19.08			
15	BAGAM	75	0	19.27	19.35	19.31			
15	25SQAM	1	0	17.34	17.40	17.24	19	5	
15	25SQAM	1	37	17.26	17.32	17.08			
15	25SQAM	1	74	17.16	17.27	17.14			
15	25SQAM	36	0	17.19	17.24	17.27			
15	25SQAM	36	20	17.13	17.23	17.15	19	5	
15	25SQAM	36	36	17.15	17.12	17.03			
15	25SQAM	75	0	17.16	17.20	17.07			
Channel									
Frequency (MHz)				37850	38050	38150	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.42	22.43	22.43			
10	QPSK	1	25	22.23	22.30	22.27	24	0	
10	QPSK	1	48	22.19	22.21	22.25			
10	QPSK	36	0	21.40	21.42	21.39			
10	QPSK	36	20	21.28	21.36	21.32	23	1	
10	QPSK	36	25	21.17	21.37	21.25			
10	HQAM	1	0	21.23	21.28	21.30			
10	HQAM	1	0	21.23	21.28	21.27	23	1	
10	HQAM	1	48	21.22	21.28	21.08			
10	HQAM	25	0	20.36	20.50	20.29			
10	HQAM	25	12	20.35	20.28	20.27	22	2	
10	HQAM	25	25	20.15	20.26	20.15			
10	HQAM	50	0	20.33	20.29	20.34			
10	BAGAM	1	0	20.14	20.26	20.28			
10	BAGAM	1	25	20.18	20.20	20.24	22	2	
10	BAGAM	1	48	20.15	20.35	20.02			
10	BAGAM	25	0	19.20	19.40	19.27			
10	BAGAM	25	12	19.33	19.32	19.26	21	3	
10	BAGAM	25	25	19.16	19.32	19.22			
10	BAGAM	50	0	19.24	19.30	19.38			
10	25SQAM	1	0	17.27	17.41	17.21			
10	25SQAM	1	48	17.17	17.32	17.18	19	5	
10	25SQAM	1	96	17.16	17.27	17.08			
10	25SQAM	25	0	17.16	17.23	17.30			
10	25SQAM	25	12	17.15	17.21	17.14	19	5	
10	25SQAM	25	25	17.10	17.20	17.05			
10	25SQAM	50	0	17.18	17.27	17.10			
Channel									
Frequency (MHz)				37850	38050	38150	Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	22.26	22.40	22.42			
5	QPSK	1	12	22.27	22.21	22.34	24	0	
5	QPSK	1	24	22.17	22.17	22.21			
5	QPSK	12	0	21.43	21.47	21.44			
5	QPSK	12	7	21.30	21.39	21.39	23	1	
5	QPSK	12	13	21.20	21.36	21.22			
5	QPSK	25	0	21.36	21.44	21.39			
5	HQAM	1	0	21.27	21.30	21.27			
5	HQAM	1	12	21.15	21.32	21.22	23	1	
5	HQAM	1	24	21.25	21.21	21.04			
5	HQAM	12	0	20.36	20.40	20.32			
5	HQAM	12	7	20.28	20.35	20.30	22	2	
5	HQAM	12	13	20.11	20.29	20.15			
5	HQAM	25	0	20.35	20.31	20.29			
5	HQAM	1	0	20.21	20.28	20.27	22	2	
5	HQAM	12	0	19.28	19.35	19.27			
5	BAGAM	1	24	19.38	19.39	19.20	21	3	
5	BAGAM	12	7	19.34	19.30	19.31			
5	BAGAM	12	13	19.23	19.35	19.19			
5	BAGAM	25	0	19.24	19.30	19.31			
5	25SQAM	1	0	17.30	17.33	17.22			
5	25SQAM	1	12	17.23	17.35	17.25	19	5	
5	25SQAM	1	24	17.05	17.20	17.10			
5	25SQAM	12	0	17.13	17.30	17.28			
5	25SQAM	12	7	17.13	17.30	17.21			
5	25SQAM	12	13	17.10	17.18	17.06	19	5	
5	25SQAM	25	0	17.15	17.31	17.06			

Band 41 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				38970	40185	40620	41005	41480		
20	QPSK	1	0	22.54	22.62	22.63	22.61	22.48		
20	QPSK	1	48	22.50	22.59	22.64	22.48	22.43	24	0
20	QPSK	50	0	21.50	21.61	21.52	21.38	21.33		
20	QPSK	50	24	21.54	21.57	21.54	21.55	21.44		
20	QPSK	50	48	21.42	21.43	21.42	21.38	21.33	23	1
20	QPSK	100	0	21.50	21.45	21.58	21.43	21.39		
20	16QAM	1	0	21.40	21.46	21.53	21.38	21.40	23	
20	16QAM	50	24	20.94	20.93	20.62	20.46	20.38	22	2
20	16QAM	50	50	20.43	20.37	20.50	20.31	20.32		
20	16QAM	100	0	20.50	20.41	20.50	20.29	20.27		
20	64QAM	1	0	20.25	20.40	20.51	20.37	20.35	22	2
20	64QAM	1	48	20.38	20.35	20.46	20.29	20.32		
20	64QAM	1	96	20.28	20.20	20.38	20.21	20.21		
20	64QAM	50	0	19.45	19.58	19.63	19.53	19.38		
20	64QAM	50	24	19.43	19.51	19.58	19.39	19.41	21	3
20	64QAM	50	50	19.37	19.40	19.51	19.29	19.28		
20	64QAM	100	0	19.52	19.42	19.58	19.39	19.39		
20	25SQAM	1	0	17.54	17.62	17.68	17.48	17.44		
20	25SQAM	1	48	17.54	17.61	17.61	17.52	17.38	19	5
20	25SQAM	1	96	17.42	17.43	17.54	17.46	17.33		
20	25SQAM	50	0	17.48	17.59	17.62	17.42	17.40		
20	25SQAM	50	24	17.44	17.47	17.57	17.45	17.38		
20	25SQAM	50	50	17.46	17.42	17.50	17.38	17.33		
20	25SQAM	100	0	17.38	17.40	17.52	17.31	17.24		
Channel										
Frequency (MHz)				38970	40185	40620	41005	41480	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	0	22.42	22.43	22.43	22.43	22.43		
15	QPSK	1	37	22.45	22.54	22.64	22.41	22.31	24.00	0
15	QPSK	1	74	22.40	22.40	22.48	22.29	22.22		
15	QPSK	36	0	21.4	21.5	21.6	21.4	21.3		
15	QPSK	36	20	21.45	21.38	21.53	21.41	21.30		
15	QPSK	36	52	21.38	21.29	21.45	21.32	21.27		
15	QPSK	75	0	21.42	21.32	21.45	21.37	21.34		
15	16QAM	1	0	21.28	21.29	21.40	21.28	21.27	23	1
15	16QAM	1	37	21.31	21.23	21.33	21.23	21.23		
15	16QAM	1	74	21.23	21.20	21.29	21.20	21.14		
15	16QAM	36	0	20.48	20.40	20.59	20.42	20.26	22	2
15	16QAM	36	20	20.52	20.29	20.49	20.35	20.29		
15	16QAM	36	36	20.31	20.32	20.41	20.21	20.26		
15	16QAM	75	0	20.63	20.29	20.47	20.35	20.29		
15	64QAM	1	0	20.33	20.37	20.45	20.29	20.29	22	2
15	64QAM	1	37	20.33	20.34	20.36	20.30	20.32		
15	64QAM	1	74	20.36	20.35	20.38	20.31	20.31		
15	64QAM	36	0	19.42	19.44	19.57	19.39	19.31	21	3
15	64QAM	36	20	19.37	19.44	19.51	19.31	19.30		
15	64QAM	36	36	19.43	19.43	19.43	19.31	19.31		
15	64QAM	75	0	19.43	19.33	19.43	19.35	19.32		
15	25SQAM	1	0	17.43	17.50	17.55	17.43	17.34		
15	25SQAM	1	37	17.45	17.47	17.56	17.39	17.34	19	5
15	25SQAM	1	74	17.36	17.39	17.48	17.35	17.22		
15	25SQAM	36	0	17.41	17.46	17.51	17.39	17.34		
15	25SQAM	36	20	17.31	17.38	17.53	17.33	17.32		
15	25SQAM	36	50	17.41	17.37	17.44	17.34	17.25	19	5
15	25SQAM	75	0	17.38	17.39	17.48	17.31	17.26		
Channel										
Frequency (MHz)				38970	40185	40620	41005	41480	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.42	22.43	22.43	22.43	22.43		
5	QPSK	1	12	22.40	22.55	22.54	22.30	22.29	24.00	0
5	QPSK	1	48	22.47	22.39	22.42	22.32	22.22		
5	QPSK	12	0	21.48	21.48	21.48	21.44	21.44		
5	QPSK	25	12	21.41	21.36	21.46	21.37	21.35	23	1
5	QPSK	25	36	21.36	21.32	21.42	21.34	21.32		
5	QPSK	50	0	21.44	21.39	21.46	21.35	21.25		
5	16QAM	1	0	21.36	21.41	21.39	21.35	21.34	23	
5	16QAM	1	12	21.38	21.22	21.22	21.29	21.29		
5	16QAM	1	48	21.33	21.18	21.34	21.21	21.18		
5	16QAM	25	0	20.40	20.41	20.48	20.34	20.30		
5	16QAM	25	12	20.38	20.33	20.33	20.33	20.30	22	2
5	16QAM	25	36	20.30	20.24	20.35	20.26	20.19		
5	16QAM	50	0	20.36	20.27	20.38	20.25	20.22		
5	64QAM	1	0	20.26	20.27	20.38	20.20	20.23		
5	64QAM	1	25	20.29	20.21	20.41	20.17	20.14	22	2
5	64QAM	1	48	20.38	20.34	20.41	20.17	20.14		
5	64QAM	25	0	19.35	19.51	19.55	19.43	19.35		
5	64QAM	25	12	19.40	19.45	19.49	19.24	19.29	21	3
5	64QAM	25	36	19.29	19.38	19.42	19.27	19.19		
5	64QAM	50	0	19.40	19.37	19.42	19.28	19.29		
5	25SQAM	1	0	17.48	17.52	17.58	17.46	17.39		
5	25SQAM	1	25	17.45	17.43	17.55	17.46	17.34	19	5
5	25SQAM	1	48	17.31	17.30	17.47	17.34	17.29		
5	25SQAM	25	0	17.36	17.54	17.54	17.48	17.34		
5	25SQAM	25	12	17.35	17.39	17.54	17.41	17.31	19	5
5	25SQAM	25	25	17.32	17.32	17.36	17.34	17.27		
5	25SQAM	50	0	17.34	17.31	17.31	17.27	17.18		
Channel										
Frequency (MHz)				38970	40185	40620	41005	41480	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	12	22.40	22.55	22.54	22.30	22.29	24.00	0
5	QPSK	1	48	22.47	22.39	22.42	22.32	22.22		
5	QPSK	12	0	21.48	21.48	21.48	21.44	21.44		
5	QPSK	12	7	21.45	21.39	21.50	21.43	21.32		
5	QPSK	25	12	21.38	21.32	21.42	21.34	21.32		
5	QPSK	25	0	21.43	21.41	21.52	21.35	21.34		
5	16QAM	1	0	21.27	21.33	21.38	21.29	21.25	23	1
5	16QAM	1	12	21.33	21.26	21.26	21.29	21.29		
5	16QAM	1	24	21.25	21.17	21.29	21.18	21.13		
5	16QAM	12	0	20.42	20.45	20.48	20.36	20.30		
5	16QAM	12	12	20.34	20.28	20.38	20.28	20.26	22	2
5	16QAM	12	13	20.32	20.26	20.39	20.27	20.18		
5	16QAM	25	0	20.36	20.27	20.38	20.25	20.22		
5	64QAM	1	0	20.34	20.35	20.44	20.21	20.27		
5	64QAM	1	12	20.42	20.38	20.37	20.25	20.24	22	2
5	64QAM	1	24	20.34	20.34	20.41	20.17	20.17		
5	64QAM	12	0	19.41	19.45	19.54	19.43	19.31		
5	64QAM	12	7	19.29	19.48	19.49	19.24	19.34		
5	64QAM	12	13	19.29	19.38	19.42	19.27	19.19		
5	64QAM	25	0	19.42	19.35	19.46	19.31	19.34		
5	25SQAM	1	0	17.39	17.47	17.58	17.43	17.40		
5	25SQAM	1	12	17.45	17.48	17.55	17.46	17.34	19	5
5	25SQAM	1	24	17.28	17.28	17.43	17.33	17.28		
5	25SQAM	12	0	17.36	17.50	17.54	17.46	17.30		
5	25SQAM	12	7	17.35	17.43	17.56	17.33	17.27		
5	25SQAM	12	13	17.32	17.33	17.36	17.32	17.27	19	5

Band 42 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				42180	42580	43050						
20	QPSK	1	0	23.66	23.71	23.59	24	0				
20	QPSK	1	48	23.62	23.66	23.57						
20	QPSK	1	96	23.52	23.59	23.48						
20	QPSK	50	0	22.57	22.65	22.53						
20	QPSK	50	24	22.56	22.60	22.56	23	1				
20	QPSK	50	36	22.45	22.53	22.39						
20	QPSK	100	0	22.44	22.58	22.51						
20	16QAM	1	0	22.38	22.52	22.42						
20	16QAM	1	48	22.37	22.47	22.44	23	1				
20	16QAM	1	96	22.35	22.40	22.30						
20	16QAM	50	0	21.52	21.66	21.58						
20	16QAM	50	24	21.53	21.64	21.49						
20	16QAM	50	50	21.44	21.54	21.49	22	2				
20	16QAM	100	0	21.46	21.55	21.47						
20	16QAM	100	0	21.45	21.53	21.45						
20	16QAM	1	48	21.38	21.48	21.44						
20	64QAM	1	96	21.30	21.41	21.35	22	2				
20	64QAM	50	0	20.55	20.60	20.53						
20	64QAM	50	24	20.50	20.55	20.50						
20	64QAM	50	50	20.40	20.48	20.34						
20	64QAM	100	0	20.43	20.55	20.40	21	3				
20	256QAM	1	0	18.46	18.51	18.42						
20	256QAM	1	48	18.52	18.48	18.38						
20	256QAM	1	96	18.28	18.39	18.30						
20	256QAM	50	0	18.40	18.46	18.34	19	5				
20	256QAM	50	24	18.27	18.41	18.20						
20	256QAM	50	50	18.29	18.34	18.21						
20	256QAM	100	0	18.20	18.40	18.34						
Channel												
Frequency (MHz)				42165 <th>42565<th>43035</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	42565 <th>43035</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	43035				Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.63	23.67	23.45	24	0				
15	QPSK	1	37	23.54	23.60	23.53						
15	QPSK	1	74	23.46	23.46	23.38						
15	QPSK	36	0	22.62	22.60	22.44						
15	QPSK	36	20	22.61	22.47	22.50	23	1				
15	QPSK	75	0	22.51	22.52	22.37						
15	QPSK	75	0	22.31	22.44	22.37						
15	16QAM	1	0	22.35	22.38	22.29						
15	16QAM	1	74	22.32	22.37	22.24	23	1				
15	16QAM	36	0	21.47	21.54	21.51						
15	16QAM	36	20	22.32	22.37	22.24						
15	16QAM	36	36	21.36	21.45	21.34						
15	16QAM	75	0	21.36	21.44	21.41	22	2				
15	16QAM	75	0	21.40	21.40	21.38						
15	64QAM	1	37	21.27	21.36	21.30						
15	64QAM	74	0	21.25	21.37	21.27						
15	64QAM	36	0	20.43	20.56	20.40	21	3				
15	64QAM	36	20	20.43	20.41	20.38						
15	64QAM	75	0	20.34	20.46	20.35						
15	256QAM	1	0	18.40	18.46	18.28						
15	256QAM	1	36	18.31	18.43	18.28	19	5				
15	256QAM	36	36	18.25	18.20	18.13						
15	256QAM	36	39	18.18	18.25	18.14						
15	256QAM	75	0	18.32	18.32	18.14						
Channel												
Frequency (MHz)				42140	42540	43010				Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	23.65	23.65	23.45	24	0				
10	QPSK	1	25	23.49	23.51	23.52						
10	QPSK	1	48	23.43	23.49	23.34						
10	QPSK	12	0	22.45	22.59	22.49						
10	QPSK	25	12	22.50	22.63	22.52	23	1				
10	QPSK	25	25	22.35	22.45	22.28						
10	QPSK	50	0	22.33	22.53	22.47						
10	16QAM	1	0	22.27	22.38	22.35						
10	16QAM	1	25	22.22	22.39	22.32	23	1				
10	16QAM	1	48	22.24	22.34	22.22						
10	16QAM	25	0	21.37	21.61	21.45						
10	16QAM	25	12	21.42	21.50	21.40						
10	16QAM	25	15	21.35	21.42	21.45	22	2				
10	16QAM	50	0	21.34	21.51	21.34						
10	64QAM	1	0	21.30	21.47	21.35						
10	64QAM	1	25	21.24	21.37	21.27						
10	64QAM	1	48	21.30	21.27	21.33	22	2				
10	64QAM	25	0	20.43	20.48	20.43						
10	64QAM	25	12	20.42	20.41	20.42						
10	64QAM	25	25	20.30	20.34	20.26						
10	256QAM	1	0	18.40	18.43	18.39	19	5				
10	256QAM	1	25	18.25	18.35	18.29						
10	256QAM	1	48	18.15	18.33	18.24						
10	256QAM	25	0	18.32	18.39	18.24						
10	256QAM	25	12	18.19	18.32	18.15	19	5				
10	256QAM	25	25	18.15	18.25	18.15						
10	256QAM	50	0	18.34	18.32	18.31						
Channel												
Frequency (MHz)				42115 <th>42515<th>43000</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	42515 <th>43000</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	43000				Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.66	23.66	23.44	24	0				
5	QPSK	1	12	23.47	23.60	23.54						
5	QPSK	1	24	23.46	23.55	23.39						
5	QPSK	12	0	22.45	22.59	22.49						
5	QPSK	12	7	22.42	22.54	22.47	23	1				
5	QPSK	12	13	22.35	22.46	22.26						
5	QPSK	25	0	22.34	22.45	22.37						
5	16QAM	1	0	22.30	22.46	22.31						
5	16QAM	1	12	22.28	22.35	22.38	23	1				
5	16QAM	1	24	22.26	22.27	22.10						
5	16QAM	12	0	21.32	21.44	21.35						
5	16QAM	12	7	21.45	21.48	21.41						
5	16QAM	12	13	21.35	21.41	21.35	22	2				
5	16QAM	25	0	21.30	21.47	21.41						
5	64QAM	1	0	21.39	21.48	21.43						
5	64QAM	1	12	21.35	21.41	21.40						
5	64QAM	1	24	21.27	21.29	21.27	22	2				
5	64QAM	12	0	20.50	20.47	20.47						
5	64QAM	12	7	20.47	20.42	20.37						
5	64QAM	12	13	20.25	20.34	20.25						
5	64QAM	25	0	20.38	20.43	20.32	21	3				
5	256QAM	1	0	18.40	18.43	18.29						
5	256QAM	1	12	18.30	18.32	18.27						
5	256QAM	1	24	18.18	18.20	18.26						
5	256QAM	12	0	18.28	18.32	18.24	19	5				
5	256QAM	12	7	18.12	18.38	18.07						
5	256QAM	12	13	18.17	18.30	18.12						
5	256QAM	25	0	18.23	18.30	18.19						
Channel												
Frequency (MHz)				42100	42500	42965	Turn-up limit (dBm)	MPR (dB)				
5	QPSK	1	0	23.65	23.65	23.45	24	0				
5	QPSK	1	12	23.48	23.51	23.30						
5	QPSK	1	24	23.31	23.35	23.40						
5	QPSK	12	0	22.48	22.50	22.43						
5	QPSK	12	7	22.28	22.49	22.29	23	1				
5	QPSK	12	13	22.33	22.35	22.26						
5	QPSK	25	0	22.40	22.52	22.34						
5	16QAM	1	0	22.30	22.41	22.22						
5	16QAM	1	12	22.25	22.34	22.20	23	1				
5	16QAM	1	24	22.26	22.27	22.10						
5	16QAM	12	0	21.32	21.44	21.35						
5	16QAM	12	7	21.41	21.32	21.43						
5	16QAM	12	13	21.06	21.51	21.33	22	2				
5	16QAM	25	0	21.24	21.33	21.35						
5	16QAM	1	0	21.24	21.							

Band 48 Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tuneup band (dBm)	MPR (dB)		
Channel				56360	56350	56190	56640				
Frequency (MHz)				56360	56350	56190	56640				
20	QPSK	1	0	23.72	23.58	23.76	23.66	24	0		
20	QPSK	1	49	23.58	23.76	23.61	23.54				
20	QPSK	8	0	23.56	23.66	23.69	23.69				
20	QPSK	50	0	23.64	23.74	23.57	23.53				
20	QPSK	50	24	23.48	23.66	23.49	23.50	24	0		
20	QPSK	50	50	23.40	23.48	23.45	23.37				
20	QPSK	100	0	23.52	23.68	23.59	23.48				
20	16QAM	1	0	23.67	23.64	23.75	23.52				
20	16QAM	1	49	23.66	23.74	23.68	23.52	24	0		
20	16QAM	1	99	23.64	23.66	23.64	23.49				
20	16QAM	25	0	22.62	22.76	22.66	22.71				
20	16QAM	50	24	22.59	22.70	22.65	22.63				
20	16QAM	50	50	22.56	22.63	22.58	22.48	23	1		
20	16QAM	100	0	22.65	22.69	22.62	22.57				
20	64QAM	1	0	22.52	22.51	22.57	22.54				
20	64QAM	1	49	22.46	22.56	22.50	22.49				
20	64QAM	1	99	22.37	22.48	22.43	22.36	23	1		
20	64QAM	50	0	21.60	21.74	21.68	21.65				
20	64QAM	50	24	21.57	21.69	21.55	21.59				
20	64QAM	50	50	21.67	21.62	21.52	21.57				
20	64QAM	100	0	21.64	21.70	21.60	21.60	20	4		
20	256QAM	1	0	19.54	19.64	19.53	19.58				
20	256QAM	1	49	19.55	19.59	19.45	19.52				
20	256QAM	1	99	19.46	19.62	19.48	19.40				
20	256QAM	25	0	19.54	19.58	19.44	19.52				
20	256QAM	50	24	19.39	19.53	19.39	19.41	20	4		
20	256QAM	50	50	19.43	19.48	19.38	19.40				
20	256QAM	100	0	19.43	19.52	19.40	19.47				
Channel				56315	56300	56160	56660				
Frequency (MHz)				56315	56300	56160	56660				
15	QPSK	1	0	23.18	23.13	23.62	23.62	24	0		
15	QPSK	1	37	23.49	23.62	23.61	23.42				
15	QPSK	1	74	23.52	23.61	23.60	23.61				
15	QPSK	36	0	23.64	23.69	23.49	23.42				
15	QPSK	36	20	23.33	23.62	23.38	23.37	24	0		
15	QPSK	36	36	23.38	23.44	23.40	23.34				
15	QPSK	75	0	23.44	23.64	23.52	23.38				
15	16QAM	1	0	23.52	23.76	23.50	23.40				
15	16QAM	1	37	23.51	23.60	23.62	23.51	24	0		
15	16QAM	1	74	23.59	23.51	23.50	23.45				
15	16QAM	36	0	22.58	22.69	22.67	22.66				
15	16QAM	36	20	22.40	22.65	22.49	22.48				
15	16QAM	36	36	22.53	22.49	22.50	22.40	23	1		
15	16QAM	75	0	22.61	22.58	22.53	22.48				
15	64QAM	1	0	22.48	22.47	22.44	22.48				
15	64QAM	1	37	22.33	22.52	22.43	22.45				
15	64QAM	1	74	22.23	22.42	22.26	22.31	22	2		
15	64QAM	36	0	21.54	21.64	21.56	21.59				
15	64QAM	36	20	21.44	21.64	21.46	21.49				
15	64QAM	36	36	21.50	21.64	21.52	21.50				
15	64QAM	75	0	21.38	21.63	21.52	21.54	20	4		
15	256QAM	1	0	19.46	19.51	19.40	19.49				
15	256QAM	1	37	19.48	19.53	19.41	19.40				
15	256QAM	1	74	19.41	19.47	19.44	19.29				
15	256QAM	36	0	19.46	19.44	19.34	19.41	20	4		
15	256QAM	36	20	19.30	19.39	19.31	19.33				
15	256QAM	36	36	19.39	19.33	19.23	19.29				
15	256QAM	75	0	19.31	19.48	19.27	19.40				
Channel				56290	56315	56160	56660				
Frequency (MHz)				56290	56315	56160	56660				
10	QPSK	1	0	23.66	23.74	23.67	23.61	24	0		
10	QPSK	1	25	23.49	23.70	23.49	23.47				
10	QPSK	1	49	23.43	23.56	23.48	23.55				
10	QPSK	25	0	23.53	23.61	23.59	23.47				
10	QPSK	25	12	23.40	23.54	23.40	23.42	24	0		
10	QPSK	25	25	23.45	23.37	23.31	23.27				
10	QPSK	50	0	23.40	23.62	23.53	23.44				
10	16QAM	1	0	23.59	23.80	23.69	23.48				
10	16QAM	1	25	23.61	23.64	23.62	23.47	24	0		
10	16QAM	1	49	23.54	23.56	23.60	23.42				
10	16QAM	25	0	22.61	22.62	22.58	22.62				
10	16QAM	25	12	22.64	22.59	22.57	22.59				
10	16QAM	25	25	22.51	22.49	22.54	22.34	23	1		
10	16QAM	50	0	22.50	22.58	22.49	22.45				
10	64QAM	1	0	22.47	22.53	22.52	22.39				
10	64QAM	1	25	22.33	22.42	22.44	22.38				
10	64QAM	1	49	22.29	22.41	22.32	22.29	23	1		
10	64QAM	25	0	21.64	21.66	21.62	21.64				
10	64QAM	25	12	21.52	21.61	21.49	21.45				
10	64QAM	25	25	21.53	21.64	21.45	21.45				
10	64QAM	50	0	21.52	21.61	21.52	21.47	22	2		
10	256QAM	1	0	19.49	19.53	19.45	19.44				
10	256QAM	1	25	19.43	19.54	19.34	19.48				
10	256QAM	1	49	19.38	19.39	19.35	19.28				
10	256QAM	25	0	19.47	19.48	19.33	19.45	20	4		
10	256QAM	25	12	19.30	19.45	19.24	19.34				
10	256QAM	25	25	19.32	19.42	19.31	19.29				
10	256QAM	50	0	19.35	19.39	19.26	19.38				
Channel				56295	56310	56170	56675				
Frequency (MHz)				56295	56310	56170	56675				
5	QPSK	1	0	23.67	23.77	23.66	23.64	24	0		
5	QPSK	1	12	23.43	23.69	23.52	23.45				
5	QPSK	1	24	23.53	23.59	23.55	23.55				
5	QPSK	12	0	23.58	23.71	23.46	23.40				
5	QPSK	12	7	23.44	23.60	23.38	23.36	24	0		
5	QPSK	12	13	23.41	23.35	23.31	23.29				
5	QPSK	25	0	23.44	23.59	23.49	23.43				
5	16QAM	1	0	23.53	23.73	23.69	23.49				
5	16QAM	1	12	23.63	23.66	23.67	23.55	24	0		
5	16QAM	1	24	23.50	23.61	23.49	23.40				
5	16QAM	12	0	22.52	22.71	22.54	22.68				
5	16QAM	12	7	22.52	22.60	22.61	22.66				
5	64QAM	1	12	22.41	22.55	22.47	22.36	23	1		
5	64QAM	25	0	22.59	22.63	22.49	22.43				
5	64QAM	1	0	22.46	22.58	22.51	22.42				
5	64QAM	1	12	22.34	22.50	22.42	22.34				
5	64QAM	1	24	22.24	22.39	22.28	22.24	23	1		
5	64QAM	12	0	21.61	21.69	21.61	21.59				
5	64QAM	12	7	21.43	21.56	21.50	21.46				
5	64QAM	25	0	21.56	21.56	21.51	21.47				
5	256QAM	1	0	19.44	19.52	19.43	19.48	20	4		
5	256QAM	1	12	19.48	19.49	19.38	19.42				
5	256QAM	1	24	19.32	19.47	19.42	19.33				
5	256QAM	12	0	19.48	19.54	19.33	19.48				
5	256QAM	12	7	19.27	19.47	19.35	19.33	20	4		

GSM1900 Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	29.32	29.41	29.38	30.00	20.32	20.41	20.38	21.00
GSM11 Tx slot	29.35	29.47	29.43	30.00	20.35	20.47	20.43	21.00
GPRS 1 Tx slot	26.38	26.51	26.42	27.00	20.38	20.51	20.42	21.00
GPRS 2 Tx slots	23.74	23.85	23.81	25.50	19.48	19.59	19.55	21.24
GPRS 3 Tx slots	22.18	22.29	22.19	24.00	19.18	19.29	19.19	21.00
GPRS 4 Tx slots	24.14	24.28	24.22	25.50	15.14	15.28	15.22	16.50
EDGE 1 Tx slot	22.45	22.56	22.49	24.00	16.45	16.56	16.49	18.00
EDGE 2 Tx slots	21.38	21.49	21.46	22.50	17.12	17.23	17.20	18.24
EDGE 3 Tx slots	19.33	19.42	19.39	20.50	16.33	16.42	16.39	17.50
EDGE 4 Tx slots								

Band		WCDMA II Ant 2			Tune-up Limit (dBm)	WCDMA IV Ant 2			Tune-up Limit (dBm)
TX Channel		9282	8400	9538		1312	1413	1513	
Rx Channel		9682	8800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.02	23.15	23.05	24.00	23.20	23.28	23.15	24.00
3GPP Rel 99	RMC 12.2Kbps	23.08	23.17	23.11	24.00	23.29	23.34	23.22	24.00
3GPP Rel 6	HSDPA Subtest-1	22.21	22.37	22.05	23.00	22.27	22.49	22.19	23.00
3GPP Rel 6	HSDPA Subtest-2	22.14	22.26	22.10	23.00	22.23	22.40	22.16	23.00
3GPP Rel 6	HSDPA Subtest-3	21.56	21.80	21.68	22.50	21.72	21.93	21.80	22.50
3GPP Rel 6	HSDPA Subtest-4	21.61	21.74	21.71	22.50	21.71	21.90	21.80	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.15	22.32	22.16	23.00	22.24	22.39	22.31	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.52	22.03	21.99	23.00	22.08	22.13	22.05	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.46	21.56	21.55	22.50	21.60	21.62	21.72	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.50	21.58	21.49	22.50	21.60	21.72	21.56	22.50
3GPP Rel 6	HSUPA Subtest-1	22.18	22.35	22.35	23.00	22.28	22.52	22.50	23.00
3GPP Rel 6	HSUPA Subtest-2	20.19	20.24	20.01	21.00	20.30	20.36	20.12	21.00
3GPP Rel 6	HSUPA Subtest-3	21.00	21.23	21.18	22.00	21.37	21.30	21.33	22.00
3GPP Rel 6	HSUPA Subtest-4	20.07	20.15	20.02	21.00	20.12	20.30	20.17	21.00
3GPP Rel 6	HSUPA Subtest-5	22.27	22.18	22.17	23.00	22.38	22.30	22.33	23.00

Band 2 Ant 2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.12	21.24	21.07			22	0				
20	QPSK	1	49	21.03	21.09	20.92								
20	QPSK	1	99	20.92	21.04	20.92								
20	QPSK	50	0	20.80	20.90	20.86			21.5	0.5				
20	QPSK	50	24	20.71	20.85	20.78								
20	QPSK	50	50	20.63	20.76	20.74								
20	QPSK	100	0	20.79	20.83	20.76			21.5	0.5				
20	QPSK	100	0	20.75	20.79	20.75								
20	HQAM	1	49	19.82	19.91	19.86			20.5	1.5				
20	HQAM	1	99	19.74	19.86	19.73								
20	HQAM	50	0	19.67	19.79	19.69			20.5	1.5				
20	HQAM	50	24	19.59	19.74	19.64								
20	HQAM	100	0	19.77	19.86	19.81			20.5	1.5				
20	HQAM	100	0	19.78	19.83	19.71								
20	HQAM	1	49	18.84	18.78	18.71			20.5	1.5				
20	HQAM	1	99	18.76	18.80	18.73								
20	HQAM	50	24	18.64	18.75	18.70			19.5	2.5				
20	HQAM	100	0	18.67	18.74	18.63								
20	HQAM	100	0	18.64	18.71	18.58			17.5	4.5				
20	SSBAM	1	49	16.87	16.91	16.80								
20	SSBAM	1	99	16.80	16.84	16.73			17.5	4.5				
20	SSBAM	50	0	16.73	16.83	16.74								
20	SSBAM	50	24	16.64	16.78	16.73			17.5	4.5				
20	SSBAM	100	0	16.66	16.71	16.60								
20	SSBAM	100	0	16.73	16.78	16.63			17.5	4.5				
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.07	18.00	18.02						22	0	
15	QPSK	1	37	20.91	21.18	20.95								
15	QPSK	1	74	20.84	20.98	20.82			21.5	0.5				
15	QPSK	36	0	20.74	20.84	20.75								
15	QPSK	36	36	20.66	20.73	20.70			21.5	0.5				
15	QPSK	36	36	20.52	20.71	20.62								
15	QPSK	75	0	20.81	20.88	20.81			21.5	0.5				
15	QPSK	75	0	20.81	20.88	20.82								
15	HQAM	1	37	20.51	20.63	20.54			20.5	1.5				
15	HQAM	1	49	20.63	20.66	20.62								
15	HQAM	36	0	19.67	19.77	19.76			20.5	1.5				
15	HQAM	36	20	19.63	19.76	19.62								
15	HQAM	75	0	19.62	19.83	19.72			20.5	1.5				
15	HQAM	75	0	19.70	19.73	19.60								
15	HQAM	1	37	19.67	19.74	19.63			19.5	2.5				
15	HQAM	1	74	19.58	19.62	19.53								
15	HQAM	36	0	18.61	18.76	18.67			19.5	2.5				
15	HQAM	36	20	18.62	18.66	18.55								
15	HQAM	75	0	18.52	18.67	18.51			17.5	4.5				
15	HQAM	75	0	18.56	18.56	18.46								
15	SSBAM	1	37	16.74	16.86	16.70			17.5	4.5				
15	SSBAM	1	74	16.76	16.78	16.69								
15	SSBAM	36	0	16.63	16.73	16.63			17.5	4.5				
15	SSBAM	36	20	16.58	16.73	16.63								
15	SSBAM	75	0	16.62	16.74	16.63			17.5	4.5				
15	SSBAM	75	0	16.62	16.74	16.63								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.16	20.16	20.16			22	0				
10	QPSK	1	25	20.37	21.02	20.85								
10	QPSK	1	49	20.79	20.99	20.88			21.5	0.5				
10	QPSK	1	74	20.73	20.84	20.78								
10	QPSK	25	12	20.62	20.70	20.70			21.5	0.5				
10	QPSK	25	25	20.52	20.73	20.69								
10	QPSK	50	0	20.62	20.70	20.69			21.5	0.5				
10	QPSK	50	0	20.69	20.70	20.65								
10	HQAM	1	25	20.49	20.69	20.53			20.5	1.5				
10	HQAM	1	49	20.67	20.63	20.64								
10	HQAM	25	0	19.77	19.79	19.76			20.5	1.5				
10	HQAM	25	12	19.69	19.81	19.64								
10	HQAM	50	0	19.68	19.68	19.63			20.5	1.5				
10	HQAM	50	0	19.68	19.78	19.73								
10	HQAM	1	0	19.72	19.72	19.64			20.5	1.5				
10	HQAM	1	24	19.53	19.72	19.63								
10	HQAM	1	49	19.60	19.63	19.55			19.5	2.5				
10	HQAM	25	0	18.69	18.72	18.67								
10	HQAM	25	12	18.65	18.69	18.58			17.5	4.5				
10	HQAM	50	0	18.56	18.60	18.49								
10	HQAM	50	0	18.53	18.62	18.48			17.5	4.5				
10	SSBAM	1	25	16.80	16.83	16.82								
10	SSBAM	1	49	16.69	16.74	16.64			17.5	4.5				
10	SSBAM	25	0	16.65	16.77	16.62								
10	SSBAM	25	12	16.53	16.68	16.67			17.5	4.5				
10	SSBAM	25	25	16.58	16.67	16.46								
10	SSBAM	50	0	16.62	16.74	16.64			17.5	4.5				
10	SSBAM	50	0	16.62	16.74	16.64								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.08	21.11	21.03			22	0				
5	QPSK	1	12	20.93	20.94	20.85								
5	QPSK	1	24	20.77	20.89	20.85			21.5	0.5				
5	QPSK	12	0	20.67	20.78	20.72								
5	QPSK	12	7	20.57	20.72	20.65			21.5	0.5				
5	QPSK	12	13	20.48	20.66	20.67								
5	QPSK	25	0	20.66	20.76	20.67			21.5	0.5				
5	QPSK	25	0	20.67	20.68	20.71								
5	HQAM	1	12	20.47	20.61	20.50			20.5	1.5				
5	HQAM	1	24	20.50	20.53	20.53								
5	HQAM	12	0	19.89	19.79	19.72			20.5	1.5				
5	HQAM	12	7	19.64	19.80	19.69								
5	HQAM	12	13	19.57	19.72	19.62			20.5	1.5				
5	HQAM	25	0	19.63	19.73	19.72								
5	HQAM	1	0	19.73	19.74	19.59			20.5	1.5				
5	HQAM	1	12	19.59	19.67	19.56								
5	HQAM	1	24	19.55	19.64	19.54			19.5	2.5				
5	HQAM	12	7	18.50	18.68	18.59								
5	HQAM	12	13	18.50	18.58	18.59			17.5	4.5				
5	HQAM	25	0	18.52	18.61	18.49								
5	HQAM	25	0	18.63	18.68	18.73			17.5	4.5				
5	SSBAM	1	0	16.67	16.74	16.62								
5	SSBAM	1	12	16.67	16.74	16.62			17.5	4.5				
5	SSBAM	12	7	16.59	16.78	16.63								
5	SSBAM	12	13	16.53	16.71	16.62			17.5	4.5				
5	SSBAM	25	0	16.58	16.73	16.63								
5	SSBAM	25	0	16.62	16.74	16.64			17.5	4.5				
5	SSBAM	25	0	16.62	16.74	16.64								
Channel														
Frequency (MHz)														
3	QPSK	1	0	20.38	21.14	20.36			22	0				
3	QPSK	1	8	20.95	20.91	20.88								
3	QPSK	1	16	20.85	20.99	20.84			21.5	0.5				
3	QPSK	8	0	20.73	20.82	20.73								
3	QPSK	8	8	20.59	20.72	20.70			21.5	0.5				
3	QPSK	8	16	20.54	20.68	20.68								
3	QPSK	16	0	20.52	20.69	20.69			21.5	0.5				
3	QPSK	16	0	20.65	20.68	20.69								
3	HQAM	1	8	19.70	19.77	19.81			20.5	1.5				
3	HQAM	8	0	19.59	19.81	19.69								
3	HQAM	8	7	19.62	19.67	19.58			20.5	1.5				
3	HQAM	16	0	19.78	19.72	19.63								
3	HQAM	1	0	19.67	19.73	19.63			20.5	1.5				
3	HQAM	1	8	19.61	19.68	19.59								
3	HQAM	8	8	19.59	19.70	19.63			19.5	2.5				
3	HQAM	8	16	19.56	19.71	19.60								
3	HQAM	8	0	18.51	18.70	18.58			19.5	2.5				
3	HQAM	8	8	18.47	18.67	18.57								
3	HQAM	16	0	18.57	18.67	18.63			17.5	4.5				
3	HQAM	16	0	18.60	18.63	18.72								
3	SSBAM	1	0	16.64	16.74	16.64			17.5	4.5				
3	SSBAM	1	14	16.76	16.79	16.68								
3	SSBAM	8	0	16.62	16.72	16.63			17.5	4.5				
3	SSBAM	8	8	16.57	16.74	16.67								
3	SSBAM	16	0	16.67	16.87	16.80			17.5	4.5				
3	SSBAM	16	0	16.67	16.87	16.80								
3	SSBAM	15	0	16.64	16.71	16.64			17.5	4.5				
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.03	21.18	20.98						22	0	
1.4	QPSK	1	20	20.83	20.96	20.83								
1.4	QPSK	1	40	20.63	20.85	20.70			21.5	0.5				
1.4	QPSK	1	60	20.81	20.95	20.86								
1.4	QPSK	1	80	20.98	21.10	21.07			21.5	0.5				
1.4	QPSK	1	100	20.81	20.92	20.83								
1.4	QPSK	3	0	20.73	20.86	20.74			21.5	0.5				
1.4	QPSK	3	20	20.57	20.87	20.63								
1.4	HQAM	1	0	20.87	20.89	20.75			21.5	0.5				
1.4	HQAM	1	40	20.79	20.91									

Band 25 Ant 2																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. (dBm)	Power Middle Ch / Freq. (dBm)	Power High Ch / Freq. (dBm)	Tune-up Ind. (dBm)	MFR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	21.43	21.52	21.47	22	0								
20	QPSK	1	48	21.40	21.47	21.44										
20	QPSK	1	96	21.34	21.40	21.33	21.5	0.5								
20	QPSK	50	0	21.04	21.15	21.07										
20	QPSK	50	24	21.01	21.10	21.02										
20	QPSK	50	50	20.94	21.03	20.89										
20	QPSK	100	0	21.05	21.13	21.09	21.5	0.5								
20	IQAM	1	0	20.47	20.57	20.53										
20	IQAM	1	48	20.47	20.52	20.43										
20	IQAM	1	96	20.36	20.45	20.32										
20	IQAM	50	0	20.90	20.11	20.02	20.5	1.5								
20	IQAM	50	24	19.97	20.06	20.03										
20	IQAM	50	50	19.80	19.99	19.89										
20	IQAM	100	0	19.99	20.16	20.07										
20	IQAM	1	0	19.48	19.53	19.41	20.5	1.5								
20	IQAM	1	48	19.41	19.48	19.41										
20	IQAM	1	96	19.35	19.41	19.27										
20	IQAM	50	0	18.99	19.11	19.06										
20	IQAM	50	24	18.96	19.06	18.98	19.5	2.5								
20	IQAM	50	50	18.94	18.99	18.98										
20	IQAM	100	0	18.94	19.01	18.94										
20	25QAM	1	0	17.71	17.77	17.66										
20	25QAM	1	48	17.54	17.12	17.05	17.5	4.5								
20	25QAM	1	96	17.00	17.05	16.93										
20	25QAM	50	0	16.90	16.97	16.87										
20	25QAM	50	24	16.89	16.92	16.89										
20	25QAM	50	50	16.74	16.85	16.71	17.5	4.5								
20	25QAM	100	0	16.74	16.85	16.71										
Channel																
Frequency (MHz)																
16	QPSK	1	0	21.31	21.44	21.37	22	0								
16	QPSK	1	37	21.30	21.33	21.38										
16	QPSK	1	74	21.24	21.36	21.18	21.5	0.5								
16	QPSK	36	0	20.95	21.07	21.03										
16	QPSK	36	20	20.94	20.95	20.98										
16	QPSK	36	36	20.89	20.99	20.79										
16	IQAM	75	0	20.97	20.93	21.01	21.5	0.5								
16	IQAM	1	0	20.34	20.43	20.40										
16	IQAM	1	37	20.41	20.48	20.39										
16	IQAM	1	74	20.31	20.32	20.40										
16	IQAM	36	0	19.93	19.99	19.98	20.5	1.5								
16	IQAM	36	20	19.85	19.91	19.94										
16	IQAM	36	36	19.80	19.95	19.86										
16	IQAM	75	0	19.97	20.12	19.94										
16	IQAM	1	0	19.33	19.42	19.37	20.5	1.5								
16	IQAM	1	37	19.29	19.35	19.28										
16	IQAM	1	74	19.24	19.37	19.10										
16	IQAM	36	0	18.87	19.05	18.93										
16	IQAM	36	20	18.82	18.92	18.82	19.5	2.5								
16	IQAM	36	36	18.81	18.90	18.86										
16	IQAM	75	0	18.86	18.94	18.82										
16	25QAM	1	37	16.92	17.00	16.92										
16	25QAM	1	74	16.86	16.95	16.87	17.5	4.5								
16	25QAM	36	0	16.81	16.98	16.84										
16	25QAM	36	20	16.77	16.90	16.76										
16	25QAM	36	36	16.64	16.74	16.66										
16	25QAM	75	0	16.71	16.92	16.62	17.5	4.5								
Channel																
Frequency (MHz)																
10	QPSK	1	0	21.37	21.48	21.43	22	0								
10	QPSK	1	26	21.33	21.40	21.38										
10	QPSK	1	48	21.22	21.26	21.16	21.5	0.5								
10	QPSK	20	0	20.92	21.06	20.96										
10	QPSK	25	12	20.89	21.02	20.93										
10	QPSK	25	25	20.88	20.94	20.75										
10	IQAM	1	0	20.31	20.43	20.40	21.5	0.5								
10	IQAM	1	0	20.32	20.42	20.41										
10	IQAM	1	26	20.34	20.44	20.38										
10	IQAM	1	48	20.26	20.37	20.27										
10	IQAM	25	0	19.99	20.00	19.91	20.5	1.5								
10	IQAM	25	12	19.82	19.98	19.80										
10	IQAM	25	25	19.80	19.92	19.71										
10	IQAM	50	0	19.90	20.00	19.98										
10	IQAM	1	0	19.40	19.44	19.38	20.5	1.5								
10	IQAM	1	26	19.34	19.34	19.30										
10	IQAM	1	48	19.20	19.27	19.16										
10	IQAM	25	0	18.85	19.06	18.99										
10	IQAM	25	12	18.85	19.01	18.83	19.5	2.5								
10	IQAM	25	25	18.84	18.94	18.81										
10	IQAM	50	0	18.87	18.96	18.86										
10	25QAM	1	0	17.08	17.09	17.00										
10	25QAM	1	26	16.94	17.04	16.90	17.5	4.5								
10	25QAM	1	48	16.92	16.98	16.86										
10	25QAM	25	0	16.97	16.99	16.89										
10	25QAM	25	12	16.77	16.86	16.74										
10	25QAM	25	25	16.70	16.72	16.58	17.5	4.5								
10	25QAM	50	0	16.70	16.92	16.62										
Channel																
Frequency (MHz)																
5	QPSK	1	0	21.37	21.48	21.43	22	0								
5	QPSK	1	12	21.27	21.32	21.30										
5	QPSK	1	24	21.22	21.30	21.19	21.5	0.5								
5	QPSK	12	0	20.91	21.12	21.03										
5	QPSK	12	7	20.87	21.03	20.87										
5	QPSK	12	13	20.83	20.95	20.86										
5	IQAM	1	0	20.36	20.49	20.48	21.5	0.5								
5	IQAM	1	0	20.42	20.47	20.47										
5	IQAM	1	12	20.34	20.43	20.29										
5	IQAM	1	24	20.25	20.43	20.18										
5	IQAM	12	0	19.94	20.02	19.97	20.5	1.5								
5	IQAM	12	7	19.93	20.00	19.88										
5	IQAM	12	13	19.85	19.98	19.81										
5	IQAM	25	0	20.00	20.01	19.95										
5	IQAM	1	0	19.33	19.42	19.33	20.5	1.5								
5	IQAM	1	12	19.37	19.36	19.34										
5	IQAM	1	24	19.16	19.29	19.19										
5	IQAM	12	0	18.96	19.06	18.97										
5	IQAM	12	7	18.93	18.94	18.89	19.5	2.5								
5	IQAM	12	13	18.84	18.92	18.87										
5	IQAM	25	0	18.90	18.92	18.86										
5	25QAM	1	0	17.02	17.13	17.00										
5	25QAM	1	12	16.96	17.06	16.93	17.5	4.5								
5	25QAM	1	24	16.88	16.92	16.87										
5	25QAM	12	0	16.84	16.84	16.82										
5	25QAM	12	7	16.77	16.81	16.75										
5	25QAM	12	13	16.65	16.74	16.65	17.5	4.5								
5	25QAM	25	0	16.73	16.84	16.69										
Channel																
Frequency (MHz)																
3	QPSK	1	0	21.39	21.45	21.39	22	0								
3	QPSK	1	12	21.29	21.36	21.29										
3	QPSK	1	14	21.31	21.34	21.18	21.5	0.5								
3	QPSK	8	0	20.91	21.02	20.98										
3	QPSK	8	7	20.87	21.04	20.87										
3	QPSK	8	14	20.81	20.93	20.83										
3	IQAM	16	0	20.88	20.87	21.07	21.5	0.5								
3	IQAM	1	0	20.44	20.43	20.43										
3	IQAM	1	14	20.31	20.40	20.21										
3	IQAM	8	0	19.93	19.92	19.87										
3	IQAM	8	4	19.84	19.92	19.83	20.5	1.5								
3	IQAM	8	7	19.86	19.87	19.72										
3	IQAM	8	14	19.77	19.83	19.71										
3	IQAM	16	0	19.39	19.38	19.29										
3	IQAM	1	0	18.94	18.99	18.94	19.5	2.5								
3	IQAM	8	4	18.92	18.96	18.84										
3	IQAM	8	7	18.91	18.95	18.84										
3	IQAM	16	0	18.90	18.88	18.84										
3	25QAM	1	0	17.05	17.11	17.01	17.5	4.5								
3	25QAM	1	12	16.94	16.97	16.89										
3	25QAM	1	14	16.90	16.92	16.79										
3	25QAM	8	0	16.85	16.89	16.84										
3	25QAM	8	7	16.86	16.78	16.57	17.5	4.5								
3	25QAM	8	14	16.80	16.82	16.69										
3	25QAM	16	0	16.83	16.92	16.83										
3	25QAM	16	7	16.77	16.80	16.67										
3	25QAM	16	14	16.70	16.72	16.58	17.5	4.5								
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	21.36	21.37	21.37	22	0								
1.4	QPSK	1	6	21.28	21.32	21.21										
1.4	QPSK	1	6	21.22	21.26	21.21	21.5	0.5								
1.4	QPSK	3	0	21.26	21.32	21.21										
1.4	QPSK	3	6	21.20	21.26	21.21										
1.4	QPSK	3	12	21.12	21.27	21.21										
1.4	IQAM	1	0	20.92	21.04	20.91	20.5	1.5								
1.4	IQAM	1	6	20.88	20.98	20.82										
1.4	IQAM	3	0	20.40	20.43	20.39										
1.4	IQAM	3	6	20.40	20.43	20.39										
1.4	IQAM	6	0	19.97	20.03	19.94	20.5	1.5								
1.4	IQAM	6	6	19.86	19.95	19.94										
1.4	IQAM	6	12	19.83	19.93	19.83										
1.4	IQAM	12	0	19.40	19.41	19.39										
1.4	IQAM	1	0	19.39	19.41	19.39	20.5	1.5								
1.4	IQAM	1	6	19.37	19.40	19.39										
1.4	IQAM	1	12	19.35	19.37	19.34										
1.4	IQAM	3	0	18.93	18.97	18.92										
1.4	25QAM	1	0	17.70	17.79	17.69	19.5	2.5								
1.4	25QAM	1	6	17.60	17.69	17.61										
1.4	25QAM	1	12	17.58	17.69	17.61										
1.4	25QAM	3	0	16.74	16.78	16.76										
1.4	25QAM	3	6	16.71	16.80	16.71	17.5									

Band 38 Ant 2											
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int. (dBm)	MPE (dB)			
Channel				38760	38800	38160					
Frequency (MHz)											
20	QPSK	1	0	21.84	21.95	21.84	23.1	0			
20	QPSK	1	49	21.66	21.83	21.84					
20	QPSK	1	99	21.72	21.81	21.73					
20	QPSK	50	0	21.27	21.44	21.37					
20	QPSK	50	24	21.27	21.35	21.38	23	0.1			
20	QPSK	50	50	21.26	21.37	21.33					
20	QPSK	100	0	21.22	21.41	21.27					
20	HQAM	1	0	21.29	21.38	21.22					
20	HQAM	1	49	21.24	21.38	21.24	23	0.1			
20	HQAM	1	99	21.09	21.19	21.14					
20	HQAM	50	0	20.41	20.51	20.36					
20	HQAM	50	24	20.35	20.36	20.36					
20	HQAM	50	50	20.26	20.36	20.26	22	1.1			
20	HQAM	100	0	20.22	20.46	20.27					
20	HQAM	100	1	20.25	20.27	20.25					
20	HQAM	1	49	20.21	20.28	20.24					
20	HQAM	1	99	20.05	20.14	20.04	22	1.1			
20	HQAM	50	0	19.47	19.55	19.42					
20	HQAM	50	24	19.43	19.48	19.41					
20	HQAM	50	50	19.31	19.45	19.35					
20	HQAM	100	0	19.24	19.31	19.20	21	2.1			
20	HQAM	100	1	19.41	19.48	19.31					
20	HQAM	1	49	17.41	17.48	17.31					
20	HQAM	1	99	17.41	17.49	17.31					
20	HQAM	50	0	17.39	17.49	17.31	19	4.1			
20	HQAM	50	24	17.36	17.33	17.27					
20	HQAM	50	50	17.21	17.33	17.11					
20	HQAM	100	0	17.23	17.27	17.21					
Channel				37860	38000	38170					
Frequency (MHz)											
15	QPSK	1	0	21.62	21.63	21.63	23.1	0			
15	QPSK	1	37	21.62	21.73	21.79					
15	QPSK	1	74	21.62	21.70	21.63					
15	QPSK	36	0	21.32	21.30	21.26					
15	QPSK	36	20	21.14	21.30	21.34	23	0.1			
15	QPSK	36	36	21.12	21.29	21.26					
15	QPSK	75	0	21.11	21.33	21.21					
15	HQAM	1	0	21.25	21.20	21.18					
15	HQAM	1	37	21.14	21.27	21.28	23	0.1			
15	HQAM	1	74	21.03	21.08	21.02					
15	HQAM	36	0	20.31	20.44	20.43					
15	HQAM	36	20	20.23	20.29	20.31					
15	HQAM	36	39	20.19	20.32	20.12	22	1.1			
15	HQAM	75	0	20.16	20.30	20.13					
15	HQAM	75	0	20.12	20.14	20.12					
15	HQAM	1	37	20.17	20.21	20.11					
15	HQAM	1	74	20.16	20.08	20.10	22	1.1			
15	HQAM	36	0	19.37	19.46	19.35					
15	HQAM	36	20	19.38	19.45	19.34					
15	HQAM	36	39	19.35	19.42	19.31					
15	HQAM	75	0	19.15	19.27	19.11	19	4.1			
15	HQAM	1	0	17.29	17.38	17.28					
15	HQAM	1	37	17.10	17.30	17.10					
15	HQAM	1	74	17.10	17.23	17.05					
15	HQAM	36	0	17.19	17.42	17.12	19	4.1			
15	HQAM	36	20	17.22	17.30	17.14					
15	HQAM	36	39	17.19	17.19	17.19					
15	HQAM	75	0	17.16	17.21	17.13					
Channel				37860	38000	38050					
Frequency (MHz)											
10	QPSK	1	0	21.59	21.60	21.60	23.1	0			
10	QPSK	1	25	21.59	21.75	21.78					
10	QPSK	1	49	21.58	21.68	21.71					
10	QPSK	25	0	21.35	21.37	21.31					
10	QPSK	25	12	21.23	21.23	21.29	23	0.1			
10	QPSK	25	25	21.19	21.19	21.24					
10	QPSK	50	0	21.14	21.26	21.18					
10	HQAM	1	0	21.18	21.27	21.17					
10	HQAM	1	25	21.20	21.22	21.21	23	0.1			
10	HQAM	1	49	21.08	21.10	21.08					
10	HQAM	25	0	20.32	20.39	20.51					
10	HQAM	25	12	20.21	20.39	20.45					
10	HQAM	50	0	20.12	20.24	20.22	22	1.1			
10	HQAM	50	0	20.19	20.38	20.16					
10	HQAM	100	0	20.04	20.24	20.12					
10	HQAM	100	1	20.12	20.19	20.12					
10	HQAM	1	49	20.15	20.00	20.19	22	1.1			
10	HQAM	1	25	20.12	20.19	20.12					
10	HQAM	25	0	19.39	19.51	19.28					
10	HQAM	25	12	19.38	19.39	19.28					
10	HQAM	25	25	19.22	19.40	19.32	21	2.1			
10	HQAM	50	0	19.16	19.27	19.14					
10	HQAM	50	0	17.29	17.34	17.17					
10	HQAM	1	25	17.16	17.24	17.07					
10	HQAM	1	49	17.16	17.26	17.04	19	4.1			
10	HQAM	25	0	17.24	17.38	17.19					
10	HQAM	25	12	17.22	17.29	17.16					
10	HQAM	25	25	17.21	17.23	17.25					
10	HQAM	50	0	17.12	17.17	17.20	19	4.1			
10	HQAM	50	0	17.12	17.17	17.20					

Band 41 Ant 2											
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dB)	MPE (dB)
Channel				38750	40165	40620	41005	41840			
Frequency (MHz)											
20	QPSK	1	0	21.96	21.97	21.91	21.77	21.84	21.84	23.1	0
20	QPSK	1	49	21.91	21.81	21.92	21.86	21.79			
20	QPSK	1	99	21.80	21.80	21.88	21.77	21.72			
20	QPSK	50	0	21.46	21.47	21.53	21.47	21.43			
20	QPSK	50	24	21.38	21.34	21.48	21.42	21.30	23	0.1	
20	QPSK	50	50	21.27	21.28	21.33	21.23	21.19			
20	QPSK	100	0	21.41	21.36	21.43	21.44	21.32			
20	HQAM	1	0	21.35	21.36	21.41	21.38	21.23			
20	HQAM	1	49	21.22	21.49	21.26	21.53	21.18	23	0.1	
20	HQAM	1	99	21.15	21.20	21.29	21.26	21.12			
20	HQAM	50	0	20.42	20.49	20.57	20.45	20.47			
20	HQAM	50	24	20.37	20.39	20.52	20.40	20.34			
20	HQAM	50	50	20.37	20.51	20.45	20.48	20.30	22	1.1	
20	HQAM	100	0	20.47	20.49	20.52	20.38	20.40			
20	HQAM	100	1	20.45	20.42	20.45	20.40	20.36			
20	HQAM	1	49	20.32	20.35	20.43	20.29	20.40			
20	HQAM	1	99	20.03	20.31	20.35	20.23	20.36	21	2.1	
20	HQAM	50	24	19.84	19.47	19.55	19.37	19.39			
20	HQAM	50	50	19.33	19.35	19.39	19.28	19.27			
20	HQAM	100	0	19.36	19.43	19.50	19.37	19.37			
20	25QAM	1	0	17.53	17.51	17.62	17.49	17.63	19	4.1	
20	25QAM	1	49	17.54	17.51	17.63	17.59	17.45			
20	25QAM	1	99	17.46	17.43	17.50	17.38	17.51			
20	25QAM	50	0	17.46	17.43	17.48	17.46	17.36			
20	25QAM	50	24	17.34	17.37	17.49	17.41	17.31	19	4.1	
20	25QAM	50	50	17.27	17.33	17.42	17.33	17.32			
20	25QAM	100	0	17.43	17.43	17.47	17.39	17.39			
Channel <th>38750</th> <th>40173</th> <th>40620</th> <th>41005</th> <th>41816</th> <th>Turn-up time (dB)</th> <th>MPE (dB)</th>				38750	40173	40620	41005	41816			Turn-up time (dB)
Frequency (MHz)											
15	QPSK	1	0	21.94	21.94	21.91	21.77	21.84	21.84	23.1	0
15	QPSK	1	37	21.74	21.70	21.88	21.68	21.76			
15	QPSK	1	74	21.71	21.72	21.90	21.73	21.62			
15	QPSK	50	0	21.33	21.43	21.57	21.37	21.45			
15	QPSK	50	24	21.22	21.22	21.40	21.39	21.14	23	0.1	
15	QPSK	50	50	21.16	21.16	21.36	21.16	21.11			
15	QPSK	75	0	21.31	21.24	21.44	21.32	21.26			
15	HQAM	1	0	21.31	21.30	21.29	21.15	21.17			
15	HQAM	1	37	21.15	21.37	21.37	21.11	21.13	23	0.1	
15	HQAM	1	74	21.11	21.10	21.20	21.11	21.04			
15	HQAM	50	0	20.31	20.46	20.43	20.39	20.39			
15	HQAM	50	24	20.29	20.33	20.43	20.30	20.31			
15	HQAM	50	50	20.25	20.28	20.39	20.32	20.22	22	1.1	
15	HQAM	75	0	20.25	20.28	20.39	20.32	20.22			
15	HQAM	100	0	20.29	20.27	20.35	20.31	20.29			
15	HQAM	1	37	20.29	20.31	20.32	20.23	20.25			
15	HQAM	1	74	20.16	20.28	20.31	20.17	20.14	22	1.1	
15	HQAM	50	24	19.84	19.30	19.47	19.31	19.33			
15	HQAM	50	50	19.36	19.36	19.41	19.29	19.25			
15	HQAM	100	0	19.33	19.36	19.41	19.24	19.17			
15	HQAM	75	0	19.23	19.32	19.39	19.25	19.26	21	2.1	
15	HQAM	100	1	19.23	19.32	19.39	19.25	19.26			
15	25QAM	1	0	17.40	17.46	17.50	17.37	17.41			
15	25QAM	1	37	17.48	17.47	17.49	17.41	17.41			
15	25QAM	1	74	17.35	17.34	17.44	17.31	17.41	19	4.1	
15	25QAM	50	0	17.27	17.33	17.44	17.27	17.25			
15	25QAM	50	24	17.27	17.33	17.44	17.35	17.26			
15	25QAM	50	50	17.27	17.33	17.49	17.28	17.27			
15	25QAM	100	0	17.36	17.37	17.47	17.29	17.25			
Channel				38750	40160	40620	41005	41866	Turn-up time (dB)	MPE (dB)	
Frequency (MHz)											
10	QPSK	1	0	21.83	21.84	21.83	21.69	21.76	23.1	0	
10	QPSK	1	25	21.80	21.75	21.87	21.82	21.73			
10	QPSK	1	49	21.72	21.69	21.89	21.71	21.60			
10	QPSK	25	0	21.37	21.47	21.57	21.36	21.39			
10	QPSK	25	12	21.34	21.20	21.38	21.30	21.18	23	0.1	
10	QPSK	25	37	21.28	21.21	21.35	21.20	21.16			
10	QPSK	60	0	21.34	21.26	21.40	21.29	21.21			
10	HQAM	1	0	21.32	21.21	21.29	21.17	21.19			
10	HQAM	1	25	21.17	21.18	21.25	21.10	21.15	23	0.1	
10	HQAM	1	49	21.06	21.07	21.14	21.22	21.03			
10	HQAM	25	0	20.39	20.39	20.44	20.37	20.37			
10	HQAM	25	12	20.29	20.29	20.44	20.30	20.32			
10	HQAM	25	37	20.33	20.19	20.38	20.36	20.22	22	1.1	
10	HQAM	60	0	20.40	20.40	20.45	20.36	20.36			
10	HQAM	1	49	20.27	20.28	20.42	20.27	20.25			
10	HQAM	1	25	20.24	20.27	20.35	20.18	20.28			
10	HQAM	1	49	20.03	20.28	20.31	20.16	20.22	22	1.1	
10	HQAM	25	0	19.38	19.34	19.44	19.32	19.30			
10	HQAM	25	12	19.34	19.35	19.35	19.24	19.25			
10	HQAM	25	37	19.28	19.22	19.32	19.29	19.14			
10	HQAM	60	0	19.28	19.31	19.47	19.27	19.30	21	2.1	
10	HQAM	1	0	17.46	17.42	17.50	17.46	17.46			
10	25QAM	1	0	17.48	17.46	17.57	17.47	17.48			
10	25QAM	1	49	17.43	17.39	17.45	17.25	17.29			
10	25QAM	1	25	17.40	17.43	17.43	17.36	17.36	19	4.1	
10	25QAM	25	12	17.29	17.27	17.44	17.27	17.29			
10	25QAM	25	37	17.25	17.27	17.47	17.27	17.28			
10	25QAM	60	0	17.25	17.28	17.37	17.27	17.28			
Channel				38675	40148	40620	41005	41866	Turn-up time (dB)	MPE (dB)	
Frequency (MHz)											
5	QPSK	1	0	21.84	21.84	21.83	21.69	21.76	23.1	0	
5	QPSK	1	12	21.73	21.71	21.89	21.73	21.63			
5	QPSK	1	24	21.64	21.74	21.89	21.62	21.61			
5	QPSK	12	0	21.37	21.47	21.57	21.36	21.39			
5	QPSK	12	7	21.27	21.30	21.43	21.30	21.23	23	0.1	
5	QPSK	12	19	21.21	21.18	21.35	21.20	21.16			
5	QPSK	24	0	21.30	21.29	21.38	21.35	21.21			
5	HQAM	1	0	21.23	21.27	21.29	21.17	21.17			
5	HQAM	1	12	21.14	21.17	21.27	21.10	21.15	23	0.1	
5	HQAM	1	24	21.02	21.16	21.15	21.21	21.06			
5	HQAM	12	0	20.37	20.40	20.45	20.33	20.32			
5	HQAM	12	7	20.27	20.46	20.47	20.28	20.31			
5	HQAM	12	19	20.27	20.26	20.38	20.31	20.27	22	1.1	
5	HQAM	24	0	20.36	20.35	20.43	20.30	20.36			
5	HQAM	1	49	20.26	20.25	20.37	20.30	20.29			
5	HQAM	1	12	20.18	20.30	20.31	20.16	20.22			
5	HQAM	12	24	19.72	19.28	19.39	19.18	19.23	22	1.1	
5	HQAM	12	37	19.31	19.37	19.35	19.31	19.26			
5	HQAM	24	0	19.28	19.31	19.39	19.29	19.23			
5	HQAM	25	0	19.31	19.31	19.47	19.31	19.25			
5	25QAM	1	0	17.46	17.38	17.48	17.36	17.48	19	4.1	
5	25QAM	1	12	17.48	17.41	17.47	17.40	17.41			
5	25QAM	1	24	17.33	17.40	17.45	17.26	17.30			
5	25QAM	1	37	17.34	17.41	17.43	17.26	17.31			
5	25QAM	12	7	17.25	17.26	17.45	17.34	17.27	19	4.1	
5	25QAM	12	19	17.25	17.26	17.32	17.21	17.26			
5	25QAM	12	37	17.23	17.28	17.47	17.23	17.28			
5	25QAM	24	0	17.25	17.26	17.47	17.23	17.28			



Band 42 Ant 2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.32	20.32	20.35	21.6	0				
20	QPSK	1	49	20.32	20.33	20.31						
20	QPSK	1	99	20.31	20.27	20.33						
20	QPSK	50	0	20.29	20.29	20.31	21	0.6				
20	QPSK	50	24	20.30	20.31	20.32						
20	QPSK	50	49	20.15	20.25	20.35						
20	QPSK	100	0	20.15	20.25	20.19	21	0.6				
20	16QAM	1	0	20.09	20.21	20.11						
20	16QAM	1	49	20.07	20.16	20.20						
20	16QAM	1	99	19.95	20.09	20.03	20	1.6				
20	16QAM	50	24	19.17	19.20	19.19						
20	16QAM	50	49	19.18	19.25	19.22						
20	16QAM	50	50	19.06	19.18	19.08	20	1.6				
20	16QAM	100	0	19.06	19.22	19.06						
20	64QAM	1	0	19.04	19.15	19.10						
20	64QAM	1	49	19.05	19.13	19.05	20	1.6				
20	64QAM	1	99	19.06	19.06	19.07						
20	64QAM	50	0	19.05	19.15	19.04						
20	64QAM	50	24	18.07	18.10	17.86	19	2.6				
20	64QAM	50	50	17.96	18.03	17.84						
20	64QAM	100	0	18.17	18.26	18.17						
20	256QAM	1	0	18.23	18.31	18.22	17	4.6				
20	256QAM	1	49	18.11	18.26	18.20						
20	256QAM	1	99	18.06	18.19	18.06						
20	256QAM	50	0	18.10	18.20	18.11	17	4.6				
20	256QAM	50	24	18.08	18.13	18.08						
20	256QAM	50	50	18.08	18.13	18.08						
20	256QAM	100	0	18.07	18.26	18.04	17	4.6				
20	256QAM	100	0	18.07	18.26	18.04						
20	256QAM	100	0	18.07	18.26	18.04						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.17	20.21	20.13	21.6	0				
15	QPSK	1	37	20.26	20.21	20.26						
15	QPSK	1	74	20.13	20.19	20.15						
15	QPSK	36	0	20.14	20.25	20.03	21	0.6				
15	QPSK	36	20	20.11	20.08	20.07						
15	QPSK	36	36	20.08	20.11	20.09						
15	16QAM	1	0	20.00	20.18	20.05	21	0.6				
15	16QAM	1	37	19.99	20.03	19.99						
15	16QAM	1	74	19.92	19.99	19.89						
15	16QAM	36	0	19.09	19.17	19.07	20	1.6				
15	16QAM	36	20	19.06	19.18	19.06						
15	16QAM	36	36	19.00	19.09	19.04						
15	16QAM	75	0	18.02	18.18	18.07	20	1.6				
15	64QAM	1	0	18.00	19.11	18.02						
15	64QAM	1	37	18.07	18.08	18.06						
15	64QAM	1	74	18.07	18.00	18.04	19	2.6				
15	64QAM	36	0	18.00	18.07	17.97						
15	64QAM	36	20	17.92	18.02	17.82						
15	64QAM	36	36	18.00	18.00	18.00	17	4.6				
15	64QAM	75	0	18.08	18.23	18.12						
15	256QAM	1	0	18.00	18.23	18.12						
15	256QAM	1	37	18.00	18.23	18.12	17	4.6				
15	256QAM	1	74	18.00	18.23	18.12						
15	256QAM	36	0	18.00	18.23	18.12						
15	256QAM	36	20	18.00	18.23	18.12	17	4.6				
15	256QAM	36	36	18.00	18.23	18.12						
15	256QAM	75	0	18.00	18.23	18.12						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.23	20.21	20.28	21.6	0				
10	QPSK	1	25	20.22	20.20	20.28						
10	QPSK	1	49	20.00	20.25	20.14						
10	QPSK	25	0	20.09	20.16	20.21	21	0.6				
10	QPSK	25	12	20.04	20.05	20.16						
10	QPSK	25	25	20.00	20.04	20.09						
10	QPSK	50	0	20.00	20.14	20.00	21	0.6				
10	16QAM	1	0	20.05	20.11	20.09						
10	16QAM	1	25	20.01	20.07	19.95						
10	16QAM	1	49	19.97	19.99	19.93	21	0.6				
10	16QAM	25	0	19.12	19.20	19.10						
10	16QAM	25	12	19.12	19.22	19.11						
10	16QAM	25	25	19.06	19.06	19.04	20	1.6				
10	16QAM	50	0	19.00	19.08	19.04						
10	64QAM	1	0	18.91	19.08	18.97						
10	64QAM	1	25	18.98	19.05	18.98	20	1.6				
10	64QAM	1	49	18.94	19.00	18.96						
10	64QAM	25	0	17.94	18.06	17.87						
10	64QAM	25	12	17.86	18.04	17.80	19	2.6				
10	64QAM	25	25	17.80	17.93	17.81						
10	64QAM	50	0	18.04	18.19	18.07						
10	256QAM	1	0	18.15	18.26	18.15	17	4.6				
10	256QAM	1	25	18.06	18.20	18.15						
10	256QAM	1	49	18.03	18.07	18.05						
10	256QAM	25	0	18.00	18.11	18.00	17	4.6				
10	256QAM	25	12	18.07	18.15	18.01						
10	256QAM	25	25	18.02	18.09	18.00						
10	256QAM	50	0	18.00	18.15	18.06	17	4.6				
10	256QAM	50	0	18.00	18.15	18.06						
10	256QAM	50	0	18.00	18.15	18.06						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.25	20.28	20.08	21.6	0				
5	QPSK	1	12	20.22	20.24	20.10						
5	QPSK	1	24	20.19	20.24	20.16						
5	QPSK	12	0	20.01	20.16	20.06	21	0.6				
5	QPSK	12	7	20.04	20.08	20.17						
5	QPSK	12	13	20.00	20.04	20.12						
5	QPSK	25	0	20.07	20.09	20.09	21	0.6				
5	16QAM	1	0	20.02	20.10	20.05						
5	16QAM	1	12	19.95	20.03	19.94						
5	16QAM	1	24	19.80	19.99	19.80	20	1.6				
5	16QAM	12	0	19.02	19.02	18.90						
5	16QAM	12	7	19.12	19.10	19.14						
5	16QAM	12	13	19.01	19.10	19.04	20	1.6				
5	16QAM	25	0	19.05	19.18	19.04						
5	64QAM	1	0	19.00	19.15	19.00						
5	64QAM	1	12	19.02	19.12	18.90	20	1.6				
5	64QAM	1	24	18.97	18.97	18.91						
5	64QAM	12	0	17.92	18.07	17.85						
5	64QAM	12	7	18.04	17.96	17.92	19	2.6				
5	64QAM	12	13	17.88	17.94	17.84						
5	64QAM	25	0	18.05	18.20	18.00						
5	256QAM	1	0	18.12	18.24	18.13	17	4.6				
5	256QAM	1	12	18.02	18.16	18.12						
5	256QAM	1	24	18.02	18.06	18.00						
5	256QAM	12	0	18.00	18.12	18.14	17	4.6				
5	256QAM	12	7	18.07	18.07	18.00						
5	256QAM	12	13	18.03	18.06	18.00						
5	256QAM	25	0	18.03	18.13	18.04	17	4.6				
5	256QAM	25	0	18.03	18.13	18.04						
5	256QAM	25	0	18.03	18.13	18.04						

Band 42 Part 96 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.32	20.31	20.17	21.6	0	
20	QPSK	1	49	20.30	20.18	20.23			
20	QPSK	50	0	20.13	20.14	20.08			
20	QPSK	50	0	20.13	20.14	20.10			
20	QPSK	50	24	20.12	20.13	20.10	21	0.6	
20	QPSK	100	0	20.03	20.02	20.03			
20	QPSK	100	0	20.03	20.03	20.10			
20	16QAM	1	0	20.05	20.13	20.04			
20	16QAM	1	49	20.03	20.11	20.03	21	0.6	
20	16QAM	1	99	19.90	20.03	19.98			
20	16QAM	50	0	19.03	19.20	19.13			
20	16QAM	50	0	19.03	19.20	19.10			
20	16QAM	50	50	18.95	19.03	18.99	20	1.6	
20	64QAM	1	0	18.98	19.06	18.98			
20	64QAM	1	0	18.91	19.04	19.01			
20	64QAM	1	49	18.91	19.04	19.01	20	1.6	
20	64QAM	1	99	18.83	18.96	18.93			
20	64QAM	50	0	18.04	18.09	17.95			
20	64QAM	50	24	18.06	17.88	17.93	19	2.6	
20	64QAM	50	24	18.01	18.01	17.84			
20	64QAM	100	0	18.10	18.24	18.02			
20	256QAM	1	0	16.17	16.26	16.21			
20	256QAM	1	0	16.04	16.26	16.08	17	4.6	
20	256QAM	1	50	16.00	16.13	16.06			
20	256QAM	1	50	16.00	16.13	16.05			
20	256QAM	50	24	16.00	16.17	16.04	17	4.6	
20	256QAM	50	50	16.00	16.12	16.02			
20	256QAM	100	0	15.02	15.08	15.14			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.22	20.19	20.14	21.6	0	
15	QPSK	1	37	20.23	20.05	20.09			
15	QPSK	1	74	20.13	20.04	20.04			
15	QPSK	36	0	20.08	20.01	20.04			
15	QPSK	36	20	19.96	20.03	20.04	21	0.6	
15	QPSK	36	20	19.96	20.03	19.94			
15	QPSK	75	0	19.99	20.12	20.12			
15	16QAM	1	0	19.92	19.97	19.91	21	0.6	
15	16QAM	1	37	19.94	20.03	19.94			
15	16QAM	1	74	19.92	19.93	19.79			
15	16QAM	36	0	19.91	19.97	19.91			
15	16QAM	36	20	19.91	19.96	19.91	20	1.6	
15	16QAM	36	39	19.80	19.91	19.88			
15	16QAM	75	0	19.83	19.97	19.87			
15	64QAM	1	0	18.78	19.09	18.98			
15	64QAM	1	37	18.91	18.88	18.88	20	1.6	
15	64QAM	1	74	18.93	18.93	18.83			
15	64QAM	36	0	17.96	18.06	17.86			
15	64QAM	36	20	17.91	17.97	17.90	19	2.6	
15	64QAM	36	20	17.82	17.82	17.82			
15	64QAM	75	0	18.01	18.23	17.99			
15	256QAM	1	0	16.02	16.25	16.01			
15	256QAM	1	37	16.03	16.14	15.98	17	4.6	
15	256QAM	1	74	15.95	16.04	15.98			
15	256QAM	36	0	15.02	15.02	15.02			
15	256QAM	36	20	15.84	16.02	16.01	17	4.6	
15	256QAM	36	39	16.00	16.05	15.99			
15	256QAM	75	0	15.95	16.05	15.99			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.19	20.19	20.10	21.6	0	
10	QPSK	1	25	20.19	20.06	20.09			
10	QPSK	1	50	20.03	20.03	20.03			
10	QPSK	26	0	20.13	20.21	20.01			
10	QPSK	26	12	20.12	20.12	20.00	21	0.6	
10	QPSK	50	0	20.08	20.08	20.01			
10	QPSK	50	0	19.98	20.18	20.12			
10	16QAM	1	0	19.95	19.95	19.92	21	0.6	
10	16QAM	1	49	19.76	20.02	19.79			
10	16QAM	1	99	19.85	19.92	19.85			
10	16QAM	26	12	19.12	19.01	18.99	20	1.6	
10	16QAM	26	25	18.93	18.94	18.94			
10	64QAM	1	0	18.89	19.01	18.87			
10	64QAM	1	25	18.85	18.99	18.90	20	1.6	
10	64QAM	1	50	18.85	19.02	18.85			
10	64QAM	26	0	18.03	18.00	17.88	19	2.6	
10	64QAM	26	12	17.86	17.86	17.73			
10	64QAM	50	0	18.01	18.09	17.99			
10	64QAM	50	0	18.01	18.09	18.04			
10	256QAM	1	0	16.05	16.19	15.92	17	4.6	
10	256QAM	1	49	15.92	16.04	15.91			
10	256QAM	26	12	15.95	16.04	15.93			
10	256QAM	26	25	15.86	16.04	15.89	17	4.6	
10	256QAM	50	0	15.05	15.15	15.07			
10	256QAM	50	0	15.05	15.15	15.07			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.20	20.20	20.10	21.6	0	
5	QPSK	1	12	20.17	20.10	20.20			
5	QPSK	1	25	20.17	20.10	20.10			
5	QPSK	12	0	20.11	20.21	20.11			
5	QPSK	12	7	20.09	20.21	20.09	21	0.6	
5	QPSK	26	13	20.09	20.01	20.02			
5	QPSK	26	0	19.90	20.12	19.16			
5	QPSK	50	0	19.93	20.03	20.03			
5	16QAM	1	12	19.93	19.94	19.94	21	0.6	
5	16QAM	1	24	19.91	20.01	19.98			
5	16QAM	1	36	19.91	19.92	19.85			
5	16QAM	12	7	19.09	19.01	18.99	20	1.6	
5	16QAM	12	13	18.79	18.96	18.93			
5	16QAM	26	13	18.89	19.09	18.88			
5	64QAM	1	0	18.91	19.01	18.99			
5	64QAM	1	12	18.91	19.09	18.99	20	1.6	
5	64QAM	1	24	18.94	18.93	18.78			
5	64QAM	12	0	17.95	18.06	17.93	19	2.6	
5	64QAM	12	13	17.95	17.95	17.82			
5	64QAM	26	0	18.08	18.09	17.88			
5	64QAM	26	13	18.08	18.08	17.92	18	1.2	
5	256QAM	1	12	16.00	16.21	15.98	17	4.6	
5	256QAM	1	24	16.00	16.21	16.00			
5	256QAM	12	0	15.98	16.00	15.95			
5	256QAM	12	7	15.99	16.09	16.04			
5	256QAM	26	13	15.94	16.04	15.97	17	4.6	
5	256QAM	26	0	15.90	15.99	16.04			



Band 48 Ant 2									
BW Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up band (dBm)	MPR (dB)
Channel				56340	56830	56150	56660	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56340	56830	56150	56660		
20	QPSK	1	0	20.55	20.57	20.53	20.49	21.6	0
20	QPSK	1	49	20.33	20.46	20.47	20.30		
20	QPSK	8	0	20.37	20.41	20.34	20.44		
20	QPSK	50	0	20.43	20.53	20.47	20.41		
20	QPSK	50	24	20.48	20.50	20.48	20.37	21.6	0
20	QPSK	50	50	20.52	20.52	20.50	20.32		
20	QPSK	100	0	20.43	20.48	20.44	20.31		
20	16QAM	1	0	20.45	20.42	20.36	20.41	21.6	0
20	16QAM	1	49	20.49	20.55	20.38	20.44		
20	16QAM	1	99	20.39	20.50	20.44	20.38		
20	16QAM	25	0	20.29	20.35	20.27	20.26		
20	16QAM	50	24	20.21	20.30	20.25	20.25	21	0.6
20	16QAM	50	50	20.13	20.23	20.10	20.16		
20	16QAM	100	0	20.22	20.28	20.22	20.22		
20	64QAM	1	0	20.16	20.27	20.21	20.15		
20	64QAM	1	49	20.08	20.22	20.18	20.17	21	0.6
20	64QAM	1	99	20.05	20.15	20.02	20.02		
20	64QAM	50	0	19.21	19.31	19.21	19.24		
20	64QAM	50	24	19.17	19.26	19.11	19.14	20	1.6
20	64QAM	50	50	19.10	19.19	19.09	19.08		
20	64QAM	100	0	19.20	19.28	19.20	19.23		
20	256QAM	1	0	17.29	17.34	17.24	17.28	18	3.6
20	256QAM	1	49	17.21	17.29	17.25	17.19		
20	256QAM	1	99	17.14	17.22	17.09	17.10		
20	256QAM	25	0	17.16	17.28	17.14	17.17		
20	256QAM	50	24	17.18	17.23	17.15	17.15	18	3.6
20	256QAM	50	50	17.10	17.16	17.10	17.04		
20	256QAM	100	0	17.13	17.23	17.13	17.12		
Channel				56315	56800	56160	56660	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56315	56800	56160	56660		
15	QPSK	1	0	20.49	20.44	20.35	20.42	21.6	0
15	QPSK	1	37	20.27	20.39	20.30	20.28		
15	QPSK	1	74	20.14	20.25	20.32	20.29		
15	QPSK	36	0	20.35	20.45	20.30	20.32		
15	QPSK	36	20	20.38	20.38	20.28	20.29	21.6	0
15	QPSK	36	36	20.41	20.48	20.42	20.36		
15	QPSK	75	0	20.38	20.39	20.33	20.26		
15	16QAM	1	0	20.29	20.24	20.21	20.24	21.6	0
15	16QAM	1	37	20.39	20.47	20.29	20.31		
15	16QAM	1	74	20.29	20.40	20.30	20.21		
15	16QAM	36	0	20.14	20.23	20.13	20.20		
15	16QAM	36	20	20.14	20.26	20.15	20.16	21	0.6
15	16QAM	36	36	20.02	20.17	20.04	20.09		
15	16QAM	75	0	20.12	20.20	20.22	20.20		
15	64QAM	1	0	20.08	20.21	20.13	20.02	21	0.6
15	64QAM	1	37	20.02	20.08	20.13	20.10		
15	64QAM	1	74	19.92	20.11	19.96	19.94		
15	64QAM	36	0	19.11	19.25	19.09	19.13		
15	64QAM	36	20	19.10	19.18	18.97	19.06	20	1.6
15	64QAM	36	36	19.06	19.14	19.07	19.03		
15	64QAM	75	0	19.09	19.24	19.07	19.17		
15	256QAM	1	0	17.16	17.22	17.13	17.20	18	3.6
15	256QAM	1	37	17.07	17.25	17.13	17.14		
15	256QAM	1	74	17.10	17.09	16.99	17.00		
15	256QAM	36	0	17.09	17.14	17.08	17.03		
15	256QAM	36	20	17.05	17.14	17.07	17.06	18	3.6
15	256QAM	36	36	16.98	17.13	17.09	16.93		
15	256QAM	75	0	17.04	17.17	17.06	17.01		
Channel				56290	56315	56165	56665	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56290	56315	56165	56665		
10	QPSK	1	0	20.47	20.59	20.49	20.46	21.6	0
10	QPSK	1	25	20.23	20.30	20.40	20.28		
10	QPSK	1	49	20.16	20.35	20.30	20.29		
10	QPSK	25	0	20.40	20.40	20.43	20.35		
10	QPSK	25	12	20.34	20.45	20.23	20.26	21.6	0
10	QPSK	25	25	20.37	20.46	20.39	20.20		
10	QPSK	50	0	20.25	20.35	20.32	20.20		
10	16QAM	1	0	20.43	20.32	20.22	20.35	21.6	0
10	16QAM	1	25	20.33	20.51	20.19	20.39		
10	16QAM	1	49	20.21	20.39	20.34	20.20		
10	16QAM	25	0	20.20	20.24	20.14	20.15		
10	16QAM	25	12	20.10	20.25	20.12	20.10	21	0.6
10	16QAM	25	25	19.99	20.16	20.02	20.04		
10	16QAM	50	0	20.16	20.18	20.20	20.21		
10	64QAM	1	0	20.07	20.23	20.20	20.04	21	0.6
10	64QAM	1	25	19.96	20.19	20.10	20.02		
10	64QAM	1	49	19.98	20.10	20.03	19.93		
10	64QAM	25	0	19.11	19.25	19.09	19.10		
10	64QAM	25	12	19.13	19.16	18.96	19.11	20	1.6
10	64QAM	25	25	19.04	19.13	19.05	18.98		
10	64QAM	50	0	19.10	19.17	19.10	19.08		
10	256QAM	1	0	17.22	17.21	17.16	17.20	18	3.6
10	256QAM	1	25	17.12	17.14	17.11	17.04		
10	256QAM	1	49	17.04	17.14	17.05	17.01		
10	256QAM	25	0	17.08	17.14	17.02	17.11		
10	256QAM	25	12	17.00	17.09	17.07	17.06	18	3.6
10	256QAM	25	25	17.05	17.02	17.04	17.00		
10	256QAM	50	0	17.09	17.14	17.11	17.01		
Channel				56265	56307.5	56425	56697.5	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56265	56307.5	56425	56697.5		
5	QPSK	1	0	20.49	20.51	20.47	20.34	21.6	0
5	QPSK	1	12	20.19	20.37	20.41	20.13		
5	QPSK	1	24	20.21	20.31	20.27	20.38		
5	QPSK	12	0	20.29	20.49	20.32	20.29		
5	QPSK	12	7	20.41	20.34	20.36	20.23	21.6	0
5	QPSK	12	13	20.50	20.49	20.44	20.25		
5	QPSK	25	0	20.35	20.37	20.39	20.21		
5	16QAM	1	0	20.35	20.29	20.29	20.20	21.6	0
5	16QAM	1	12	20.45	20.43	20.20	20.41		
5	16QAM	1	24	20.23	20.40	20.23	20.19		
5	16QAM	12	0	20.22	20.31	20.23	20.21		
5	16QAM	12	7	20.07	20.20	20.08	20.19	21	0.6
5	16QAM	12	13	19.99	20.18	19.95	20.01		
5	64QAM	1	0	20.14	20.19	20.12	20.12		
5	64QAM	1	0	20.12	20.19	20.11	20.04	21	0.6
5	64QAM	1	12	19.96	20.09	20.12	20.08		
5	64QAM	1	24	20.01	20.01	20.00	19.90		
5	64QAM	12	0	19.12	19.21	19.14	19.10	20	1.6
5	64QAM	12	7	19.06	19.22	19.05	19.01		
5	64QAM	12	13	18.97	19.12	18.88	19.04		
5	64QAM	25	0	19.16	19.21	19.03	19.14		
5	256QAM	1	0	17.22	17.22	17.10	17.22	18	3.6
5	256QAM	1	12	17.07	17.24	17.21	17.07		
5	256QAM	1	24	17.08	17.18	17.04	17.07		
5	256QAM	12	0	17.02	17.15	17.11	17.10		
5	256QAM	12	7	17.07	17.19	17.04	17.13	18	3.6
5	256QAM	12	13	17.03	17.04	17.05	16.97		
5	256QAM	25	0	17.03	17.20	17.10	17.01		

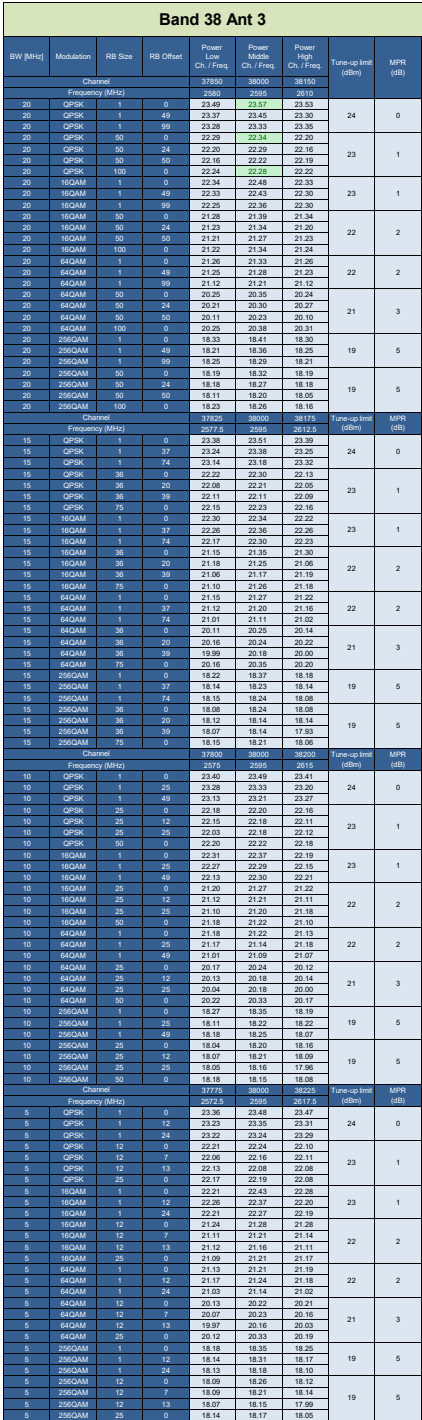
GSM1900 Ant 3		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM11 Tx slot		31.11	31.18	31.05	31.50	22.11	22.18	22.05	22.50
GPRS 1 Tx slot		31.15	31.23	31.09	31.50	22.15	22.23	22.09	22.50
GPRS 2 Tx slots		27.52	27.60	27.54	28.00	21.52	21.60	21.54	22.00
GPRS 3 Tx slots		25.19	25.28	25.15	27.00	20.93	21.02	20.89	22.74
GPRS 4 Tx slots		23.39	23.52	23.40	25.00	20.39	20.52	20.40	22.00
EDGE 1 Tx slot		25.64	25.74	25.60	27.00	16.64	16.74	16.60	18.00
EDGE 2 Tx slots		24.06	24.12	23.99	25.50	18.06	18.12	17.99	19.50
EDGE 3 Tx slots		22.84	22.91	22.79	24.50	18.58	18.65	18.53	20.24
EDGE 4 Tx slots		20.73	20.80	20.77	22.50	17.73	17.80	17.77	19.50

Band		WCDMA II Ant 3			Tune-up Limit (dBm)	WCDMA IV Ant 3			Tune-up Limit (dBm)
TX Channel		9262	8400	9538		1312	1413	1513	
Rx Channel		9662	8800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.10	23.38	23.38	24.10	24.22	24.31	24.18	24.50
3GPP Rel 99	RMC 12.2Kbps	23.34	23.51	23.42	24.10	24.27	24.34	24.23	24.50
3GPP Rel 6	HSDPA Subtest-1	22.34	22.46	22.69	23.10	23.16	23.31	23.31	23.50
3GPP Rel 6	HSDPA Subtest-2	22.46	22.52	22.23	23.10	23.22	23.35	23.21	23.50
3GPP Rel 6	HSDPA Subtest-3	21.91	22.03	21.96	22.60	22.93	22.81	22.69	23.00
3GPP Rel 6	HSDPA Subtest-4	21.89	22.05	22.09	22.60	22.71	22.30	22.81	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.44	22.57	22.40	23.10	23.28	23.34	23.23	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.38	22.56	22.54	23.10	23.20	23.37	23.38	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.80	21.99	21.95	22.60	22.53	22.77	22.61	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.90	21.81	21.93	22.60	22.60	22.71	22.57	23.00
3GPP Rel 6	HSUPA Subtest-1	22.34	22.58	22.38	23.10	23.30	23.34	23.26	23.50
3GPP Rel 6	HSUPA Subtest-2	20.67	20.52	20.53	21.10	21.34	21.37	21.31	21.50
3GPP Rel 6	HSUPA Subtest-3	21.67	21.45	21.49	22.10	22.20	22.32	22.26	22.50
3GPP Rel 6	HSUPA Subtest-4	20.26	20.57	20.55	21.10	21.16	21.46	21.43	21.50
3GPP Rel 6	HSUPA Subtest-5	22.38	22.58	22.27	23.10	23.18	23.20	23.21	23.50

Band 2 Ant 3																			
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Turn-up Init.	MPE (dB)											
Channel																			
Frequency (MHz)																			
20	QPSK	1	0	22.08	22.18	22.14			23.4	0									
20	QPSK	1	49	21.88	22.03	22.04													
20	QPSK	1	99	22.01	22.14	21.88													
20	QPSK	50	0	21.83	21.89	21.87			23	0.4									
20	QPSK	50	24	21.49	21.63	21.52													
20	QPSK	50	50	21.85	21.68	21.81													
20	QPSK	100	0	21.80	21.77	21.80			23	0.4									
20	16QAM	1	0	21.41	21.67	21.57													
20	16QAM	1	49	21.87	21.50	21.49													
20	16QAM	1	99	21.70	21.80	21.81			22	1.4									
20	16QAM	50	0	20.71	20.85	20.84													
20	16QAM	50	24	20.88	20.58	20.49													
20	16QAM	50	50	20.86	20.62	20.75			21	2.4									
20	16QAM	100	0	20.85	20.79	20.88													
20	16QAM	1	0	20.92	20.69	20.46													
20	16QAM	1	49	20.81	20.83	20.86			22	1.4									
20	16QAM	50	0	20.87	20.73	20.53													
20	16QAM	50	0	19.69	19.30	19.57													
20	16QAM	50	24	19.87	19.74	19.48			21	2.4									
20	16QAM	50	50	19.47	19.78	19.75													
20	16QAM	100	0	19.73	19.89	19.85													
20	16QAM	1	49	17.45	17.63	17.66			19	4.4									
20	256QAM	1	99	17.82	17.67	17.64													
20	256QAM	50	0	17.28	17.56	17.54													
20	256QAM	50	24	17.49	17.80	17.58			19	4.4									
20	256QAM	50	50	17.64	17.64	17.64													
20	256QAM	100	0	17.67	17.63	17.63													
Channel																			
Frequency (MHz)																			
15	QPSK	1	0	21.87	21.88	21.92			23.4	0									
15	QPSK	1	37	21.80	22.01	22.01													
15	QPSK	1	74	21.94	21.97	21.78													
15	QPSK	36	0	21.86	21.87	21.81			23	0.4									
15	QPSK	36	36	21.47	21.48	21.47													
15	QPSK	36	36	21.46	21.51	21.47													
15	16QAM	75	0	21.86	21.62	21.86			23	0.4									
15	16QAM	1	0	21.30	21.83	21.85													
15	16QAM	1	37	21.45	21.47	21.46													
15	16QAM	1	74	21.59	21.67	21.55			22	1.4									
15	16QAM	36	0	20.89	20.78	20.85													
15	16QAM	36	20	20.43	20.39	20.32													
15	16QAM	36	20	20.54	20.58	20.49			21	2.4									
15	16QAM	75	0	20.82	20.78	20.80													
15	16QAM	1	0	20.23	20.67	20.45													
15	16QAM	1	37	20.14	20.61	20.48			22	1.4									
15	16QAM	1	74	20.50	20.69	20.57													
15	16QAM	36	0	19.88	19.87	19.84													
15	16QAM	36	20	19.46	19.51	19.48			21	2.4									
15	16QAM	36	36	19.39	19.35	19.35													
15	16QAM	75	0	19.86	19.88	19.83													
15	256QAM	1	0	17.46	17.61	17.59			19	4.4									
15	256QAM	1	37	17.33	17.52	17.55													
15	256QAM	1	74	17.43	17.61	17.59													
15	256QAM	36	0	17.64	17.64	17.64			19	4.4									
15	256QAM	36	20	17.40	17.59	17.47													
15	256QAM	36	36	17.40	17.54	17.51													
15	256QAM	75	0	17.61	17.60	17.60													
Channel																			
Frequency (MHz)																			
10	QPSK	1	0	22.01	22.03	22.03			23.4	0									
10	QPSK	1	25	22.00	21.95	21.91													
10	QPSK	1	49	21.89	22.00	21.92													
10	QPSK	25	0	21.83	21.80	21.82			23	0.4									
10	QPSK	25	12	21.33	21.50	21.42													
10	QPSK	25	25	21.80	21.66	21.47													
10	QPSK	100	0	21.81	21.69	21.69			23	0.4									
10	16QAM	1	0	21.37	21.61	21.49													
10	16QAM	1	25	21.45	21.43	21.37													
10	16QAM	1	49	21.83	21.77	21.81			22	1.4									
10	16QAM	25	0	20.88	20.76	20.59													
10	16QAM	25	12	20.47	20.60	20.44													
10	16QAM	25	12	20.52	20.58	20.63			21	2.4									
10	16QAM	50	0	20.50	20.78	20.81													
10	16QAM	1	0	20.24	20.60	20.30													
10	16QAM	1	25	20.42	20.47	20.48			22	1.4									
10	16QAM	1	49	20.52	20.57	20.58													
10	16QAM	25	0	19.80	19.80	19.82													
10	16QAM	25	12	19.82	19.78	19.85			21	2.4									
10	16QAM	50	0	19.46	19.70	19.62													
10	16QAM	50	0	19.72	19.77	19.59													
10	256QAM	1	0	17.46	17.62	17.61			19	4.4									
10	256QAM	1	25	17.34	17.57	17.51													
10	256QAM	1	49	17.41	17.52	17.51													
10	256QAM	25	12	17.42	17.54	17.53			19	4.4									
10	256QAM	25	25	17.39	17.60	17.58													
10	256QAM	50	0	17.63	17.73	17.51													
10	256QAM	50	0	17.63	17.73	17.51													
Channel																			
Frequency (MHz)																			
5	QPSK	1	0	21.84	21.98	21.94			23.4	0									
5	QPSK	1	12	21.71	21.93	21.98													
5	QPSK	1	24	21.91	22.01	21.81													
5	QPSK	12	0	21.84	21.75	21.85			23	0.4									
5	QPSK	12	7	21.38	21.48	21.38													
5	QPSK	12	13	21.39	21.65	21.68													
5	QPSK	25	0	21.48	21.68	21.68			23	0.4									
5	16QAM	1	0	21.27	21.63	21.52													
5	16QAM	1	12	21.60	21.47	21.38													
5	16QAM	1	24	21.59	21.71	21.61			22	1.4									
5	16QAM	12	0	20.84	20.81	20.49													
5	16QAM	12	7	20.56	20.42	20.46													
5	16QAM	12	13	20.48	20.48	20.61			22	1.4									
5	16QAM	25	0	20.80	20.66	20.58													
5	16QAM	1	0	20.28	20.58	20.40													
5	16QAM	1	12	20.59	20.55	20.67			22	1.4									
5	16QAM	1	24	20.84	20.64	20.38													
5	16QAM	12	0	20.58	20.58	20.62													
5	16QAM	12	7	19.46	19.67	19.33			21	2.4									
5	16QAM	12	13	19.37	19.65	19.38													
5	16QAM	25	0	19.58	19.59	19.59													
5	256QAM	1	0	17.46	17.64	17.52			19	4.4									
5	256QAM	1	12	17.31	17.47	17.58													
5	256QAM	1	24	17.46	17.47	17.46													
5	256QAM	12	0	17.65	17.77	17.48			19	4.4									
5	256QAM	12	7	17.43	17.48	17.45													
5	256QAM	12	13	17.42	17.61	17.63													
5	256QAM	25	0	17.60	17.67	17.55													
Channel																			
Frequency (MHz)																			
3	QPSK	1	0	21.80	22.16	22.02			23.4	0									
3	QPSK	1	8	21.78	22.20	22.16													
3	QPSK	1	16	21.87	22.15	22.15													
3	QPSK	8	0	21.83	21.77	21.48			23	0.4									
3	QPSK	8	4	21.37	21.51	21.48													
3	QPSK	8	8	21.48	21.62	21.61													
3	QPSK	16	0	21.83	21.67	21.53			23	0.4									
3	16QAM	1	0	21.38	21.66	21.43													
3	16QAM	1	8	21.59	21.34	21.38													
3	16QAM	1	16	21.60	21.71	21.51			22	1.4									
3	16QAM	8	0	20.86	20.84	20.61													
3	16QAM	8	4	20.42	20.42	20.42													
3	16QAM	8	8	20.55	20.63	20.69			22	1.4									
3	16QAM	16	0	20.83	20.65	20.53													
3	16QAM	16	8	20.18	20.48	20.38													
3	16QAM	1	8	20.44	20.69	20.64			21	2.4									
3	16QAM	8	0	19.84	19.84	19.84													
3	16QAM	8	4	19.45	19.60	19.48													
3	16QAM	16	0	19.63	19.79	19.57			19	4.4									
3	256QAM	1	0	17.44	17.67	17.62													
3	256QAM	1	8	17.30	17.62	17.62													
3	256QAM	8	0	17.48	17.63	17.63			19				4.4						
3	256QAM	8	4	17.42	17.48	17.48													
3	256QAM	8	7	17.49	17.51	17.61													
3	256QAM	16	0	17.66	17.80	17.68													
Channel																			
Frequency (MHz)																			
1.4	QPSK	1	0	22.01	22.14	22.00			23.4	0									
1.4	QPSK	1	8	22.06	22.08	22.08													
1.4	QPSK	1	16	21.95	22.11	22.00													
1.4	QPSK	1	0	21.90	22.15	21.90			23	0.4									
1.4	QPSK	1	8	21.96	22.16	22.16													
1.4	QPSK	1	16	21.85	22.13	22.13													
1.4	QPSK	3	0	21.42	21.62	21.42			23	0.4									
1.4	QPSK	3	8	21.45	21.71	21.43													
1.4	QPSK	3	16	21.54	21.68	21.68													
1.4	QPSK	1	0	21.45	21.71	21.45			23	0.4									
1.4	QPSK	1	8	21.48	21.74	21.48													

Band 25 Ant 3												
BW (MHz)	Modulation	FEB Size	FEB Offset	Power (dBm) Ch 1 Ch 2	Power (dBm) Ch 3 Ch 4	Power (dBm) Ch 5 Ch 6	Power (dBm) Ch 7 Ch 8	Transmit (dBm)	MPE (dB)			
Channel												
Frequency (MHz)	Channel	FEB Size	FEB Offset	Power (dBm) Ch 1 Ch 2	Power (dBm) Ch 3 Ch 4	Power (dBm) Ch 5 Ch 6	Power (dBm) Ch 7 Ch 8	Transmit (dBm)	MPE (dB)			
20	QPSK	1	0	22.20	22.24	22.17						
20	QPSK	1	49	22.04	22.18	22.07		23.4	0			
20	QPSK	1	98	21.88	22.02	21.91						
20	QPSK	1	147	21.80	21.90	21.73						
20	QPSK	50	24	21.58	21.71	21.65		23	0.4			
20	QPSK	50	74	21.42	21.54	21.48						
20	QPSK	100	0	21.17	21.37	21.23						
20	QPSK	1	0	21.49	21.68	21.60						
20	QPSK	1	49	21.34	21.48	21.39						
20	QPSK	1	98	21.17	21.34	21.21						
20	QPSK	1	147	20.97	21.09	20.97						
20	QPSK	50	24	20.74	20.84	20.78						
20	QPSK	50	74	20.61	20.68	20.65		22	1.4			
20	QPSK	100	0	20.42	20.49	20.45						
20	QPSK	1	0	20.41	20.62	20.54						
20	QPSK	1	49	20.32	20.57	20.50		22	1.4			
20	QPSK	1	98	20.24	20.46	20.40						
20	QPSK	50	24	19.91	19.95	19.95						
20	QPSK	50	74	19.59	19.76	19.62		21	2.4			
20	QPSK	100	0	19.43	19.60	19.52						
20	QPSK	1	0	19.79	19.90	19.83						
20	QPSK	1	49	19.73	19.84	19.77						
20	QPSK	1	98	19.66	19.76	19.69		19	4.4			
20	QPSK	1	147	19.58	19.68	19.61						
20	QPSK	50	24	19.44	19.54	19.47						
20	QPSK	50	74	19.37	19.46	19.39						
20	QPSK	100	0	19.29	19.38	19.31						
20	QPSK	1	0	19.17	19.24	19.16						
20	QPSK	1	49	19.08	19.17	19.10						
20	QPSK	1	98	18.99	19.07	18.99						
20	QPSK	50	24	18.67	18.76	18.69		19	4.4			
20	QPSK	50	74	18.58	18.67	18.51						
20	QPSK	100	0	18.49	18.57	18.49						
20	QPSK	1	0	18.37	18.44	18.36						
20	QPSK	1	49	18.28	18.36	18.29						
20	QPSK	1	98	18.19	18.27	18.20						
20	QPSK	50	24	18.07	18.15	18.09						
20	QPSK	50	74	17.98	18.06	17.91						
20	QPSK	100	0	17.89	17.96	17.89						
20	QPSK	1	0	17.84	17.89	17.83						
20	QPSK	1	49	17.74	17.81	17.73						
20	QPSK	1	98	17.64	17.71	17.64						
20	QPSK	50	24	17.51	17.57	17.46						
20	QPSK	50	74	17.41	17.48	17.35						
20	QPSK	100	0	17.31	17.34	17.26						
Channel												
Frequency (MHz)	Channel	FEB Size	FEB Offset	Power (dBm) Ch 1 Ch 2	Power (dBm) Ch 3 Ch 4	Power (dBm) Ch 5 Ch 6	Power (dBm) Ch 7 Ch 8	Transmit (dBm)	MPE (dB)			
5	QPSK	1	0	22.17	22.18	22.13						
5	QPSK	1	12	22.00	22.06	22.01		23.4	0			
5	QPSK	1	24	21.84	22.02	21.98						
5	QPSK	12	12	21.73	21.75	21.68						
5	QPSK	24	12	21.42	21.53	21.45		23	0.4			
5	QPSK	1	0	21.57	21.62	21.68						
5	QPSK	1	12	21.42	21.52	21.45						
5	QPSK	1	24	21.44	21.61	21.55						
5	QPSK	12	12	21.49	21.62	21.52						
5	QPSK	1	0	21.35	21.45	21.38						
5	QPSK	1	12	20.71	20.88	20.71						
5	QPSK	24	12	20.48	20.69	20.52		22	1.4			
5	QPSK	1	0	20.62	20.89	20.73						
5	QPSK	1	12	20.36	20.48	20.43						
5	QPSK	1	24	20.09	20.53	20.37		22	1.4			
5	QPSK	1	49	20.30	20.79	20.72						
5	QPSK	24	12	19.68	19.89	19.63						
5	QPSK	1	0	19.84	19.97	19.84						
5	QPSK	1	12	19.60	19.77	19.61						
5	QPSK	1	24	19.50	19.64	19.50						
5	QPSK	12	12	19.25	19.50	19.23						
5	QPSK	1	0	19.50	19.72	19.50						
5	QPSK	1	12	19.36	19.62	19.36						
5	QPSK	1	24	19.17	19.44	19.17						
5	QPSK	12	12	18.98	19.24	18.98						
5	QPSK	1	0	19.17	19.44	19.17						
5	QPSK	1	12	18.97	19.24	18.97						
5	QPSK	1	24	18.77	19.21	18.77						
5	QPSK	12	12	18.71	19.24	18.71		19	4.4			
5	QPSK	1	0	18.60	19.16	18.60						
5	QPSK	1	12	18.46	19.14	18.46						
5	QPSK	1	24	18.26	18.74	18.26						
5	QPSK	12	12	18.38	18.49	18.34		19	4.4			
5	QPSK	1	0	18.17	18.48	18.17						
5	QPSK	1	12	17.94	18.27	17.94						
5	QPSK	1	24	17.54	17.75	17.62						
Channel												
Frequency (MHz)	Channel	FEB Size	FEB Offset	Power (dBm) Ch 1 Ch 2	Power (dBm) Ch 3 Ch 4	Power (dBm) Ch 5 Ch 6	Power (dBm) Ch 7 Ch 8	Transmit (dBm)	MPE (dB)			
3	QPSK	1	0	22.15	22.20	22.08						
3	QPSK	1	8	21.99	22.07	21.98		23.4	0			
3	QPSK	1	16	21.81	21.96	21.80						
3	QPSK	8	8	21.76	21.86	21.71						
3	QPSK	8	4	21.45	21.64	21.58		23	0.4			
3	QPSK	1	0	21.59	21.84	21.66						
3	QPSK	16	0	21.66	21.85	21.64						
3	QPSK	1	0	21.42	21.53	21.43						
3	QPSK	1	8	21.27	21.49	21.21		23	0.4			
3	QPSK	1	16	21.14	21.24	21.07						
3	QPSK	8	8	20.88	21.06	20.89						
3	QPSK	8	4	20.57	20.85	20.55		22	1.4			
3	QPSK	1	0	20.45	20.68	20.47						
3	QPSK	1	8	20.27	20.74	20.27						
3	QPSK	1	16	20.38	20.51	20.35						
3	QPSK	8	8	20.03	20.22	20.08		22	1.4			
3	QPSK	8	4	19.64	19.81	19.65						
3	QPSK	8	4	19.52	19.70	19.58		21	2.4			
3	QPSK	1	0	19.87	19.97	19.86						
3	QPSK	16	0	19.62	19.80	19.59						
3	QPSK	1	0	19.40	19.67	19.58						
3	QPSK	1	8	19.24	19.44	19.24		19	4.4			
3	QPSK	1	16	19.14	19.34	19.14						
3	QPSK	8	8	18.93	19.17	18.93						
3	QPSK	8	4	18.71	18.97	18.71		19	4.4			
3	QPSK	1	0	18.41	18.78	18.41						
3	QPSK	1	8	18.32	18.69	18.37						
3	QPSK	1	16	18.22	18.57	18.22						
Channel												
Frequency (MHz)	Channel	FEB Size	FEB Offset	Power (dBm) Ch 1 Ch 2	Power (dBm) Ch 3 Ch 4	Power (dBm) Ch 5 Ch 6	Power (dBm) Ch 7 Ch 8	Transmit (dBm)	MPE (dB)			
1.4	QPSK	1	0	22.17	22.12	22.05						
1.4	QPSK	1	24	22.04	22.02	22.00		23.4	0			
1.4	QPSK	1	0	22.03	22.05	22.01						
1.4	QPSK	1	24	21.85	21.87	21.88						
1.4	QPSK	1	24	21.63	21.63	21.63						
1.4	QPSK	3	1	21.58	21.63	21.63						
1.4	QPSK	0	2	21.66	21.77	21.62		23	0.4			
1.4	QPSK	1	24	21.52	21.73	21.68						
1.4	QPSK	1	24	21.49	21.63	21.58						
1.4	QPSK	1	3	21.57	21.51	21.59						
1.4	QPSK	1	2	21.69	21.63	21.60						
1.4	QPSK	1	24	21.52	21.52	21.52		22	1.4			
1.4	QPSK	1	0	20.34	20.51	20.40						
1.4	QPSK	1	24	20.74	20.74	20.74						
1.4	QPSK	3	0	20.26	20.54	20.35		22	1.4			
1.4	QPSK	1	24	20.16	20.16	20.16						
1.4	QPSK	3	0	19.66	19.77	19.65		21	2.4			
1.4	QPSK	1	24	19.60	19.60	19.60						
1.4	QPSK	1	3	19.52	19.57	19.52						
1.4	QPSK	1	6	19.46	19.62	19.60		19	4.4			
1.4	QPSK	1	24	19.32	19.76	19.67						
1.4	QPSK	3	3	19.51	19.57	19.57						
1.4	QPSK	3	3	19.47	19.68	19.68		19	4.4			
1.4	QPSK	1	24	19.35	19.78	19.78						
1.4	QPSK	1	24	19.27	19.68	19.68		19	4.4			

Band 66 Ant 3												
RF (MHz)	Modulation	Ref. Sig.	Ref. Chn.	Power (dBm) 130072	Power (dBm) 130122	Power (dBm) 130152	Transmit (dBm)	MFR (dB)				
Channel												
20	QPSK	1	6	22.72	22.80	22.83						
20	QPSK	1	46	22.69	22.75	22.72		24	0			
20	QPSK	1	47	22.69	22.75	22.72						
20	QPSK	50	6	22.69	22.13	22.03						
20	QPSK	50	24	21.50	22.28	21.88			23	1		
20	QPSK	50	25	21.50	22.28	21.88						
20	QPSK	100	6	22.03	22.11	22.06						
20	HQPSK	1	6	22.25	22.33	22.18						
20	HQPSK	1	46	22.25	22.33	22.18		23	1			
20	HQPSK	1	47	22.25	22.33	22.18						
20	HQPSK	50	24	21.03	21.18	21.07						
20	HQPSK	50	25	21.03	21.18	21.07			22	2		
20	HQPSK	100	6	21.00	21.06	20.84						
20	HQPSK	1	6	21.00	21.06	20.84						
20	HQPSK	1	46	21.00	21.06	20.84						
20	HQPSK	1	47	21.00	21.06	20.84						
20	HQPSK	50	24	20.04	20.09	20.03			21	3		
20	HQPSK	50	25	20.04	20.09	20.03						
20	HQPSK	100	6	19.04	19.09	19.03						
20	HQPSK	1	6	18.01	18.11	18.04						
20	HQPSK	1	46	18.01	18.11	18.04		19	6			
20	HQPSK	1	47	18.01	18.11	18.04						
20	HQPSK	50	6	17.00	17.00	17.00						
20	HQPSK	50	6	17.00	17.00	17.00						
20	HQPSK	50	6	17.00	17.00	17.00						
20	HQPSK	50	6	17.00	17.00	17.00						
20	HQPSK	100	6	16.00	16.05	15.91						
Channel												
Frequency (MHz)				1717.5	1717.5	1717.5	Transmit (dBm)	MFR (dB)				
15	QPSK	1	6	22.65	22.84	22.71						
15	QPSK	1	46	22.65	22.68	22.68		24	0			
15	QPSK	1	74	22.46	22.68	22.68						
15	QPSK	36	6	21.94	22.05	21.97						
15	QPSK	36	6	21.94	22.05	21.97			23	1		
15	QPSK	36	6	21.94	22.05	21.97						
15	QPSK	36	6	21.94	22.05	21.97						
15	QPSK	75	6	21.90	22.00	22.00						
15	QPSK	75	6	21.90	22.00	22.00						
15	HQPSK	1	6	22.00	22.08	22.00						
15	HQPSK	1	37	22.14	22.18	22.15			23	1		
15	HQPSK	1	74	21.90	22.08	22.08						
15	HQPSK	36	6	21.90	22.08	22.08						
15	HQPSK	36	20	20.88	21.07	20.84			22	2		
15	HQPSK	36	20	20.88	21.07	20.84						
15	HQPSK	1	37	21.02	21.06	21.00						
15	HQPSK	1	6	20.98	21.04	20.97			22	2		
15	HQPSK	1	37	20.98	21.02	20.94						
15	HQPSK	1	37	20.98	21.02	20.94						
15	HQPSK	36	6	19.00	19.07	18.90			21	3		
15	HQPSK	36	6	19.00	19.07	18.90						
15	HQPSK	75	6	18.93	19.09	18.95						
15	HQPSK	75	6	18.93	19.09	18.95						
15	HQPSK	1	37	18.82	18.95	18.88						
15	HQPSK	1	37	18.95	19.03	18.93		19	5			
15	HQPSK	1	74	17.83	17.88	17.88						
15	HQPSK	36	6	17.83	17.88	17.88						
15	HQPSK	36	6	17.83	17.88	17.88						
15	HQPSK	36	6	17.83	17.88	17.88						
15	HQPSK	36	20	17.02	17.02	17.02			19	5		
15	HQPSK	36	20	17.02	17.02	17.02						
15	HQPSK	36	20	17.02	17.02	17.02						
Channel												
Frequency (MHz)				130072	130122	130152	Transmit (dBm)	MFR (dB)				
5	QPSK	1	6	22.67	22.81	22.70						
5	QPSK	1	12	22.57	22.64	22.65		24	0			
5	QPSK	1	24	22.52	22.69	22.48						
5	QPSK	1	47	22.50	22.67	22.46						
5	QPSK	12	7	21.87	21.87	21.87			23	1		
5	QPSK	12	19	21.87	21.87	21.87						
5	HQPSK	1	6	22.11	22.15	22.11						
5	HQPSK	1	12	22.11	22.15	22.11			23	1		
5	HQPSK	1	24	22.11	22.23	22.08						
5	HQPSK	1	47	22.11	22.23	22.08						
5	HQPSK	12	6	20.93	21.09	20.94			22	2		
5	HQPSK	12	19	20.93	21.04	20.92						
5	HQPSK	50	6	20.93	21.01	20.91						
5	HQPSK	50	6	20.93	21.02	20.97			22	2		
5	HQPSK	50	6	20.93	21.02	20.97						
5	HQPSK	1	46	20.81	20.90	20.83			22	2		
5	HQPSK	1	46	20.81	20.90	20.83						
5	HQPSK	12	6	19.77	19.88	19.87			21	3		
5	HQPSK	12	19	19.77	19.85	19.88						
5	HQPSK	1	46	17.86	18.00	17.86						
5	HQPSK	1	6	17.88	18.07	17.97						
5	HQPSK	1	12	17.87	17.98	17.98			19	5		
5	HQPSK	1	12	17.88	17.98	17.98						
5	HQPSK	12	6	17.88	17.92	17.88						
5	HQPSK	12	6	17.87	17.95	17.88						
5	HQPSK	12	19	17.84	17.88	17.78			19	6		
5	HQPSK	20	6	17.96	17.99	17.88						
Channel												
Frequency (MHz)				1717.5	1716.4	1717.5	Transmit (dBm)	MFR (dB)				
3	QPSK	1	6	22.62	22.85	22.70						
3	QPSK	1	6	22.65	22.86	22.68		24	0			
3	QPSK	1	24	22.52	22.69	22.48						
3	QPSK	1	47	22.50	22.67	22.46						
3	QPSK	8	6	21.87	22.08	21.88			23	1		
3	QPSK	8	6	21.81	21.98	21.83						
3	QPSK	16	6	21.83	21.90	21.88						
3	QPSK	16	6	21.92	22.07	21.92						
3	HQPSK	1	6	22.18	22.29	22.12			23	1		
3	HQPSK	1	12	22.18	22.29	22.12						
3	HQPSK	1	24	22.01	22.15	22.07						
3	HQPSK	1	47	22.01	22.15	22.07						
3	HQPSK	8	6	21.02	21.23	21.04			22	2		
3	HQPSK	8	6	21.02	21.03	21.04						
3	HQPSK	8	6	20.96	20.98	20.82						
3	HQPSK	16	6	21.02	21.12	21.01						
3	HQPSK	16	6	21.02	21.05	20.93						
3	HQPSK	1	8	20.83	21.02	20.87			22	2		
3	HQPSK	1	8	20.83	21.02	20.87						
3	HQPSK	8	6	19.00	19.00	19.02						
3	HQPSK	8	6	19.05	19.05	18.98			21	3		
3	HQPSK	8	6	19.02	19.02	18.95						
3	HQPSK	16	6	18.02	18.04	18.05						
3	HQPSK	1	6	17.95	18.02	17.98						
3	HQPSK	1	6	17.96	17.98	17.98			19	5		
3	HQPSK	1	14	17.86	17.92	17.86						
3	HQPSK	8	6	17.83	17.97	17.85						
3	HQPSK	8	6	17.83	17.88	17.81			19	5		
3	HQPSK	8	6	17.76	17.81	17.85						
3	HQPSK	16	6	17.88	17.92	17.83						
Channel												
Frequency (MHz)				1716.7	1716.4	1717.3	Transmit (dBm)	MFR (dB)				
1.4	QPSK	1	6	22.67	22.74	22.78						
1.4	QPSK	1	6	22.69	22.78	22.78		24	0			
1.4	QPSK	1	6	22.47	22.59	22.52						
1.4	QPSK	3	6	22.57	22.79	22.60						
1.4	QPSK	3	6	22.54	22.66	22.63						
1.4	QPSK	3	6	22.48	22.57	22.57						
1.4	QPSK	5	6	22.01	21.99	22.00		23.5	0.4			
1.4	QPSK	5	6	21.95	21.94	21.93						
1.4	HQPSK	1	6	21.90	21.94	21.74						
1.4	HQPSK	1	6	21.93	22.01	21.92			23.5	0.4		
1.4	HQPSK	1	6	22.06	22.28	22.21						
1.4	HQPSK	3	6	22.10	22.21	22.18						
1.4	HQPSK	5	6	22.01	22.15	22.05						
1.4	HQPSK	5	6	21.98	22.08	22.05			22.5	1.4		
1.4	HQPSK	1	6	20.87	21.06	20.90						
1.4	HQPSK	1	6	20.87	21.06	20.90						
1.4	HQPSK	3	6	20.95	21.12	20.98			22.5	1.4		
1.4	HQPSK	3	6	20.94	21.01	20.84						
1.4	HQPSK	3	6	20.94	21.01	20.84						
1.4	HQPSK	5	6	20.07	20.08	20.01						
1.4	HQPSK	5	6	19.97	19.98	19.92		21.5	2.4			
1.4	HQPSK	1	6	18.07	18.08	18.07						
1.4	HQPSK	1	6	17.90	18.00	17.90						
1.4	HQPSK	1	6	17.82	17.97	17.88						
1.4	HQPSK	1	6	17.82	17.87	17.88		19.5	4.4			
1.4	HQPSK	3	6	17.89	17.94	17.77						
1.4	HQPSK	3	6									



Band 41 Ant 3											
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power Mid Ch / Freq	Power High Mid Ch / Freq	Power High Ch / Freq	Turn-on time (dBm)	MPR (dB)	
Channel											
Frequency (MHz)											
26	QPSK	1	0	23.05	23.73	23.85	23.67	23.58			
26	QPSK	1	49	23.00	23.69	23.80	23.63	23.54	24	0	
26	QPSK	1	99	23.06	23.75	23.87	23.69	23.60			
26	QPSK	50	0	22.96	22.72	22.80	22.69	22.55			
26	QPSK	50	24	22.85	22.68	22.75	22.63	22.56	23	1	
26	QPSK	50	50	22.80	22.61	22.68	22.60	22.44			
26	QPSK	100	0	22.38	22.22	22.25	22.22	22.02			
26	16QAM	1	0	22.05	22.68	22.81	22.66	22.66			
26	16QAM	1	49	22.03	22.71	22.76	22.65	22.51			
26	16QAM	1	99	22.09	22.54	22.57	22.50	22.46			
26	16QAM	50	0	21.71	21.75	21.82	21.62	21.66			
26	16QAM	50	24	21.51	21.68	21.77	21.62	21.59	22	2	
26	16QAM	50	50	21.69	21.62	21.70	21.54	21.51			
26	16QAM	100	0	20.81	20.99	21.73	21.53	21.52			
26	64QAM	1	0	21.97	21.86	21.83	21.84	21.86			
26	64QAM	1	49	21.85	21.93	21.85	21.95	21.79	22	2	
26	64QAM	1	99	21.43	21.87	21.85	21.85	21.78			
26	64QAM	50	0	20.73	20.76	20.82	20.69	20.57			
26	64QAM	50	24	20.66	20.63	20.77	20.62	20.57	21	3	
26	64QAM	50	50	20.59	20.62	20.70	20.55	20.47			
26	256QAM	100	0	20.81	20.66	20.74	20.64	20.53			
26	256QAM	1	0	18.74	18.86	18.91	18.76	18.73			
26	256QAM	1	49	18.76	18.74	18.86	18.77	18.68	19	5	
26	256QAM	1	99	18.68	18.67	18.78	18.68	18.59			
26	256QAM	50	0	18.64	18.71	18.81	18.64	18.57			
26	256QAM	50	24	18.57	18.72	18.76	18.58	18.54	19	5	
26	256QAM	50	50	18.51	18.64	18.69	18.58	18.52			
26	256QAM	100	0	18.64	18.69	18.77	18.61	18.64			
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.03	23.73	23.83	23.74	23.63			
15	QPSK	1	37	23.48	23.55	23.75	23.57	23.39	24.00	0	
15	QPSK	1	74	23.42	23.48	23.63	23.50	23.39			
15	QPSK	36	0	22.58	22.64	22.74	22.59	22.50			
15	QPSK	36	20	22.54	22.63	22.69	22.63	22.45	23	1	
15	QPSK	36	36	22.54	22.56	22.64	22.51	22.33			
15	QPSK	75	0	22.49	22.57	22.67	22.62	22.47			
15	QPSK	75	37	22.24	22.28	22.71	22.58	22.34			
15	16QAM	1	37	22.52	22.62	22.62	22.56	22.47	23	1	
15	16QAM	1	74	22.51	22.45	22.58	22.41	22.31			
15	16QAM	36	0	21.54	21.61	21.69	21.45	21.39	22	2	
15	16QAM	36	20	21.43	21.41	21.66	21.53	21.24			
15	16QAM	36	36	21.46	21.48	21.55	21.45	21.47			
15	16QAM	75	0	21.51	21.55	21.67	21.57	21.48			
15	16QAM	75	37	21.26	21.34	21.84	21.87	21.66	22	2	
15	64QAM	1	37	21.72	21.74	21.84	21.87	21.86			
15	64QAM	1	74	21.73	21.73	21.86	21.76	21.69	22	2	
15	64QAM	36	0	20.66	20.69	20.74	20.65	20.46			
15	64QAM	36	20	20.59	20.60	20.63	20.58	20.47	21	3	
15	64QAM	36	36	20.59	20.48	20.63	20.42	20.38			
15	64QAM	75	0	20.53	20.51	20.59	20.81	20.42			
15	256QAM	1	0	18.63	18.77	18.76	18.68	18.63			
15	256QAM	1	37	18.72	18.69	18.81	18.65	18.61			
15	256QAM	1	74	18.64	18.64	18.69	18.52	18.56			
15	256QAM	36	0	18.53	18.59	18.58	18.46	18.47			
15	256QAM	36	20	18.46	18.64	18.64	18.53	18.45	19	5	
15	256QAM	36	36	18.39	18.51	18.54	18.44	18.46			
15	256QAM	75	0	18.52	18.58	18.64	18.57	18.50			
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.03	23.73	23.83	23.74	23.63			
20	QPSK	1	0	23.09	23.69	23.76	23.58	23.47	24.00	0	
20	QPSK	1	49	23.44	23.53	23.62	23.51	23.45			
20	QPSK	25	0	22.51	22.58	22.75	22.61	22.49			
20	QPSK	25	12	22.57	22.65	22.72	22.50	22.42	23	1	
20	QPSK	25	25	22.51	22.52	22.68	22.53	22.39			
20	QPSK	50	0	22.25	22.54	22.67	22.53	22.50			
20	16QAM	1	0	22.00	22.57	22.68	22.57	22.50			
20	16QAM	1	25	22.08	22.65	22.71	22.62	22.37	23	1	
20	16QAM	1	49	22.05	22.41	22.59	22.46	22.40			
20	16QAM	25	0	21.60	21.63	21.77	21.54	21.54			
20	16QAM	25	12	21.48	21.54	21.64	21.54	21.47	22	2	
20	16QAM	25	25	21.51	21.54	21.58	21.41	21.41			
20	16QAM	50	0	21.50	21.48	21.63	21.48	21.46			
20	64QAM	1	0	21.88	21.90	21.76	21.89	21.81			
20	64QAM	1	24	21.74	21.78	21.98	21.81	21.87	22	2	
20	64QAM	1	49	21.70	21.72	21.89	21.75	21.72			
20	64QAM	25	0	20.68	20.66	20.72	20.64	20.46			
20	64QAM	25	12	20.59	20.58	20.75	20.56	20.46	21	3	
20	64QAM	25	25	20.44	20.50	20.64	20.47	20.35			
20	64QAM	50	0	20.51	20.59	20.67	20.56	20.29			
20	256QAM	1	0	18.59	18.74	18.79	18.72	18.69			
20	256QAM	1	25	18.68	18.67	18.82	18.64	18.63	19	5	
20	256QAM	1	49	18.53	18.60	18.72	18.52	18.46			
20	256QAM	25	0	18.55	18.60	18.68	18.61	18.46			
20	256QAM	25	12	18.48	18.68	18.67	18.53	18.48	19	5	
20	256QAM	25	25	18.48	18.59	18.56	18.53	18.40			
20	256QAM	50	0	18.58	18.61	18.72	18.55	18.47			
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.02	23.60	23.72	23.58	23.49	24.00	0	
5	QPSK	1	12	23.48	23.65	23.70	23.60	23.45			
5	QPSK	1	24	23.47	23.60	23.63	23.50	23.40			
5	QPSK	12	0	22.59	22.58	22.73	22.61	22.51			
5	QPSK	12	7	22.58	22.64	22.83	22.52	22.42	23	1	
5	QPSK	12	13	22.45	22.57	22.54	22.48	22.32			
5	QPSK	25	0	22.45	22.49	22.69	22.42	22.46			
5	16QAM	1	0	22.00	22.35	22.76	22.53	22.52			
5	16QAM	1	12	22.00	22.87	22.67	22.61	22.42	23	1	
5	16QAM	1	24	22.51	22.50	22.59	22.50	22.37			
5	16QAM	12	0	21.62	21.67	21.72	21.48	21.58			
5	16QAM	12	7	21.49	21.64	21.73	21.48	21.53	22	2	
5	16QAM	12	13	21.59	21.47	21.61	21.46	21.47			
5	64QAM	1	0	21.91	21.93	21.98	21.93	21.48			
5	64QAM	1	0	21.88	21.83	21.97	21.86	21.77			
5	64QAM	1	12	21.74	21.82	21.91	21.90	21.72	22	2	
5	64QAM	1	24	21.68	21.81	21.90	21.81	21.67			
5	64QAM	12	0	20.63	20.72	20.75	20.62	20.45			
5	64QAM	12	7	20.63	20.55	20.62	20.52	20.45	21	3	
5	64QAM	12	13	20.51	20.59	20.59	20.50	20.39			
5	256QAM	1	0	18.57	18.60	18.61	18.57	18.48			
5	256QAM	1	0	18.70	18.76	18.81	18.73	18.63			
5	256QAM	1	12	18.69	18.71	18.81	18.73	18.61			
5	256QAM	1	24	18.62	18.54	18.68	18.55	18.54	19	5	
5	256QAM	12	0	18.60	18.65	18.68	18.52	18.44			
5	256QAM	12	7	18.43	18.62	18.63	18.51	18.43			
5	256QAM	12	13	18.40	18.56	18.63	18.48	18.44	19	5	
5	256QAM	12	0	18.35	18.66	18.64	18.56	18.32			

Band 41 HPUE Ant 3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power Fwd Mid Ch / Freq	Power High Mid Ch / Freq	Power High Ch / Freq	Time-up limit (mins)	MPR (dB)				
Channel Frequency (MHz)														
20	QPSK	1	0	26.70	26.77	26.83	26.81	26.59	27	0				
20	QPSK	1	40	26.60	26.73	26.82	26.83	26.60						
20	QPSK	1	80	26.57	26.68	26.74	26.74	26.57						
20	QPSK	60	0	25.64	25.69	25.84	25.74	25.50						
20	QPSK	60	24	25.62	25.68	25.81	25.57	25.61						
20	QPSK	60	50	25.55	25.57	25.74	25.64	25.41	26	1				
20	QPSK	60	76	25.60	25.67	25.73	25.68	25.51						
20	16QAM	1	0	26.62	26.71	26.86	26.71	26.51						
20	16QAM	1	40	26.69	26.70	26.79	26.70	26.52						
20	16QAM	1	80	26.59	26.63	26.68	26.63	26.46						
20	16QAM	60	0	24.77	24.78	24.87	24.87	24.67	26	1				
20	16QAM	60	24	24.55	24.62	24.77	24.61	24.58						
20	16QAM	60	50	24.69	24.67	24.71	24.50	24.47						
20	16QAM	60	76	24.62	24.58	24.73	24.67	24.46						
20	64QAM	1	0	24.91	24.93	24.99	24.97	24.94						
20	64QAM	1	40	24.85	24.86	24.89	24.89	24.70	25	2				
20	64QAM	1	80	24.80	24.83	24.93	24.83	24.70						
20	64QAM	60	0	23.69	23.71	23.83	23.68	23.52						
20	64QAM	60	24	23.62	23.63	23.73	23.60	23.61						
20	64QAM	60	50	23.55	23.56	23.75	23.57	23.42						
20	256QAM	1	0	23.96	23.70	23.72	23.68	23.57	22	5				
20	256QAM	1	0	21.79	21.89	21.93	21.78	21.70						
20	256QAM	1	40	21.70	21.74	21.91	21.78	21.70						
20	256QAM	1	80	21.60	21.61	21.81	21.63	21.63						
20	256QAM	60	0	21.60	21.68	21.75	21.68	21.59						
20	256QAM	60	24	21.63	21.71	21.82	21.60	21.55	22	5				
20	256QAM	60	50	21.54	21.70	21.81	21.55	21.55						
20	256QAM	100	0	21.62	21.65	21.75	21.60	21.60						
Channel Frequency (MHz)														
15	QPSK	1	0	26.72	26.72	26.71	26.71	26.53			27	0		
15	QPSK	1	74	26.51	26.45	26.67	26.54	26.48						
15	QPSK	36	0	25.61	25.69	25.75	25.68	25.43						
15	QPSK	36	20	25.56	25.57	25.73	25.53	25.45						
15	QPSK	36	39	25.42	25.47	25.67	25.54	25.37						
15	QPSK	75	0	25.47	25.46	25.64	25.64	25.43	26	1				
15	16QAM	1	0	25.54	25.47	25.62	25.62	25.43						
15	16QAM	1	37	25.63	25.57	25.73	25.67	25.45						
15	16QAM	1	74	25.56	25.53	25.58	25.54	25.53						
15	16QAM	36	0	24.65	24.64	24.68	24.47	24.46						
15	16QAM	36	20	24.42	24.52	24.65	24.47	24.48	25	2				
15	16QAM	36	39	24.58	24.49	24.62	24.36	24.34						
15	16QAM	75	0	24.50	24.50	24.62	24.38	24.37						
15	64QAM	1	0	24.78	24.76	24.82	24.58	24.57						
15	64QAM	1	37	24.70	24.83	24.82	24.83	24.68						
15	64QAM	1	74	24.71	24.83	24.82	24.81	24.65	26	2				
15	64QAM	36	0	23.59	23.63	23.74	23.63	23.63						
15	64QAM	36	20	23.49	23.58	23.66	23.51	23.51						
15	64QAM	36	39	23.52	23.57	23.65	23.53	23.29						
15	64QAM	75	0	23.44	23.48	23.67	23.59	23.44						
15	256QAM	1	0	21.87	21.88	21.88	21.68	21.68	22	5				
15	256QAM	1	37	21.58	21.63	21.78	21.72	21.56						
15	256QAM	1	74	21.54	21.58	21.72	21.48	21.60						
15	256QAM	36	0	21.45	21.45	21.65	21.51	21.51						
15	256QAM	36	20	21.50	21.57	21.76	21.57	21.51						
15	256QAM	36	39	21.45	21.56	21.65	21.38	21.42	22	5				
15	256QAM	75	0	21.48	21.61	21.72	21.51	21.51						
Channel Frequency (MHz)														
10	QPSK	1	0	26.70	26.77	26.83	26.81	26.59			27	0		
10	QPSK	1	40	26.60	26.73	26.82	26.83	26.60						
10	QPSK	1	80	26.57	26.68	26.74	26.74	26.57						
10	QPSK	60	0	25.64	25.69	25.84	25.74	25.50						
10	QPSK	60	24	25.62	25.68	25.81	25.57	25.61						
10	QPSK	60	50	25.55	25.57	25.74	25.64	25.41	26	1				
10	QPSK	60	76	25.60	25.67	25.73	25.68	25.51						
10	16QAM	1	0	26.62	26.71	26.86	26.71	26.51						
10	16QAM	1	40	26.69	26.70	26.79	26.70	26.52						
10	16QAM	1	80	26.59	26.63	26.68	26.63	26.46						
10	16QAM	60	0	24.77	24.78	24.87	24.87	24.67	26	1				
10	16QAM	60	24	24.55	24.62	24.77	24.61	24.58						
10	16QAM	60	50	24.69	24.67	24.71	24.50	24.47						
10	16QAM	60	76	24.62	24.58	24.73	24.67	24.46						
10	64QAM	1	0	24.91	24.93	24.99	24.97	24.94						
10	64QAM	1	40	24.85	24.86	24.89	24.89	24.70	25	2				
10	64QAM	1	80	24.80	24.83	24.93	24.83	24.70						
10	64QAM	60	0	23.69	23.71	23.83	23.68	23.52						
10	64QAM	60	24	23.62	23.63	23.73	23.60	23.61						
10	64QAM	60	50	23.55	23.56	23.75	23.57	23.42						
10	256QAM	1	0	23.96	23.70	23.72	23.68	23.57	22	5				
10	256QAM	1	0	21.79	21.89	21.93	21.78	21.70						
10	256QAM	1	40	21.70	21.74	21.91	21.78	21.70						
10	256QAM	1	80	21.60	21.61	21.81	21.63	21.63						
10	256QAM	60	0	21.60	21.68	21.75	21.68	21.59						
10	256QAM	60	24	21.63	21.71	21.82	21.60	21.55	22	5				
10	256QAM	60	50	21.54	21.70	21.81	21.55	21.55						
10	256QAM	100	0	21.62	21.65	21.75	21.60	21.60						
Channel Frequency (MHz)														
5	QPSK	1	0	26.70	26.77	26.83	26.81	26.59			27	0		
5	QPSK	1	40	26.60	26.73	26.82	26.83	26.60						
5	QPSK	1	80	26.57	26.68	26.74	26.74	26.57						
5	QPSK	60	0	25.64	25.69	25.84	25.74	25.50						
5	QPSK	60	24	25.62	25.68	25.81	25.57	25.61						
5	QPSK	60	50	25.55	25.57	25.74	25.64	25.41	26	1				
5	QPSK	60	76	25.60	25.67	25.73	25.68	25.51						
5	16QAM	1	0	26.62	26.71	26.86	26.71	26.51						
5	16QAM	1	40	26.69	26.70	26.79	26.70	26.52						
5	16QAM	1	80	26.59	26.63	26.68	26.63	26.46						
5	16QAM	60	0	24.77	24.78	24.87	24.87	24.67	26	1				
5	16QAM	60	24	24.55	24.62	24.77	24.61	24.58						
5	16QAM	60	50	24.69	24.67	24.71	24.50	24.47						
5	16QAM	60	76	24.62	24.58	24.73	24.67	24.46						
5	64QAM	1	0	24.91	24.93	24.99	24.97	24.94						
5	64QAM	1	40	24.85	24.86	24.89	24.89	24.70	25	2				
5	64QAM	1	80	24.80	24.83	24.93	24.83	24.70						
5	64QAM	60	0	23.69	23.71	23.83	23.68	23.52						
5	64QAM	60	24	23.62	23.63	23.73	23.60	23.61						
5	64QAM	60	50	23.55	23.56	23.75	23.57	23.42						
5	256QAM	1	0	23.96	23.70	23.72	23.68	23.57	22	5				
5	256QAM	1	0	21.79	21.89	21.93	21.78	21.70						
5	256QAM	1	40	21.70	21.74	21.91	21.78	21.70						
5	256QAM	1	80	21.60	21.61	21.81	21.63	21.63						
5	256QAM	60	0	21.60	21.68	21.75	21.68	21.59						
5	256QAM	60	24	21.63	21.71	21.82	21.60	21.55	22	5				
5	256QAM	60	50	21.54	21.70	21.81	21.55	21.55						
5	256QAM	100	0	21.62	21.65	21.75	21.60	21.60						
Channel Frequency (MHz)														
5	QPSK	1	0	26.70	26.77	26.83	26.81	26.59			27	0		
5	QPSK	1	40	26.60	26.73	26.82	26.83	26.60						
5	QPSK	1	80	26.57	26.68	26.74	26.74	26.57						
5	QPSK	60	0	25.64	25.69	25.84	25.74	25.50						
5	QPSK	60	24	25.62	25.68	25.81	25.57	25.61						
5	QPSK	60	50	25.55	25.57	25.74	25.64	25.41	26	1				
5	QPSK	60	76	25.60	25.67	25.73	25.68	25.51						
5	16QAM	1	0	26.62	26.71	26.86	26.71	26.51						
5	16QAM	1	40	26.69	26.70	26.79	26.70	26.52						
5	16QAM	1	80	26.59	26.63	26.68	26.63	26.46						
5	16QAM	60	0	24.77	24.78	24.87	24.87	24.67	26	1				
5	16QAM	60	24	24.55	24.62	24.77	24.61	24.58						
5	16QAM	60	50	24.69	24.67	24.71	24.50	24.47						
5	16QAM	60	76	24.62	24.58	24.73	24.67	24.46						
5	64QAM	1	0	24.91	24.93	24.99	24.97	24.94						
5	64QAM	1	40	24.85	24.86	24.89	24.89	24.70	25	2				
5	64QAM	1	80	24.80	24.83	24.93	24.83	24.70						
5	64QAM	60	0	23.69	23.71	23.83	23.68	23.52						
5	64QAM	60	24	23.62	23.63	23.73	23.60	23.61						
5	64QAM	60	50	23.55	23.56	23.75	23.57	23.42						
5	256QAM	1	0	23.96	23.70	23.72	23.68	23.57	22	5				
5	256QAM	1	0	21.79	21.89	21.93	21.78	21.70						
5	256QAM	1	40	21.70	21.74	21.91	21.78	21.70						
5	256QAM	1	80	21.60	21.61	21.81	21.63	21.63						
5	256QAM	60	0	21.60	21.68	21.75	21.68	21.59						
5	256QAM	60	24	21.63	21.71	21.82	21.60	21.55	22	5				
5	256QAM	60	50	21.54	21.70	21.81	21.55	21.55						
5	256QAM	100	0	21.62	21.65	21.75	21.60	21.60						
Channel Frequency (MHz)														
5	QPSK	1	0	26.70	26.77	26.83	26.							

Band 42 Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Co. [Frac]	Power Middle Co. [Frac]	Power High Co. [Frac]	Power High Ch. [Frac]	Turn-up inst (dBm)	MPR (dB)	
Channel										
				42100	42550	42990				
Frequency (MHz)										
20	QPSK	1	0	20.88	20.90	20.85		22	0	
20	QPSK	1	49	20.88	20.90	20.85				
20	QPSK	1	99	20.75	20.70	20.70				
20	QPSK	50	0	20.81	20.85	20.69				
20	QPSK	50	24	20.74	20.77	20.56		22	0	
20	QPSK	50	50	20.72	20.86	20.57				
20	QPSK	100	0	20.73	20.76	20.70				
20	16QAM	1	0	20.75	20.70	20.65				
20	16QAM	1	49	20.55	20.69	20.62		22	0	
20	16QAM	1	99	20.62	20.67	20.58				
20	16QAM	50	0	20.67	20.75	20.61				
20	16QAM	50	24	20.54	20.20	20.44				
20	16QAM	50	50	20.64	20.47	20.45		22	0	
20	16QAM	100	0	20.55	20.61	20.50				
20	64QAM	1	0	20.75	20.76	20.77		22	0	
20	64QAM	1	49	20.59	20.88	20.81				
20	64QAM	1	99	20.66	20.58	20.50				
20	64QAM	50	0	20.69	20.62	20.48				
20	64QAM	50	24	20.56	20.64	20.42				
20	64QAM	50	50	20.55	20.51	20.43		22	0	
20	64QAM	100	0	20.59	20.65	20.48				
20	256QAM	1	0	17.62	17.85	17.82				
20	256QAM	1	49	17.71	17.88	17.66		19	3	
20	256QAM	1	99	17.69	17.87	17.68				
20	256QAM	50	0	17.73	17.73	17.69				
20	256QAM	50	24	17.72	17.70	17.61		19	3	
20	256QAM	50	50	17.67	17.63	17.61				
20	256QAM	100	0	17.71	17.70	17.66				
Channel										
				3457.5	3500	3542.5		Turn-up inst (dBm)	MPR (dB)	
Frequency (MHz)										
15	QPSK	1	0	20.73	20.70	20.72		22	0	
15	QPSK	1	37	20.62	20.67	20.64				
15	QPSK	1	74	20.58	20.68	20.58				
15	QPSK	36	0	20.69	20.75	20.54				
15	QPSK	36	20	20.73	20.77	20.44		22	0	
15	QPSK	36	39	20.62	20.60	20.48				
15	QPSK	75	0	20.70	20.67	20.52				
15	16QAM	1	0	20.61	20.55	20.51		22	0	
15	16QAM	1	37	20.41	20.56	20.35				
15	16QAM	1	74	20.48	20.51	20.54				
15	16QAM	36	0	20.61	20.62	20.55				
15	16QAM	36	20	20.42	20.41	20.41		22	0	
15	16QAM	36	39	20.50	20.42	20.30				
15	16QAM	75	0	20.49	20.48	20.47				
15	64QAM	1	0	20.57	20.77	20.49		22	0	
15	64QAM	1	37	20.47	20.52	20.48				
15	64QAM	1	74	20.55	20.52	20.39				
15	64QAM	36	0	20.61	20.62	20.55				
15	64QAM	36	20	20.52	20.49	20.35		22	0	
15	64QAM	36	39	20.41	20.46	20.27				
15	64QAM	75	0	20.57	20.60	20.41				
15	256QAM	1	0	17.68	17.81	17.68				
15	256QAM	1	37	17.56	17.71	17.61		19	3	
15	256QAM	1	74	17.67	17.78	17.60				
15	256QAM	36	0	17.73	17.73	17.61				
15	256QAM	36	20	17.63	17.53	17.55		19	3	
15	256QAM	36	39	17.59	17.54	17.58				
15	256QAM	75	0	17.69	17.62	17.54				
Channel										
				42100	42550	43000		Turn-up inst (dBm)	MPR (dB)	
Frequency (MHz)										
10	QPSK	1	0	20.72	20.75	20.68		22	0	
10	QPSK	1	24	20.73	20.77	20.54				
10	QPSK	1	49	20.68	20.75	20.52				
10	QPSK	25	0	20.66	20.75	20.58				
10	QPSK	25	12	20.67	20.67	20.58		22	0	
10	QPSK	25	25	20.62	20.50	20.40				
10	QPSK	50	0	20.69	20.65	20.52				
10	16QAM	1	0	20.70	20.65	20.60		22	0	
10	16QAM	1	25	20.50	20.35	20.35				
10	16QAM	1	49	20.50	20.54	20.52				
10	16QAM	25	0	20.59	20.67	20.44				
10	16QAM	25	12	20.49	20.55	20.41		22	0	
10	16QAM	25	25	20.57	20.34	20.35				
10	16QAM	50	0	20.39	20.52	20.34				
10	64QAM	1	0	20.67	20.64	20.72		22	0	
10	64QAM	1	25	20.44	20.52	20.44				
10	64QAM	1	49	20.61	20.54	20.35				
10	64QAM	25	0	20.56	20.56	20.47				
10	64QAM	25	12	20.42	20.50	20.31		22	0	
10	64QAM	25	25	20.49	20.44	20.32				
10	64QAM	50	0	20.55	20.55	20.44				
10	256QAM	1	0	17.65	17.81	17.75				
10	256QAM	1	25	17.67	17.70	17.49		19	3	
10	256QAM	1	49	17.61	17.83	17.58				
10	256QAM	25	0	17.73	17.75	17.61				
10	256QAM	25	12	17.55	17.67	17.46		19	3	
10	256QAM	25	25	17.58	17.52	17.44				
10	256QAM	50	0	17.69	17.62	17.54				
Channel										
				3457.5	3500	3542.5		Turn-up inst (dBm)	MPR (dB)	
Frequency (MHz)										
5	QPSK	1	0	20.78	20.74	20.76		22	0	
5	QPSK	1	12	20.64	20.69	20.57				
5	QPSK	1	24	20.57	20.70	20.53				
5	QPSK	12	0	20.73	20.72	20.62				
5	QPSK	12	7	20.70	20.67	20.45		22	0	
5	QPSK	12	13	20.66	20.51	20.50				
5	QPSK	25	0	20.64	20.70	20.60				
5	16QAM	1	0	20.60	20.67	20.54		22	0	
5	16QAM	1	12	20.44	20.56	20.33				
5	16QAM	1	24	20.50	20.60	20.51				
5	16QAM	12	0	20.49	20.61	20.51				
5	16QAM	12	7	20.40	20.49	20.35				
5	16QAM	12	13	20.57	20.44	20.27		22	0	
5	16QAM	25	0	20.45	20.48	20.47				
5	64QAM	1	0	20.71	20.65	20.72		22	0	
5	64QAM	1	12	20.56	20.56	20.52				
5	64QAM	1	24	20.57	20.44	20.36				
5	64QAM	12	0	20.63	20.61	20.35				
5	64QAM	12	7	20.48	20.58	20.34		22	0	
5	64QAM	12	13	20.41	20.43	20.41				
5	64QAM	25	0	20.44	20.60	20.45				
5	256QAM	1	0	17.77	17.89	17.65				
5	256QAM	1	12	17.66	17.72	17.64		19	3	
5	256QAM	1	24	17.64	17.75	17.65				
5	256QAM	12	0	17.67	17.69	17.60				
5	256QAM	12	7	17.50	17.59	17.46		19	3	
5	256QAM	12	13	17.65	17.48	17.45				
5	256QAM	25	0	17.60	17.69	17.54				

Band 42 Part 96 Ant 3										
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch [Frac]	Power Middle Ch [Frac]	Power High Ch [Frac]	Turn-up time (dBm)	MPR (dB)		
Channel										
				43100	43340	43580				
Frequency (MHz)										
20	QPSK	1	0	20.77	20.66	20.77		22	0	
20	QPSK	1	49	20.67	20.79	20.64				
20	QPSK	1	99	20.71	20.66	20.66				
20	QPSK	50	0	20.73	20.76	20.58				
20	QPSK	50	24	20.63	20.69	20.42		22	0	
20	QPSK	50	50	20.66	20.55	20.49				
20	QPSK	100	0	20.60	20.63	20.61				
20	16QAM	1	0	20.69	20.57	20.60				
20	16QAM	1	49	20.49	20.54	20.46		22	0	
20	16QAM	1	99	20.56	20.54	20.46				
20	16QAM	50	0	20.56	20.67	20.49				
20	16QAM	50	24	20.43	20.54	20.31		22	0	
20	16QAM	50	50	20.52	20.41	20.30				
20	16QAM	100	0	20.45	20.58	20.47				
20	64QAM	1	0	20.65	20.75	20.77		22	0	
20	64QAM	1	49	20.46	20.55	20.60				
20	64QAM	1	99	20.56	20.54	20.42				
20	64QAM	50	0	20.55	20.58	20.36				
20	64QAM	50	24	20.47	20.56	20.33		22	0	
20	64QAM	50	50	20.41	20.46	20.31				
20	64QAM	100	0	20.45	20.58	20.46				
20	256QAM	1	0	17.67	17.88	17.66				
20	256QAM	1	49	17.61	17.81	17.65		19	3	
20	256QAM	1	99	17.62	17.82	17.66				
20	256QAM	50	0	17.73	17.76	17.65				
20	256QAM	50	24	17.60	17.65	17.52				
20	256QAM	50	50	17.58	17.63	17.55		19	3	
20	256QAM	100	0	17.67	17.79	17.59				
				43165	43340	43515				
Channel										
				43165	43340	43515	Turn-up time (dBm)	MPR (dB)		
15	QPSK	1	0	20.66	20.53	20.71				
15	QPSK	1	37	20.57	20.67	20.80		22	0	
15	QPSK	1	74	20.65	20.61	20.64				
15	QPSK	36	0	20.57	20.60	20.50				
15	QPSK	36	20	20.58	20.60	20.34		22	0	
15	QPSK	36	39	20.60	20.48	20.42				
15	QPSK	75	0	20.60	20.49	20.53				
15	QPSK	75	0	20.68	20.50	20.60				
15	16QAM	1	37	20.35	20.46	20.34		22	0	
15	16QAM	1	74	20.47	20.53	20.58				
15	16QAM	36	0	20.50	20.44	20.39				
15	16QAM	36	20	20.37	20.50	20.25		22	0	
15	16QAM	36	39	20.49	20.30	20.18				
15	16QAM	75	0	20.39	20.45	20.35				
15	16QAM	75	0	20.64	20.50	20.68				
15	64QAM	1	37	20.37	20.41	20.36		22	0	
15	64QAM	1	74	20.45	20.47	20.50				
15	64QAM	36	0	20.44	20.45	20.35				
15	64QAM	36	20	20.34	20.54	20.21		22	0	
15	64QAM	36	39	20.35	20.34	20.20				
15	256QAM	1	0	17.42	17.51	17.52				
15	256QAM	1	37	17.56	17.67	17.61		19	3	
15	256QAM	1	74	17.63	17.66	17.46				
15	256QAM	36	0	17.43	17.62	17.54				
15	256QAM	36	20	17.52	17.59	17.42		19	3	
15	256QAM	36	39	17.46	17.54	17.43				
15	256QAM	75	0	17.43	17.71	17.43				
				43180	43340	43500				
Channel										
				43180	43340	43500	Turn-up time (dBm)	MPR (dB)		
10	QPSK	1	0	30.55	30.71	30.91				
10	QPSK	1	0	20.68	20.76	20.65				
10	QPSK	1	49	20.63	20.63	20.52				
10	QPSK	1	99	20.59	20.58	20.51				
10	QPSK	25	0	20.70	20.74	20.48				
10	QPSK	25	12	20.48	20.59	20.39		22	0	
10	QPSK	25	25	20.52	20.51	20.35				
10	QPSK	50	0	20.57	20.52	20.47				
10	16QAM	1	0	20.60	20.51	20.49				
10	16QAM	1	25	20.36	20.41	20.43		22	0	
10	16QAM	1	49	20.58	20.63	20.58				
10	16QAM	25	0	20.53	20.64	20.35				
10	16QAM	25	12	20.35	20.59	20.20				
10	16QAM	25	25	20.36	20.37	20.20		22	0	
10	16QAM	50	0	20.28	20.58	20.44				
10	64QAM	1	0	20.53	20.77	20.69				
10	64QAM	1	25	20.32	20.20	20.53		22	0	
10	64QAM	1	49	20.45	20.39	20.27				
10	64QAM	25	0	20.42	20.42	20.22				
10	64QAM	25	12	20.42	20.51	20.26		22	0	
10	64QAM	25	25	20.36	20.37	20.26				
10	64QAM	50	0	20.31	20.55	20.45				
10	256QAM	1	0	17.66	17.83	17.57		19	3	
10	256QAM	1	25	17.48	17.73	17.63				
10	256QAM	1	49	17.48	17.56	17.49				
10	256QAM	25	0	17.71	17.60	17.57				
10	256QAM	25	12	17.65	17.65	17.51		19	3	
10	256QAM	25	25	17.54	17.57	17.47				
10	256QAM	50	0	17.67	17.72	17.51				
				43181	43340	43501				
Channel										
				43181	43340	43501	Turn-up time (dBm)	MPR (dB)		
5	QPSK	1	0	20.72	20.62	20.61				
5	QPSK	1	12	20.67	20.74	20.54		22	0	
5	QPSK	1	24	20.71	20.64	20.61				
5	QPSK	12	0	20.70	20.64	20.53				
5	QPSK	12	7	20.57	20.68	20.40		22	0	
5	QPSK	12	13	20.56	20.42	20.43				
5	QPSK	25	0	20.56	20.61	20.47				
5	16QAM	1	0	20.61	20.46	20.56				
5	16QAM	1	12	20.35	20.49	20.36		22	0	
5	16QAM	1	24	20.49	20.63	20.57				
5	16QAM	12	0	20.42	20.59	20.39				
5	16QAM	12	7	20.33	20.42	20.22		22	0	
5	16QAM	12	13	20.52	20.34	20.25				
5	16QAM	25	0	20.43	20.46	20.34				
5	64QAM	1	0	20.52	20.76	20.77				
5	64QAM	1	12	20.37	20.49	20.45		22	0	
5	64QAM	1	24	20.51	20.51	20.36				
5	64QAM	12	0	20.42	20.51	20.32				
5	64QAM	12	7	20.40	20.51	20.18		22	0	
5	64QAM	12	13	20.71	20.45	20.29				
5	256QAM	1	0	17.58	17.45	17.53		19	3	
5	256QAM	1	12	17.52	17.69	17.53				
5	256QAM	1	24	17.48	17.47	17.60				
5	256QAM	12	0	17.73	17.74	17.55				
5	256QAM	12	7	17.49	17.63	17.40		19	3	
5	256QAM	12	13	17.48	17.48	17.48				
5	256QAM	25	0	17.52	17.71	17.58				

Band 48 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Low Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				3600	3609	3641	3660			
20	QPSK	1	0	21.10	21.15	21.12	21.07	22	0	
20	QPSK	1	49	20.97	21.09	20.97	21.01			
20	QPSK	1	99	20.98	21.12	21.09	21.02			
20	QPSK	50	0	21.06	21.13	21.08	21.06			
20	QPSK	50	24	20.87	20.95	20.86	20.97	22	0	
20	QPSK	50	50	20.94	21.04	20.98	20.98			
20	QPSK	100	0	21.03	21.09	20.97	20.99			
20	16QAM	1	0	20.97	21.02	20.97	20.94			
20	16QAM	1	49	20.81	21.00	20.90	20.91	22	0	
20	16QAM	1	99	20.83	20.95	20.93	20.97			
20	16QAM	50	0	20.96	21.01	21.00	20.92			
20	16QAM	50	24	20.92	20.98	20.96	20.96			
20	16QAM	50	50	20.87	21.00	21.04	20.90	22	0	
20	16QAM	100	0	20.99	20.97	21.04	20.95			
20	64QAM	1	0	20.62	20.78	20.70	20.81			
20	64QAM	1	49	20.87	20.86	20.95	20.93			
20	64QAM	1	99	21.00	21.01	20.90	20.93	21	1	
20	64QAM	50	0	20.06	20.06	20.12	20.06			
20	64QAM	50	24	19.89	19.87	19.86	19.95			
20	64QAM	50	50	20.01	20.01	20.03	20.03			
20	64QAM	100	0	20.07	20.05	19.96	19.96	19	3	
20	256QAM	1	0	18.07	18.15	18.17	18.03			
20	256QAM	1	49	17.93	18.16	18.03	17.94			
20	256QAM	1	99	17.97	18.17	18.11	18.07			
20	256QAM	50	0	18.13	18.16	18.09	18.09	19	3	
20	256QAM	50	24	17.85	17.88	17.92	17.89			
20	256QAM	50	50	17.93	18.11	17.93	18.00			
20	256QAM	100	0	18.02	18.05	17.97	17.94			
Channel				55515	56000	56160	56655	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	21.04	21.10	21.05	21.03	22	0	
15	QPSK	1	37	20.82	20.95	20.86	20.88			
15	QPSK	1	74	20.89	20.98	20.94	20.94			
15	QPSK	36	0	20.88	21.01	21.03	20.95			
15	QPSK	36	20	20.73	20.76	20.78	20.89	22	0	
15	QPSK	36	39	20.88	20.90	20.80	20.79			
15	QPSK	75	0	20.93	21.01	20.82	20.88			
15	16QAM	1	0	20.79	20.82	20.82	20.86			
15	16QAM	1	37	20.66	20.94	20.74	20.75	22	0	
15	16QAM	1	74	20.85	20.85	20.73	20.84			
15	16QAM	36	0	20.77	20.92	20.84	20.78			
15	16QAM	36	20	20.82	20.91	20.77	20.66			
15	16QAM	36	39	20.71	20.86	20.84	20.79	22	0	
15	16QAM	75	0	20.83	20.86	20.85	20.86			
15	64QAM	1	0	20.77	20.81	20.81	20.82			
15	64QAM	1	37	20.74	20.69	20.89	20.77			
15	64QAM	1	74	20.84	20.87	20.73	20.89	21	1	
15	64QAM	36	0	19.97	20.00	20.02	20.01			
15	64QAM	36	20	19.72	19.74	19.73	19.89			
15	64QAM	36	39	19.96	19.85	19.95	19.81			
15	64QAM	75	0	20.00	19.90	19.86	19.89	19	3	
15	256QAM	1	0	18.01	18.09	18.07	17.87			
15	256QAM	1	37	17.84	18.11	17.92	17.77			
15	256QAM	1	74	17.78	18.09	18.06	17.87			
15	256QAM	36	0	18.06	18.03	17.96	17.86	19	3	
15	256QAM	36	20	17.74	17.81	17.77	17.73			
15	256QAM	36	39	17.85	18.05	17.78	17.84			
15	256QAM	75	0	17.87	17.92	17.82	17.83			
Channel				55515	56015	5642.5	5695	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3607.5	3642.5	3695			
10	QPSK	1	0	21.01	21.02	21.04	21.03	22	0	
10	QPSK	1	25	20.84	21.01	20.78	20.89			
10	QPSK	1	49	20.84	20.96	20.99	20.92			
10	QPSK	25	0	20.91	21.03	21.02	20.89			
10	QPSK	25	13	20.79	20.87	20.76	20.86	22	0	
10	QPSK	25	25	20.87	20.94	20.79	20.88			
10	QPSK	50	0	20.93	21.05	20.84	20.88			
10	16QAM	1	0	20.91	20.89	20.79	20.77			
10	16QAM	1	25	20.65	20.82	20.63	20.86	22	0	
10	16QAM	1	49	20.76	20.80	20.85	20.83			
10	16QAM	25	0	20.79	20.87	20.90	20.83			
10	16QAM	25	13	20.73	20.90	20.79	20.67			
10	16QAM	25	25	20.76	20.86	20.99	20.85	22	0	
10	16QAM	50	0	20.84	20.79	20.90	20.90			
10	64QAM	1	0	20.68	20.65	20.92	20.77			
10	64QAM	1	25	20.80	20.70	20.69	20.81			
10	64QAM	1	49	20.80	20.83	20.75	20.79	21	1	
10	64QAM	25	0	20.91	19.92	20.03	19.91			
10	64QAM	25	12	19.75	19.68	19.81	19.83			
10	64QAM	25	25	19.92	19.97	19.93	19.91			
10	256QAM	1	0	20.03	19.96	19.92	19.77	19	3	
10	256QAM	1	0	17.83	18.09	18.10	17.85			
10	256QAM	1	25	17.86	18.07	17.93	17.88			
10	256QAM	1	49	17.90	18.06	18.07	17.99			
10	256QAM	25	0	17.99	18.02	17.95	17.94	19	3	
10	256QAM	25	12	17.75	17.69	17.83	17.81			
10	256QAM	25	25	17.86	17.92	17.77	17.88			
10	256QAM	50	0	17.84	17.90	17.80	17.84			
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	20.96	20.89	20.99	21.01	22	0	
5	QPSK	1	12	20.80	21.02	20.88	20.97			
5	QPSK	1	24	20.85	20.95	21.02	20.83			
5	QPSK	12	0	21.02	21.06	21.02	20.91			
5	QPSK	12	7	20.75	20.80	20.68	20.80	22	0	
5	QPSK	12	13	20.89	20.94	20.88	20.81			
5	QPSK	25	0	20.86	20.89	20.91	20.86			
5	16QAM	1	0	20.87	20.93	20.84	20.86			
5	16QAM	1	12	20.70	20.81	20.66	20.75	22	0	
5	16QAM	1	24	20.84	20.80	20.76	20.86			
5	16QAM	12	0	20.84	20.87	20.84	20.81			
5	16QAM	12	7	20.83	20.89	20.77	20.69			
5	16QAM	12	13	20.71	20.89	20.86	20.86	22	0	
5	16QAM	25	0	20.93	20.84	20.88	20.78			
5	64QAM	1	0	20.65	20.70	20.63	20.67			
5	64QAM	1	12	20.78	20.76	20.79	20.87			
5	64QAM	1	24	20.87	20.88	20.80	20.74	21	1	
5	64QAM	12	0	19.94	19.96	20.02	19.86			
5	64QAM	12	7	19.78	19.77	19.77	19.85			
5	64QAM	12	13	19.83	19.81	19.86	19.58			
5	256QAM	1	0	19.86	19.91	19.86	19.80	19	3	
5	256QAM	1	0	17.81	18.08	18.00	17.86			
5	256QAM	1	12	17.84	18.02	17.94	17.76			
5	256QAM	1	24	17.88	18.00	18.07	17.84			
5	256QAM	12	0	17.97	18.00	17.91	18.05	19	3	
5	256QAM	12	7	17.79	17.69	17.81	17.76			
5	256QAM	12	13	17.87	17.92	17.74	17.88			
5	256QAM	25	0	17.82	17.88	17.81	17.88			

Uplink CA Power

Ant0								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.05	24.00
21100	21298	QPSK	1	99	1	0	23.17	24.00
21350	21152	QPSK	1	0	1	99	23.13	24.00

Ant1								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.12	23.00
21100	21298	QPSK	1	99	1	0	22.24	23.00
21350	21152	QPSK	1	0	1	99	22.16	23.00

Ant0								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.54	22.00
37901	38099	QPSK	1	99	1	0	20.63	22.00
38150	37952	QPSK	1	0	1	99	20.58	22.00

Ant1								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.36	24.00
37901	38099	QPSK	1	99	1	0	22.48	24.00
38150	37952	QPSK	1	0	1	99	22.44	24.00

Ant0								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.59	22.00
40185	40383	QPSK	1	99	1	0	20.63	22.00
40620	40818	QPSK	1	99	1	0	20.73	22.00
41055	41253	QPSK	1	99	1	0	20.68	22.00
41490	41292	QPSK	1	0	1	99	20.62	22.00

Ant1								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.37	24.00
40185	40383	QPSK	1	99	1	0	22.42	24.00
40620	40818	QPSK	1	99	1	0	22.58	24.00
41055	41253	QPSK	1	99	1	0	22.49	24.00
41490	41292	QPSK	1	0	1	99	22.46	24.00

Ant0								
CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.57	25.00
40185	40383	QPSK	1	99	1	0	23.6	25.00
40620	40818	QPSK	1	99	1	0	23.69	25.00
41055	41253	QPSK	1	99	1	0	23.62	25.00
41490	41292	QPSK	1	0	1	99	23.54	25.00

Ant1								
CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.40	27.00
40185	40383	QPSK	1	99	1	0	25.44	27.00
40620	40818	QPSK	1	99	1	0	25.58	27.00
41055	41253	QPSK	1	99	1	0	25.52	27.00
41490	41292	QPSK	1	0	1	99	25.47	27.00

Ant2								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.96	23.00
21100	21298	QPSK	1	99	1	0	22.08	23.00
21350	21152	QPSK	1	0	1	99	22.05	23.00

Ant3								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.20	24.00
21100	21298	QPSK	1	99	1	0	23.32	24.00
21350	21152	QPSK	1	0	1	99	23.26	24.00

Ant2								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.43	24.00
37901	38099	QPSK	1	99	1	0	22.51	24.00
38150	37952	QPSK	1	0	1	99	22.46	24.00

Ant3								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	23.43	24.00
37901	38099	QPSK	1	99	1	0	23.51	24.00
38150	37952	QPSK	1	0	1	99	23.46	24.00

Ant2								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.13	24.00
40185	40383	QPSK	1	99	1	0	22.49	24.00
40620	40818	QPSK	1	99	1	0	22.57	24.00
41055	41253	QPSK	1	99	1	0	22.52	24.00
41490	41292	QPSK	1	0	1	99	22.46	24.00

Ant3								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.61	24.00
40185	40383	QPSK	1	99	1	0	23.7	24.00
40620	40818	QPSK	1	99	1	0	23.79	24.00
41055	41253	QPSK	1	99	1	0	23.52	24.00
41490	41292	QPSK	1	0	1	99	23.43	24.00

Ant2								
CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.44	27.00
40185	40383	QPSK	1	99	1	0	25.54	27.00
40620	40818	QPSK	1	99	1	0	25.63	27.00
41055	41253	QPSK	1	99	1	0	25.56	27.00
41490	41292	QPSK	1	0	1	99	25.51	27.00

Ant3								
CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	26.66	27.00
40185	40383	QPSK	1	99	1	0	26.74	27.00
40620	40818	QPSK	1	99	1	0	26.79	27.00
41055	41253	QPSK	1	99	1	0	26.72	27.00
41490	41292	QPSK	1	0	1	99	26.68	27.00

Ant2 Standalone

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	14.12
21100	21298	QPSK	1	99	1	0	14.28
21350	21152	QPSK	1	0	1	99	14.22

Ant3 Standalone

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	16.32
21100	21298	QPSK	1	99	1	0	16.44
21350	21152	QPSK	1	0	1	99	16.29

Ant2 Standalone

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	15.79
37901	38099	QPSK	1	99	1	0	15.91
38150	37952	QPSK	1	0	1	99	18.83

Ant3 Standalone

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	19.27
37901	38099	QPSK	1	99	1	0	19.32
38150	37952	QPSK	1	0	1	99	19.24

Ant2 Standalone

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	15.82
40185	40383	QPSK	1	99	1	0	15.88
40620	40818	QPSK	1	99	1	0	15.96
41055	41253	QPSK	1	99	1	0	15.91
41490	41292	QPSK	1	0	1	99	15.85

Ant3 Standalone

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	19.29
40185	40383	QPSK	1	99	1	0	19.26
40620	40818	QPSK	1	99	1	0	19.37
41055	41253	QPSK	1	99	1	0	19.2
41490	41292	QPSK	1	0	1	99	19.15

Ant2 Standalone

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	17.45
40185	40383	QPSK	1	99	1	0	17.48
40620	40818	QPSK	1	99	1	0	17.6
41055	41253	QPSK	1	99	1	0	17.51
41490	41292	QPSK	1	0	1	99	17.47

Ant3 Standalone

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	21.00
40185	40383	QPSK	1	99	1	0	21.12
40620	40818	QPSK	1	99	1	0	21.14
41055	41253	QPSK	1	99	1	0	21.05
41490	41292	QPSK	1	0	1	99	21.11

Ant2 Simultaneous

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	12.94	14.30
21100	21298	QPSK	1	99	1	0	13.12	14.30
21350	21152	QPSK	1	0	1	99	13.07	14.30

Ant3 Simultaneous

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	15.36	16.60
21100	21298	QPSK	1	99	1	0	15.45	16.60
21350	21152	QPSK	1	0	1	99	15.41	16.60

Ant2 Simultaneous

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	14.73	16.30
37901	38099	QPSK	1	99	1	0	14.77	16.30
38150	37952	QPSK	1	0	1	99	14.61	16.30

Ant3 Simultaneous

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	18.40	19.60
37901	38099	QPSK	1	99	1	0	18.46	19.60
38150	37952	QPSK	1	0	1	99	18.32	19.60

Ant2 Simultaneous

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	14.75	16.30
40185	40383	QPSK	1	99	1	0	14.8	16.30
40620	40818	QPSK	1	99	1	0	14.87	16.30
41055	41253	QPSK	1	99	1	0	14.84	16.30
41490	41292	QPSK	1	0	1	99	14.78	16.30

Ant3 Simultaneous

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.38	19.60
40185	40383	QPSK	1	99	1	0	18.47	19.60
40620	40818	QPSK	1	99	1	0	18.54	19.60
41055	41253	QPSK	1	99	1	0	18.32	19.60
41490	41292	QPSK	1	0	1	99	18.27	19.60

Ant2 Simultaneous

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	16.27	17.90
40185	40383	QPSK	1	99	1	0	16.32	17.90
40620	40818	QPSK	1	99	1	0	16.45	17.90
41055	41253	QPSK	1	99	1	0	16.4	17.90
41490	41292	QPSK	1	0	1	99	16.36	17.90

Ant3 Simultaneous

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.00	21.20
40185	40383	QPSK	1	99	1	0	20.03	21.20
40620	40818	QPSK	1	99	1	0	20.17	21.20
41055	41253	QPSK	1	99	1	0	20.11	21.20
41490	41292	QPSK	1	0	1	99	20.02	21.20



Ant0 Body Worn open

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
20850	21048	QPSK	1	99	1	0	21.96
21100	21298	QPSK	1	99	1	0	22.08
21350	21152	QPSK	1	0	1	99	22.02

Ant1 Body Worn open

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
20850	21048	QPSK	1	99	1	0	19.78
21100	21298	QPSK	1	99	1	0	19.87
21350	21152	QPSK	1	0	1	99	19.83

Ant2 Body Worn open

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
20850	21048	QPSK	1	99	1	0	18.20
21100	21298	QPSK	1	99	1	0	18.20
21350	21152	QPSK	1	0	1	99	18.28

Ant1 Body Worn open

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
37850	38048	QPSK	1	99	1	0	22.36
37901	38099	QPSK	1	99	1	0	22.48
38150	37952	QPSK	1	0	1	99	22.44

Ant2 Body Worn open

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
37850	38048	QPSK	1	99	1	0	20.66
37901	38099	QPSK	1	99	1	0	20.71
38150	37952	QPSK	1	0	1	99	20.54

Ant1 Body Worn open

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
39750	39948	QPSK	1	99	1	0	22.37
40185	40383	QPSK	1	99	1	0	22.42
40620	40818	QPSK	1	99	1	0	22.58
41055	41253	QPSK	1	99	1	0	22.49
41490	41292	QPSK	1	0	1	99	22.46

Ant2 Body Worn open

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
39750	39948	QPSK	1	99	1	0	20.60
40185	40383	QPSK	1	99	1	0	20.72
40620	40818	QPSK	1	99	1	0	20.76
41055	41253	QPSK	1	99	1	0	20.67
41490	41292	QPSK	1	0	1	99	20.7

Ant1 Body Worn open

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
39750	39948	QPSK	1	99	1	0	23.78
40185	40383	QPSK	1	99	1	0	23.75
40620	40818	QPSK	1	99	1	0	23.97
41055	41253	QPSK	1	99	1	0	23.89
41490	41292	QPSK	1	0	1	99	23.86

Ant2 Body Worn open

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
39750	39948	QPSK	1	99	1	0	21.90
40185	40383	QPSK	1	99	1	0	21.95
40620	40818	QPSK	1	99	1	0	22.11
41055	41253	QPSK	1	99	1	0	21.81
41490	41292	QPSK	1	0	1	99	22.05



Ant3 Body Worn open

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.92	22.80
21100	21298	QPSK	1	99	1	0	22.06	22.80
21350	21152	QPSK	1	0	1	99	22.00	22.80

Ant0 Hotspot open

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.74	20.00
21100	21298	QPSK	1	99	1	0	18.86	20.00
21350	21152	QPSK	1	0	1	99	18.80	20.00

Ant1 Hotspot open

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.78	20.20
21100	21298	QPSK	1	99	1	0	18.85	20.20
21350	21152	QPSK	1	0	1	99	18.73	20.20

Ant1 Hotspot open

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.36	23.60
37901	38099	QPSK	1	99	1	0	22.48	23.60
38150	37952	QPSK	1	0	1	99	22.44	23.60

Ant1 Hotspot open

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.37	23.60
40185	40383	QPSK	1	99	1	0	22.42	23.60
40620	40818	QPSK	1	99	1	0	22.58	23.60
41055	41253	QPSK	1	99	1	0	22.49	23.60
41490	41292	QPSK	1	0	1	99	22.46	23.60

Ant3 Body Worn open

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.06	25.90
40185	40383	QPSK	1	99	1	0	25.11	25.90
40620	40818	QPSK	1	99	1	0	25.22	25.90
41055	41253	QPSK	1	99	1	0	25.08	25.90
41490	41292	QPSK	1	0	1	99	25.16	25.90

Ant1 Hotspot open

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.78	25.20
40185	40383	QPSK	1	99	1	0	23.75	25.20
40620	40818	QPSK	1	99	1	0	23.97	25.20
41055	41253	QPSK	1	99	1	0	23.89	25.20
41490	41292	QPSK	1	0	1	99	23.86	25.20

Ant2 Hotspot open

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	16.22	17.70
21100	21298	QPSK	1	99	1	0	16.34	17.70
21350	21152	QPSK	1	0	1	99	16.17	17.70

Ant3 Hotspot open

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.00	22.30
21100	21298	QPSK	1	99	1	0	21.12	22.30
21350	21152	QPSK	1	0	1	99	21.08	22.30

Ant2 Hotspot open

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.71	20.90
37901	38099	QPSK	1	99	1	0	19.80	20.90
38150	37952	QPSK	1	0	1	99	19.65	20.90

Ant3 Hotspot open

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.95	24.00
37901	38099	QPSK	1	99	1	0	22.98	24.00
38150	37952	QPSK	1	0	1	99	22.90	24.00

Ant2 Hotspot open

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.75	20.90
40185	40383	QPSK	1	99	1	0	19.77	20.90
40620	40818	QPSK	1	99	1	0	19.84	20.90
41055	41253	QPSK	1	99	1	0	19.73	20.90
41490	41292	QPSK	1	0	1	99	19.68	20.90

Ant3 Hotspot open

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.86	24.00
40185	40383	QPSK	1	99	1	0	23.02	24.00
40620	40818	QPSK	1	99	1	0	23.13	24.00
41055	41253	QPSK	1	99	1	0	23	24.00
41490	41292	QPSK	1	0	1	99	22.86	24.00

Ant2 Hotspot open

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.05	22.50
40185	40383	QPSK	1	99	1	0	21.13	22.50
40620	40818	QPSK	1	99	1	0	21.2	22.50
41055	41253	QPSK	1	99	1	0	21.09	22.50
41490	41292	QPSK	1	0	1	99	21.05	22.50

Ant3 Hotspot open

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.46	25.70
40185	40383	QPSK	1	99	1	0	24.49	25.70
40620	40818	QPSK	1	99	1	0	24.66	25.70
41055	41253	QPSK	1	99	1	0	24.62	25.70
41490	41292	QPSK	1	0	1	99	24.51	25.70



Uplink CA Power

Ant0 Body Worn close

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	20.84
21100	21298	QPSK	1	99	1	0	20.91
21350	21152	QPSK	1	0	1	99	20.78

Ant1 Body Worn close

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	21.68
21100	21298	QPSK	1	99	1	0	21.80
21350	21152	QPSK	1	0	1	99	21.72

Ant2 Body Worn close

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	17.75
21100	21298	QPSK	1	99	1	0	17.82
21350	21152	QPSK	1	0	1	99	17.70

Ant2 Body Worn close

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	21.89
37901	38099	QPSK	1	99	1	0	22.94
38150	37952	QPSK	1	0	1	99	21.76

Ant2 Body Worn close

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	21.97
40185	40383	QPSK	1	99	1	0	21.87
40620	40818	QPSK	1	99	1	0	22.06
41055	41253	QPSK	1	99	1	0	21.93
41490	41292	QPSK	1	0	1	99	21.9

Ant1

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	25.40
40185	40383	QPSK	1	99	1	0	25.44
40620	40818	QPSK	1	99	1	0	25.58
41055	41253	QPSK	1	99	1	0	25.52
41490	41292	QPSK	1	0	1	99	25.47

Ant2 Body Worn close

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	23.20
40185	40383	QPSK	1	99	1	0	23.05
40620	40818	QPSK	1	99	1	0	23.26
41055	41253	QPSK	1	99	1	0	23.13
41490	41292	QPSK	1	0	1	99	23.19

Uplink CA Power

Ant0 Hotspot close

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.40	20.70
21100	21298	QPSK	1	99	1	0	19.43	20.70
21350	21152	QPSK	1	0	1	99	19.36	20.70

Ant1 Hotspot close

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.78	21.50
21100	21298	QPSK	1	99	1	0	19.87	21.50
21350	21152	QPSK	1	0	1	99	19.83	21.50

Ant1

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.36	23.40
37901	38099	QPSK	1	99	1	0	22.48	23.40
38150	37952	QPSK	1	0	1	99	22.44	23.40

Ant1

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.37	23.40
40185	40383	QPSK	1	99	1	0	22.42	23.40
40620	40818	QPSK	1	99	1	0	22.58	23.40
41055	41253	QPSK	1	99	1	0	22.49	23.40
41490	41292	QPSK	1	0	1	99	22.46	23.40

Ant0

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.57	24.10
40185	40383	QPSK	1	99	1	0	23.6	24.10
40620	40818	QPSK	1	99	1	0	23.69	24.10
41055	41253	QPSK	1	99	1	0	23.62	24.10
41490	41292	QPSK	1	0	1	99	23.54	24.10

Ant1

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.99	25.00
40185	40383	QPSK	1	99	1	0	23.97	25.00
40620	40818	QPSK	1	99	1	0	24.09	25.00
41055	41253	QPSK	1	99	1	0	24.07	25.00
41490	41292	QPSK	1	0	1	99	23.99	25.00

Ant2 Hotspot close

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	16.76
21100	21298	QPSK	1	99	1	0	16.85
21350	21152	QPSK	1	0	1	99	16.80

Ant3 Hotspot close

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	22.66
21100	21298	QPSK	1	99	1	0	22.72
21350	21152	QPSK	1	0	1	99	22.60

Ant2 Hotspot close

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	18.06
37901	38099	QPSK	1	99	1	0	18.28
38150	37952	QPSK	1	0	1	99	18.15

Ant3

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	22.91
37901	38099	QPSK	1	99	1	0	22.99
38150	37952	QPSK	1	0	1	99	22.95

Ant2 Hotspot close

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	18.17
40185	40383	QPSK	1	99	1	0	18.07
40620	40818	QPSK	1	99	1	0	18.31
41055	41253	QPSK	1	99	1	0	18.23
41490	41292	QPSK	1	0	1	99	18.1

Ant3

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	22.99
40185	40383	QPSK	1	99	1	0	23.07
40620	40818	QPSK	1	99	1	0	23.11
41055	41253	QPSK	1	99	1	0	22.95
41490	41292	QPSK	1	0	1	99	22.88

Ant2 Hotspot close

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	19.54
40185	40383	QPSK	1	99	1	0	19.51
40620	40818	QPSK	1	99	1	0	19.63
41055	41253	QPSK	1	99	1	0	19.48
41490	41292	QPSK	1	0	1	99	19.44

Ant3

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	23.81
40185	40383	QPSK	1	99	1	0	23.91
40620	40818	QPSK	1	99	1	0	23.97
41055	41253	QPSK	1	99	1	0	23.89
41490	41292	QPSK	1	0	1	99	23.85

Ant1 Standalone

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.68	23.00
21100	21298	QPSK	1	99	1	0	21.80	23.00
21350	21152	QPSK	1	0	1	99	21.72	23.00

Ant2 Standalone

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.11	21.40
21100	21298	QPSK	1	99	1	0	20.25	21.40
21350	21152	QPSK	1	0	1	99	20.15	21.40

Ant2 Standalone

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.41	23.70
37901	38099	QPSK	1	99	1	0	22.53	23.70
38150	37952	QPSK	1	0	1	99	22.46	23.70

Ant2 Standalone

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.45	23.70
40185	40383	QPSK	1	99	1	0	22.49	23.70
40620	40818	QPSK	1	99	1	0	22.56	23.70
41055	41253	QPSK	1	99	1	0	22.43	23.70
41490	41292	QPSK	1	0	1	99	22.37	23.70

Ant2 Standalone

CA_41C HPUE								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.03	25.30
40185	40383	QPSK	1	99	1	0	24.1	25.30
40620	40818	QPSK	1	99	1	0	24.15	25.30
41055	41253	QPSK	1	99	1	0	24.12	25.30
41490	41292	QPSK	1	0	1	99	24.08	25.30

Ant3 Standalone								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.57	22.80
21100	21298	QPSK	1	99	1	0	21.59	22.80
21350	21152	QPSK	1	0	1	99	21.50	22.80

Ant1 Simultaneous								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.30	23.00
21100	21298	QPSK	1	99	1	0	21.43	23.00
21350	21152	QPSK	1	0	1	99	21.37	23.00

Uplink CA Power

Ant2 Simultaneous

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
20850	21048	QPSK	1	99	1	0	19.59
21100	21298	QPSK	1	99	1	0	19.70
21350	21152	QPSK	1	0	1	99	19.66

Ant3 Simultaneous

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
20850	21048	QPSK	1	99	1	0	21.63
21100	21298	QPSK	1	99	1	0	21.67
21350	21152	QPSK	1	0	1	99	21.55

Ant2 Simultaneous

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
37850	38048	QPSK	1	99	1	0	22.08
37901	38099	QPSK	1	99	1	0	22.14
38150	37952	QPSK	1	0	1	99	22.01

Ant2 Simultaneous

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
39750	39948	QPSK	1	99	1	0	22.00
40185	40383	QPSK	1	99	1	0	22.11
40620	40818	QPSK	1	99	1	0	22.18
41055	41253	QPSK	1	99	1	0	22.04
41490	41292	QPSK	1	0	1	99	21.98

Ant2 Simultaneous

CA_41C HPUE							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Tune up Power (dBm)
39750	39948	QPSK	1	99	1	0	23.26
40185	40383	QPSK	1	99	1	0	23.38
40620	40818	QPSK	1	99	1	0	23.44
41055	41253	QPSK	1	99	1	0	23.21
41490	41292	QPSK	1	0	1	99	23.34

DL CA Power

2CA DL

CA List	PCC								SCC				Power			
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna Configuratio	LTE	BW	DL	DL	DL Antenna Configuratio	With CA	Without CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	n	Tx Power (dBm)	Tx Power (dBm)	
CA_2A-66A	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	21.08	21.24
	Band 2	Ant3	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.64	22.72
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		20.24	20.36
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		21.76	21.81
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		21.42	21.57
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		22.73	22.89
CA_2C	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 2	20M	1980	1098		21.19	21.24
	Band 2	Ant3	20M	1880	18900	QPSK	1	0		Band 2	20M	1980	1098		22.69	22.72
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		22.71	22.82
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		21.16	21.31
CA_7A-32A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 32	20M	1474	10140		23.09	23.24
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 32	20M	1474	10140		22.13	22.30
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 32	20M	1474	10140		22.05	22.13
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 32	20M	1474	10140		23.27	23.41
CA_7B	Band 7	Ant0	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	23.09	23.24
	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	22.06	22.30
	Band 7	Ant2	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	21.92	22.13
	Band 7	Ant3	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	23.34	23.41
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154	66879	4x4MIMO	20.19	20.36
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154	66879	4x4MIMO	21.81	21.83
	Band 66	Ant2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154	66879	4x4MIMO	21.43	21.57
	Band 66	Ant3	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154	66879	4x4MIMO	22.84	22.89
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2165	66984	4x4MIMO	20.31	20.36
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2165	66984	4x4MIMO	21.65	21.83
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2165	66984	4x4MIMO	21.35	21.57
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2165	66984	4x4MIMO	22.73	22.89
CA_38C	Band 38	Ant0	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	21.24	21.40
	Band 38	Ant1	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	22.29	22.53
	Band 38	Ant2	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	23.45	23.59
CA_41A-41A	Band 38	Ant3	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	23.35	23.57
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	20.63	20.77
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	22.46	22.69
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	22.59	22.68
CA_41C	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	23.69	23.85
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	20.56	20.77
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.53	22.69
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.52	22.68
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	23.63	23.85

3CA DL

3CA List	PCC									SCC1				SCC2				Power				
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA		
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Without CA (dBm)	
CA_2A-4A-5A	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		21.19	21.24	
	Band 2	Ant3	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		22.68	22.72	
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900		21.14	21.30	
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900		22.82	22.87	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO		22.68	22.82
CA_2A-4A-7A	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO		21.26	21.31
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.06	21.24
	Band 2	Ant3	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.65	22.72
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		21.21	21.30	
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		22.63	22.87	
CA_2A-7A-7A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO		23.17	23.24
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO		22.19	22.30
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO		22.03	22.13
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO		23.26	23.41
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		21.16	21.30
CA_4A-7C	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		22.75	22.87
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		23.18	23.24
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.22	22.30
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.04	22.13
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		23.30	23.41
CA_5A-7A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.70	22.82
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.20	21.31
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO		23.17	23.24
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO		22.13	22.30
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO		22.05	22.13
CA_7A-66A-66A	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO		23.27	23.41
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		20.17	20.36	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		21.68	21.83	
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		21.43	21.57	
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		22.67	22.80	
CA_7A-66A-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		23.16	23.24
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		22.12	22.30
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		22.04	22.13
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		23.26	23.41
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		20.21	20.36
CA_41D	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.75	21.83
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.38	21.57
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.80	22.89
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO		20.63	20.77
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO		22.49	22.69
CA_41D	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO		22.54	22.68
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO		23.76	23.85

4CA DL

Configure	PCC									SCC1					SCC2					SCC3					Power	
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna Configuration	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-4A-7C	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298		21.10	21.24
	Band 2	Ant3	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298		22.59	22.72
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		21.13	21.30
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		22.67	22.87
	Band 7	Ant0	20M	2635	21100	QPSK	1	0		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.12	23.24
	Band 7	Ant1	20M	2635	21100	QPSK	1	0		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.09	22.30
	Band 7	Ant2	20M	2635	21100	QPSK	1	0		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.03	22.13
	Band 7	Ant3	20M	2635	21100	QPSK	1	0		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.25	23.41

5CA DL

Configure	PCC										SCC1				SCC2				SCC3				SCC4				Power				
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA					
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	DL Antenna Configuration	Band	(MHz)	Freq. (MHz)	Channel	DL Antenna Configuration	Band	(MHz)	Freq. (MHz)	Channel	DL Antenna Configuration	Tx. Power (dBm)	Tx. Power (dBm)					
CA_5A-7C-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.74	22.82
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	21.21	21.31
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		23.08	23.24
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.16	22.30
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.07	22.13
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		23.26	23.41
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	20.19	20.36
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	21.70	21.83
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	21.42	21.57
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.68	22.89



Full&Default Power Mode

n5 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16600	Power Middle Ch. / Freq. 16700	Power High Ch. / Freq. 16760	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.18	23.23	23.13	24.0	0.0	
20	PI2 BPSK	1	53	23.04	23.14	23.06			
20	PI2 BPSK	1	104	22.98	23.06	22.94			
20	PI2 BPSK	50	0	22.65	22.76	22.73	23.5	0.5	
20	PI2 BPSK	50	28	23.08	23.18	23.11	24.0	0.0	
20	PI2 BPSK	50	56	22.59	22.64	22.51	23.5	0.5	
20	PI2 BPSK	100	0	22.66	22.70	22.63			
20	QPSK	1	1	23.23	23.27	23.16	24.0	0.0	
20	QPSK	1	53	23.11	23.18	23.13			
20	QPSK	1	104	22.96	23.05	22.98	23.0	1.0	
20	QPSK	50	0	22.14	22.21	22.01			
20	QPSK	50	28	23.15	23.21	23.08	24.0	0.0	
20	QPSK	50	56	22.14	22.18	22.06	23.0	1.0	
20	QPSK	100	0	22.17	22.23	22.13			
20	16QAM	1	1	22.39	22.48	22.42	23.0	1.0	
20	64QAM	1	1	20.73	20.86	20.79	21.5	2.5	
20	256QAM	1	1	18.89	19.01	18.96	19.5	4.5	
Channel									
Frequency (MHz)				166300	167300	168300	Tune-up limit (dbm)	MPR (db)	
15	QPSK	1	1	23.11	23.15	23.08	24.0	0.0	
Channel									
Frequency (MHz)				829	836.5	844	Tune-up limit (dbm)	MPR (db)	
10	QPSK	1	1	23.13	23.15	23.02	24.0	0.0	
Channel									
Frequency (MHz)				165300	167300	169300	Tune-up limit (dbm)	MPR (db)	
5	QPSK	1	1	23.17	23.23	23.04	24.0	0.0	

n7 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	21.80	21.91	21.85	23.0	0.0	
40	PI2 BPSK	1	108	21.74	21.88	21.81			
40	PI2 BPSK	1	214	21.74	21.80	21.66	22.5	0.5	
40	PI2 BPSK	108	0	21.38	21.44	21.37			
40	PI2 BPSK	108	54	21.79	21.87	21.75	23.0	0.0	
40	PI2 BPSK	108	108	21.38	21.49	21.37	22.5	0.5	
40	PI2 BPSK	216	0	21.39	21.42	21.34			
40	QPSK	1	1	21.92	21.96	21.89	23.0	0.0	
40	QPSK	1	108	21.78	21.92	21.82			
40	QPSK	1	214	21.74	21.85	21.80	22.0	1.0	
40	QPSK	108	0	20.87	20.97	20.87			
40	QPSK	108	54	21.86	21.90	21.85	23.0	0.0	
40	QPSK	108	108	20.80	20.89	20.80	22.0	1.0	
40	QPSK	216	0	20.81	20.94	20.84			
40	16QAM	1	1	20.73	20.86	20.77	22.0	1.0	
40	64QAM	1	1	19.27	19.41	19.36	20.5	2.5	
40	256QAM	1	1	17.30	17.38	17.23	18.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.77	21.88	21.80	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.81	21.83	21.78	23.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.88	21.92	21.79	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.80	21.90	21.75	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.88	21.84	21.76	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.83	21.88	21.70	23.0	0.0	

n66 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.14	22.27	22.17	23.0	0.0	
40	PI2 BPSK	1	108	22.07	22.22	22.11			
40	PI2 BPSK	1	214	22.08	22.16	22.12	22.5	0.5	
40	PI2 BPSK	108	0	21.86	21.86	21.82			
40	PI2 BPSK	108	54	22.02	22.20	22.13	23.0	0.0	
40	PI2 BPSK	108	108	21.89	21.81	21.78	22.5	0.5	
40	PI2 BPSK	216	0	21.74	21.94	21.85			
40	QPSK	1	1	22.23	22.35	22.31	23.0	0.0	
40	QPSK	1	108	22.04	22.26	22.14			
40	QPSK	1	214	22.02	22.21	22.07	22.0	1.0	
40	QPSK	108	0	21.13	21.38	21.24			
40	QPSK	108	54	22.15	22.29	22.24	23.0	0.0	
40	QPSK	108	108	21.24	21.48	21.35	22.0	1.0	
40	QPSK	216	0	21.26	21.43	21.29			
40	16QAM	1	1	20.96	21.11	21.01	22.0	1.0	
40	64QAM	1	1	19.67	19.83	19.81	20.5	2.5	
40	256QAM	1	1	17.69	17.85	17.73	18.5	4.5	
Channel									
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.11	22.27	22.20	23.0	0.0	
Channel									
Frequency (MHz)				1720	1745	1770	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.16	22.31	22.24	23.0	0.0	
Channel									
Frequency (MHz)				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.16	22.28	22.24	23.0	0.0	
Channel									
Frequency (MHz)				341000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.19	22.22	22.17	23.0	0.0	
Channel									
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.16	22.29	22.21	23.0	0.0	



n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	21.54	21.76	21.72	23.0	0.0	
40	PV2 BPSK	1	53	21.64	21.72	21.66			
40	PV2 BPSK	1	104	21.44	21.61	21.52			
40	PV2 BPSK	50	0	20.90	21.01	20.98			
40	PV2 BPSK	50	28	21.50	21.75	21.50	22.5	0.0	
40	PV2 BPSK	50	56	20.91	21.03	21.00	22.5	0.5	
40	PV2 BPSK	100	0	20.90	21.02	21.01			
40	QPSK	1	1	21.79	21.83	21.82			
40	QPSK	1	53	21.55	21.71	21.61			
40	QPSK	1	104	21.45	21.70	21.62	23.0	1.0	
40	QPSK	50	0	20.51	20.73	20.55			
40	QPSK	50	28	21.62	21.76	21.68			
40	QPSK	50	56	20.48	20.62	20.54			
40	QPSK	100	0	20.57	20.65	20.58	22.0	1.0	
40	16QAM	1	1	20.46	20.65	20.53			
40	64QAM	1	1	19.09	19.28	19.14			
40	256QAM	1	1	17.21	17.44	17.34			
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	21.74	21.76	21.75	23.0	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.35	2595	2607.48			
25	QPSK	1	1	21.70	21.69	21.69	23.0	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.65	21.70	21.70	23.0	0.0	
Channel				515000	519000	522496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.71	21.73	21.72	23.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.10	2595	2614.98			
10	QPSK	1	1	21.65	21.69	21.67	23.0	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509020	518698	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.70	21.82	21.78	23.0	0.0	
100	PQ2 BPSK	1	137	21.72	21.77	21.68			
100	PQ2 BPSK	1	271	21.60	21.71	21.57			
100	PQ2 BPSK	135	0	20.06	20.17	20.08			
100	PQ2 BPSK	135	69	21.67	21.74	21.62	23.0	0.5	
100	PQ2 BPSK	135	138	20.26	20.38	20.25	22.5	0.5	
100	PQ2 BPSK	270	0	20.12	20.24	20.17			
100	QPSK	1	1	21.74	21.86	21.81			
100	QPSK	1	137	21.71	21.80	21.73			
100	QPSK	1	271	21.67	21.73	21.70	22.0	0.0	
100	QPSK	135	0	20.41	20.47	20.40			
100	QPSK	135	69	21.69	21.76	21.75			
100	QPSK	135	138	20.41	20.50	20.41			
100	QPSK	270	0	20.45	20.55	20.47	22.0	1.0	
100	16QAM	1	1	20.48	20.54	20.49			
100	64QAM	1	1	18.91	18.97	18.92			
100	256QAM	1	1	17.61	18.68	18.65			
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	21.61	21.69	21.59	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	21.59	21.68	21.70	23.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2645			
70	QPSK	1	1	21.68	21.73	21.60	23.0	0.0	
Channel				505200	518598	531006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.62	21.65	21.68	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	21.61	21.67	21.62	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.65	21.73	21.65	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.58	21.66	21.61	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.57	21.65	21.68	23.0	0.0	

n41 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 508200	Power Middle Ch. Freq. 518598	Power High Ch. Freq. 528800	Tune-up limit (dBm)	MPR (dB)	
Channel				508200	2546.01	2592.99	2640		
100	PV2 BPSK	1	1	24.81	24.88	24.78	26.0	0.0	
100	PV2 BPSK	1	137	24.72	24.81	24.76			
100	PV2 BPSK	1	271	24.71	24.75	24.64			
100	PV2 BPSK	135	0	24.37	24.43	24.39			
100	PV2 BPSK	135	69	24.73	24.80	24.72	26.0	0.5	
100	PV2 BPSK	135	138	24.43	24.43	24.38	25.5	0.0	
100	PV2 BPSK	270	0	24.45	24.51	24.38			
100	QPSK	1	1	24.84	24.92	24.89			
100	QPSK	1	137	24.72	24.85	24.82			
100	QPSK	1	271	24.67	24.79	24.66	26.0	1.0	
100	QPSK	135	0	23.92	24.01	23.88			
100	QPSK	135	69	24.76	24.86	24.78			
100	QPSK	135	138	23.98	24.01	23.98			
100	QPSK	270	0	24.04	24.05	24.01	25.0	1.0	
100	16QAM	1	1	24.08	24.13	24.10			
100	64QAM	1	1	22.14	22.28	22.10			
100	256QAM	1	1	20.21	20.35	20.29			
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	24.71	24.86	24.81	26.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	24.77	24.85	24.85	26.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	24.73	24.82	24.76	26.0	0.0	
Channel				505200	518598	531006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	24.70	24.86	24.80	26.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	24.74	24.83	24.83	26.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.72	24.87	24.83	26.0	0.0	
Channel				502200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.80	24.79	24.76	26.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2499.99	2592.99	2679.99			
20	QPSK	1	1	24.75	24.85	24.77	26.0	0.0	

Part270 n77 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.24	20.37	20.28	21.0	0.0	
100	PI2 BPSK	1	137	20.20	20.33	20.22			
100	PI2 BPSK	1	271	20.15	20.28	20.22			
100	PI2 BPSK	135	0	18.72	18.78	18.74	20.5	0.5	
100	PI2 BPSK	135	69	20.22	20.31	20.19	21.0	0.0	
100	PI2 BPSK	135	138	18.63	18.76	18.67	20.5	0.5	
100	PI2 BPSK	270	0	18.80	18.88	18.80			
100	QPSK	1	1	20.37	20.43	20.31	21.0	0.0	
100	QPSK	1	137	20.19	20.35	20.25			
100	QPSK	1	271	20.13	20.31	20.20			
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0	
100	QPSK	135	69	20.20	20.38	20.27	21.0	0.0	
100	QPSK	135	138	18.84	18.96	18.81	20.0	1.0	
100	QPSK	270	0	18.91	19.02	18.86			
100	16QAM	1	1	18.60	18.68	18.60	20.0	1.0	
100	64QAM	1	1	17.49	17.65	17.53	18.5	2.5	
100	256QAM	1	1	15.22	15.32	15.26	16.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.26	20.38	20.30	21.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.19	20.29	20.31	21.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.23	20.38	20.32	21.0	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.19	20.28	20.30	21.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.28	20.37	20.25	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.24	20.30	20.31	21.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	20.20	20.28	20.26	21.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.22	20.28	20.24	21.0	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.16	20.35	20.30	21.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.28	20.34	20.28	21.0	0.0	

Part270 n77 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.33	23.39	23.29	24.0	0.0	
100	PI2 BPSK	1	137	23.23	23.33	23.26			
100	PI2 BPSK	1	271	23.14	23.27	23.23			
100	PI2 BPSK	135	0	22.79	22.88	22.84	23.5	0.5	
100	PI2 BPSK	135	69	23.28	23.34	23.20	24.0	0.0	
100	PI2 BPSK	135	138	22.86	22.90	22.79	23.5	0.5	
100	PI2 BPSK	270	0	22.88	22.94	22.82			
100	QPSK	1	1	23.36	23.42	23.32	24.0	0.0	
100	QPSK	1	137	23.28	23.35	23.25			
100	QPSK	1	271	23.21	23.31	23.22			
100	QPSK	135	0	22.21	22.34	22.26	23.0	1.0	
100	QPSK	135	69	23.22	23.38	23.26	24.0	0.0	
100	QPSK	135	138	22.34	22.39	22.34	23.0	1.0	
100	QPSK	270	0	22.32	22.45	22.39			
100	16QAM	1	1	22.46	22.57	22.51	23.0	1.0	
100	64QAM	1	1	20.74	20.88	20.77	21.5	2.5	
100	256QAM	1	1	18.58	18.67	18.63	19.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dbm)	(db)	
90	QPSK	1	1	23.28	23.35	23.24	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dbm)	(db)	
80	QPSK	1	1	23.11	23.34	23.27	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dbm)	(db)	
70	QPSK	1	1	23.29	23.37	23.29	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dbm)	(db)	
60	QPSK	1	1	23.26	23.38	23.18	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dbm)	(db)	
50	QPSK	1	1	23.25	23.28	23.27	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dbm)	(db)	
40	QPSK	1	1	23.29	23.30	23.19	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dbm)	(db)	
30	QPSK	1	1	23.24	23.38	23.19	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dbm)	(db)	
20	QPSK	1	1	23.31	23.28	23.25	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dbm)	(db)	
15	QPSK	1	1	23.31	23.32	23.21	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dbm)	(db)	
10	QPSK	1	1	23.28	23.29	23.25	24.0	0.0	

Part270 n78 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		20.31		21.0	0.0	
100	PI2 BPSK	1	137		20.27				
100	PI2 BPSK	1	271		20.22				
100	PI2 BPSK	135	0		19.13		20.5	0.5	
100	PI2 BPSK	135	69		20.25		21.0	0.0	
100	PI2 BPSK	135	138		19.01		20.5	0.5	
100	PI2 BPSK	270	0		19.07				
100	QPSK	1	1		20.35		21.0	0.0	
100	QPSK	1	137		20.30				
100	QPSK	1	271		20.17				
100	QPSK	135	0		19.82		20.0	1.0	
100	QPSK	135	69		20.29		21.0	0.0	
100	QPSK	135	138		18.67		20.0	1.0	
100	QPSK	270	0		18.72				
100	16QAM	1	1		18.84		20.0	1.0	
100	64QAM	1	1		17.58		18.5	2.5	
100	256QAM	1	1		15.33		16.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.19	20.24	20.14	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.02			
80	QPSK	1	1	20.23	20.26	20.11	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.15	20.28	20.18	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.19	20.25	20.13	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.24	20.27	20.13	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.20	20.25	20.19	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.27	20.30	20.08	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.25	20.24	20.08	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.22	20.27	20.19	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.16	20.23	20.20	21.0	0.0	

Part270 n78 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.17		24.0	0.0	
100	PI2 BPSK	1	137		23.08				
100	PI2 BPSK	1	271		23.02				
100	PI2 BPSK	135	0		22.52		23.5	0.5	
100	PI2 BPSK	135	69		23.09		24.0	0.0	
100	PI2 BPSK	135	138		22.46		23.5	0.5	
100	PI2 BPSK	270	0		22.53				
100	QPSK	1	1		23.21		24.0	0.0	
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.04				
100	QPSK	135	0		22.01		23.0	1.0	
100	QPSK	135	69		23.14		24.0	0.0	
100	QPSK	135	138		21.95		23.0	1.0	
100	QPSK	270	0		22.02				
100	16QAM	1	1		22.03		23.0	1.0	
100	64QAM	1	1		20.85		21.5	2.5	
100	256QAM	1	1		18.88		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.11	23.15	23.05	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.09	23.19	23.02	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.13	23.16	22.97	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.12	23.08	22.98	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3785.02			
50	QPSK	1	1	23.05	23.08	22.94	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.12	23.06 <td>23.04</td> <td>24.0</td> <td>0.0</td> <td></td>	23.04	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	23.11	23.17	23.03	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.09	23.14	23.01	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.11	23.18	23.00	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.09	23.16	22.94	24.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166800	Power Middle Ch. Freq. 167300	Power High Ch. Freq. 167800	Tune-up limit (dBm)	MPR (db)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	21.69	21.83	21.79	23.0	0.0	
20	PI2 BPSK	1	53	21.73	21.78	21.87			
20	PI2 BPSK	1	104	21.81	21.70	21.68			
20	PI2 BPSK	50	0	21.34	21.41	21.34	22.5	0.5	
20	PI2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0	
20	PI2 BPSK	50	56	21.24	21.34	21.20	22.5	0.5	
20	PI2 BPSK	100	0	21.35	21.40	21.28			
20	QPSK	1	1	21.83	21.89	21.76			
20	QPSK	1	53	21.71	21.82	21.70	23.0	0.0	
20	QPSK	1	104	21.65	21.76	21.61	22.0	1.0	
20	QPSK	50	0	20.79	20.87	20.76			
20	QPSK	50	28	21.68	21.81	21.76			
20	QPSK	50	56	20.70	20.84	20.75	22.0	1.0	
20	QPSK	100	0	20.77	20.90	20.80			
20	16QAM	1	1	21.22	21.28	21.13			
20	64QAM	1	1	19.46	19.57	19.45	20.5	2.5	
20	256QAM	1	1	17.39	17.51	17.41	18.5	4.5	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)									
15	QPSK	1	1	21.72	21.78	21.64	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)									
10	QPSK	1	1	21.76	21.81	21.66	23.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)									
5	QPSK	1	1	21.77	21.84	21.69	23.0	0.0	

n7 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 504000	Power Middle Ch. Freq. 507000	Power High Ch. Freq. 510000	Tune-up limit (dbm)	MPR (db)	
Channel				2520	2535	2550			
Frequency (MHz)									
40	PI2 BPSK	1	1	22.80	22.86	22.80	24.0	0.0	
40	PI2 BPSK	1	108	22.71	22.81	22.69			
40	PI2 BPSK	1	214	22.70	22.77	22.73			
40	PI2 BPSK	108	0	22.37	22.44	22.37	23.5	0.5	
40	PI2 BPSK	108	54	22.66	22.79	22.65	24.0	0.0	
40	PI2 BPSK	108	108	22.29	22.41	22.38	23.5	0.5	
40	PI2 BPSK	216	0	22.37	22.46	22.41			
40	QPSK	1	1	22.88	22.93	22.84			
40	QPSK	1	108	22.80	22.88	22.75	24.0	0.0	
40	QPSK	1	214	22.74	22.83	22.73	23.0	1.0	
40	QPSK	108	0	21.94	22.01	21.97			
40	QPSK	108	54	22.80	22.87	22.82			
40	QPSK	108	108	22.00	22.05	21.94	23.0	1.0	
40	QPSK	216	0	22.06	22.13	22.06			
40	16QAM	1	1	22.12	22.18	22.05	23.0	1.0	
40	64QAM	1	1	20.55	20.59	20.52	21.5	2.5	
40	256QAM	1	1	18.52	18.67	18.59	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
30	QPSK	1	1	22.81	22.79	22.73	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
25	QPSK	1	1	22.80	22.87	22.77	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
20	PI2 BPSK	1	1	22.75	22.85	22.81	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
15	QPSK	1	1	22.74	22.81	22.73	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
10	QPSK	1	1	22.79	22.83	22.70	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
5	QPSK	1	1	22.74	22.88	22.80	24.0	0.0	

n66 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 346800	Power Middle Ch. Freq. 349000	Power High Ch. Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)									
40	PI2 BPSK	1	1	22.35	22.46	22.40	24.0	0.0	
40	PI2 BPSK	1	108	22.31	22.41	22.34			
40	PI2 BPSK	1	214	22.32	22.36	22.30			
40	PI2 BPSK	108	0	22.01	22.06	22.00	23.5	0.5	
40	PI2 BPSK	108	54	22.37	22.41	22.28	24.0	0.0	
40	PI2 BPSK	108	108	21.96	22.03	21.98	23.5	0.5	
40	PI2 BPSK	216	0	22.00	22.07	22.02			
40	QPSK	1	1	22.48	22.54	22.42			
40	QPSK	1	108	22.43	22.48	22.45	24.0	0.0	
40	QPSK	1	214	22.35	22.42	22.29	23.0	1.0	
40	QPSK	108	0	21.92	21.87	21.54			
40	QPSK	108	54	22.46	22.50	22.38			
40	QPSK	108	108	21.65	21.72	21.62	23.0	1.0	
40	QPSK	216	0	21.87	21.77	21.70			
40	16QAM	1	1	21.81	21.68	21.65	23.0	1.0	
40	64QAM	1	1	19.79	19.93	19.80	21.5	2.5	
40	256QAM	1	1	18.00	18.05	18.01	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	22.42	22.45	22.30	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	22.44	22.50	22.35	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	22.41	22.49	22.37	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.43	22.46	22.31	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.34	22.42	22.31	24.0	0.0	



n38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	22.65	22.78	22.72	24.0	0.0	
40	PV2 BPSK	1	53	22.68	22.72	22.58			
40	PV2 BPSK	1	104	22.56	22.67	22.59			
40	PV2 BPSK	50	0	21.58	21.68	21.60			
40	PV2 BPSK	50	28	22.66	22.71	22.64	23.5	0.5	
40	PV2 BPSK	50	56	21.64	21.74	21.63	23.5	0.5	
40	PV2 BPSK	100	0	21.70	21.80	21.70			
40	QPSK	1	1	22.72	22.84	22.77	24.0	0.0	
40	QPSK	1	53	22.68	22.79	22.65			
40	QPSK	1	104	22.63	22.79	22.63			
40	QPSK	50	0	21.72	21.78	21.68			
40	QPSK	50	28	22.72	22.78	22.71	24.0	0.0	
40	QPSK	50	56	21.74	21.85	21.72	24.0	1.0	
40	QPSK	100	0	21.76	21.86	21.84			
40	16QAM	1	1	21.60	21.72	21.62	23.0	1.0	
40	64QAM	1	1	20.36	20.48	20.35	21.5	2.5	
40	256QAM	1	1	18.26	18.31	18.24	19.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	22.66	22.72	22.68	24.0	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	22.64	22.70	22.63	24.0	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.63	22.80	22.71	24.0	0.0	
Channel				517500	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.69	22.76	22.65	24.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2635.50	2595	2614.98			
10	QPSK	1	1	22.82	22.74	22.69	24.0	0.0	

n41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	22.84	22.90	22.78	24.0	0.0	
100	PV2 BPSK	1	137	22.72	22.85	22.81			
100	PV2 BPSK	1	271	22.73	22.81	22.67			
100	PV2 BPSK	135	0	21.53	21.54	21.60			
100	PV2 BPSK	135	69	22.71	22.83	22.71	24.0	0.0	
100	PV2 BPSK	135	138	21.52	21.62	21.57	23.5	0.5	
100	PV2 BPSK	270	0	21.63	21.68	21.57			
100	QPSK	1	1	22.93	22.97	22.88	24.0	0.0	
100	QPSK	1	137	22.85	22.92	22.80			
100	QPSK	1	271	22.84	22.98	22.83			
100	QPSK	135	0	21.63	21.73	21.69			
100	QPSK	135	69	22.84	22.91	22.76	24.0	0.0	
100	QPSK	135	138	21.69	21.80	21.71	23.0	1.0	
100	QPSK	270	0	21.83	21.89	21.75			
100	16QAM	1	1	21.80	21.82	21.75	23.0	1.0	
100	64QAM	1	1	20.56	20.69	20.55	21.5	2.5	
100	256QAM	1	1	18.46	18.51	18.44	19.5	4.5	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	22.82	22.89	22.85	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2630.02	2592.99	2643.99			
80	QPSK	1	1	22.12	22.88	22.84	24.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.79	22.92	22.85	24.0	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	22.79	22.93	22.84	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2644.98			
50	QPSK	1	1	22.79	22.84	22.79	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	22.84	22.89	22.83	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	22.88	22.94	22.75	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2606.02	2592.99	2679.99			
20	QPSK	1	1	22.84	22.90	22.77	24.0	0.0	

n41 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.92	25.96	25.89	27.0	0.0	
100	PV2 BPSK	1	137	25.85	25.92	25.83			
100	PV2 BPSK	1	271	25.76	25.86	25.75			
100	PV2 BPSK	135	0	25.34	25.44	25.38			
100	PV2 BPSK	135	69	25.87	25.91	25.87	27.0	0.5	
100	PV2 BPSK	135	138	25.35	25.39	25.24	26.5	0.5	
100	PV2 BPSK	270	0	25.36	25.42	25.28			
100	QPSK	1	1	25.88	26.01	25.91	27.0	0.0	
100	QPSK	1	137	25.87	25.95	25.87			
100	QPSK	1	271	25.79	25.89	25.76			
100	QPSK	135	0	24.97	25.04	24.92			
100	QPSK	135	69	25.92	25.96	25.87	26.0	1.0	
100	QPSK	135	138	25.18	25.22	25.18	26.0	1.0	
100	QPSK	270	0	25.18	25.27	25.13			
100	16QAM	1	1	24.84	24.95	24.82	26.0	1.0	
100	64QAM	1	1	23.93	24.00	23.85	24.5	2.5	
100	256QAM	1	1	21.80	21.68	21.63	22.5	4.5	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	25.88	25.97	25.86	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.02	2592.99	2643.99			
80	QPSK	1	1	25.91	25.89	25.84	27.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	25.84	25.87	25.77	27.0	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	25.84	25.95	25.83	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2644.98			
50	QPSK	1	1	25.88	25.93	25.77	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	25.82	25.88	25.76	27.0	0.0	
Channel				502202	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	25.90	25.88	25.81	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2604.02	2592.99	2679.98			
20	QPSK	1	1	25.92	25.90	25.79	27.0	0.0	

Part270 n77 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.12	23.17	23.05	24.0	0.0	
100	PI2 BPSK	1	137	23.03	23.12	23.01			
100	PI2 BPSK	1	271	23.03	23.08	22.94			
100	PI2 BPSK	135	0	21.59	21.61	21.54	23.5	0.5	
100	PI2 BPSK	135	69	23.09	23.13	22.98	24.0	0.0	
100	PI2 BPSK	135	138	21.54	21.63	21.48	23.5	0.5	
100	PI2 BPSK	270	0	21.58	21.67	21.49			
100	QPSK	1	1	23.18	23.24	23.09	24.0	0.0	
100	QPSK	1	137	23.19	23.21	23.12			
100	QPSK	1	271	23.17	23.17	23.02			
100	QPSK	135	0	21.53	21.63	21.54	23.0	1.0	
100	QPSK	135	69	23.17	23.19	23.07	24.0	0.0	
100	QPSK	135	138	21.51	21.83	21.50	23.0	1.0	
100	QPSK	270	0	21.62	21.67	21.52			
100	16QAM	1	1	21.58	21.66	21.52	23.0	1.0	
100	64QAM	1	1	20.14	20.23	20.12	21.5	2.5	
100	256QAM	1	1	18.22	18.32	18.18	19.5	4.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.08	23.11	22.94	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.02			
80	QPSK	1	1	23.00	23.10	22.94	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.01	23.07	22.96	24.0	0.0	
Channel				648666	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.11	23.16	22.99	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.04	23.13	23.00	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.09	23.11	22.98	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.03	23.16	22.99	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.04	23.17	23.00	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.00	23.14	22.93	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.03	23.08	22.96	24.0	0.0	

Part270 n77 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	25.98	26.10	26.03	27.0	0.0	
100	PI2 BPSK	1	137	25.95	26.07	25.93			
100	PI2 BPSK	1	271	25.94	26.01	25.98			
100	PI2 BPSK	135	0	25.42	25.51	25.37	26.5	0.5	0.0
100	PI2 BPSK	135	69	25.96	26.00	25.90	27.0	0.0	0.0
100	PI2 BPSK	135	138	25.48	25.58	25.51	26.5	0.5	0.0
100	PI2 BPSK	270	0	25.54	25.61	25.48			
100	QPSK	1	1	26.07	26.17	26.12	27.0	0.0	
100	QPSK	1	137	26.01	26.11	26.03			
100	QPSK	1	271	26.07	26.06	25.98			
100	QPSK	135	0	25.05	25.09	24.98	26.0	1.0	0.0
100	QPSK	135	69	26.03	26.12	26.04	27.0	0.0	0.0
100	QPSK	135	138	24.97	25.04	24.96	26.0	1.0	0.0
100	QPSK	270	0	25.05	25.11	25.02			
100	16QAM	1	1	25.00	25.14	25.04	26.0	1.0	0.0
100	64QAM	1	1	23.82	23.87	23.53	24.5	2.5	0.0
100	256QAM	1	1	21.56	21.69	21.62	22.5	4.5	0.0
Channel				649668	656000	662334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.94	26.10	26.06	27.0	0.0	0.0
Channel				649334	656000	662668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	26.01	26.03	25.99	27.0	0.0	0.0
Channel				649000	656000	663000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	26.02	26.13	26.03	27.0	0.0	0.0
Channel				648668	656000	663334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.95	26.06	26.07	27.0	0.0	0.0
Channel				648334	656000	663668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	26.04	26.12	26.01	27.0	0.0	0.0
Channel				648000	656000	664000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	26.00	26.04	26.07	27.0	0.0	0.0
Channel				647668	656000	664334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.97	26.11	26.09	27.0	0.0	0.0
Channel				647334	656000	664668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.99	26.12	26.05	27.0	0.0	0.0
Channel				647168	656000	664834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	26.02	26.02	26.01	27.0	0.0	0.0
Channel				647000	656000	665000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.98	26.03	26.01	27.0	0.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		23.05		24.0	0.0	
100	PI2 BPSK	1	137		22.99				
100	PI2 BPSK	1	271		22.92				
100	PI2 BPSK	135	0		21.54		23.5	0.5	
100	PI2 BPSK	135	69		22.97		24.0	0.0	
100	PI2 BPSK	135	138		21.58		23.5	0.5	
100	PI2 BPSK	270	0		21.60				
100	QPSK	1	1		23.13		24.0	0.0	
100	QPSK	1	137		23.02				
100	QPSK	1	271		22.96				
100	QPSK	135	0		21.54		23.0	1.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		21.48		23.0	1.0	
100	QPSK	270	0		21.53				
100	16QAM	1	1		21.89		23.0	1.0	
100	64QAM	1	1		19.94		21.5	2.5	
100	256QAM	1	1		18.07		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit		
Frequency (MHz)				3745.02	3750	3755.01	(dbm)		
90	QPSK	1	1		23.01	23.03	22.94	24.0	0.0
Channel				649334	650000	650668	Tune-up limit		
Frequency (MHz)				3740.01	3750	3760.02	(dbm)		
80	QPSK	1	1		22.94	23.00	22.94	24.0	0.0
Channel				649000	650000	651000	Tune-up limit		
Frequency (MHz)				3735	3750	3765	(dbm)		
70	QPSK	1	1		22.94	23.09	22.93	24.0	0.0
Channel				648668	650000	651334	Tune-up limit		
Frequency (MHz)				3730.02	3750	3770.01	(dbm)		
60	QPSK	1	1		22.94	23.01	22.87	24.0	0.0
Channel				648334	650000	651668	Tune-up limit		
Frequency (MHz)				3725.01	3750	3775.02	(dbm)		
50	QPSK	1	1		23.02	23.05	22.94	24.0	0.0
Channel				648000	650000	652000	Tune-up limit		
Frequency (MHz)				3720	3750	3780	(dbm)		
40	QPSK	1	1		23.00	23.02	22.88	24.0	0.0
Channel				647668	650000	652334	Tune-up limit		
Frequency (MHz)				3715.02	3750	3785.01	(dbm)		
30	QPSK	1	1		22.96	22.98	22.89	24.0	0.0
Channel				647334	650000	652668	Tune-up limit		
Frequency (MHz)				3710.01	3750	3790.02	(dbm)		
20	QPSK	1	1		23.00	23.04	22.87	24.0	0.0
Channel				647168	650000	652834	Tune-up limit		
Frequency (MHz)				3707.52	3750	3792.51	(dbm)		
15	QPSK	1	1		23.00	23.08	22.93	24.0	0.0
Channel				647000	650000	653000	Tune-up limit		
Frequency (MHz)				3705	3750	3795	(dbm)		
10	QPSK	1	1		22.98	23.07	22.87	24.0	0.0

Part270 n78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tuneup limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		26.08		27.0	0.0	
100	PI2 BPSK	1	137		26.05				
100	PI2 BPSK	1	271		25.99				
100	PI2 BPSK	135	0		25.50		26.5	0.5	
100	PI2 BPSK	135	69		26.00		27.0	0.0	
100	PI2 BPSK	135	138		25.39		26.5	0.5	
100	PI2 BPSK	270	0		25.48				
100	QPSK	1	1		26.15		27.0	0.0	
100	QPSK	1	137		26.08				
100	QPSK	1	271		26.02				
100	QPSK	135	0		25.00		26.0	1.0	
100	QPSK	135	69		26.09		27.0	0.0	
100	QPSK	135	138		24.95		26.0	1.0	
100	QPSK	270	0		24.99				
100	16QAM	1	1		25.29		26.0	1.0	
100	64QAM	1	1		23.83		24.5	2.5	
100	256QAM	1	1		21.76		22.5	4.5	
Channel				649668	650000	650334	Tune-up limit		
Frequency (MHz)				3745.02	3750	3755.01	(dbm)		
90	QPSK	1	1		25.95	26.11	25.96	27.0	0.0
Channel				649334	650000	650668	Tune-up limit		
Frequency (MHz)				3740.01	3750	3760.02	(dbm)		
80	QPSK	1	1		25.94	26.05	25.94	27.0	0.0
Channel				649000	650000	651000	Tune-up limit		
Frequency (MHz)				3735	3750	3765	(dbm)		
70	QPSK	1	1		26.02	26.09	25.96	27.0	0.0
Channel				648668	650000	651334	Tune-up limit		
Frequency (MHz)				3730.02	3750	3770.01	(dbm)		
60	QPSK	1	1		25.93	26.10	25.94	27.0	0.0
Channel				648334	650000	651668	Tune-up limit		
Frequency (MHz)				3725.01	3750	3775.02	(dbm)		
50	QPSK	1	1		25.96	26.04	25.96	27.0	0.0
Channel				648000	650000	652000	Tune-up limit		
Frequency (MHz)				3720	3750	3780	(dbm)		
40	QPSK	1	1		26.01	26.05	25.89	27.0	0.0
Channel				647668	650000	652334	Tune-up limit		
Frequency (MHz)				3715.02	3750	3785.01	(dbm)		
30	QPSK	1	1		25.94	26.01	25.97	27.0	0.0
Channel				647334	650000	652668	Tune-up limit		
Frequency (MHz)				3710.01	3750	3790.02	(dbm)		
20	QPSK	1	1		25.98	26.03	25.93	27.0	0.0
Channel				647168	650000	652834	Tune-up limit		
Frequency (MHz)				3707.52	3750	3792.51	(dbm)		
15	QPSK	1	1		25.94	26.07	25.98	27.0	0.0
Channel				647000	650000	653000	Tune-up limit		
Frequency (MHz)				3705	3750	3795	(dbm)		
10	QPSK	1	1		25.97	26.10	25.93	27.0	0.0

n7 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2530	2535	2550	24.0	0.0
Frequency (MHz)				23.74	23.86	23.81		
40	PI2 BPSK	1	1	23.74	23.86	23.81		
40	PI2 BPSK	1	108	23.72	23.82	23.59		
40	PI2 BPSK	1	214	23.69	23.76	23.56	23.5	0.5
40	PI2 BPSK	108	0	23.20	23.28	23.17		
40	PI2 BPSK	108	54	23.71	23.79	23.68	23.5	0.5
40	PI2 BPSK	108	108	23.17	23.26	23.07		
40	PI2 BPSK	216	0	23.25	23.33	23.10	24.0	0.0
40	QPSK	1	1	23.85	23.91	23.80		
40	QPSK	1	108	23.72	23.84	23.62		
40	QPSK	1	214	23.72	23.79	23.65		
40	QPSK	108	0	22.66	22.72	22.51	23.0	1.0
40	QPSK	108	54	23.80	23.85	23.73		
40	QPSK	108	108	22.64	22.73	22.59	23.0	1.0
40	QPSK	216	0	22.65	22.79	22.54		
40	16QAM	1	1	22.80	22.87	22.70	23.0	1.0
40	64QAM	1	1	21.48	21.38	21.33	21.5	2.5
40	256QAM	1	1	18.98	19.05	18.88	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	24.0	0.0
30	QPSK	1	1	23.70	23.85	23.76	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2537.5	24.0	0.0
25	QPSK	1	1	23.73	23.83	23.72	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	24.0	0.0
20	PI2 BPSK	1	1	23.71	23.86	23.77	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	23.77	23.78	23.68	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	1	23.74	23.81	23.76	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	23.73	23.79	23.71	24.0	0.0

n66 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1760	24.0	0.0
Frequency (MHz)				23.43	23.51	23.47		
40	PI/2 BPSK	1	1	23.43	23.51	23.47		
40	PI/2 BPSK	1	108	23.36	23.47	23.38		
40	PI/2 BPSK	1	214	23.38	23.44	23.40	23.5	0.5
40	PI/2 BPSK	108	0	22.89	23.04	23.00		
40	PI/2 BPSK	108	54	23.44	23.48	23.43		
40	PI/2 BPSK	108	108	23.02	23.06	23.02		
40	PI/2 BPSK	216	0	23.01	23.13	23.02	24.0	0.0
40	QPSK	1	1	23.49	23.56	23.51		
40	QPSK	1	108	23.38	23.52	23.39		
40	QPSK	1	214	23.33	23.48	23.36		
40	QPSK	108	0	22.44	22.54	22.50	23.0	1.0
40	QPSK	108	54	23.39	23.50	23.40		
40	QPSK	108	108	22.34	22.47	22.41		
40	QPSK	216	0	22.42	22.51	22.43		
40	16QAM	1	1	22.45	22.58	22.47	23.0	1.0
40	64QAM	1	1	20.82	20.95	20.90		
40	256QAM	1	1	18.96	18.99	18.93		
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.40	23.52	23.39	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722	1745	1770	24.0	0.0
20	QPSK	1	1	23.44	23.51	23.48	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0
15	QPSK	1	1	23.42	23.47	23.41	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	24.0	0.0
10	QPSK	1	1	23.38	23.52	23.45	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0
5	QPSK	1	1	23.40	23.45	23.39	24.0	0.0



n38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	23.50	23.64	23.49	24.5	0.0	
40	PV2 BPSK	1	53	23.54	23.62	23.57			
40	PV2 BPSK	1	104	23.39	23.52	23.45			
40	PV2 BPSK	50	0	22.36	22.53	22.37	24.0	0.5	
40	PV2 BPSK	50	28	23.42	23.56	23.52	24.5	0.0	
40	PV2 BPSK	50	56	22.30	22.38	22.35	24.0	0.5	
40	PV2 BPSK	100	0	22.38	22.49	22.40			
40	QPSK	1	1	23.63	23.70	23.51	24.5	0.0	
40	QPSK	1	53	23.58	23.57	23.59			
40	QPSK	1	104	23.59	23.65	23.50			
40	QPSK	50	0	22.51	22.57	22.49	23.5	1.0	
40	QPSK	50	28	23.56	23.65	23.61	24.5	0.0	
40	QPSK	50	56	22.42	22.58	22.50	23.5	1.0	
40	QPSK	100	0	22.44	22.66	22.46			
40	16QAM	1	1	22.52	22.53	22.45	23.5	1.0	
40	64QAM	1	1	21.04	21.13	21.13	22.0	2.5	
40	256QAM	1	1	18.74	18.81	18.79	20.0	4.5	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	23.51	23.64	23.37	24.5	0.0	
Channel				518504	518000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	23.57	23.60	23.44	24.5	0.0	
Channel				518000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	23.57	23.59	23.33	24.5	0.0	
Channel				515000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	23.57	23.56	23.37	24.5	0.0	
Channel				515004	518000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2615.10	2595	2614.96			
10	QPSK	1	1	23.49	23.59	23.40	24.5	0.0	

n41 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	23.66	23.73	23.60	24.0	0.0	
100	PV2 BPSK	1	137	23.59	23.68	23.54			
100	PV2 BPSK	1	271	23.49	23.61	23.53			
100	PV2 BPSK	135	0	22.03	22.07	22.05	23.5	0.5	
100	PV2 BPSK	135	69	23.58	23.67	23.64	24.0	0.0	
100	PV2 BPSK	135	138	22.14	22.25	22.11	23.5	0.5	
100	PV2 BPSK	270	0	22.21	22.33	22.18			
100	QPSK	1	1	23.71	23.79	23.65	24.0	0.0	
100	QPSK	1	137	23.62	23.72	23.58			
100	QPSK	1	271	23.59	23.68	23.60			
100	QPSK	135	0	22.24	22.33	22.25	23.0	1.0	
100	QPSK	135	69	23.68	23.72	23.64	24.0	0.0	
100	QPSK	135	138	22.39	22.44	22.30	23.0	1.0	
100	QPSK	270	0	22.41	22.50	22.44			
100	16QAM	1	1	22.13	22.17	22.07	23.0	1.0	
100	64QAM	1	1	20.68	20.81	20.78	21.5	2.5	
100	256QAM	1	1	18.42	18.49	18.35	19.5	4.5	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	23.48	23.58	23.51	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	23.19	23.67	23.52	24.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2645			
70	QPSK	1	1	23.57	23.68	23.52	24.0	0.0	
Channel				505200	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.54	23.59	23.43	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2602.99	2644.98			
50	QPSK	1	1	23.53	23.58	23.54	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	23.49	23.63	23.51	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.54	23.64	23.44	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.48	23.59	23.50	24.0	0.0	

n41 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508002	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	26.77	26.89	26.80	27.0	0.0	
100	PV2 BPSK	1	137	26.73	26.82	26.72			
100	PV2 BPSK	1	271	26.72	26.77	26.69			
100	PV2 BPSK	135	0	26.27	26.32	26.18	26.5	0.5	
100	PV2 BPSK	135	69	26.74	26.83	26.73	27.0	0.0	
100	PV2 BPSK	135	138	26.20	26.30	26.25	26.5	0.5	
100	PV2 BPSK	270	0	26.24	26.39	26.25			
100	QPSK	1	1	26.84	26.93	26.89	27.0	0.0	
100	QPSK	1	137	26.82	26.89	26.86			
100	QPSK	1	271	26.89	26.81	26.78			
100	QPSK	135	0	25.75	25.90	25.81	26.0	1.0	
100	QPSK	135	69	26.82	26.88	26.74	27.0	0.0	
100	QPSK	135	138	25.70	25.82	25.76	26.0	1.0	
100	QPSK	270	0	25.72	25.86	25.73			
100	16QAM	1	1	25.74	25.89	25.75	26.0	1.0	
100	64QAM	1	1	24.24	24.30	24.20	24.5	2.5	
100	256QAM	1	1	22.21	22.29	22.16	22.5	4.5	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	26.79	26.87	26.83	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.02	2592.99	2643.99			
80	QPSK	1	1	26.72	26.83	26.85	27.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	26.74	26.78	26.82	27.0	0.0	
Channel				505200	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	26.78	26.83	26.79	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2602.99	2644.98			
50	QPSK	1	1	26.72	26.85	26.82	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	26.76	26.79	26.77	27.0	0.0	
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	26.75	26.82	26.79	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.02	2592.99	2679.98			
20	QPSK	1	1	25.81	26.89	26.83	27.0	0.0	

Part270 n77 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.93	23.07	22.92	24.0	0.0	
100	PI2 BPSK	1	137	22.89	23.02	22.97			
100	PI2 BPSK	1	271	22.84	22.99	22.92			
100	PI2 BPSK	135	0	21.48	21.54	21.41			
100	PI2 BPSK	135	69	22.91	23.06	22.86	24.0	0.5	
100	PI2 BPSK	135	138	21.41	21.52	21.46	23.5	0.5	
100	PI2 BPSK	270	0	21.46	21.57	21.52			
100	QPSK	1	1	23.08	23.13	23.02	24.0	0.0	
100	QPSK	1	137	23.02	23.06	22.92			
100	QPSK	1	271	22.89	23.01	22.98			
100	QPSK	135	0	21.71	21.76	21.65		23.0	
100	QPSK	135	69	23.03	23.08	23.01	24.0	0.0	
100	QPSK	135	138	21.59	21.73	21.65	23.0	1.0	
100	QPSK	270	0	21.66	21.76	21.63			
100	16QAM	1	1	22.09	22.12	22.04	23.0	1.0	
100	64QAM	1	1	20.26	20.37	20.34	21.5	2.5	
100	256QAM	1	1	17.91	18.05	17.95	19.5	4.5	
Channel									
Frequency (MHz)				648954	650000	662334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	23.00	23.05	22.99	24.0	0.0	
Channel									
Frequency (MHz)				649334	656000	662968	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	22.96	23.09	22.89	24.0	0.0	
Channel									
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	22.96	23.02	22.91	24.0	0.0	
Channel									
Frequency (MHz)				648954	650000	663334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.98	23.08	22.95	24.0	0.0	
Channel									
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.02	22.99	22.97	24.0	0.0	
Channel									
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.99	23.04	22.99	24.0	0.0	
Channel									
Frequency (MHz)				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.97	22.98	22.87	24.0	0.0	
Channel									
Frequency (MHz)				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.95	23.06	22.96	24.0	0.0	
Channel									
Frequency (MHz)				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.03	22.98	22.91	24.0	0.0	
Channel									
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.04	23.07	22.89	24.0	0.0	

Part270 n77 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	26.09	26.19	26.11	27.0	0.0	
100	PI2 BPSK	1	137	26.04	26.14	26.00			
100	PI2 BPSK	1	271	25.99	26.11	26.05			
100	PI2 BPSK	135	0	25.70	25.79	25.70		26.5	
100	PI2 BPSK	135	69	26.04	26.13	26.03	27.0	0.0	
100	PI2 BPSK	135	138	25.54	25.68	25.63	26.5	0.5	
100	PI2 BPSK	270	0	25.57	25.71	25.57			
100	QPSK	1	1	26.19	26.24	26.15	27.0	0.0	
100	QPSK	1	137	26.13	26.20	26.10			
100	QPSK	1	271	26.04	26.17	26.07			
100	QPSK	135	0	25.21	25.27	25.22		26.0	
100	QPSK	135	69	26.14	26.21	26.16	27.0	0.0	
100	QPSK	135	138	25.06	25.15	25.00	26.0	1.0	
100	QPSK	270	0	25.09	25.19	25.13			
100	16QAM	1	1	25.22	25.37	25.26	26.0	1.0	
100	64QAM	1	1	23.83	23.86	23.82	24.5	2.5	
100	256QAM	1	1	21.50	21.59	21.56	22.5	4.5	
Channel									
Frequency (MHz)				648958	650000	662334	Tune-up limit (dbm)	MPR (db)	
90	QPSK	1	1	26.12	26.19	26.03	27.0	0.0	
Channel									
Frequency (MHz)				649334	656000	662968	Tune-up limit (dbm)	MPR (db)	
80	QPSK	1	1	26.09	26.17	26.01	27.0	0.0	
Channel									
Frequency (MHz)				649000	656000	663000	Tune-up limit (dbm)	MPR (db)	
70	QPSK	1	1	26.09	26.12	26.08	27.0	0.0	
Channel									
Frequency (MHz)				648958	650000	663334	Tune-up limit (dbm)	MPR (db)	
60	QPSK	1	1	26.12	26.14	26.03	27.0	0.0	
Channel									
Frequency (MHz)				648334	650000	663668	Tune-up limit (dbm)	MPR (db)	
50	QPSK	1	1	26.05	26.10	26.04	27.0	0.0	
Channel									
Frequency (MHz)				648000	650000	664000	Tune-up limit (dbm)	MPR (db)	
40	QPSK	1	1	26.15	26.09	26.01	27.0	0.0	
Channel									
Frequency (MHz)				647668	650000	664334	Tune-up limit (dbm)	MPR (db)	
30	QPSK	1	1	26.12	26.13	26.03	27.0	0.0	
Channel									
Frequency (MHz)				647334	650000	664668	Tune-up limit (dbm)	MPR (db)	
20	QPSK	1	1	26.14	26.20	26.08	27.0	0.0	
Channel									
Frequency (MHz)				647168	650000	664834	Tune-up limit (dbm)	MPR (db)	
15	QPSK	1	1	26.15	26.16	26.07	27.0	0.0	
Channel									
Frequency (MHz)				647000	650000	665000	Tune-up limit (dbm)	MPR (db)	
10	QPSK	1	1	26.12	26.19	26.10	27.0	0.0	

Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.04		24.0	0.0	
100	PI2 BPSK	1	137		23.00				
100	PI2 BPSK	1	271		22.98				
100	PI2 BPSK	135	0		21.79		23.5	0.5	
100	PI2 BPSK	135	69		22.98		24.0	0.0	
100	PI2 BPSK	135	138		21.63		23.5	0.5	
100	PI2 BPSK	270	0		21.69				
100	QPSK	1	1		23.09				
100	QPSK	1	137		23.03		24.0	0.0	
100	QPSK	1	271		22.99		23.0	1.0	
100	QPSK	135	0		21.77				
100	QPSK	135	69		23.02				
100	QPSK	135	138		21.63		23.0	1.0	
100	QPSK	270	0		21.70		23.0	1.0	
100	16QAM	1	1		21.67				
100	64QAM	1	1		20.59				
100	256QAM	1	1		18.24		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3750.01	(dBm)	(dB)	
90	QPSK	1	1	22.94	23.00	22.85	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	22.88	22.95	22.89	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	22.88	22.98	22.86	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	22.87	22.99	22.88	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	22.88	22.94	22.90	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	22.94	23.00	22.84	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	22.96	23.04	22.90	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	22.94	22.97	22.82	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	22.98	22.95	22.91	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	22.99	23.01	22.82	24.0	0.0	

Part270 n78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		26.14		27.0	0.0	
100	PI2 BPSK	1	137		26.09				
100	PI2 BPSK	1	271		26.05				
100	PI2 BPSK	135	0		25.70		26.5	0.5	
100	PI2 BPSK	135	69		26.06		27.0	0.0	
100	PI2 BPSK	135	138		25.66		26.5	0.5	
100	PI2 BPSK	270	0		25.71				
100	QPSK	1	1		26.17				
100	QPSK	1	137		26.11		27.0	0.0	
100	QPSK	1	271		26.03		26.0	1.0	
100	QPSK	135	0		25.21				
100	QPSK	135	69		26.12				
100	QPSK	135	138		25.19		26.0	1.0	
100	QPSK	270	0		25.23		26.0	1.0	
100	16QAM	1	1		25.05				
100	64QAM	1	1		23.79				
100	256QAM	1	1		21.83		22.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3750.01			
90	QPSK	1	1	26.01	26.09	25.93	27.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	25.97	26.10	25.93	27.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	26.06	26.12	25.94	27.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	26.01	26.11	25.92	27.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	25.99	26.04	25.98	27.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	26.08	26.08	25.98	27.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	26.00	26.10	25.99	27.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	26.08	26.03	25.95	27.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	26.01	26.11	25.96	27.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	25.98	26.05	26.03	27.0	0.0	

n7 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2530	2535	2550			
Frequency (MHz)				2530	2535	2550			
40	PI2 BPSK	1	1	23.68	23.73	23.63	24.0	0.0	
40	PI2 BPSK	1	108	23.60	23.71	23.59			
40	PI2 BPSK	1	214	23.60	23.68	23.60			
40	PI2 BPSK	108	0	23.22	23.28	23.18	23.5	0.5	
40	PI2 BPSK	108	54	23.58	23.70	23.68	24.0	0.0	
40	PI2 BPSK	108	108	23.19	23.31	23.24	23.5	0.5	
40	PI2 BPSK	216	0	23.06	23.20	23.17			
40	QPSK	1	1	23.73	23.78	23.65			
40	QPSK	1	108	23.66	23.71	23.64	24.0	0.0	
40	QPSK	1	214	23.59	23.62	23.57	23.0	1.0	
40	QPSK	108	0	22.80	22.89	22.78			
40	QPSK	108	54	23.62	23.73	23.70			
40	QPSK	108	108	22.85	22.91	22.79	23.0	1.0	
40	QPSK	216	0	22.80	22.85	22.71	23.0	1.0	
40	16QAM	1	1	22.85	22.91	22.77			
40	64QAM	1	1	21.42	21.45	21.35	21.5	2.5	
40	256QAM	1	1	19.38	19.32	19.48	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	24.0	0.0	
30	QPSK	1	1	23.68	23.72	23.60	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2537.5 <td>24.0</td> <td>0.0</td> <td></td>	24.0	0.0	
25	QPSK	1	1	23.62	23.75	23.51	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	24.0	0.0	
20	PI2 BPSK	1	1	23.62	23.64	23.62	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0	
15	QPSK	1	1	23.63	23.74	23.55	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.0	0.0	
10	QPSK	1	1	23.63	23.68	23.55	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0	
5	QPSK	1	1	23.62	23.63	23.61	24.0	0.0	

n66 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tuneup limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.40	23.46	23.43	24.0	0.0	
40	PI2 BPSK	1	108	23.29	23.42	23.35			
40	PI2 BPSK	1	214	23.25	23.37	23.33			
40	PI2 BPSK	108	0	22.91	23.04	22.89	23.5	0.5	
40	PI2 BPSK	108	54	23.34	23.47	23.37	24.0	0.0	
40	PI2 BPSK	108	108	22.97	23.08	22.94	23.5	0.5	
40	PI2 BPSK	216	0	22.85	22.96	22.97			
40	QPSK	1	1	23.38	23.52	23.46			
40	QPSK	1	108	23.42	23.43	23.39	24.0	0.0	
40	QPSK	1	214	23.37	23.38	23.27	23.0	1.0	
40	QPSK	108	0	22.52	22.62	22.59			
40	QPSK	108	54	23.42	23.50	23.44			
40	QPSK	108	108	22.55	22.60	22.56	23.0	1.0	
40	QPSK	216	0	22.52	22.62	22.52	23.0	1.0	
40	16QAM	1	1	22.55	22.70	22.51			
40	64QAM	1	1	21.13	21.16	21.14	21.5	2.5	
40	256QAM	1	1	19.37	19.40	19.32	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.33	23.38	23.43	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.35	23.43	23.41	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.30	23.45	23.35	24.0	0.0	
Channel				342000	349000	356000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.35	23.48	23.41	24.0	0.0	
Channel				341000	349000	357000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.32	23.37	23.40	24.0	0.0	



n38 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 518004	Power Middle Ch. Freq. 519000	Power High Ch. Freq. 519996	Tune-up limit (dBm)	MPR (dB)	
Channel				2590.02	2595	2599.98			
Frequency (MHz)									
40	P12 BPSK	1	1	23.90	23.99	23.89	24.5	0.0	
40	P12 BPSK	1	53	23.88	23.92	23.79			
40	P12 BPSK	1	104	23.86	23.97	23.93			
40	P12 BPSK	50	0	22.77	22.84	22.74	24.0	0.5	
40	P12 BPSK	50	28	23.92	23.96	23.88	24.5	0.0	
40	P12 BPSK	50	56	22.80	22.89	22.81	24.0	0.5	
40	P12 BPSK	100	0	22.79	22.91	22.81			
40	QPSK	1	1	23.92	24.04	23.98	24.5	0.0	
40	QPSK	1	53	23.89	24.01	23.86			
40	QPSK	1	104	23.84	23.96	23.86			
40	QPSK	50	0	22.97	23.08	22.95	23.5	1.0	
40	QPSK	50	28	23.93	24.01	23.90	24.5	0.0	
40	QPSK	50	56	23.08	23.15	23.05	23.5	1.0	
40	QPSK	100	0	23.06	23.11	23.04			
40	16QAM	1	1	22.93	23.02	22.87	23.5	1.0	
40	64QAM	1	1	21.58	21.64	21.54	22.0	2.5	
40	256QAM	1	1	19.29	19.40	19.32	20.0	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.82	23.99	23.95	24.5	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.79	23.97	23.90	24.5	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.78	23.95	23.84	24.5	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.72	23.92	23.88	24.5	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.77	23.86	23.82	24.5	0.0	

n41 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 508202	Power Middle Ch. Freq. 518598	Power High Ch. Freq. 528000	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528000			
Frequency (MHz)									
100	P12 BPSK	1	1	23.93	24.07	23.93	24.5	0.0	
100	P12 BPSK	1	137	23.97	24.03	23.98			
100	P12 BPSK	1	271	23.94	23.99	23.91			
100	P12 BPSK	135	0	22.43	22.54	22.47	24.0	0.5	
100	P12 BPSK	135	69	23.90	24.00	23.91	24.5	0.0	
100	P12 BPSK	135	138	22.51	22.61	22.51	24.0	0.5	
100	P12 BPSK	270	0	22.65	22.71	22.59			
100	QPSK	1	1	24.06	24.14	23.98	24.5	0.0	
100	QPSK	1	137	23.98	24.11	23.91			
100	QPSK	1	271	23.99	24.06	23.94			
100	QPSK	135	0	22.83	22.89	22.84	23.5	1.0	
100	QPSK	135	69	24.03	24.08	24.02	24.5	0.0	
100	QPSK	135	138	22.81	22.88	22.84	23.5	1.0	
100	QPSK	270	0	22.78	22.83	22.85			
100	16QAM	1	1	22.99	23.05	23.01	23.5	1.0	
100	64QAM	1	1	21.21	21.29	21.15	22.0	2.5	
100	256QAM	1	1	18.95	19.09	18.96	20.0	4.5	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	23.94	23.97	23.78	24.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	23.92	23.97	23.83	24.5	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	23.93	24.08	23.82	24.5	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	23.87	23.97	23.79	24.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.92	24.03	23.76	24.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	23.92	24.04	23.84	24.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.89	23.97	23.79	24.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.94	24.04	23.84	24.5	0.0	

n41 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 506202	Power Middle Ch. Freq. 518598	Power High Ch. Freq. 528000	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	528000			
Frequency (MHz)									
100	P12 BPSK	1	1	26.87	27.07	27.02	27.5	0.0	
100	P12 BPSK	1	137	26.93	27.02	26.87			
100	P12 BPSK	1	271	26.85	26.96	26.91			
100	P12 BPSK	135	0	26.44	26.54	26.47	27.0	0.5	
100	P12 BPSK	135	69	27.05	27.10	27.04	27.5	0.0	
100	P12 BPSK	135	138	26.50	26.57	26.52	27.0	0.5	
100	P12 BPSK	270	0	26.44	26.52	26.42			
100	QPSK	1	1	27.01	27.14	27.07	27.5	0.0	
100	QPSK	1	137	27.02	27.12	27.00			
100	QPSK	1	271	27.02	27.06	26.91			
100	QPSK	135	0	25.98	26.02	25.91	26.5	1.0	
100	QPSK	135	69	26.98	27.06	26.95	27.5	0.0	
100	QPSK	135	138	26.15	26.25	26.14	26.5	1.0	
100	QPSK	270	0	26.98	26.12	25.99	26.5	1.0	
100	16QAM	1	1	25.89	26.03	25.82			
100	64QAM	1	1	24.71	24.74	24.69	25.0	2.5	
100	256QAM	1	1	22.21	22.32	22.18	23.0	4.5	
Channel				506202	518598	529998	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	26.88	27.06	27.01	27.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	26.94	27.04	26.95	27.5	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	26.93	27.09	26.87	27.5	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	26.93	26.99	27.01	27.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	26.88	27.01	26.90	27.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	26.97	27.00	26.96	27.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	26.93	27.11	26.95	27.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	26.95	27.08	27.00	27.5	0.0	

Part270 n77 Ant 3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)			
Channel				3750	3840	3930	24.0	0.0			
Frequency (MHz)											
100	PI2 BPSK	1	1	22.87	22.99	22.88					
100	PI2 BPSK	1	137	22.83	22.94	22.86					
100	PI2 BPSK	1	271	22.84	22.93	22.88	23.5	0.5			
100	PI2 BPSK	135	0	21.31	21.46	21.37					
100	PI2 BPSK	135	69	22.90	22.97	22.93					
100	PI2 BPSK	135	138	21.22	21.37	21.32					
100	PI2 BPSK	270	0	21.36	21.42	21.33	23.5				
100	QPSK	1	1	23.05	23.09	22.94					
100	QPSK	1	137	22.94	23.02	22.95					
100	QPSK	1	271	23.00	23.05	22.95					
100	QPSK	135	0	21.48	21.58	21.52	23.0				
100	QPSK	135	69	22.93	23.07	22.98					
100	QPSK	135	138	21.44	21.57	21.47					
100	QPSK	270	0	21.48	21.61	21.54					
100	16QAM	1	1	21.57	21.69	21.65	23.0				
100	64QAM	1	1	20.18	20.29	20.21					
100	256QAM	1	1	18.01	18.05	17.89					
Channel				649698	656000	662334	Tune-up limit	MPR			
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	24.0			
90	QPSK	1	1	22.88	22.97	22.93	24.0				
Channel				649334	656000	662968					
Frequency (MHz)				3740.02	3840	3940.02					
80	QPSK	1	1	22.84	22.95	22.95					
Channel				649000	656000	663000	Tune-up limit	MPR			
Frequency (MHz)				3735	3840	3945	(dBm)	24.0			
70	QPSK	1	1	22.83	23.01	22.98	24.0				
Channel				648966	656000	663334					
Frequency (MHz)				3730.02	3840	3950.01					
60	QPSK	1	1	22.81	22.99	22.99					
Channel				648334	656000	663968	Tune-up limit	MPR			
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	24.0			
50	QPSK	1	1	22.90	23.05	22.95	24.0				
Channel				648000	656000	664000					
Frequency (MHz)				3720	3840	3960					
40	QPSK	1	1	22.84	23.05	22.91					
Channel				647668	656000	664334	Tune-up limit	MPR			
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	24.0			
30	QPSK	1	1	22.86	22.96	22.91	24.0				
Channel				647334	656000	664666					
Frequency (MHz)				3710.01	3840	3970.02					
20	QPSK	1	1	22.82	23.05	22.95					
Channel				647168	656000	664834	Tune-up limit	MPR			
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	24.0			
15	QPSK	1	1	22.86	23.02	22.96	24.0				
Channel				647000	656000	665000					
Frequency (MHz)				3705	3840	3975					
10	QPSK	1	1	22.90	22.99	22.96	24.0				
Channel											
Frequency (MHz)											
Channel											

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (db)			
Channel				3750	3840	3930	27.0	0.0			
Frequency (MHz)				3750	3840	3930					
100	PI2 BPSK	1	1	26.10	26.19	26.03					
100	PI2 BPSK	1	137	26.02	26.14	26.09					
100	PI2 BPSK	1	271	25.97	26.07	25.99	26.5	0.5			
100	PI2 BPSK	135	0	25.38	25.49	25.43					
100	PI2 BPSK	135	69	26.00	26.06	25.96					
100	PI2 BPSK	135	138	25.22	25.35	25.20					
100	PI2 BPSK	270	0	25.38	25.43	25.30	26.0				
100	QPSK	1	1	26.16	26.24	26.08					
100	QPSK	1	137	26.00	26.11	26.01					
100	QPSK	1	271	26.03	26.15	26.02					
100	QPSK	135	0	24.91	25.01	24.87	26.0				
100	QPSK	135	69	25.95	26.07	26.00					
100	QPSK	135	138	24.84	24.93	24.81					
100	QPSK	270	0	24.73	24.85	24.70					
100	16QAM	1	1	24.68	24.80	24.68	26.0				
100	64QAM	1	1	23.59	23.69	23.58					
100	256QAM	1	1	20.89	21.03	20.90					
Channel				649599	656000	662334	Tune-up limit	MPR			
Frequency (MHz)				3745.02	3840	3935.01	(dbm)	27.0			
90	QPSK	1	1	26.09	26.20	25.97	27.0				
Channel				649334	656000	662968					
Frequency (MHz)				3740.01	3840	3940.02					
80	QPSK	1	1	25.07	26.10	25.94					
Channel				649000	656000	663000	Tune-up limit	MPR			
Frequency (MHz)				3735	3840	3945	(dbm)	27.0			
70	QPSK	1	1	26.03	26.14	25.95	27.0				
Channel				648966	656000	663334					
Frequency (MHz)				3730.02	3840	3950.01					
60	QPSK	1	1	26.06	26.10	26.04					
Channel				648334	656000	663968	Tune-up limit	MPR			
Frequency (MHz)				3725.01	3840	3955.02	(dbm)	27.0			
50	QPSK	1	1	26.08	26.19	26.04	27.0				
Channel				648000	656000	664000					
Frequency (MHz)				3720	3840	3960					
40	QPSK	1	1	26.05	26.14	26.03					
Channel				647668	656000	664334	Tune-up limit	MPR			
Frequency (MHz)				3715.02	3840	3965.01	(dbm)	27.0			
30	QPSK	1	1	26.12	26.20	26.04	27.0				
Channel				647334	656000	664634					
Frequency (MHz)				3710.01	3840	3970.02					
20	QPSK	1	1	26.04	26.11	26.01					
Channel				647168	656000	664834	Tune-up limit	MPR			
Frequency (MHz)				3707.52	3840	3972.51	(dbm)	27.0			
15	QPSK	1	1	26.08	26.10	26.05	27.0				
Channel				647000	656000	665000					
Frequency (MHz)				3705	3840	3975					
10	QPSK	1	1	26.11	26.13	25.99	27.0				
Channel											
Frequency (MHz)											
Channel											

Part270 n78 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		22.86		24.0	0.0	
100	PI2 BPSK	1	137		22.81				
100	PI2 BPSK	1	271		22.77				
100	PI2 BPSK	135	0		21.65		23.5	0.5	
100	PI2 BPSK	135	69		22.80		24.0	0.0	
100	PI2 BPSK	135	138		21.61		23.5	0.5	
100	PI2 BPSK	270	0		21.67				
100	QPSK	1	1		22.91		24.0	0.0	
100	QPSK	1	137		22.89				
100	QPSK	1	271		22.82				
100	QPSK	135	0		21.35		23.0	1.0	
100	QPSK	135	69		22.85		24.0	0.0	
100	QPSK	135	138		21.33		23.0	1.0	
100	QPSK	270	0		21.41		23.0	1.0	
100	16QAM	1	1		21.39				
100	64QAM	1	1		19.78		21.5	2.5	
100	256QAM	1	1		17.82		19.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.74	22.81	22.68	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.76	22.75	22.74	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.70	22.81	22.73	24.0	0.0	
Channel				648656	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.80	22.83	22.67	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.73	22.76	22.71	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.78	22.88	22.65	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.70	22.85	22.74	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.75	22.82	22.74	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.52	3750	3792.51			
15	QPSK	1	1	22.71	22.87	22.76	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.70	22.88	22.68	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		26.03		27.0	0.0	
100	PI2 BPSK	1	137		26.01				
100	PI2 BPSK	1	271		25.97				
100	PI2 BPSK	135	0		25.58		26.5	0.5	
100	PI2 BPSK	135	69		26.09		27.0	0.0	
100	PI2 BPSK	135	138		25.52		26.5	0.5	
100	PI2 BPSK	270	0		25.58				
100	QPSK	1	1		26.19		27.0	0.0	
100	QPSK	1	137		26.12				
100	QPSK	1	271		25.99				
100	QPSK	135	0		25.07		26.0	1.0	
100	QPSK	135	69		26.08		27.0	0.0	
100	QPSK	135	138		24.98		26.0	1.0	
100	QPSK	270	0		25.04		26.0	1.0	
100	16QAM	1	1		24.89				
100	64QAM	1	1		23.47		24.5	2.5	
100	256QAM	1	1		21.69		22.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	26.00	26.14	26.02	27.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	26.07	26.10	26.01	27.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	26.09	26.15	26.00	27.0	0.0	
Channel				648656	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	26.05	26.09	26.03	27.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	26.02	26.04	25.93	27.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	25.99	26.06	25.92	27.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	26.00	26.10	25.95	27.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	25.98	26.16	25.99	27.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	26.10	26.13	25.96	27.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	26.01	26.11	26.02	27.0	0.0	



Reduced Power Mode for DS12 Standalone

n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				165000	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	838		
20	PI2 BPSK	1	1	23.18	23.23	23.13		
20	PI2 BPSK	1	53	23.04	23.14	23.06		
20	PI2 BPSK	1	104	22.98	23.06	22.94	24.0	0.0
20	PI2 BPSK	50	0	22.65	22.76	22.73	23.5	0.5
20	PI2 BPSK	50	28	23.08	23.18	23.11	24.0	0.0
20	PI2 BPSK	50	56	22.59	22.64	22.51	23.5	0.5
20	PI2 BPSK	100	0	22.86	22.70	22.63		
20	QPSK	1	1	23.22	23.27	23.16	24.0	0.0
20	QPSK	1	53	23.11	23.18	23.13		
20	QPSK	1	104	22.96	23.09	22.98	23.0	1.0
20	QPSK	50	0	22.14	22.28	22.21		
20	QPSK	50	28	23.15	23.21	23.08		
20	QPSK	50	56	22.14	22.18	22.06		
20	QPSK	100	0	22.17	22.23	22.13	23.0	1.0
20	16QAM	1	1	22.39	22.48	22.42	23.0	1.0
20	64QAM	1	1	20.73	20.86	20.79	21.5	2.5
20	256QAM	1	1	19.89	19.01	18.96	19.5	4.5
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.11	23.18	23.08	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.13	23.15	23.02	24.0	0.0
Channel				165300	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836.5	836.5	846.5		
5	QPSK	1	1	23.17	23.23	23.04	24.0	0.0

n7 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000	23.0	0.0
Frequency (MHz)				2500	2535	2550		
40	PI2 BPSK	1	1	21.80	21.91	21.85		
40	PI2 BPSK	1	108	21.74	21.88	21.81		
40	PI2 BPSK	1	214	21.74	21.80	21.66	23.0	0.0
40	PI2 BPSK	108	0	21.38	21.44	21.37	22.5	0.5
40	PI2 BPSK	108	54	21.79	21.87	21.75	23.0	0.0
40	PI2 BPSK	108	108	21.38	21.49	21.37	22.5	0.5
40	PI2 BPSK	216	0	21.39	21.42	21.34		
40	QPSK	1	1	21.92	21.96	21.88	23.0	0.0
40	QPSK	1	108	21.78	21.92	21.82		
40	QPSK	1	214	21.74	21.85	21.80	22.0	1.0
40	QPSK	108	0	20.87	20.97	20.87		
40	QPSK	108	54	21.86	21.90	21.85		
40	QPSK	108	108	20.80	20.89	20.80		
40	QPSK	216	0	20.81	20.94	20.84	22.0	1.0
40	16QAM	1	1	20.73	20.86	20.77	22.0	1.0
40	64QAM	1	1	19.27	19.41	19.36	20.5	2.5
40	256QAM	1	1	17.30	17.38	17.23	18.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.77	21.88	21.80	23.0	0.0
Channel				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.81	21.83	21.76	23.0	0.0
Channel				502600	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2550		
20	PI2 BPSK	1	1	21.88	21.92	21.79	23.0	0.0
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.80	21.90	21.75	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.88	21.84	21.70	23.0	0.0
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.83	21.88	21.70	23.0	0.0

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	23.0	0.0
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	22.14	22.27	22.17		
40	PI2 BPSK	1	108	22.07	22.22	22.11		
40	PI2 BPSK	1	214	22.08	22.16	22.12	23.0	0.0
40	PI2 BPSK	108	0	21.68	21.86	21.82	22.5	0.5
40	PI2 BPSK	108	54	22.02	22.20	22.13	23.0	0.0
40	PI2 BPSK	108	108	21.69	21.81	21.78	22.5	0.5
40	PI2 BPSK	216	0	21.74	21.84	21.85		
40	QPSK	1	1	22.23	22.35	22.31	23.0	0.0
40	QPSK	1	108	22.04	22.26	22.14		
40	QPSK	1	214	22.02	22.21	22.07	22.0	1.0
40	QPSK	108	0	21.13	21.38	21.24		
40	QPSK	108	54	22.15	22.29	22.24		
40	QPSK	108	108	21.24	21.48	21.35		
40	QPSK	216	0	21.26	21.43	21.29	22.0	1.0
40	16QAM	1	1	20.96	21.11	21.01	22.0	1.0
40	64QAM	1	1	19.87	19.90	19.81	20.5	2.5
40	256QAM	1	1	17.59	17.85	17.73	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.11	22.27	22.20	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.16	22.31	22.24	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.18	22.28	22.24	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.19	22.22	22.17	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.15	22.29	22.21	23.0	0.0

n38 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PV2 BPSK	1	1	21.54	21.76	21.72	23.0	0.0
40	PV2 BPSK	1	53	21.84	21.72	21.86		
40	PV2 BPSK	1	104	21.44	21.61	21.52		
40	PV2 BPSK	50	0	20.90	21.01	20.98	22.5	0.5
40	PV2 BPSK	50	28	21.50	21.75	21.50	23.0	0.0
40	PV2 BPSK	50	56	20.91	21.03	21.00	22.5	0.5
40	PV2 BPSK	100	0	20.90	21.02	21.01		
40	QPSK	1	1	21.79	21.83	21.82	23.0	0.0
40	QPSK	1	53	21.35	21.71	21.61		
40	QPSK	1	104	21.45	21.70	21.52		
40	QPSK	50	0	20.51	20.73	20.55	22.0	1.0
40	QPSK	50	28	21.62	21.76	21.68	23.0	0.0
40	QPSK	50	56	20.48	20.62	20.54	22.0	1.0
40	QPSK	100	0	20.57	20.62	20.58		
40	16QAM	1	1	20.46	20.68	20.53	22.0	1.0
40	64QAM	1	1	19.09	19.28	19.14	20.5	2.5
40	256QAM	1	1	17.21	17.44	17.34	18.5	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.74	21.76	21.75	23.0	0.0
Channel				516804	519000	521496		
Frequency (MHz)				2562.52	2595	2607.48		
25	QPSK	1	1	21.70	21.69	21.69	23.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2550	2595	2610		
20	QPSK	1	1	21.65	21.70	21.79	23.0	0.0
Channel				515002	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.71	21.73	21.72	23.0	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	21.65	21.69	21.67	23.0	0.0

n41 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2544.01	2592.99	2640		
100	PV2 BPSK	1	1	21.70	21.82	21.78	23.0	0.0
100	PV2 BPSK	1	137	21.72	21.77	21.68		
100	PV2 BPSK	1	271	21.60	21.71	21.57		
100	PV2 BPSK	135	0	20.06	20.17	20.08	22.5	0.5
100	PV2 BPSK	135	69	21.67	21.74	21.62	23.0	0.0
100	PV2 BPSK	135	138	20.28	20.33	20.25	22.5	0.5
100	PV2 BPSK	270	0	20.12	20.24	20.17		
100	QPSK	1	1	21.74	21.86	21.81	23.0	0.0
100	QPSK	1	137	21.71	21.80	21.73		
100	QPSK	1	271	21.67	21.73	21.70		
100	QPSK	135	0	20.41	20.47	20.40	22.0	1.0
100	QPSK	135	69	21.69	21.76	21.75	23.0	0.0
100	QPSK	135	138	20.41	20.50	20.41	22.0	1.0
100	QPSK	270	0	20.45	20.56	20.47		
100	16QAM	1	1	20.48	20.54	20.49	22.0	1.0
100	64QAM	1	1	18.91	18.97	18.92	20.5	2.5
100	256QAM	1	1	16.61	16.68	16.68	18.5	4.5
Channel				508200	518598	526998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.61	21.69	21.59	23.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.59	21.68	21.70	23.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.65	21.73	21.60	23.0	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2528	2592.99	2659.98		
60	QPSK	1	1	21.62	21.65	21.68	23.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.61	21.67	21.62	23.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.65	21.73	21.65	23.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.58	21.66	21.61	23.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.57	21.65	21.68	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2544.01	2592.99	2640		
100	PV2 BPSK	1	1	24.81	24.88	24.78	28.0	0.0
100	PV2 BPSK	1	137	24.72	24.81	24.76		
100	PV2 BPSK	1	271	24.71	24.75	24.64		
100	PV2 BPSK	135	0	24.37	24.43	24.39	25.5	0.5
100	PV2 BPSK	135	69	24.73	24.80	24.72	26.0	0.0
100	PV2 BPSK	135	138	24.43	24.47	24.38	25.5	0.5
100	PV2 BPSK	270	0	24.45	24.51	24.38		
100	QPSK	1	1	24.84	24.92	24.89	26.0	0.0
100	QPSK	1	137	24.72	24.85	24.82		
100	QPSK	1	271	24.67	24.79	24.66		
100	QPSK	135	0	23.92	24.01	23.88	25.0	1.0
100	QPSK	135	69	24.76	24.86	24.76	26.0	0.0
100	QPSK	135	138	23.98	24.01	23.98	25.0	1.0
100	QPSK	270	0	24.04	24.08	24.01		
100	16QAM	1	1	24.08	24.13	24.10	25.0	1.0
100	64QAM	1	1	22.14	22.28	22.10	23.5	2.5
100	256QAM	1	1	20.21	20.35	20.29	21.5	4.5
Channel				508200	518598	526998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.71	24.86	24.81	26.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.77	24.85	24.85	26.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	24.73	24.82	24.78	26.0	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2528	2592.99	2659.98		
60	QPSK	1	1	24.70	24.86	24.80	26.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	24.74	24.83	24.83	26.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.72	24.87	24.83	26.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.80	24.79	24.76	26.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.75	24.85	24.77	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000	21.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PV2 BPSK	1	1	20.24	20.37	20.28		
100	PV2 BPSK	1	137	20.20	20.33	20.22		
100	PV2 BPSK	1	271	20.15	20.28	20.22	20.5	0.5
100	PV2 BPSK	135	0	18.72	18.78	18.74		
100	PV2 BPSK	135	69	20.22	20.31	20.19		
100	PV2 BPSK	135	138	18.83	18.76	18.67		
100	PV2 BPSK	270	0	18.80	18.88	18.80	21.0	0.0
100	QPSK	1	1	20.37	20.43	20.31		
100	QPSK	1	137	20.19	20.35	20.25		
100	QPSK	1	271	20.13	20.31	20.20		
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0
100	QPSK	135	69	20.20	20.38	20.27		
100	QPSK	135	138	18.84	18.86	18.81		
100	QPSK	270	0	18.91	19.02	18.88		
100	16QAM	1	1	18.80	18.88	18.80	20.0	1.0
100	64QAM	1	1	17.49	17.65	17.53		
100	256QAM	1	1	15.22	15.32	15.26		
Channel				648968	650000	662334	21.0	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.26	20.38	20.30		
Channel				648334	650000	662668	21.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.19	20.29	20.31		
Channel				649000	650000	663000	21.0	0.0
Frequency (MHz)				3725	3840	3945		
70	QPSK	1	1	20.23	20.38	20.32		
Channel				648968	650000	662334	21.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.19	20.28	20.30		
Channel				648334	650000	663668	21.0	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.28	20.37	20.25		
Channel				648000	650000	664000	21.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.24	20.30	20.31		
Channel				647968	650000	664334	21.0	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.20	20.28	20.28		
Channel				647334	650000	664668	21.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.22	20.28	20.24		
Channel				647166	650000	664334	21.0	0.0
Frequency (MHz)				3707.53	3840	3972.51		
15	QPSK	1	1	20.19	20.38	20.30		
Channel				647000	650000	665000	21.0	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	20.28	20.34	20.28		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PV2 BPSK	1	1	23.33	23.39	23.29		
100	PV2 BPSK	1	137	23.23	23.33	23.26		
100	PV2 BPSK	1	271	23.14	23.27	23.23	23.5	0.5
100	PV2 BPSK	135	0	22.79	22.88	22.84		
100	PV2 BPSK	135	69	23.28	23.34	23.20		
100	PV2 BPSK	135	138	22.86	22.90	22.79		
100	PV2 BPSK	270	0	22.88	22.94	22.82	24.0	0.0
100	QPSK	1	1	23.38	23.42	23.32		
100	QPSK	1	137	23.28	23.35	23.26		
100	QPSK	1	271	23.21	23.31	23.22		
100	QPSK	135	0	22.21	22.34	22.28	23.0	1.0
100	QPSK	135	69	23.22	23.36	23.28		
100	QPSK	135	138	22.34	22.39	22.34		
100	QPSK	270	0	22.32	22.45	22.39		
100	16QAM	1	1	22.46	22.57	22.51	23.0	1.0
100	64QAM	1	1	20.74	20.88	20.77		
100	256QAM	1	1	18.58	18.67	18.63		
Channel				648968	650000	662334	24.0	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.28	23.35	23.24		
Channel				648334	650000	662668	24.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	23.31	23.34	23.27		
Channel				649000	650000	663000	24.0	0.0
Frequency (MHz)				3725	3840	3945		
70	QPSK	1	1	23.25	23.37	23.29		
Channel				648968	650000	662334	24.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	23.26	23.38	23.18		
Channel				648334	650000	663668	24.0	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	23.25	23.28	23.27		
Channel				648000	650000	664000	24.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.25	23.30	23.19		
Channel				647968	650000	664334	24.0	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	23.24	23.36	23.19		
Channel				647334	650000	664668	24.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.31	23.28	23.26		
Channel				647166	650000	664334	24.0	0.0
Frequency (MHz)				3707.53	3840	3972.51		
15	QPSK	1	1	23.31	23.32	23.21		
Channel				647000	650000	665000	24.0	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	23.26	23.29	23.25		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.31		21.0	0.0
100	PI/2 BPSK	1	137		20.27			
100	PI/2 BPSK	1	271		20.22			
100	PI/2 BPSK	135	0		19.13		20.5	0.5
100	PI/2 BPSK	135	69		20.25		21.0	0.0
100	PI/2 BPSK	135	138		19.01		20.5	0.5
100	PI/2 BPSK	270	0		19.07			
100	QPSK	1	1		20.35		21.0	0.0
100	QPSK	1	137		20.30			
100	QPSK	1	271		20.17			
100	QPSK	135	0		18.82		20.0	1.0
100	QPSK	135	69		20.29		21.0	0.0
100	QPSK	135	138		18.67		20.0	1.0
100	QPSK	270	0		18.72			
100	16QAM	1	1		18.84		20.0	1.0
100	64QAM	1	1		17.58		18.5	2.5
100	256QAM	1	1		15.33		16.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.19	20.24	20.14	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.23	20.26	20.11	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.15	20.28	20.19	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.19	20.25	20.13	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.24	20.27	20.13	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.20	20.26	20.19	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.27	20.30	20.08	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.25	20.34	20.06	21.0	0.0
Channel				647168	650000	653034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	20.22	20.27	20.19	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	20.16	20.23	20.20	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	24.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.17		24.0	0.0
100	PI/2 BPSK	1	137		23.08			
100	PI/2 BPSK	1	271		23.02			
100	PI/2 BPSK	135	0		22.52		23.5	0.5
100	PI/2 BPSK	135	69		23.09		24.0	0.0
100	PI/2 BPSK	135	138		22.46		23.5	0.5
100	PI/2 BPSK	270	0		22.53			
100	QPSK	1	1		23.21		24.0	0.0
100	QPSK	1	137		23.11			
100	QPSK	1	271		23.04			
100	QPSK	135	0		22.01		23.0	1.0
100	QPSK	135	69		23.14		24.0	0.0
100	QPSK	135	138		21.85		23.0	1.0
100	QPSK	270	0		22.02			
100	16QAM	1	1		22.03		23.0	1.0
100	64QAM	1	1		20.85		21.5	2.5
100	256QAM	1	1		18.89		19.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.11	23.15	23.05	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.09	23.18	23.02	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.13	23.19	22.97	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.12	23.08	22.98	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.05	23.08	22.94	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.12	23.08	23.04	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.11	23.17	23.03	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.08	23.14	23.01	24.0	0.0
Channel				647168	650000	653034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	23.11	23.18	23.00	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.09	23.16	22.94	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166500	167300	167800		
Frequency (MHz)				824	824.5	825		
20	Pi2 BPSK	1	1	21.69	21.83	21.79		
20	Pi2 BPSK	1	53	21.73	21.78	21.87	23.0	0.0
20	Pi2 BPSK	1	104	21.81	21.70	21.68		
20	Pi2 BPSK	50	0	21.34	21.41	21.34	22.5	0.5
20	Pi2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0
20	Pi2 BPSK	50	56	21.24	21.34	21.20		0.5
20	Pi2 BPSK	100	0	21.35	21.40	21.28	22.5	
20	QPSK	1	1	21.83	21.89	21.76		
20	QPSK	1	53	21.71	21.82	21.70	23.0	0.0
20	QPSK	1	104	21.65	21.76	21.61		
20	QPSK	50	0	20.79	20.87	20.78	22.0	1.0
20	QPSK	50	28	21.68	21.81	21.76	23.0	0.0
20	QPSK	50	56	20.70	20.84	20.75		1.0
20	QPSK	100	0	20.77	20.90	20.80	22.0	
20	16QAM	1	1	21.22	21.28	21.13	22.0	1.0
20	64QAM	1	1	19.48	19.57	19.45	20.5	2.5
20	256QAM	1	1	17.35	17.51	17.41	18.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	21.72	21.78	21.64	23.0	0.0
Channel				168800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	21.76	21.81	21.66	23.0	0.0
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	21.77	21.84	21.69	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2320	2535	2590		
40	Pi2 BPSK	1	1	22.80	22.86	22.86		
40	Pi2 BPSK	1	108	22.71	22.81	22.69	24.0	0.0
40	Pi2 BPSK	1	214	22.70	22.77	22.73		
40	Pi2 BPSK	108	0	22.37	22.44	22.37	23.5	0.5
40	Pi2 BPSK	108	54	22.66	22.79	22.65	24.0	0.0
40	Pi2 BPSK	108	108	22.29	22.41	22.38		0.5
40	Pi2 BPSK	216	0	22.37	22.46	22.41	23.5	
40	QPSK	1	1	22.88	22.93	22.84		
40	QPSK	1	108	22.80	22.88	22.75	24.0	0.0
40	QPSK	1	214	22.74	22.83	22.73		
40	QPSK	108	0	21.94	22.01	21.97	23.0	1.0
40	QPSK	108	54	22.80	22.87	22.82	24.0	0.0
40	QPSK	108	108	22.00	22.05	21.94		1.0
40	QPSK	216	0	22.08	22.13	22.00	23.0	
40	16QAM	1	1	22.12	22.16	22.05	23.0	1.0
40	64QAM	1	1	20.55	20.59	20.52	21.5	2.5
40	256QAM	1	1	18.52	18.67	18.59	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.81	22.79	22.73	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.80	22.87	22.77	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	Pi2 BPSK	1	1	22.75	22.85	22.81	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.74	22.81	22.73	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.79	22.83	22.70	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.74	22.88	22.80	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1720	1745	1760		
40	Pi2 BPSK	1	1	22.35	22.46	22.40		
40	Pi2 BPSK	1	108	22.31	22.41	22.34	24.0	0.0
40	Pi2 BPSK	1	214	22.32	22.38	22.30		
40	Pi2 BPSK	108	0	22.01	22.06	22.00	23.5	0.5
40	Pi2 BPSK	108	54	22.37	22.41	22.28	24.0	0.0
40	Pi2 BPSK	108	108	21.96	22.03	21.98		0.5
40	Pi2 BPSK	216	0	22.00	22.07	22.02	23.5	
40	QPSK	1	1	22.48	22.54	22.42		
40	QPSK	1	108	22.43	22.46	22.45	24.0	0.0
40	QPSK	1	214	22.35	22.42	22.29		
40	QPSK	108	0	21.52	21.67	21.54	23.0	1.0
40	QPSK	108	54	22.40	22.50	22.38	24.0	0.0
40	QPSK	108	108	21.85	21.72	21.82		1.0
40	QPSK	216	0	21.67	21.77	21.73	23.0	
40	16QAM	1	1	21.81	21.89	21.65	23.0	1.0
40	64QAM	1	1	19.79	19.89	19.80	21.5	2.5
40	256QAM	1	1	18.05	18.05	18.01	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.42	22.45	22.30	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.44	22.50	22.35	24.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.41	22.49	22.37	24.0	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.43	22.46	22.31	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.34	22.42	22.31	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	Pi2 BPSK	1	1	22.65	22.78	22.72		24.0	0.0
40	Pi2 BPSK	1	53	22.68	22.72	22.58			
40	Pi2 BPSK	1	104	22.56	22.67	22.59			
40	Pi2 BPSK	50	0	21.58	21.68	21.60	23.5		
40	Pi2 BPSK	50	28	22.66	22.71	22.64	24.0	0.0	0.0
40	Pi2 BPSK	50	56	21.84	21.74	21.63		23.5	0.5
40	Pi2 BPSK	100	0	21.70	21.80	21.70			
40	QPSK	1	1	22.72	22.84	22.77		24.0	0.0
40	QPSK	1	53	22.68	22.79	22.65			
40	QPSK	1	104	22.63	22.73	22.63			
40	QPSK	50	0	21.72	21.78	21.68	23.0	1.0	1.0
40	QPSK	50	28	22.72	22.78	22.71	24.0	0.0	0.0
40	QPSK	50	56	21.74	21.85	21.72		23.0	1.0
40	QPSK	100	0	21.76	21.88	21.84			
40	16QAM	1	1	21.60	21.72	21.62	23.0	1.0	1.0
40	64QAM	1	1	20.38	20.49	20.35	21.5	2.5	2.5
40	256QAM	1	1	18.26	18.31	18.24	19.5	4.5	4.5
Channel				517002	518000	520998	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.66	22.72	22.68	24.0	0.0	0.0
Channel				518504	519000	521496	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	22.64	22.79	22.68	24.0	0.0	0.0
Channel				516000	519000	522000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	22.63	22.80	22.71	24.0	0.0	0.0
Channel				515502	518000	522498	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.69	22.76	22.65	24.0	0.0	0.0
Channel				515004	519000	522996	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.62	22.74	22.69	24.0	0.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pi2 BPSK	1	1	22.84	22.90	22.78		24.0	0.0
100	Pi2 BPSK	1	137	22.72	22.85	22.81			
100	Pi2 BPSK	1	271	22.73	22.81	22.67			
100	Pi2 BPSK	135	0	21.53	21.54	21.60	23.5		
100	Pi2 BPSK	135	69	22.71	22.83	22.71	24.0	0.0	0.0
100	Pi2 BPSK	135	138	21.52	21.62	21.57		23.5	0.5
100	Pi2 BPSK	270	0	21.63	21.68	21.57			
100	QPSK	1	1	22.83	22.97	22.88		24.0	0.0
100	QPSK	1	137	22.85	22.92	22.90			
100	QPSK	1	271	22.84	22.88	22.83			
100	QPSK	135	0	21.63	21.73	21.68	23.0	1.0	1.0
100	QPSK	135	69	22.84	22.91	22.78	24.0	0.0	0.0
100	QPSK	135	138	21.69	21.80	21.71		23.0	1.0
100	QPSK	270	0	21.83	21.89	21.75			
100	16QAM	1	1	21.80	21.82	21.75	23.0	1.0	1.0
100	64QAM	1	1	20.56	20.69	20.55	21.5	2.5	2.5
100	256QAM	1	1	18.46	18.51	18.44	19.5	4.5	4.5
Channel				508200	518598	539998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.82	22.89	22.85	24.0	0.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.82	22.86	22.84	24.0	0.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.79	22.92	22.80	24.0	0.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	22.79	22.93	22.84	24.0	0.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.79	22.84	22.79	24.0	0.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.84	22.88	22.83	24.0	0.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.88	22.94	22.75	24.0	0.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.84	22.90	22.77	24.0	0.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pi2 BPSK	1	1	25.92	25.96	25.89	27.0	0.0	
100	Pi2 BPSK	1	137	25.85	25.92	25.83			
100	Pi2 BPSK	1	271	25.78	25.86	25.75			
100	Pi2 BPSK	135	0	25.34	25.44	25.38			
100	Pi2 BPSK	135	69	25.87	25.91	25.87	27.0	0.0	0.0
100	Pi2 BPSK	135	138	25.35	25.39	25.24	26.5	0.5	0.5
100	Pi2 BPSK	270	0	25.36	25.42	25.28			
100	QPSK	1	1	25.98	26.01	25.91	27.0	0.0	
100	QPSK	1	137	25.87	25.95	25.87			
100	QPSK	1	271	25.79	25.89	25.78			
100	QPSK	135	0	24.97	25.04	24.92	26.0	1.0	1.0
100	QPSK	135	69	25.92	25.96	25.87	27.0	0.0	0.0
100	QPSK	135	138	25.18	25.22	25.18	26.0	1.0	1.0
100	QPSK	270	0	25.18	25.27	25.13			
100	16QAM	1	1	24.84	24.85	24.82	26.0	1.0	1.0
100	64QAM	1	1	23.93	24.00	23.85	24.5	2.5	2.5
100	256QAM	1	1	21.90	21.98	21.83	22.5	4.5	4.5
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.88	25.97	25.86	27.0	0.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.91	25.89	25.84	27.0	0.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.84	25.87	25.77	27.0	0.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	25.84	25.95	25.83	27.0	0.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.88	25.93	25.77	27.0	0.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.82	25.88	25.76	27.0	0.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.90	25.88	25.81	27.0	0.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.92	25.90	25.79	27.0	0.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000	24.0	0.0
Frequency (MHz)				3740	3840	3940		
100	PI/2 BPSK	1	1	23.12	23.17	23.06	24.0	0.0
100	PI/2 BPSK	1	137	23.03	23.12	23.01		
100	PI/2 BPSK	1	271	23.03	23.08	22.94	23.5	0.5
100	PI/2 BPSK	135	0	21.59	21.61	21.54		
100	PI/2 BPSK	135	69	23.09	23.13	22.98	23.5	0.5
100	PI/2 BPSK	135	138	21.54	21.63	21.48		
100	PI/2 BPSK	270	0	21.58	21.67	21.49	24.0	0.0
100	QPSK	1	1	23.16	23.24	23.09		
100	QPSK	1	137	23.16	23.21	23.12	23.0	1.0
100	QPSK	1	271	23.17	23.17	23.02		
100	QPSK	135	0	21.53	21.63	21.54	23.0	0.0
100	QPSK	135	69	23.17	23.19	23.07		
100	QPSK	135	138	21.51	21.63	21.50	23.0	1.0
100	QPSK	270	0	21.62	21.67	21.52		
100	16QAM	1	1	21.56	21.66	21.52	23.0	1.0
100	64QAM	1	1	20.14	20.23	20.12		
100	256QAM	1	1	16.22	16.32	16.16	19.5	4.5
Channel				649668	650000	662334		
Frequency (MHz)				3745.02	3840	3935.01	24.0	0.0
90	QPSK	1	1	23.08	23.11	22.94		
Channel				649334	650000	662668	24.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	23.00	23.10	22.94	24.0	0.0
Channel				649000	650000	663000		
Frequency (MHz)				3725	3840	3945	24.0	0.0
70	QPSK	1	1	23.01	23.07	22.96		
Channel				648668	650000	663334	24.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	23.11	23.16	22.99	24.0	0.0
Channel				648334	650000	663668		
Frequency (MHz)				3725.01	3840	3955.02	24.0	0.0
50	QPSK	1	1	23.04	23.13	23.00		
Channel				648000	650000	664000	24.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.06	23.11	22.98	24.0	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.02	3840	3965.01	24.0	0.0
30	QPSK	1	1	23.03	23.16	22.99		
Channel				647334	650000	664668	24.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.04	23.17	23.00	24.0	0.0
Channel				647168	650000	664934		
Frequency (MHz)				3707.52	3840	3972.51	24.0	0.0
15	QPSK	1	1	23.00	23.14	22.93		
Channel				647000	650000	665000	24.0	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	23.03	23.08	22.96	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000	27.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.98	26.10	26.03	27.0	0.0
100	PI/2 BPSK	1	137	25.95	26.07	25.93		
100	PI/2 BPSK	1	271	25.94	26.01	25.98	26.5	0.5
100	PI/2 BPSK	135	0	25.42	25.51	25.37		
100	PI/2 BPSK	135	69	25.96	26.00	25.90	26.5	0.5
100	PI/2 BPSK	135	138	25.48	25.58	25.51		
100	PI/2 BPSK	270	0	25.54	25.61	25.48	27.0	0.0
100	QPSK	1	1	26.07	26.17	26.12		
100	QPSK	1	137	26.01	26.11	26.03	26.0	1.0
100	QPSK	1	271	25.97	26.05	25.98		
100	QPSK	135	0	25.05	25.09	24.98	26.0	0.0
100	QPSK	135	69	26.03	26.12	26.04		
100	QPSK	135	138	24.97	25.04	24.96	26.0	1.0
100	QPSK	270	0	25.05	25.11	25.02		
100	16QAM	1	1	25.00	25.14	25.04	26.0	1.0
100	64QAM	1	1	23.62	23.67	23.53		
100	256QAM	1	1	21.56	21.69	21.62	22.5	4.5
Channel				649668	650000	662334		
Frequency (MHz)				3745.02	3840	3935.01	27.0	0.0
90	QPSK	1	1	25.94	26.10	26.06		
Channel				649334	650000	662668	27.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	26.01	26.03	25.99	27.0	0.0
Channel				649000	650000	663000		
Frequency (MHz)				3725	3840	3945	27.0	0.0
70	QPSK	1	1	26.02	26.13	26.03		
Channel				648668	650000	663334	27.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.95	26.08	26.07	27.0	0.0
Channel				648334	650000	663668		
Frequency (MHz)				3725.01	3840	3955.02	27.0	0.0
50	QPSK	1	1	26.04	26.12	26.01		
Channel				648000	650000	664000	27.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	26.00	26.04	26.07	27.0	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.02	3840	3965.01	27.0	0.0
30	QPSK	1	1	25.97	26.11	26.09		
Channel				647334	650000	664668	27.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.98	26.12	26.05	27.0	0.0
Channel				647168	650000	664934		
Frequency (MHz)				3707.52	3840	3972.51	27.0	0.0
15	QPSK	1	1	26.02	26.02	26.01		
Channel				647000	650000	665000	27.0	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.98	26.03	26.01	27.0	0.0

Part270 n78 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.05		24.0	0.0	
100	PI/2 BPSK	1	137		22.99				
100	PI/2 BPSK	1	271		22.92				
100	PI/2 BPSK	135	0		21.54		23.5	0.5	
100	PI/2 BPSK	135	69		22.97		24.0	0.0	
100	PI/2 BPSK	135	138		21.56		23.5	0.5	
100	PI/2 BPSK	270	0		21.60				
100	QPSK	1	1		23.13		24.0	0.0	
100	QPSK	1	137		23.02				
100	QPSK	1	271		22.95				
100	QPSK	135	0		21.54		23.0	1.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		21.48		23.0	1.0	
100	QPSK	270	0		21.53				
100	16QAM	1	1		21.69		23.0	1.0	
100	64QAM	1	1		19.94		21.5	2.5	
100	256QAM	1	1		18.07		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		23.01	23.03	22.94	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.94	23.00	22.94	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.94	23.09	22.93	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.94	23.01	22.87	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		23.02	23.05	22.94	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.00	23.02	22.88	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		22.96	22.98	22.89	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3780.02			
20	QPSK	1	1		23.00	23.04	22.87	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		23.00	23.08	22.93	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.98	23.07	22.87	24.0	0.0

Part270 n78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		26.08		27.0	0.0	
100	PI/2 BPSK	1	137		26.05				
100	PI/2 BPSK	1	271		25.99				
100	PI/2 BPSK	135	0		25.50		26.5	0.5	
100	PI/2 BPSK	135	69		26.00		27.0	0.0	
100	PI/2 BPSK	135	138		25.39		26.5	0.5	
100	PI/2 BPSK	270	0		25.46				
100	QPSK	1	1		26.15		27.0	0.0	
100	QPSK	1	137		26.08				
100	QPSK	1	271		26.02				
100	QPSK	135	0		25.00		26.0	1.0	
100	QPSK	135	69		26.09		27.0	0.0	
100	QPSK	135	138		24.85		26.0	1.0	
100	QPSK	270	0		24.99				
100	16QAM	1	1		25.29		26.0	1.0	
100	64QAM	1	1		23.83		24.5	2.5	
100	256QAM	1	1		21.76		22.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		25.95	26.11	25.96	27.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.94	26.05	25.94	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		26.03	26.09	25.98	27.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		25.93	26.10	25.94	27.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.96	26.04	25.96	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		26.01	26.05	25.89	27.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		25.94	26.01	25.97	27.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3780.02			
20	QPSK	1	1		26.98	26.03	25.93	27.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		25.94	26.07	25.98	27.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		25.97	26.10	25.93	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000	15.2	0.0
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	13.72	13.77	13.83		
40	PI/2 BPSK	1	108	13.82	13.70	13.80		
40	PI/2 BPSK	1	214	13.49	13.64	13.59	15.2	0.0
40	PI/2 BPSK	108	0	13.57	13.67	13.83		
40	PI/2 BPSK	108	54	13.65	13.73	13.68		
40	PI/2 BPSK	108	108	13.52	13.62	13.49		
40	PI/2 BPSK	216	0	13.58	13.68	13.54	15.2	0.0
40	QPSK	1	1	13.68	13.91	13.74		
40	QPSK	1	108	13.55	13.74	13.67		
40	QPSK	1	214	13.64	13.68	13.63		
40	QPSK	108	0	13.60	13.71	13.86	15.2	0.0
40	QPSK	108	54	13.82	13.75	13.89		
40	QPSK	108	108	13.57	13.62	13.52		
40	QPSK	216	0	13.54	13.68	13.60		
40	16QAM	1	1	13.53	13.64	13.55	15.2	0.0
40	64QAM	1	1	13.49	13.60	13.57		
40	256QAM	1	1	13.46	13.57	13.43		
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	13.54	13.77	13.69	15.2	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	13.61	13.74	13.65	15.2	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2550		
20	PI/2 BPSK	1	1	13.85	13.89	13.67	15.2	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	13.53	13.67	13.71	15.2	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	13.57	13.73	13.65	15.2	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	13.58	13.76	13.89	15.2	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	23.2	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.93	22.00	21.89		
40	PI/2 BPSK	1	108	21.82	21.89	21.84		
40	PI/2 BPSK	1	214	21.72	21.81	21.69	23.2	0.0
40	PI/2 BPSK	108	0	21.88	21.92	21.77		
40	PI/2 BPSK	108	54	21.84	21.98	21.89		
40	PI/2 BPSK	108	108	21.74	21.83	21.76		
40	PI/2 BPSK	216	0	21.75	21.88	21.84	23.2	0.0
40	QPSK	1	1	21.99	22.04	21.98		
40	QPSK	1	108	21.83	21.98	21.92		
40	QPSK	1	214	21.85	21.94	21.85		
40	QPSK	108	0	21.73	21.88	21.80	23.0	0.2
40	QPSK	108	54	21.92	21.97	21.89		
40	QPSK	108	108	21.73	21.81	21.77		
40	QPSK	216	0	21.77	21.86	21.82		
40	16QAM	1	1	21.64	21.79	21.74	23.0	0.2
40	64QAM	1	1	20.82	20.95	20.90		
40	256QAM	1	1	19.96	19.99	19.93		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.80	21.93	21.93	23.2	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.75	21.92	21.89	23.2	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.86	22.00	21.87	23.2	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.83	21.90	21.83	23.2	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.77	21.99	21.88	23.2	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	15.4	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PV2 BPSK	1	1	14.03	14.10	13.99		
40	PV2 BPSK	1	53	13.99	14.11	14.04		
40	PV2 BPSK	1	104	13.87	14.02	13.94	15.4	0.0
40	PV2 BPSK	50	0	13.82	14.00	13.95		
40	PV2 BPSK	50	28	13.92	13.99	13.86		
40	PV2 BPSK	50	56	13.88	14.00	13.94		
40	PV2 BPSK	100	0	14.01	14.05	14.01	15.4	0.0
40	QPSK	1	1	14.12	14.16	14.09		
40	QPSK	1	53	13.92	14.06	13.85		
40	QPSK	1	104	13.93	13.99	13.89		
40	QPSK	50	0	13.86	13.98	13.88	15.4	0.0
40	QPSK	50	28	14.05	14.13	13.98		
40	QPSK	50	56	13.89	14.02	13.79		
40	QPSK	100	0	13.93	13.99	13.96		
40	16QAM	1	1	13.97	14.12	13.91	15.4	0.0
40	64QAM	1	1	13.92	14.09	13.97		
40	256QAM	1	1	13.83	13.90	13.76		
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99	15.4	0.0
30	QPSK	1	1	13.93	14.00	13.87		
Channel				516804	519000	521496		
Frequency (MHz)				2562.52	2595	2607.48		
25	QPSK	1	1	13.89	14.04	13.87	15.4	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2550	2595	2610		
20	QPSK	1	1	13.99	14.00	13.91		
Channel				515002	519000	522498	15.4	0.0
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	13.90	14.06	13.85		
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98	15.4	0.0
10	QPSK	1	1	13.84	13.96	13.88		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	15.4	0.0
Frequency (MHz)				2549.01	2592.99	2644		
100	PV2 BPSK	1	1	14.18	14.22	14.10		
100	PV2 BPSK	1	137	14.07	14.17	14.12		
100	PV2 BPSK	1	271	14.01	14.11	13.99	15.4	0.0
100	PV2 BPSK	135	0	13.83	14.05	13.99		
100	PV2 BPSK	135	69	13.97	14.08	13.95		
100	PV2 BPSK	135	138	14.02	14.12	13.99		
100	PV2 BPSK	270	0	14.13	14.18	14.05	15.4	0.0
100	QPSK	1	1	14.19	14.25	14.14		
100	QPSK	1	137	14.05	14.13	13.98		
100	QPSK	1	271	14.03	14.09	14.04		
100	QPSK	135	0	13.91	14.04	13.94	15.4	0.0
100	QPSK	135	69	14.11	14.16	14.07		
100	QPSK	135	138	14.00	14.06	13.93		
100	QPSK	270	0	14.06	14.11	14.03		
100	16QAM	1	1	14.11	14.19	14.05	15.4	0.0
100	64QAM	1	1	14.01	14.12	14.03		
100	256QAM	1	1	13.89	14.04	13.90		
Channel				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98	15.4	0.0
90	QPSK	1	1	13.90	14.06	13.85		
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	13.98	14.00	13.91	15.4	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	13.89	14.04	13.87		
Channel				505200	518598	531998	15.4	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	13.93	14.00	13.87		
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99	15.4	0.0
50	QPSK	1	1	14.14	14.14	14.07		
Channel				503202	518598	533000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.14	14.22	14.07	15.4	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.15	14.17	14.03		
Channel				501204	518598	535998	15.4	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.15	14.20	14.05		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	18.4	0.0
Frequency (MHz)				2549.01	2592.99	2644		
100	PV2 BPSK	1	1	17.15	17.21	17.12		
100	PV2 BPSK	1	137	17.13	17.18	17.11		
100	PV2 BPSK	1	271	17.03	17.09	17.01	18.4	0.0
100	PV2 BPSK	135	0	16.94	17.05	17.03		
100	PV2 BPSK	135	69	17.04	17.11	16.96		
100	PV2 BPSK	135	138	16.97	17.12	17.04		
100	PV2 BPSK	270	0	17.17	17.23	17.05	18.4	0.0
100	QPSK	1	1	17.14	17.25	17.21		
100	QPSK	1	137	17.05	17.19	17.04		
100	QPSK	1	271	17.08	17.12	17.03		
100	QPSK	135	0	16.90	16.99	16.92	18.4	0.0
100	QPSK	135	69	17.08	17.16	17.08		
100	QPSK	135	138	16.99	17.11	16.89		
100	QPSK	270	0	17.06	17.17	17.01		
100	16QAM	1	1	17.15	17.17	17.03	18.4	0.0
100	64QAM	1	1	17.01	17.15	17.05		
100	256QAM	1	1	16.85	17.09	16.95		
Channel				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98	18.4	0.0
90	QPSK	1	1	17.00	17.21	17.10		
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.00	17.18	17.16	18.4	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.00	17.15	17.12		
Channel				505200	518598	531998	18.4	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.03	17.18	17.16		
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99	18.4	0.0
50	QPSK	1	1	17.02	17.22	17.11		
Channel				503202	518598	533000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.07	17.14	17.08	18.4	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.00	17.16	17.09		
Channel				501204	518598	535998	18.4	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.03	17.21	17.17		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000	15.9	0.0
Frequency (MHz)				3750	3840	3930		
100	PV2 BPSK	1	1	15.95	15.10	14.98	15.9	0.0
100	PV2 BPSK	1	137	14.95	15.06	15.04		
100	PV2 BPSK	1	271	14.97	15.06	14.89	15.9	0.0
100	PV2 BPSK	135	0	14.89	14.91	14.91		
100	PV2 BPSK	135	69	14.93	14.93	14.91	15.9	0.0
100	PV2 BPSK	135	138	14.88	15.07	14.87		
100	PV2 BPSK	270	0	15.10	15.13	15.01	15.9	0.0
100	QPSK	1	1	15.04	15.16	15.06		
100	QPSK	1	137	15.01	15.06	14.87	15.9	0.0
100	QPSK	1	271	14.89	15.00	15.00		
100	QPSK	135	0	14.78	14.92	14.80	15.9	0.0
100	QPSK	135	69	14.99	15.08	14.95		
100	QPSK	135	138	14.93	14.92	14.80	15.9	0.0
100	QPSK	270	0	14.99	15.03	14.94		
100	16QAM	1	1	15.04	15.13	14.95	15.9	0.0
100	64QAM	1	1	14.96	15.02	14.89		
100	256QAM	1	1	14.74	14.99	14.82	15.9	0.0
Channel				649668	650000	662334		
Frequency (MHz)				3745.02	3840	3935.01	15.9	0.0
90	QPSK	1	1	14.94	15.05	15.03		
Channel				649334	650000	662668	15.9	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	14.98	15.10	14.98	15.9	0.0
Channel				649000	650000	663000		
Frequency (MHz)				3735	3840	3945	15.9	0.0
70	QPSK	1	1	14.98	15.11	15.05		
Channel				648668	650000	663334	15.9	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	14.98	15.06	14.94	15.9	0.0
Channel				648334	650000	663668		
Frequency (MHz)				3725.01	3840	3955.02	15.9	0.0
50	QPSK	1	1	15.01	15.02	15.00		
Channel				648000	650000	664000	15.9	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.00	15.06	15.02	15.9	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.02	3840	3965.01	15.9	0.0
30	QPSK	1	1	14.93	15.06	14.98		
Channel				647334	650000	664668	15.9	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	14.90	15.08	15.04	15.9	0.0
Channel				647168	650000	664934		
Frequency (MHz)				3707.52	3840	3972.51	15.9	0.0
15	QPSK	1	1	14.95	15.01	14.97		
Channel				647000	650000	665000	15.9	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	14.91	15.05	15.03	15.9	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000	18.9	0.0
Frequency (MHz)				3750	3840	3930		
100	PV2 BPSK	1	1	17.51	17.61	17.48	18.9	0.0
100	PV2 BPSK	1	137	17.50	17.54	17.50		
100	PV2 BPSK	1	271	17.50	17.62	17.45	18.9	0.0
100	PV2 BPSK	135	0	17.44	17.45	17.47		
100	PV2 BPSK	135	69	17.38	17.48	17.39	18.9	0.0
100	PV2 BPSK	135	138	17.36	17.60	17.39		
100	PV2 BPSK	270	0	17.56	17.66	17.56	18.9	0.0
100	QPSK	1	1	17.50	17.72	17.58		
100	QPSK	1	137	17.55	17.53	17.41	18.9	0.0
100	QPSK	1	271	17.40	17.56	17.45		
100	QPSK	135	0	17.33	17.48	17.30	18.9	0.0
100	QPSK	135	69	17.44	17.61	17.46		
100	QPSK	135	138	17.36	17.43	17.27	18.9	0.0
100	QPSK	270	0	17.42	17.50	17.48		
100	16QAM	1	1	17.53	17.62	17.47	18.9	0.0
100	64QAM	1	1	17.43	17.49	17.40		
100	256QAM	1	1	17.23	17.45	17.32	18.9	0.0
Channel				649668	650000	662334		
Frequency (MHz)				3745.02	3840	3935.01	18.9	0.0
90	QPSK	1	1	17.44	17.59	17.47		
Channel				649334	650000	662668	18.9	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.38	17.61	17.42	18.9	0.0
Channel				649000	650000	663000		
Frequency (MHz)				3735	3840	3945	18.9	0.0
70	QPSK	1	1	17.37	17.59	17.45		
Channel				648668	650000	663334	18.9	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.45	17.57	17.44	18.9	0.0
Channel				648334	650000	663668		
Frequency (MHz)				3725.01	3840	3955.02	18.9	0.0
50	QPSK	1	1	17.43	17.60	17.40		
Channel				648000	650000	664000	18.9	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.44	17.67	17.51	18.9	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.02	3840	3965.01	18.9	0.0
30	QPSK	1	1	17.34	17.63	17.52		
Channel				647334	650000	664668	18.9	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.36	17.57	17.48	18.9	0.0
Channel				647168	650000	664934		
Frequency (MHz)				3707.52	3840	3972.51	18.9	0.0
15	QPSK	1	1	17.36	17.64	17.49		
Channel				647000	650000	665000	18.9	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.44	17.64	17.45	18.9	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		14.97		15.9	0.0
100	PI/2 BPSK	1	137		14.93			
100	PI/2 BPSK	1	271		14.92			
100	PI/2 BPSK	135	0		14.88		15.9	0.0
100	PI/2 BPSK	135	69		14.98		15.9	0.0
100	PI/2 BPSK	135	138		14.97		15.9	0.0
100	PI/2 BPSK	270	0		15.05			
100	QPSK	1	1		15.09		15.9	0.0
100	QPSK	1	137		15.02			
100	QPSK	1	271		14.98			
100	QPSK	135	0		14.90		15.9	0.0
100	QPSK	135	69		15.03		15.9	0.0
100	QPSK	135	138		14.80		15.9	0.0
100	QPSK	270	0		14.86			
100	16QAM	1	1		14.98		15.9	0.0
100	64QAM	1	1		14.94		15.9	0.0
100	256QAM	1	1		14.97		15.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	14.91	14.97	14.94	15.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	14.89	14.99	14.96	15.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	14.88	14.91	14.98	15.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	14.85	14.94	14.98	15.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	14.88	15.01	14.96	15.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.80	14.94	14.90	15.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	14.83	14.98	14.96	15.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	14.80	14.93	14.96	15.9	0.0
Channel				647168	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	14.81	14.92	14.97	15.9	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	14.91	14.98	14.90	15.9	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.53		18.9	0.0
100	PI/2 BPSK	1	137		17.50			
100	PI/2 BPSK	1	271		17.45			
100	PI/2 BPSK	135	0		17.46		18.9	0.0
100	PI/2 BPSK	135	69		17.48		18.9	0.0
100	PI/2 BPSK	135	138		17.83		18.9	0.0
100	PI/2 BPSK	270	0		17.61			
100	QPSK	1	1		17.89		18.9	0.0
100	QPSK	1	137		17.62			
100	QPSK	1	271		17.55			
100	QPSK	135	0		17.48		18.9	0.0
100	QPSK	135	69		17.65		18.9	0.0
100	QPSK	135	138		17.41		18.9	0.0
100	QPSK	270	0		17.50			
100	16QAM	1	1		17.59		18.9	0.0
100	64QAM	1	1		17.62		18.9	0.0
100	256QAM	1	1		17.48		18.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.37	17.62	17.46	18.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.42	17.60	17.47	18.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.43	17.63	17.46	18.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.37	17.65	17.40	18.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.35	17.62	17.51	18.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.35	17.62	17.40	18.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.39	17.58	17.44	18.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.40	17.58	17.51	18.9	0.0
Channel				647168	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	17.42	17.58	17.52	18.9	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.43	17.64	17.45	18.9	0.0

n7 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000	17.8	0.0
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	16.71	16.76	16.80		
40	PI/2 BPSK	1	108	16.82	16.87	16.90		
40	PI/2 BPSK	1	214	16.93	16.98	16.91	17.8	0.0
40	PI/2 BPSK	108	0	16.47	16.60	16.53		
40	PI/2 BPSK	108	54	16.53	16.65	16.52		
40	PI/2 BPSK	108	108	16.49	16.62	16.48		
40	PI/2 BPSK	216	0	16.63	16.66	16.61	17.8	0.0
40	QPSK	1	1	16.66	16.64	16.77		
40	QPSK	1	108	16.36	16.66	16.43		
40	QPSK	1	214	16.52	16.56	16.52		
40	QPSK	108	0	16.43	16.55	16.40	17.8	0.0
40	QPSK	108	54	16.62	16.64	16.62		
40	QPSK	108	108	16.49	16.54	16.45		
40	QPSK	216	0	16.52	16.68	16.54		
40	16QAM	1	1	16.64	16.67	16.59	17.8	0.0
40	64QAM	1	1	16.54	16.64	16.60		
40	256QAM	1	1	16.45	16.55	16.39		
Channel				503000	507000	510000	17.8	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	16.65	16.77	16.70		
Channel				502500	507000	511500	17.8	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	16.62	16.74	16.64		
Channel				502000	507000	512000	17.8	0.0
Frequency (MHz)				2510	2535	2550		
20	PI/2 BPSK	1	1	16.56	16.70	16.62		
Channel				501500	507000	512500	17.8	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.64	16.79	16.64		
Channel				501000	507000	513000	17.8	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.54	16.71	16.74		
Channel				500500	507000	513500	17.8	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	16.64	16.75	16.65		

n66 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	19.5	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	18.51	18.52	18.38		
40	PI/2 BPSK	1	108	18.42	18.47	18.42		
40	PI/2 BPSK	1	214	18.28	18.42	18.35	19.5	0.0
40	PI/2 BPSK	108	0	18.22	18.38	18.36		
40	PI/2 BPSK	108	54	18.34	18.42	18.29		
40	PI/2 BPSK	108	108	18.25	18.42	18.35		
40	PI/2 BPSK	216	0	18.39	18.50	18.37	19.5	0.0
40	QPSK	1	1	18.51	18.62	18.54		
40	QPSK	1	108	18.44	18.43	18.29		
40	QPSK	1	214	18.32	18.32	18.38		
40	QPSK	108	0	18.21	18.34	18.27	19.5	0.0
40	QPSK	108	54	18.47	18.50	18.49		
40	QPSK	108	108	18.30	18.37	18.26		
40	QPSK	216	0	18.32	18.46	18.40		
40	16QAM	1	1	18.50	18.51	18.39	19.5	0.0
40	64QAM	1	1	18.31	18.44	18.45		
40	256QAM	1	1	18.29	18.40	18.24		
Channel				345000	349000	353000	19.5	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	18.44	18.58	18.49		
Channel				344000	349000	354000	19.5	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	18.41	18.54	18.49		
Channel				343000	349000	355000	19.5	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.47	18.55	18.47		
Channel				343000	349000	355000	19.5	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.48	18.47	18.46		
Channel				342500	349000	355500	19.5	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.44	18.57	18.43		



n38 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	19.3	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	Pi2 BPSK	1	1	17.93	18.01	17.83		
40	Pi2 BPSK	1	53	17.82	17.88	17.83		
40	Pi2 BPSK	1	104	17.71	17.82	17.81		
40	QPSK	50	0	17.61	17.70	17.57	19.3	0.0
40	Pi2 BPSK	50	28	17.83	17.93	17.81	19.3	0.0
40	Pi2 BPSK	50	56	17.66	17.80	17.69		
40	Pi2 BPSK	100	0	17.62	17.78	17.78	19.3	0.0
40	QPSK	1	1	17.85	18.06	17.77		
40	QPSK	1	53	17.78	17.87	17.81		
40	QPSK	1	104	17.68	17.78	17.78		
40	QPSK	50	0	17.70	17.71	17.74		
40	QPSK	50	28	17.78	17.93	17.85	19.3	0.0
40	QPSK	50	56	17.72	17.76	17.67	19.3	0.0
40	QPSK	100	0	17.78	17.89	17.71		
40	16QAM	1	1	17.79	17.84	17.79	19.3	0.0
40	64QAM	1	1	17.75	17.81	17.64	19.3	0.0
40	256QAM	1	1	17.74	17.70	17.62	19.3	0.0
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	19.3	0.0
30	QPSK	1	1	17.80	17.84	17.81	19.3	0.0
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48	19.3	0.0
25	QPSK	1	1	17.80	17.94	17.71	19.3	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	19.3	0.0
20	QPSK	1	1	17.76	17.88	17.76	19.3	0.0
Channel				515502	518000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	17.77	17.89	17.82		
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	19.3	0.0
15	QPSK	1	1	17.80	17.94	17.71	24.5	0.0

n41 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PV2 BPSK	1	1	18.00	18.08	17.90	19.3	0.0
100	PV2 BPSK	1	137	17.92	17.97	17.87		
100	PV2 BPSK	1	271	17.85	17.97	17.84		
100	PV2 BPSK	135	0	17.75	17.83	17.68		
100	PV2 BPSK	135	69	17.90	18.01	17.93		
100	PV2 BPSK	135	138	17.76	17.86	17.74	19.3	0.0
100	PV2 BPSK	270	0	17.70	17.85	17.86		
100	QPSK	1	1	17.98	18.10	17.92	19.3	0.0
100	QPSK	1	137	17.82	17.94	17.91		
100	QPSK	1	271	17.81	17.92	17.90		
100	QPSK	135	0	17.83	17.84	17.78		
100	QPSK	135	69	17.92	18.02	17.94		
100	QPSK	135	138	17.76	17.85	17.74	19.3	0.0
100	QPSK	270	0	17.90	17.98	17.85		
100	16QAM	1	1	17.84	17.97	17.90	19.3	0.0
100	64QAM	1	1	17.87	17.89	17.78	19.3	0.0
100	256QAM	1	1	17.77	17.84	17.65	19.3	0.0
Channel				508500	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	19.3	0.0
90	QPSK	1	1	17.86	18.00	17.79	19.3	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	19.3	0.0
80	QPSK	1	1	17.88	18.06	17.82	19.3	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	19.3	0.0
70	QPSK	1	1	17.90	18.08	17.78	19.3	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528	2592.99	2659.98	19.3	0.0
60	QPSK	1	1	17.88	17.97	17.84	19.3	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	19.3	0.0
50	QPSK	1	1	17.93	18.03	17.85	19.3	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670	19.3	0.0
40	QPSK	1	1	17.85	17.98	17.79	19.3	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	19.3	0.0
30	QPSK	1	1	17.91	18.03	17.80	19.3	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	19.3	0.0
20	QPSK	1	1	17.89	18.01	17.97	19.3	0.0

n41 HPUE Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	22.3	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	Pi2 BPSK	1	1	20.95	21.02	21.00		
100	Pi2 BPSK	1	137	20.92	20.95	20.84		
100	Pi2 BPSK	1	271	20.85	20.94	20.90		
100	Pi2 BPSK	135	0	20.73	20.89	20.66	22.3	0.0
100	Pi2 BPSK	135	69	20.96	21.02	21.00	22.3	0.0
100	Pi2 BPSK	135	138	20.80	20.88	20.77	22.3	0.0
100	Pi2 BPSK	270	0	20.68	20.85	20.82		
100	QPSK	1	1	21.02	21.06	20.94		
100	QPSK	1	137	20.85	20.91	20.92		
100	QPSK	1	271	20.78	20.94	20.89		
100	QPSK	135	0	20.90	20.80	20.83	22.3	0.0
100	QPSK	135	69	20.94	21.00	20.96	22.3	0.0
100	QPSK	135	138	20.77	20.88	20.73	22.3	0.0
100	QPSK	270	0	20.87	20.92	20.85		
100	16QAM	1	1	20.84	21.02	20.94		
100	64QAM	1	1	20.84	20.91	20.79		
100	256QAM	1	1	20.80	20.85	20.64		
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	22.3	0.0
90	QPSK	1	1	20.91	21.01	20.86	22.3	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	22.3	0.0
80	QPSK	1	1	20.96	21.00	20.88	22.3	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	22.3	0.0
70	QPSK	1	1	20.93	20.97	20.88	22.3	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2528	2592.99	2659.98		
60	QPSK	1	1	20.93	21.03	20.84		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	22.3	0.0
50	QPSK	1	1	20.97	20.92	20.79	22.3	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670	22.3	0.0
40	QPSK	1	1	20.92	20.95	20.79	22.3	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.91	20.88	20.83		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	22.3	0.0
20	QPSK	1	1	20.98	20.99	20.84	22.3	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000	15.1	0.0
Frequency (MHz)				3750	3840	3950		
100	PV2 BPSK	1	1	14.16	14.20	14.10		
100	PV2 BPSK	1	137	14.07	14.12	14.00		
100	PV2 BPSK	1	271	14.09	14.16	14.05	15.1	0.0
100	PV2 BPSK	135	0	13.98	14.08	14.00		
100	PV2 BPSK	135	69	14.10	14.20	14.06		
100	PV2 BPSK	135	138	13.94	14.07	13.98		
100	PV2 BPSK	270	0	14.02	14.11	13.98	15.1	0.0
100	QPSK	1	1	14.16	14.26	14.20		
100	QPSK	1	137	14.13	14.22	14.15		
100	QPSK	1	271	14.05	14.12	14.08		
100	QPSK	135	0	14.10	14.18	14.14	15.1	0.0
100	QPSK	135	69	14.11	14.20	14.17		
100	QPSK	135	138	14.07	14.10	14.05		
100	QPSK	270	0	14.05	14.13	14.07		
100	16QAM	1	1	14.18	14.21	14.11	15.1	0.0
100	64QAM	1	1	14.08	14.17	14.04		
100	256QAM	1	1	13.98	14.07	14.00		
Channel				649668	650000	662334	15.1	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	14.02	14.13	14.08		
Channel				649334	650000	662668	15.1	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	14.12	14.12	14.11		
Channel				649000	650000	663000	15.1	0.0
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	14.04	14.15	14.12		
Channel				648668	650000	663334	15.1	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	14.06	14.19	14.13		
Channel				648334	650000	663668	15.1	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	14.12	14.18	14.10		
Channel				648000	650000	663000	15.1	0.0
Frequency (MHz)				3720	3840	3950		
40	QPSK	1	1	14.03	14.21	14.15		
Channel				647668	650000	664334	15.1	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	14.11	14.17	14.15		
Channel				647334	650000	664668	15.1	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	14.07	14.20	14.07		
Channel				647168	650000	664834	15.1	0.0
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	14.09	14.10	14.11		
Channel				647000	650000	665000	15.1	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	14.05	14.14	14.08		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000	18.1	0.0
Frequency (MHz)				3750	3840	3950		
100	PV2 BPSK	1	1	17.22	17.34	17.21		
100	PV2 BPSK	1	137	17.16	17.18	17.14		
100	PV2 BPSK	1	271	17.20	17.32	17.15	18.1	0.0
100	PV2 BPSK	135	0	17.11	17.15	17.09		
100	PV2 BPSK	135	69	17.26	17.36	17.15		
100	PV2 BPSK	135	138	17.06	17.18	17.08		
100	PV2 BPSK	270	0	17.16	17.28	17.10	18.1	0.0
100	QPSK	1	1	17.22	17.41	17.33		
100	QPSK	1	137	17.29	17.36	17.26		
100	QPSK	1	271	17.13	17.20	17.19		
100	QPSK	135	0	17.18	17.27	17.22	18.1	0.0
100	QPSK	135	69	17.27	17.35	17.25		
100	QPSK	135	138	17.21	17.23	17.17		
100	QPSK	270	0	17.19	17.26	17.20		
100	16QAM	1	1	17.29	17.30	17.28	18.1	0.0
100	64QAM	1	1	17.14	17.31	17.14		
100	256QAM	1	1	17.02	17.15	17.11		
Channel				649668	650000	662334	18.1	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.11	17.32	17.21		
Channel				649334	650000	662668	18.1	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.16	17.37	17.25		
Channel				649000	650000	663000	18.1	0.0
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.18	17.30	17.24		
Channel				648668	650000	663334	18.1	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.15	17.37	17.24		
Channel				648334	650000	663668	18.1	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.17	17.32	17.19		
Channel				648000	650000	664000	18.1	0.0
Frequency (MHz)				3720	3840	3950		
40	QPSK	1	1	17.18	17.28	17.20		
Channel				647668	650000	664334	18.1	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.10	17.30	17.24		
Channel				647334	650000	664668	18.1	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.08	17.31	17.27		
Channel				647168	650000	664834	18.1	0.0
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.16	17.32	17.28		
Channel				647000	650000	665000	18.1	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.19	17.26	17.24		

Part27O n78 Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		14.06		15.1	0.0
100	PI/2 BPSK	1	137		13.98			
100	PI/2 BPSK	1	271		13.99		15.1	0.0
100	PI/2 BPSK	135	0		13.85			
100	PI/2 BPSK	135	69		13.93		15.1	0.0
100	PI/2 BPSK	135	138		13.88			
100	PI/2 BPSK	270	0		13.98		15.1	0.0
100	QPSK	1	1		14.11			
100	QPSK	1	137		14.06		15.1	0.0
100	QPSK	1	271		13.94			
100	QPSK	135	0		13.92		15.1	0.0
100	QPSK	135	69		13.98			
100	QPSK	135	138		13.92		15.1	0.0
100	QPSK	270	0		14.02			
100	16QAM	1	1		13.94		15.1	0.0
100	64QAM	1	1		13.89			
100	256QAM	1	1		13.94		15.1	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	13.93	14.06	14.02		
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	13.99	14.04	13.99	15.1	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	13.94	14.05	14.02		
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	13.91	14.09	13.96	15.1	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	13.95	14.06	14.03		
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	13.95	14.07	13.96	15.1	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	13.96	14.05	14.02		
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	13.99	14.00	14.03	15.1	0.0
Channel				647000	650000	652334		
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	13.93	14.02	14.05		
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	13.88	14.05	13.98	15.1	0.0

Part27O n78 HPUE Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.27		18.1	0.0
100	PI/2 BPSK	1	137		17.20			
100	PI/2 BPSK	1	271		17.13		18.1	0.0
100	PI/2 BPSK	135	0		17.13			
100	PI/2 BPSK	135	69		17.13		18.1	0.0
100	PI/2 BPSK	135	138		17.10			
100	PI/2 BPSK	270	0		17.13		18.1	0.0
100	QPSK	1	1		17.29			
100	QPSK	1	137		17.26		18.1	0.0
100	QPSK	1	271		17.09			
100	QPSK	135	0		17.08		18.1	0.0
100	QPSK	135	69		17.20			
100	QPSK	135	138		17.18		18.1	0.0
100	QPSK	270	0		17.20			
100	16QAM	1	1		17.22		18.1	0.0
100	64QAM	1	1		17.07			
100	256QAM	1	1		17.10		18.1	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.98	17.24	17.12		
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.07	17.18	17.12	18.1	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	17.05	17.22	17.07		
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.96	17.27	17.10	18.1	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	17.00	17.25	17.15		
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.96	17.24	17.07	18.1	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.07	17.21	17.08		
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.03	17.18	17.11	18.1	0.0
Channel				647000	650000	652334		
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.03	17.26	17.07		
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.04	17.20	17.09	18.1	0.0



Reduced Power Mode for DS12 Simultaneous

n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				831.5	836.5	837		
20	P12 BPSK	1	1	23.18	23.23	23.13	24.0	0.0
20	P12 BPSK	1	53	23.04	23.14	23.06		
20	P12 BPSK	1	104	22.98	23.06	22.94		
20	P12 BPSK	50	0	22.85	22.76	22.73	23.5	0.5
20	P12 BPSK	50	28	23.08	23.18	23.11	24.0	0.0
20	P12 BPSK	50	56	22.59	22.64	22.51	23.5	0.5
20	P12 BPSK	100	0	22.66	22.70	22.63		
20	QPSK	1	1	23.23	23.27	23.18	24.0	0.0
20	QPSK	1	53	23.11	23.18	23.13		
20	QPSK	1	104	22.98	23.06	22.98		
20	QPSK	50	0	22.14	22.28	22.21	23.0	1.0
20	QPSK	50	28	23.15	23.21	23.08	24.0	0.0
20	QPSK	50	56	22.14	22.18	22.06	23.0	1.0
20	QPSK	100	0	22.17	22.23	22.13		
20	16QAM	1	1	22.39	22.48	22.42	23.0	1.0
20	64QAM	1	1	20.73	20.86	20.79	21.5	2.5
20	256QAM	1	1	18.89	19.01	18.96	19.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.11	23.18	23.08	24.0	0.0
Channel				165200	167300	165300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.13	23.15	23.02	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				841.5	836.5	843.5		
5	QPSK	1	1	23.17	23.23	23.04	24.0	0.0

n7 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2520		
40	P12 BPSK	1	1	21.80	21.91	21.85	23.0	0.0
40	P12 BPSK	1	108	21.74	21.88	21.81		
40	P12 BPSK	1	214	21.74	21.80	21.68		
40	P12 BPSK	108	0	21.38	21.44	21.37	22.5	0.5
40	P12 BPSK	108	54	21.79	21.87	21.75	23.0	0.0
40	P12 BPSK	108	108	21.38	21.49	21.37	22.5	0.5
40	P12 BPSK	216	0	21.39	21.42	21.34		
40	QPSK	1	1	21.92	21.96	21.89	23.0	0.0
40	QPSK	1	108	21.78	21.92	21.82		
40	QPSK	1	214	21.74	21.85	21.80		
40	QPSK	108	0	20.87	20.97	20.87	22.0	1.0
40	QPSK	108	54	21.86	21.90	21.85	23.0	0.0
40	QPSK	108	108	20.80	20.89	20.80	22.0	1.0
40	QPSK	216	0	20.81	20.94	20.84		
40	16QAM	1	1	20.73	20.86	20.77	22.0	1.0
40	64QAM	1	1	19.27	19.41	19.36	20.5	2.5
40	256QAM	1	1	17.30	17.38	17.23	18.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.77	21.88	21.80	23.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.81	21.83	21.76	23.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2550		
20	P12 BPSK	1	1	21.88	21.92	21.79	23.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.80	21.90	21.75	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.88	21.84	21.78	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.83	21.88	21.70	23.0	0.0

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1740		
40	P12 BPSK	1	1	22.14	22.27	22.17	23.0	0.0
40	P12 BPSK	1	108	22.07	22.22	22.11		
40	P12 BPSK	1	214	22.08	22.16	22.12		
40	P12 BPSK	108	0	21.68	21.86	21.82	22.5	0.5
40	P12 BPSK	108	54	22.02	22.20	22.13	23.0	0.0
40	P12 BPSK	108	108	21.99	21.81	21.78	22.5	0.5
40	P12 BPSK	216	0	21.74	21.94	21.85		
40	QPSK	1	1	22.23	22.35	22.31	23.0	0.0
40	QPSK	1	108	22.04	22.26	22.14		
40	QPSK	1	214	22.02	22.21	22.07		
40	QPSK	108	0	21.13	21.38	21.24	22.0	1.0
40	QPSK	108	54	22.15	22.29	22.24	23.0	0.0
40	QPSK	108	108	21.24	21.48	21.35	22.0	1.0
40	QPSK	216	0	21.26	21.43	21.29		
40	16QAM	1	1	20.96	21.11	21.01	22.0	1.0
40	64QAM	1	1	19.67	19.93	19.81	20.5	2.5
40	256QAM	1	1	17.59	17.85	17.73	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.11	22.27	22.20	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.16	22.31	22.24	23.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.16	22.29	22.24	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.19	22.22	22.17	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.16	22.29	22.21	23.0	0.0



n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PI2 BPSK	1	1	21.54	21.76	21.72			
40	PI2 BPSK	1	53	21.64	21.72	21.66	23.0	0.0	
40	PI2 BPSK	1	104	21.44	21.61	21.52			
40	PI2 BPSK	50	0	20.90	21.01	20.98	22.5	0.5	
40	PI2 BPSK	50	28	21.50	21.75	21.50	23.0	0.0	
40	PI2 BPSK	50	56	20.91	21.03	21.00	22.5	0.5	
40	PI2 BPSK	100	0	20.90	21.02	21.01			
40	QPSK	1	1	21.79	21.83	21.82			
40	QPSK	1	53	21.55	21.71	21.61	23.0	0.0	
40	QPSK	1	104	21.45	21.70	21.52			
40	QPSK	50	0	20.51	20.73	20.55	22.0	1.0	
40	QPSK	50	28	21.62	21.76	21.68	23.0	0.0	
40	QPSK	50	56	20.46	20.62	20.54	22.0	1.0	
40	QPSK	100	0	20.57	20.62	20.58			
40	16QAM	1	1	20.46	20.68	20.53	22.0	1.0	
40	64QAM	1	1	19.09	19.28	19.14	20.5	2.5	
40	256QAM	1	1	17.21	17.44	17.34	18.5	4.5	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	21.74	21.76	21.75	23.0	0.0	
Channel				516504	518000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	21.70	21.69	21.69	23.0	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.65	21.70	21.79	23.0	0.0	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.71	21.73	21.72	23.0	0.0	
Channel				515004	518000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	21.65	21.69	21.67	23.0	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	21.70	21.82	21.78			
100	PI2 BPSK	1	137	21.72	21.77	21.68	23.0	0.0	
100	PI2 BPSK	1	271	21.60	21.71	21.57			
100	PI2 BPSK	135	0	20.08	20.17	20.08	22.5	0.5	
100	PI2 BPSK	135	69	21.67	21.74	21.62	23.0	0.0	
100	PI2 BPSK	135	138	20.28	20.33	20.25	22.5	0.5	
100	PI2 BPSK	270	0	20.12	20.24	20.17			
100	QPSK	1	1	21.74	21.86	21.81			
100	QPSK	1	137	21.71	21.80	21.73	23.0	0.0	
100	QPSK	1	271	21.67	21.73	21.70			
100	QPSK	135	0	20.41	20.47	20.40	22.0	1.0	
100	QPSK	135	69	21.69	21.78	21.75	23.0	0.0	
100	QPSK	135	138	20.41	20.50	20.41	22.0	1.0	
100	QPSK	270	0	20.45	20.56	20.47			
100	16QAM	1	1	20.48	20.54	20.49	22.0	1.0	
100	64QAM	1	1	18.91	18.97	18.92	20.5	2.5	
100	256QAM	1	1	16.61	16.68	16.68	18.5	4.5	
Channel				506200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.61	21.69	21.59	23.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	21.59	21.68	21.70	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.65	21.73	21.60	23.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	21.62	21.65	21.68	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.61	21.67	21.62	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.65	21.73	21.65	23.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	21.59	21.66	21.61	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.57	21.65	21.68	23.0	0.0	

n41 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	24.81	24.88	24.78			
100	PI2 BPSK	1	137	24.72	24.81	24.76	26.0	0.0	
100	PI2 BPSK	1	271	24.71	24.75	24.64			
100	PI2 BPSK	135	0	24.37	24.43	24.39	25.5	0.5	
100	PI2 BPSK	135	69	24.73	24.80	24.72	26.0	0.0	
100	PI2 BPSK	135	138	24.43	24.47	24.38	25.5	0.5	
100	PI2 BPSK	270	0	24.45	24.51	24.38			
100	QPSK	1	1	24.84	24.92	24.89			
100	QPSK	1	137	24.72	24.85	24.82	26.0	0.0	
100	QPSK	1	271	24.67	24.79	24.66			
100	QPSK	135	0	23.92	24.01	23.88	25.0	1.0	
100	QPSK	135	69	24.76	24.86	24.76	26.0	0.0	
100	QPSK	135	138	23.98	24.01	23.96	25.0	1.0	
100	QPSK	270	0	24.04	24.08	24.01			
100	16QAM	1	1	24.08	24.13	24.10	25.0	1.0	
100	64QAM	1	1	22.14	22.28	22.10	23.5	2.5	
100	256QAM	1	1	20.21	20.35	20.29	21.5	4.5	
Channel				506200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	24.71	24.86	24.81	26.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	24.77	24.85	24.85	26.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	24.73	24.82	24.76	26.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	24.70	24.86	24.80	26.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	24.74	24.83	24.83	26.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.72	24.87	24.83	26.0	0.0	

Part270 n77 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				655000	655000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.24	20.37	20.26	21.0	0.0	
100	PI/2 BPSK	1	137	20.20	20.33	20.22			
100	PI/2 BPSK	1	271	20.15	20.28	20.22			
100	PI/2 BPSK	135	0	18.72	18.78	18.74			
100	PI/2 BPSK	135	69	20.22	20.31	20.19	21.0	0.0	
100	PI/2 BPSK	135	138	18.63	18.78	18.67	20.5	0.5	
100	PI/2 BPSK	270	0	18.80	18.88	18.80	21.0	0.0	
100	QPSK	1	1	20.37	20.43	20.31			
100	QPSK	1	137	20.19	20.35	20.25			
100	QPSK	1	271	20.13	20.31	20.20			
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0	
100	QPSK	135	69	20.20	20.38	20.27	21.0	0.0	
100	QPSK	135	138	18.84	18.96	18.81	20.0	1.0	
100	QPSK	270	0	18.81	19.02	18.88	20.0	1.0	
100	16QAM	1	1	18.80	18.88	18.60			
100	64QAM	1	1	17.49	17.65	17.53			
100	256QAM	1	1	15.22	15.32	15.26			
Channel				649968	655000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.28	20.38	20.30	21.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.19	20.29	20.31	21.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.23	20.38	20.32	21.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.19	20.28	20.30	21.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.28	20.37	20.25	21.0	0.0	
Channel				648000	655000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.24	20.30	20.31	21.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	20.20	20.28	20.26	21.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.22	20.28	20.24	21.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.19	20.36	20.30	21.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.28	20.34	20.28	21.0	0.0	

Part270 n77 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	660000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.33	23.39	23.29	24.0	0.0	
100	PI/2 BPSK	1	137	23.23	23.33	23.26			
100	PI/2 BPSK	1	271	23.14	23.27	23.23			
100	PI/2 BPSK	135	0	22.79	22.88	22.84			
100	PI/2 BPSK	135	69	23.28	23.34	23.20	24.0	0.0	
100	PI/2 BPSK	135	138	22.86	22.90	22.79	23.5	0.5	
100	PI/2 BPSK	270	0	22.88	22.94	22.82		0.0	
100	QPSK	1	1	23.36	23.42	23.32			
100	QPSK	1	137	23.28	23.35	23.25			
100	QPSK	1	271	23.21	23.31	23.22			
100	QPSK	135	0	22.21	22.34	22.28	23.0	1.0	
100	QPSK	135	69	23.22	23.38	23.28	24.0	0.0	
100	QPSK	135	138	22.34	22.39	22.34	23.0	1.0	
100	QPSK	270	0	22.32	22.45	22.39	23.0	1.0	
100	16QAM	1	1	22.46	22.57	22.51			
100	64QAM	1	1	20.74	20.88	20.77			
100	256QAM	1	1	18.58	18.67	18.63			
Channel				649968	655000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.28	23.35	23.24	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.31	23.34	23.27	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.29	23.37	23.29	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.25	23.38	23.18	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.25	23.28	23.27	24.0	0.0	
Channel				648000	655000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.29	23.30	23.18	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	23.24	23.38	23.19	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.31	23.28	23.25	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.31	23.32	23.21	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.28	23.29	23.25	24.0	0.0	

Part270 n78 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	21.0	0.0	
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		20.31		21.0	0.0	
100	PI/2 BPSK	1	137		20.27				
100	PI/2 BPSK	1	271		20.22				
100	PI/2 BPSK	135	0		19.13				
100	PI/2 BPSK	135	69		20.25		21.0	0.0	
100	PI/2 BPSK	135	138		19.01		20.5	0.5	
100	PI/2 BPSK	270	0		19.07		21.0	0.0	
100	QPSK	1	1		20.35				
100	QPSK	1	137		20.30				
100	QPSK	1	271		20.17				
100	QPSK	135	0		18.82		20.0	1.0	
100	QPSK	135	69		20.29		21.0	0.0	
100	QPSK	135	138		18.67		20.0	1.0	
100	QPSK	270	0		18.72		20.0	1.0	
100	16QAM	1	1		18.84				
100	64QAM	1	1		17.98				
100	256QAM	1	1		15.33				
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.19	20.24	20.14	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.23	20.28	20.11	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.15	20.28	20.18	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.19	20.25	20.13	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.24	20.27	20.13	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.20	20.26	20.19	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	20.27	20.30	20.08	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3750	3730.02			
20	QPSK	1	1	20.25	20.24	20.08	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3750	3725.51			
15	QPSK	1	1	20.22	20.27	20.19	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.16	20.23	20.20	21.0	0.0	

Part270 n78 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	24.0	0.0	
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.17		24.0	0.0	
100	PI/2 BPSK	1	137		23.08				
100	PI/2 BPSK	1	271		23.02				
100	PI/2 BPSK	135	0		22.52				
100	PI/2 BPSK	135	69		23.09		24.0	0.0	
100	PI/2 BPSK	135	138		22.46		23.5	0.5	
100	PI/2 BPSK	270	0		22.53		24.0	0.0	
100	QPSK	1	1		23.21				
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.04				
100	QPSK	135	0		22.01		23.0	1.0	
100	QPSK	135	69		23.14		24.0	0.0	
100	QPSK	135	138		21.85		23.0	1.0	
100	QPSK	270	0		22.02		23.0	1.0	
100	16QAM	1	1		22.03				
100	64QAM	1	1		20.85				
100	256QAM	1	1		18.88				
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.11	23.15	23.05	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.05	23.18	23.02	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.13	23.18	22.97	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.12	23.08	22.98	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.05	23.08	22.94	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.12	23.06	23.04	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	23.11	23.17	23.03	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3750	3730.02			
20	QPSK	1	1	23.09	23.14	23.01	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3750	3725.51			
15	QPSK	1	1	23.11	23.18	23.00	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.09	23.16	22.94	24.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	23.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	21.69	21.83	21.79			
20	PI2 BPSK	1	53	21.73	21.78	21.67	22.5	0.5	
20	PI2 BPSK	1	104	21.61	21.70	21.66			
20	PI2 BPSK	50	0	21.34	21.41	21.34			
20	PI2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0	
20	PI2 BPSK	50	58	21.24	21.34	21.20			
20	PI2 BPSK	100	0	21.35	21.40	21.28			
20	QPSK	1	1	21.83	21.86	21.76	23.0	0.0	
20	QPSK	1	53	21.71	21.82	21.70			
20	QPSK	1	104	21.65	21.76	21.61			
20	QPSK	50	0	20.79	20.87	20.76	22.0	1.0	
20	QPSK	50	28	21.68	21.81	21.76			
20	QPSK	50	58	20.70	20.84	20.75			
20	QPSK	100	0	20.77	20.90	20.80	22.0	1.0	
20	16QAM	1	1	21.22	21.28	21.13			
20	64QAM	1	1	19.46	19.57	19.45		20.5	
20	256QAM	1	1	17.39	17.51	17.41	18.5	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	23.0	0.0	
15	QPSK	1	1	21.72	21.78	21.64			
Channel				165800	167300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844	23.0	0.0	
10	QPSK	1	1	21.76	21.81	21.66			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	23.0	0.0	
5	QPSK	1	1	21.77	21.84	21.69			

n7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	510000	24.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	22.80	22.86	22.80			
40	PI2 BPSK	1	108	22.71	22.81	22.69	23.5	0.5	
40	PI2 BPSK	1	214	22.70	22.77	22.73			
40	PI2 BPSK	108	0	22.37	22.44	22.37			
40	PI2 BPSK	108	54	22.66	22.79	22.65	24.0	0.0	
40	PI2 BPSK	108	108	22.29	22.41	22.38			
40	PI2 BPSK	216	0	22.37	22.46	22.41			
40	QPSK	1	1	22.86	22.93	22.94	24.0	0.0	
40	QPSK	1	108	22.80	22.88	22.75			
40	QPSK	1	214	22.74	22.83	22.73			
40	QPSK	108	0	21.94	22.01	21.97	23.0	1.0	
40	QPSK	108	54	22.80	22.87	22.62			
40	QPSK	108	108	22.00	22.06	21.94			
40	QPSK	216	0	22.08	22.13	22.00	23.0	1.0	
40	16QAM	1	1	22.12	22.16	22.05			
40	64QAM	1	1	20.55	20.59	20.52		21.5	
40	256QAM	1	1	18.52	18.67	18.59	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	24.0	0.0	
30	QPSK	1	1	22.81	22.79	22.73			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0	
25	QPSK	1	1	22.80	22.87	22.77			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	24.0	0.0	
20	PI2 BPSK	1	1	22.75	22.85	22.81			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0	
15	QPSK	1	1	22.74	22.81	22.73			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.0	0.0	
10	QPSK	1	1	22.79	22.83	22.70			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0	
5	QPSK	1	1	22.74	22.88	22.80			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.35	22.46	22.40			
40	PI2 BPSK	1	108	22.31	22.41	22.34	23.5	0.5	
40	PI2 BPSK	1	214	22.32	22.36	22.30			
40	PI2 BPSK	108	0	22.01	22.06	22.00			
40	PI2 BPSK	108	54	22.37	22.41	22.28	24.0	0.0	
40	PI2 BPSK	108	108	21.96	22.03	21.98			
40	PI2 BPSK	216	0	22.00	22.07	22.02			
40	QPSK	1	1	22.46	22.54	22.42	24.0	0.0	
40	QPSK	1	108	22.43	22.48	22.45			
40	QPSK	1	214	22.35	22.42	22.29			
40	QPSK	108	0	21.52	21.67	21.54	23.0	1.0	
40	QPSK	108	54	22.40	22.50	22.38			
40	QPSK	108	108	21.85	21.72	21.62			
40	QPSK	216	0	21.67	21.77	21.73	23.0	1.0	
40	16QAM	1	1	21.61	21.69	21.65			
40	64QAM	1	1	19.79	19.93	19.80		21.5	
40	256QAM	1	1	18.00	18.05	18.01	19.5	4.5	
Channel				345000	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	22.42	22.45	22.30			
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	22.44	22.50	22.35			
Channel				343000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	22.41	22.49	22.37			
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	22.43	22.46	22.31			
Channel				342600	348000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	22.34	22.42	22.31			



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2580.02	2595	2599.98			
40	PV2 BPSK	1	1	22.65	22.78	22.72	24.0	0.0	
40	PV2 BPSK	1	53	22.68	22.72	22.58			
40	PV2 BPSK	1	104	22.56	22.67	22.59			
40	PV2 BPSK	50	0	21.58	21.68	21.60	23.5	0.5	
40	PV2 BPSK	50	28	22.66	22.71	22.64	23.0	0.0	
40	PV2 BPSK	50	56	21.64	21.74	21.63	23.5	0.5	
40	PV2 BPSK	100	0	21.70	21.80	21.70	24.0	0.0	
40	QPSK	1	1	22.72	22.84	22.77			
40	QPSK	1	53	22.68	22.79	22.65			
40	QPSK	1	104	22.63	22.73	22.63	23.0	1.0	
40	QPSK	50	0	21.72	21.78	21.68			
40	QPSK	50	28	22.72	22.78	22.71			
40	QPSK	50	56	21.74	21.85	21.72	23.0	1.0	
40	QPSK	100	0	21.76	21.85	21.84	23.0	1.0	
40	16QAM	1	1	21.60	21.72	21.62			
40	64QAM	1	1	20.36	20.49	20.35	21.5	2.5	
40	256QAM	1	1	18.26	18.31	18.24	19.5	4.5	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR	(dB)
30	QPSK	1	1	22.66	22.72	22.68	24.0	0.0	
Channel				516504	518000	521496	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	22.64	22.79	22.69	24.0	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.63	22.80	22.71	24.0	0.0	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.69	22.76	22.65	24.0	0.0	
Channel				515004	518000	522996	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.62	22.74	22.69	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				509202	518598	529000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	22.84	22.90	22.78	24.0	0.0	
100	PV2 BPSK	1	137	22.72	22.85	22.81			
100	PV2 BPSK	1	271	22.73	22.81	22.67			
100	PV2 BPSK	135	0	21.53	21.54	21.60	23.5	0.5	
100	PV2 BPSK	135	69	22.71	22.83	22.71	24.0	0.0	
100	PV2 BPSK	135	138	21.52	21.62	21.57	23.5	0.5	
100	PV2 BPSK	270	0	21.63	21.68	21.57	24.0	0.0	
100	QPSK	1	1	22.93	22.97	22.88			
100	QPSK	1	137	22.85	22.92	22.80			
100	QPSK	1	271	22.84	22.88	22.83	23.0	1.0	
100	QPSK	135	0	21.63	21.73	21.69			
100	QPSK	135	69	22.84	22.91	22.78			
100	QPSK	135	138	21.69	21.80	21.71	23.0	1.0	
100	QPSK	270	0	21.83	21.85	21.75	23.0	1.0	
100	16QAM	1	1	21.80	21.82	21.75			
100	64QAM	1	1	20.56	20.69	20.55	21.5	2.5	
100	256QAM	1	1	18.46	18.51	18.44	19.5	4.5	
Channel				508200	518598	529996	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.82	22.89	22.85	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.82	22.88	22.84	24.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.79	22.92	22.80	24.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	22.79	22.93	22.84	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.79	22.84	22.79	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.84	22.89	22.83	24.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.88	22.94	22.75	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.84	22.90	22.77	24.0	0.0	

n41 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518598	529000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	25.92	25.96	25.89	27.0	0.0	
100	PV2 BPSK	1	137	25.85	25.92	25.83			
100	PV2 BPSK	1	271	25.76	25.86	25.75			
100	PV2 BPSK	135	0	25.34	25.44	25.38	26.5	0.5	
100	PV2 BPSK	135	69	25.87	25.91	25.87	27.0	0.0	
100	PV2 BPSK	135	138	25.35	25.39	25.24	26.5	0.5	
100	PV2 BPSK	270	0	25.38	25.42	25.28	27.0	0.0	
100	QPSK	1	1	25.98	26.01	25.91			
100	QPSK	1	137	25.87	25.95	25.87			
100	QPSK	1	271	25.79	25.89	25.78	26.0	1.0	
100	QPSK	135	0	24.97	25.04	24.92			
100	QPSK	135	69	25.92	25.98	25.87			
100	QPSK	135	138	25.18	25.22	25.18	26.0	1.0	
100	QPSK	270	0	25.18	25.27	25.13	26.0	1.0	
100	16QAM	1	1	24.84	24.95	24.82			
100	64QAM	1	1	23.93	24.00	23.85	24.5	2.5	
100	256QAM	1	1	21.60	21.68	21.63	22.5	4.5	
Channel				508000	518598	529996	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.86	25.97	25.86	27.0	0.0	
Channel				507004	518598	529998	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.91	25.99	25.84	27.0	0.0	
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.84	25.87	25.77	27.0	0.0	
Channel				505000	518598	531996	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	25.84	25.95	25.83	27.0	0.0	
Channel				504004	518598	532998	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.88	25.93	25.77	27.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.82	25.88	25.76	27.0	0.0	
Channel				502000	518598	534996	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.90	25.88	25.81	27.0	0.0	
Channel				501004	518598	535998	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.92	25.90	25.79	27.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	24.0	0.0	
Frequency (MHz)				23.12	23.17	23.05			
100	PI2 BPSK	1	1	23.12	23.17	23.05			
100	PI2 BPSK	1	137	23.03	23.12	23.01	24.0	0.0	
100	PI2 BPSK	1	271	23.03	23.08	22.94			
100	PI2 BPSK	135	0	21.58	21.81	21.54			
100	PI2 BPSK	135	69	23.08	23.13	22.98	24.0	0.0	
100	PI2 BPSK	135	138	21.54	21.63	21.48	23.5	0.5	
100	PI2 BPSK	270	0	21.58	21.67	21.49			
100	QPSK	1	1	23.18	23.24	23.08			
100	QPSK	1	137	23.18	23.21	23.12	24.0	0.0	
100	QPSK	1	271	23.17	23.17	23.02			
100	QPSK	135	0	21.53	21.63	21.54			
100	QPSK	135	69	23.17	23.19	23.07	24.0	0.0	
100	QPSK	135	138	21.51	21.63	21.50	23.0	1.0	
100	QPSK	270	0	21.82	21.87	21.52			
100	16QAM	1	1	21.56	21.66	21.52			
100	64QAM	1	1	20.14	20.23	20.12	21.5	2.5	
100	256QAM	1	1	18.22	18.32	18.18	19.5	4.5	
Channel				64895	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.08	23.11	22.94	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.00	23.10	22.94	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.01	23.07	22.96	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3950.01			
60	QPSK	1	1	23.11	23.16	22.99	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.04	23.13	23.00	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.06	23.11	22.98	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3952.01			
30	QPSK	1	1	23.03	23.10	22.99	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.04	23.17	23.00	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3840	3972.51			
15	QPSK	1	1	23.00	23.14	22.93	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.03	23.08	22.96	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	27.0	0.0	
Frequency (MHz)				25.98	26.10	26.03			
100	PI2 BPSK	1	1	25.98	26.10	26.03			
100	PI2 BPSK	1	137	25.95	26.07	25.93	27.0	0.0	
100	PI2 BPSK	1	271	25.94	26.01	25.98			
100	PI2 BPSK	135	0	25.42	25.51	25.37			
100	PI2 BPSK	135	69	25.96	26.00	25.90	27.0	0.0	
100	PI2 BPSK	135	138	25.48	25.58	25.51	26.5	0.5	
100	PI2 BPSK	270	0	25.54	25.61	25.48			
100	QPSK	1	1	26.07	26.17	26.12			
100	QPSK	1	137	26.01	26.11	26.03	27.0	0.0	
100	QPSK	1	271	25.97	26.05	25.98			
100	QPSK	135	0	25.05	25.09	24.98			
100	QPSK	135	69	26.03	26.12	26.04	27.0	0.0	
100	QPSK	135	138	24.97	25.04	24.96	26.0	1.0	
100	QPSK	270	0	25.05	25.11	25.02			
100	16QAM	1	1	25.00	25.14	25.04			
100	64QAM	1	1	23.02	23.67	23.53	24.5	2.5	
100	256QAM	1	1	21.58	21.89	21.62	22.5	4.5	
Channel				64895	650000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.94	26.10	26.06	27.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	26.01	26.03	25.99	27.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	26.02	26.13	26.03	27.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3950.01			
60	QPSK	1	1	25.95	26.06	26.07	27.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	26.04	26.12	26.01	27.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	26.00	26.04	26.07	27.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3952.01			
30	QPSK	1	1	25.97	26.11	26.09	27.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.99	26.12	26.05	27.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3840	3972.51			
15	QPSK	1	1	26.02	26.02	26.01	27.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.98	26.03	26.01	27.0	0.0	

Part270 n78 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.05		24.0	0.0	
100	PI2 BPSK	1	137		22.99				
100	PI2 BPSK	1	271		22.92		23.5	0.5	
100	PI2 BPSK	135	0		21.54				
100	PI2 BPSK	135	69		22.97		24.0	0.0	
100	PI2 BPSK	135	138		21.56		23.5	0.5	
100	PI2 BPSK	270	0		21.60				
100	QPSK	1	1		23.13		24.0	0.0	
100	QPSK	1	137		23.02				
100	QPSK	1	271		22.95		23.0	1.0	
100	QPSK	135	0		21.54				
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		21.48		23.0	1.0	
100	QPSK	270	0		21.53				
100	16QAM	1	1		21.69		23.0	1.0	
100	64QAM	1	1		19.94		21.5	2.5	
100	256QAM	1	1		18.07		19.5	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		23.01	23.03	22.94	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.94	23.00	22.94	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.94	23.09	22.93	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3780.01			
60	QPSK	1	1		22.94	23.01	22.87	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		23.02	23.05	22.94	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.00	23.02	22.88	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		22.96	22.98	22.89	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		23.00	23.04	22.87	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.51			
15	QPSK	1	1		23.00	23.08	22.93	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.98	23.07	22.87	24.0	0.0

Part270 n78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		26.08		27.0	0.0	
100	PI2 BPSK	1	137		26.05				
100	PI2 BPSK	1	271		25.99		26.5	0.5	
100	PI2 BPSK	135	0		25.50				
100	PI2 BPSK	135	69		26.00		27.0	0.0	
100	PI2 BPSK	135	138		25.39		26.5	0.5	
100	PI2 BPSK	270	0		25.46				
100	QPSK	1	1		26.16		27.0	0.0	
100	QPSK	1	137		26.08				
100	QPSK	1	271		26.02		26.0	1.0	
100	QPSK	135	0		25.00				
100	QPSK	135	69		26.09		27.0	0.0	
100	QPSK	135	138		24.96		26.0	1.0	
100	QPSK	270	0		24.95				
100	16QAM	1	1		25.29		26.0	1.0	
100	64QAM	1	1		23.83		24.5	2.5	
100	256QAM	1	1		21.76		22.5	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		25.95	26.11	25.96	27.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.94	26.05	25.94	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		26.02	26.09	25.96	27.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3780.01			
60	QPSK	1	1		25.93	26.10	25.94	27.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.96	26.04	25.96	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		26.01	26.05	25.89	27.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		25.94	26.01	25.87	27.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		25.98	26.03	25.93	27.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.51			
15	QPSK	1	1		25.94	26.07	25.98	27.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		25.97	26.10	25.93	27.0	0.0

n7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	12.65	12.74	12.68	14.1	0.0	
40	PI2 BPSK	1	108	12.60	12.73	12.64			
40	PI2 BPSK	1	214	12.53	12.61	12.56			
40	PI2 BPSK	108	0	12.64	12.65	12.63			
40	PI2 BPSK	108	54	12.68	12.79	12.67	14.1	0.0	
40	PI2 BPSK	108	108	12.59	12.57	12.58	14.1	0.0	
40	PI2 BPSK	216	0	12.58	12.65	12.61	14.1	0.0	
40	QPSK	1	1	12.67	12.60	12.74			
40	QPSK	1	108	12.57	12.80	12.63			
40	QPSK	1	214	12.60	12.74	12.61			
40	QPSK	108	0	12.62	12.74	12.72	14.1	0.0	
40	QPSK	108	54	12.62	12.78	12.74	14.1	0.0	
40	QPSK	108	108	12.54	12.67	12.50	14.1	0.0	
40	QPSK	216	0	12.57	12.68	12.62			
40	16QAM	1	1	12.57	12.66	12.51			
40	64QAM	1	1	12.53	12.65	12.62			
40	256QAM	1	1	12.46	12.54	12.44	14.1	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	14.1		
30	QPSK	1	1	12.61	12.68	12.66	14.1	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	14.1		
25	QPSK	1	1	12.55	12.70	12.70	14.1	0.0	
Channel				502000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	14.1		
20	PI2 BPSK	1	1	12.56	12.77	12.67	14.1	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	14.1		
15	QPSK	1	1	12.63	12.79	12.69	14.1	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	14.1		
10	QPSK	1	1	12.65	12.68	12.65	14.1	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	14.1		
5	QPSK	1	1	12.54	12.75	12.66	14.1	0.0	

n66 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	353000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	20.92	21.02	20.88	22.3		0.0
40	PI2 BPSK	1	108	20.89	20.89	20.84			
40	PI2 BPSK	1	214	20.68	20.82	20.67			
40	PI2 BPSK	108	0	20.89	20.91	20.78			
40	PI2 BPSK	108	54	20.90	20.95	20.94	22.3	0.0	0.0
40	PI2 BPSK	108	108	20.70	20.78	20.75	22.3	0.0	0.0
40	PI2 BPSK	216	0	20.72	20.93	20.81	22.3		0.0
40	QPSK	1	1	20.94	21.10	21.03			
40	QPSK	1	108	20.89	21.02	20.92			
40	QPSK	1	214	20.83	20.99	20.85			
40	QPSK	108	0	20.72	20.85	20.75	22.3	0.0	0.0
40	QPSK	108	54	20.87	20.96	20.90	22.3	0.0	0.0
40	QPSK	108	108	20.77	20.85	20.76	22.3		0.0
40	QPSK	216	0	20.80	20.91	20.88			
40	16QAM	1	1	20.70	20.76	20.74			
40	64QAM	1	1	20.82	20.95	20.90			
40	256QAM	1	1	18.96	18.99	18.93	19.5	2.8	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	14.1		
30	QPSK	1	1	20.88	20.97	20.95	22.3	0.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	14.1		
20	QPSK	1	1	20.91	21.05	20.98	22.3	0.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	14.1		
15	QPSK	1	1	20.90	21.01	20.93	22.3	0.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	14.1		
10	QPSK	1	1	20.81	21.04	20.95	22.3	0.0	0.0
Channel				342500	349000	356000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	14.1		
5	QPSK	1	1	20.86	20.99	20.97	22.3	0.0	0.0



n38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PI2 BPSK	1	1	13.00	13.11	12.99			
40	PI2 BPSK	1	53	12.88	13.06	12.86	14.4	0.0	
40	PI2 BPSK	1	104	12.89	13.06	13.02			
40	PI2 BPSK	50	0	12.95	12.93	12.85	14.4	0.0	
40	PI2 BPSK	50	28	12.84	12.99	12.88	14.4	0.0	
40	PI2 BPSK	50	58	12.95	13.02	12.85	14.4	0.0	
40	PI2 BPSK	100	0	13.02	13.02	13.01			
40	QPSK	1	1	13.05	13.17	13.12			
40	QPSK	1	53	13.00	12.95	12.90	14.4	0.0	
40	QPSK	1	104	12.94	13.01	12.95			
40	QPSK	50	0	12.86	12.93	12.87	14.4	0.0	
40	QPSK	50	28	13.03	13.14	13.08	14.4	0.0	
40	QPSK	50	58	12.92	12.91	12.83	14.4	0.0	
40	QPSK	100	0	12.88	12.95	12.97			
40	16QAM	1	1	13.02	13.16	12.99	14.4	0.0	
40	64QAM	1	1	12.97	13.06	12.96	14.4	0.0	
40	256QAM	1	1	12.75	12.95	12.88	14.4	0.0	
Channel				517002	518000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	13.01	13.08	13.04	14.4	0.0	
Channel				516504	518000	521498			
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	13.00	13.03	13.01	14.4	0.0	
Channel				516000	518000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	13.00	13.07	13.07	14.4	0.0	
Channel				515502	518000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	13.02	13.13	13.04	14.4	0.0	
Channel				515004	518000	522998			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	13.01	13.07	13.02	14.4	0.0	

n41 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	520900			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	13.12	13.17	13.08			
100	PI2 BPSK	1	137	13.00	13.15	13.12	14.4	0.0	
100	PI2 BPSK	1	271	13.01	13.13	13.06			
100	PI2 BPSK	135	0	13.02	13.07	13.00	14.4	0.0	
100	PI2 BPSK	135	69	12.97	13.12	12.96	14.4	0.0	
100	PI2 BPSK	135	138	13.00	13.08	12.95	14.4	0.0	
100	PI2 BPSK	270	0	13.08	13.10	13.05			
100	QPSK	1	1	13.16	13.22	13.16			
100	QPSK	1	137	13.07	13.09	13.04	14.4	0.0	
100	QPSK	1	271	13.02	13.07	13.08			
100	QPSK	135	0	12.91	13.08	12.93	14.4	0.0	
100	QPSK	135	69	13.12	13.19	13.11	14.4	0.0	
100	QPSK	135	138	13.00	13.04	12.94	14.4	0.0	
100	QPSK	270	0	13.02	13.05	13.06			
100	16QAM	1	1	13.12	13.21	13.07	14.4	0.0	
100	64QAM	1	1	13.09	13.15	13.08	14.4	0.0	
100	256QAM	1	1	12.86	13.04	12.93	14.4	0.0	
Channel				508200	518598	520998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	13.10	13.18	13.07	14.4	0.0	
Channel				507204	518598	520998			
Frequency (MHz)				2536.02	2592.99	2640.99			
80	QPSK	1	1	13.10	13.10	13.02	14.4	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	13.06	13.08	13.09	14.4	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	13.05	13.17	13.04	14.4	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	13.05	13.14	13.05	14.4	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	13.12	13.15	13.12	14.4	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	13.09	13.10	13.00	14.4	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	13.07	13.15	13.09	14.4	0.0	

n41 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	16.23	16.29	16.25			
100	PI2 BPSK	1	137	16.20	16.25	16.21	17.4	0.0	
100	PI2 BPSK	1	271	16.11	16.20	16.07			
100	PI2 BPSK	135	0	16.06	16.17	16.10	17.4	0.0	
100	PI2 BPSK	135	69	16.14	16.17	16.08	17.4	0.0	
100	PI2 BPSK	135	138	16.09	16.25	16.20	17.4	0.0	
100	PI2 BPSK	270	0	16.31	16.28	16.17			
100	QPSK	1	1	16.25	16.37	16.27			
100	QPSK	1	137	16.12	16.33	16.14	17.4	0.0	
100	QPSK	1	271	16.17	16.19	16.15			
100	QPSK	135	0	16.07	16.06	16.00	17.4	0.0	
100	QPSK	135	69	16.20	16.33	16.19	17.4	0.0	
100	QPSK	135	138	16.06	16.20	15.94	17.4	0.0	
100	QPSK	270	0	16.17	16.26	16.16			
100	16QAM	1	1	16.24	16.22	16.20	17.4	0.0	
100	64QAM	1	1	16.06	16.20	16.18	17.4	0.0	
100	256QAM	1	1	15.93	16.22	16.02	17.4	0.0	
Channel				508200	518598	530998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.15	16.29	16.20	17.4	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2640.99			
80	QPSK	1	1	16.11	16.31	16.13	17.4	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	16.15	16.27	16.18	17.4	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	16.15	16.34	16.14	17.4	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	16.16	16.33	16.14	17.4	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.16	16.28	16.24	17.4	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	16.18	16.25	16.15	17.4	0.0	

Part270 n77 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	15.4	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	14.00	14.11	13.94	15.4	0.0	
100	PI2 BPSK	1	137	14.02	14.04	14.01			
100	PI2 BPSK	1	271	13.96	14.12	13.95			
100	PI2 BPSK	135	0	13.91	13.97	13.89			
100	PI2 BPSK	135	69	13.90	13.95	13.90	15.4	0.0	
100	PI2 BPSK	135	138	13.84	14.10	13.94			
100	PI2 BPSK	270	0	14.11	14.19	14.05			
100	QPSK	1	1	14.07	14.20	14.10			
100	QPSK	1	137	14.06	14.08	13.94	15.4	0.0	
100	QPSK	1	271	13.93	13.99	14.05			
100	QPSK	135	0	13.76	13.87	13.85			
100	QPSK	135	69	14.02	14.13	13.97			
100	QPSK	135	138	13.95	13.98	13.86	15.4	0.0	
100	QPSK	270	0	14.03	14.05	13.97			
100	16QAM	1	1	14.01	14.18	13.95			
100	64QAM	1	1	14.00	14.03	13.88		15.4	
100	256QAM	1	1	13.75	14.06	13.80			
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	15.4 <td colspan="2">0.0</td>	0.0	
90	QPSK	1	1	13.93	14.09	14.06	15.4	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	15.4 <td colspan="2">0.0</td>	0.0	
80	QPSK	1	1	14.04	14.13	13.99	15.4	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	15.4 <td colspan="2">0.0</td>	0.0	
70	QPSK	1	1	14.01	14.10	13.95	15.4	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	15.4 <td colspan="2">0.0</td>	0.0	
60	QPSK	1	1	13.97	14.14	14.04	15.4	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	15.4 <td colspan="2">0.0</td>	0.0	
50	QPSK	1	1	13.94	14.08	13.98	15.4	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	15.4 <td colspan="2">0.0</td>	0.0	
40	QPSK	1	1	13.99	14.16	14.06	15.4	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01	15.4 <td colspan="2">0.0</td>	0.0	
30	QPSK	1	1	13.98	14.07	13.99	15.4	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	15.4 <td colspan="2">0.0</td>	0.0	
20	QPSK	1	1	14.01	14.11	13.97	15.4	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	15.4 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	13.93	14.12	13.98	15.4	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975 <td>15.4</td> <td colspan="2">0.0</td>	15.4	0.0	
10	QPSK	1	1	14.03	14.15	14.01	15.4	0.0	

Part270 n77 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	18.4	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	17.02	17.17	16.96	18.4	0.0	
100	PI2 BPSK	1	137	16.97	17.06	16.98			
100	PI2 BPSK	1	271	17.03	17.18	16.97			
100	PI2 BPSK	135	0	16.97	16.93	17.04			
100	PI2 BPSK	135	69	16.89	16.98	16.90	18.4	0.0	
100	PI2 BPSK	135	138	16.85	17.12	16.85			
100	PI2 BPSK	270	0	17.04	17.16	17.10			
100	QPSK	1	1	17.00	17.22	17.13			
100	QPSK	1	137	17.02	17.02	16.87	18.4	0.0	
100	QPSK	1	271	16.86	17.02	16.93			
100	QPSK	135	0	16.84	16.98	16.81			
100	QPSK	135	69	16.91	17.19	17.02			
100	QPSK	135	138	16.88	16.89	16.82	18.4	0.0	
100	QPSK	270	0	16.95	17.04	16.97			
100	16QAM	1	1	16.99	17.15	17.03			
100	64QAM	1	1	16.93	16.98	16.93		18.4	
100	256QAM	1	1	16.77	16.91	16.81			
Channel				649858	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02 <th>3840<th>3935.01<th>18.4<td colspan="2">0.0</td></th></th></th>	3840 <th>3935.01<th>18.4<td colspan="2">0.0</td></th></th>	3935.01 <th>18.4<td colspan="2">0.0</td></th>	18.4 <td colspan="2">0.0</td>	0.0	
90	QPSK	1	1	16.92	17.11	17.06	18.4	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	18.4 <td colspan="2">0.0</td>	0.0	
80	QPSK	1	1	16.88	17.16	17.03	18.4	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.01	3840	3945	18.4 <td colspan="2">0.0</td>	0.0	
70	QPSK	1	1	16.87	17.08	17.01	18.4	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	18.4 <td colspan="2">0.0</td>	0.0	
60	QPSK	1	1	16.95	17.11	17.04	18.4	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	18.4 <td colspan="2">0.0</td>	0.0	
50	QPSK	1	1	16.92	17.07	17.00	18.4	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	18.4 <td colspan="2">0.0</td>	0.0	
40	QPSK	1	1	16.97	17.16	17.04	18.4	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01	18.4 <td colspan="2">0.0</td>	0.0	
30	QPSK	1	1	16.90	17.10	17.05	18.4	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	18.4 <td colspan="2">0.0</td>	0.0	
20	QPSK	1	1	16.88	17.17	17.04	18.4	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	18.4 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	16.87	17.09	17.09	18.4	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	18.4 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	16.89	17.15	17.10	18.4	0.0	

Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		13.96		15.4	0.0	
100	PI2 BPSK	1	137		13.96				
100	PI2 BPSK	1	271		13.96				
100	PI2 BPSK	135	0		13.88				
100	PI2 BPSK	135	69		14.06		15.4	0.0	
100	PI2 BPSK	135	138		14.09		15.4	0.0	
100	PI2 BPSK	270	0		14.11				
100	QPSK	1	1		14.15				
100	QPSK	1	137		14.05				
100	QPSK	1	271		14.00		15.4	0.0	
100	QPSK	135	0		13.90				
100	QPSK	135	69		14.13				
100	QPSK	135	138		13.82				
100	QPSK	270	0		13.88		15.4	0.0	
100	16QAM	1	1		14.03		15.4	0.0	
100	64QAM	1	1		14.01		15.4	0.0	
100	256QAM	1	1		13.93		15.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	13.83	14.04	13.96	15.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	13.81	14.03	13.96	15.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	13.79	13.95	14.02	15.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	13.80	13.94	13.98	15.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	13.86	13.96	13.92	15.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	13.78	13.98	13.98	15.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	13.82	13.96	13.97	15.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	13.84	13.96	13.95	15.4	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	13.82	13.94	13.92	15.4	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	13.81	13.99	13.96	15.4	0.0	

Part270 n78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		17.07		18.4	0.0	
100	PI2 BPSK	1	137		16.96				
100	PI2 BPSK	1	271		16.96				
100	PI2 BPSK	135	0		17.00				
100	PI2 BPSK	135	69		17.06		18.4	0.0	
100	PI2 BPSK	135	138		16.98		18.4	0.0	
100	PI2 BPSK	270	0		17.07				
100	QPSK	1	1		17.14				
100	QPSK	1	137		17.10				
100	QPSK	1	271		17.09		18.4	0.0	
100	QPSK	135	0		16.97				
100	QPSK	135	69		17.01				
100	QPSK	135	138		16.97				
100	QPSK	270	0		16.94		18.4	0.0	
100	16QAM	1	1		17.05		18.4	0.0	
100	64QAM	1	1		17.02		18.4	0.0	
100	256QAM	1	1		16.94		18.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.78	16.96	16.97	18.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	16.79	16.94	16.91	18.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.75	17.00	16.96	18.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	16.76	17.05	16.90	18.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	16.83	17.06	16.92	18.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.87	16.99	16.94	18.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	16.82	16.98	17.00	18.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	16.79	16.96	16.94	18.4	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	16.77	16.97	16.95	18.4	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.87	16.98	16.91	18.4	0.0	

n7 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	16.8	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	15.76	15.72	15.64	16.8	0.0	
40	PI2 BPSK	1	108	15.63	15.66	15.56			
40	PI2 BPSK	1	214	15.51	15.70	15.47			
40	PI2 BPSK	108	0	15.49	15.57	15.52			
40	PI2 BPSK	108	54	15.52	15.70	15.55	16.8	0.0	
40	PI2 BPSK	108	108	15.46	15.68	15.47	16.8	0.0	
40	PI2 BPSK	216	0	15.69	15.69	15.57	16.8	0.0	
40	QPSK	1	1	15.73	15.60	15.77			
40	QPSK	1	108	15.63	15.67	15.40			
40	QPSK	1	214	15.56	15.59	15.58			
40	QPSK	108	0	15.47	15.56	15.35	16.8	0.0	
40	QPSK	108	54	15.65	15.71	15.62	16.8	0.0	
40	QPSK	108	108	15.51	15.59	15.47	16.8	0.0	
40	QPSK	216	0	15.51	15.63	15.57	16.8	0.0	
40	16QAM	1	1	15.60	15.64	15.64			
40	64QAM	1	1	15.53	15.68	15.67			
40	256QAM	1	1	15.41	15.56	15.41			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	16.8		
30	QPSK	1	1	15.68	15.69	15.63	16.8	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	16.8		
25	QPSK	1	1	15.62	15.67	15.71	16.8	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	16.8		
20	PI2 BPSK	1	1	15.58	15.70	15.64	16.8	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	16.8		
15	QPSK	1	1	15.61	15.68	15.62	16.8	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	16.8		
10	QPSK	1	1	15.59	15.66	15.67	16.8	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	16.8		
5	QPSK	1	1	15.66	15.73	15.66	16.8	0.0	

n66 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	17.30	18.6	
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	17.53	17.51	17.35	17.30	18.6	
40	PI2 BPSK	1	108	17.45	17.45	17.47			
40	PI2 BPSK	1	214	17.30	17.43	17.38			
40	PI2 BPSK	108	0	17.18	17.41	17.35			
40	PI2 BPSK	108	54	17.31	17.47	17.31	17.31	18.6	
40	PI2 BPSK	108	108	17.28	17.44	17.33	17.33	18.6	
40	PI2 BPSK	216	0	17.40	17.54	17.44	17.47	18.6	
40	QPSK	1	1	17.47	17.58	17.51			
40	QPSK	1	108	17.45	17.41	17.28			
40	QPSK	1	214	17.29	17.29	17.42			
40	QPSK	108	0	17.17	17.34	17.27	17.27	18.6	
40	QPSK	108	54	17.47	17.54	17.48	17.48	18.6	
40	QPSK	108	108	17.26	17.35	17.27	17.27	18.6	
40	QPSK	216	0	17.33	17.46	17.40	17.35	18.6	
40	16QAM	1	1	17.56	17.54	17.37			
40	64QAM	1	1	17.33	17.49	17.46			
40	256QAM	1	1	17.35	17.47	17.21			
Channel				345500	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	16.8		
30	QPSK	1	1	17.42	17.53	17.45	16.8	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	16.8		
20	QPSK	1	1	17.32	17.49	17.43	16.8	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5 <td>16.8</td> <td colspan="2"></td>	16.8		
15	QPSK	1	1	17.44	17.51	17.43	16.8	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	16.8		
10	QPSK	1	1	17.40	17.47	17.37	16.8	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	16.8		
5	QPSK	1	1	17.32	17.45	17.43	16.8	0.0	



n38 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	16.91	16.96	16.80			
40	PQ2 BPSK	1	53	16.88	16.93	16.81	18.0	0.0	
40	PQ2 BPSK	1	104	16.71	16.80	16.88			
40	PQ2 BPSK	50	0	16.69	16.75	16.68	18.0	0.0	
40	PQ2 BPSK	50	28	16.87	16.99	16.81	18.0	0.0	
40	PQ2 BPSK	50	58	16.72	16.82	16.63			
40	PQ2 BPSK	100	0	16.64	16.83	16.76			
40	QPSK	1	1	16.89	17.09	16.93			
40	QPSK	1	53	16.77	16.83	16.86	18.0	0.0	
40	QPSK	1	104	16.68	16.80	16.78			
40	QPSK	50	0	16.66	16.75	16.69	18.0	0.0	
40	QPSK	50	28	16.84	16.97	16.77			
40	QPSK	50	58	16.69	16.81	16.70			
40	QPSK	100	0	16.80	16.90	16.75			
40	16QAM	1	1	16.84	16.89	16.83	18.0	0.0	
40	64QAM	1	1	16.72	16.80	16.73	18.0	0.0	
40	256QAM	1	1	16.67	16.76	16.66	18.0	0.0	
Channel				517002	518000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	16.60	16.67	16.67	18.0	0.0	
Channel				516504	518000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	16.54	16.75	16.63	18.0	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.59	16.69	16.65	18.0	0.0	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	16.59	16.75	16.73	18.0	0.0	
Channel				515002	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	16.61	16.71	16.65	18.0	0.0	

n41 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	17.05	17.10	16.93			
100	PQ2 BPSK	1	137	16.96	16.98	16.92	18.0	0.0	
100	PQ2 BPSK	1	271	16.81	16.92	16.91			
100	PQ2 BPSK	135	0	16.78	16.83	16.73	18.0	0.0	
100	PQ2 BPSK	135	69	16.97	17.02	16.95	18.0	0.0	
100	PQ2 BPSK	135	138	16.78	16.89	16.72			
100	PQ2 BPSK	270	0	16.74	16.91	16.86			
100	QPSK	1	1	16.97	17.12	17.06			
100	QPSK	1	137	16.88	16.92	16.92	18.0	0.0	
100	QPSK	1	271	16.82	16.91	16.91			
100	QPSK	135	0	16.78	16.88	16.82	18.0	0.0	
100	QPSK	135	69	16.96	17.07	16.92	18.0	0.0	
100	QPSK	135	138	16.76	16.92	16.77			
100	QPSK	270	0	16.88	16.95	16.83	18.0	0.0	
100	16QAM	1	1	16.90	16.97	16.95	18.0	0.0	
100	64QAM	1	1	16.83	16.95	16.83	18.0	0.0	
100	256QAM	1	1	16.81	16.80	16.80	18.0	0.0	
Channel				508200	518598	520996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.82	17.07	17.03	18.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	16.88	17.08	16.93	18.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	16.85	17.01	16.98	18.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	16.88	16.99	16.96	18.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	16.86	17.00	16.92	18.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.84	16.99	16.96	18.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	16.87	17.06	16.95	18.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	16.93	17.02	16.95	18.0	0.0	

n41 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	19.90	20.00	19.95		21.0	0.0
100	PQ2 BPSK	1	137	19.98	19.92	19.84		21.0	0.0
100	PQ2 BPSK	1	271	19.86	19.94	19.87		21.0	0.0
100	PQ2 BPSK	135	0	19.79	19.95	19.84	21.0	0.0	0.0
100	PQ2 BPSK	135	69	20.00	19.99	19.92	21.0	0.0	0.0
100	PQ2 BPSK	135	138	19.87	19.88	19.73		21.0	0.0
100	PQ2 BPSK	270	0	19.72	19.83	19.77		21.0	0.0
100	QPSK	1	1	19.97	20.05	19.93		21.0	0.0
100	QPSK	1	137	19.85	19.92	19.89		21.0	0.0
100	QPSK	1	271	19.74	19.90	19.94		21.0	0.0
100	QPSK	135	0	19.93	19.80	19.88	21.0	0.0	0.0
100	QPSK	135	69	19.90	19.97	19.94	21.0	0.0	0.0
100	QPSK	135	138	19.83	19.85	19.80		21.0	0.0
100	QPSK	270	0	19.84	19.93	19.90	21.0	0.0	0.0
100	16QAM	1	1	19.85	20.03	19.94	21.0	0.0	0.0
100	64QAM	1	1	19.85	19.92	19.81	21.0	0.0	0.0
100	256QAM	1	1	19.80	19.83	19.80	21.0	0.0	0.0
Channel				508200	518598	520996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.86	19.92	19.79	21.0	0.0	0.0
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	19.82	19.90	19.81	21.0	0.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.86	19.99	19.78	21.0	0.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.86	19.97	19.83	21.0	0.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.86	19.95	19.79	21.0	0.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.93	20.02	19.84	21.0	0.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.88	20.01	19.83	21.0	0.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.92	19.90	19.82	21.0	0.0	0.0

Part270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	13.22	13.21	13.16	14.2	0.0	
100	PI2 BPSK	1	137	13.05	13.09	12.98			
100	PI2 BPSK	1	271	13.14	13.04	13.07			
100	PI2 BPSK	135	0	13.00	13.04	13.01	14.2	0.0	
100	PI2 BPSK	135	69	13.05	13.25	13.03	14.2	0.0	
100	PI2 BPSK	135	138	13.00	13.05	12.96	14.2	0.0	
100	PI2 BPSK	270	0	12.98	13.06	12.96	14.2	0.0	
100	QPSK	1	1	13.13	13.26	13.18			
100	QPSK	1	137	13.15	13.18	13.12			
100	QPSK	1	271	13.05	13.10	13.14	14.2	0.0	
100	QPSK	135	0	13.08	13.13	13.19			
100	QPSK	135	69	13.18	13.21	13.12			
100	QPSK	135	138	13.07	13.09	13.02	14.2	0.0	
100	QPSK	270	0	13.09	13.16	13.06	14.2	0.0	
100	16QAM	1	1	13.25	13.21	13.15			
100	64QAM	1	1	13.08	13.23	13.00			
100	256QAM	1	1	12.97	13.03	13.02	14.2	0.0	
Channel				649968	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	13.08	13.16	13.11	14.2	0.0	
Channel				649334	656000	662968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	13.03	13.10	13.12	14.2	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	13.04	13.14	13.07	14.2	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	13.02	13.22	13.08	14.2	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	13.05	13.17	13.09	14.2	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	13.09	13.20	13.04	14.2	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	13.09	13.23	13.05	14.2	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	13.04	13.13	13.03	14.2	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	13.10	13.20	13.11	14.2	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	13.03	13.19	13.05	14.2	0.0	

Part270 n77 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	660000			
Frequency (MHz)				3840	3840	3900			
100	PI2 BPSK	1	1	16.18	16.21	16.16	17.2	0.0	
100	PI2 BPSK	1	137	16.04	16.13	16.06			
100	PI2 BPSK	1	271	16.11	16.27	16.02			
100	PI2 BPSK	135	0	15.97	16.09	16.01	17.2	0.0	
100	PI2 BPSK	135	69	16.13	16.25	16.06	17.2	0.0	
100	PI2 BPSK	135	138	15.99	16.09	16.04	17.2	0.0	
100	PI2 BPSK	270	0	16.13	16.21	16.01	17.2	0.0	
100	QPSK	1	1	16.11	16.37	16.28			
100	QPSK	1	137	16.18	16.31	16.14			
100	QPSK	1	271	15.99	16.09	16.06	17.2	0.0	
100	QPSK	135	0	16.04	16.24	16.18			
100	QPSK	135	69	16.16	16.29	16.12			
100	QPSK	135	138	16.15	16.08	16.14	17.2	0.0	
100	QPSK	270	0	16.10	16.18	16.17	17.2	0.0	
100	16QAM	1	1	16.16	16.17	16.17			
100	64QAM	1	1	16.11	16.19	16.11			
100	256QAM	1	1	15.88	16.10	16.04	17.2	0.0	
Channel				649950	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.08	16.34	16.16	17.2	0.0	
Channel				649334	656000	662968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.02	16.27	16.23	17.2	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.01	16.29	16.25	17.2	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.99	16.24	16.23	17.2	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.01	16.31	16.14	17.2	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.07	16.28	16.14	17.2	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	15.99	16.33	16.19	17.2	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.04	16.23	16.20	17.2	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3840	3972.51			
15	QPSK	1	1	16.07	16.32	16.22	17.2	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.96	16.25	16.21	17.2	0.0	

Part270 n78 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		13.11		14.2	0.0	
100	PI2 BPSK	1	137		13.02				
100	PI2 BPSK	1	271		13.00				
100	PI2 BPSK	135	0		13.01		14.2	0.0	
100	PI2 BPSK	135	69		13.12		14.2	0.0	
100	PI2 BPSK	135	138		13.01		14.2	0.0	
100	PI2 BPSK	270	0		13.09		14.2	0.0	
100	QPSK	1	1		13.18				
100	QPSK	1	137		13.09				
100	QPSK	1	271		12.95		14.2	0.0	
100	QPSK	135	0		13.01				
100	QPSK	135	69		13.18				
100	QPSK	135	138		13.05		14.2	0.0	
100	QPSK	270	0		13.05		14.2	0.0	
100	16QAM	1	1		13.04		14.2	0.0	
100	64QAM	1	1		13.05		14.2	0.0	
100	256QAM	1	1		12.97		14.2	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	12.95	13.05	13.05	14.2	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	12.99	13.11	13.04	14.2	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	12.98	13.12	12.99	14.2	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	13.00	13.11	13.04	14.2	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	12.97	13.11	13.05	14.2	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	13.02	13.10	12.98	14.2	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	12.93	13.10	12.95	14.2	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	12.95	13.08	13.03	14.2	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	12.95	13.03	12.95	14.2	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	12.95	13.10	13.03	14.2	0.0	

Part270 n78 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		16.12		17.2	0.0	
100	PI2 BPSK	1	137		15.96				
100	PI2 BPSK	1	271		16.02				
100	PI2 BPSK	135	0		15.84		17.2	0.0	
100	PI2 BPSK	135	69		16.07		17.2	0.0	
100	PI2 BPSK	135	138		15.98		17.2	0.0	
100	PI2 BPSK	270	0		16.02		17.2	0.0	
100	QPSK	1	1		16.21				
100	QPSK	1	137		16.12				
100	QPSK	1	271		15.94		17.2	0.0	
100	QPSK	135	0		15.86				
100	QPSK	135	69		16.09				
100	QPSK	135	138		16.06		17.2	0.0	
100	QPSK	270	0		15.93		17.2	0.0	
100	16QAM	1	1		16.03		17.2	0.0	
100	64QAM	1	1		15.97		17.2	0.0	
100	256QAM	1	1		15.96		17.2	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	16.02	16.11	16.07	17.2	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	15.92	16.03	15.93	17.2	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	15.98	16.11	16.08	17.2	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	15.94	16.09	15.96	17.2	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	15.92	16.09	16.02	17.2	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	15.91	16.07	15.98	17.2	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	15.92	16.06	16.03	17.2	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	15.94	16.10	16.04	17.2	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	15.96	16.09	16.07	17.2	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	15.97	16.01	16.03	17.2	0.0	



n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dbm)	MPR (db)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.18	23.23	23.13		
20	PI2 BPSK	1	53	23.04	23.14	23.06		
20	PI2 BPSK	1	104	22.98	23.08	22.94	23.5	0.5
20	PI2 BPSK	50	0	22.65	22.76	22.73		
20	PI2 BPSK	50	28	23.08	23.18	23.11		
20	PI2 BPSK	50	58	22.59	22.64	22.51		
20	PI2 BPSK	100	0	22.66	22.70	22.63	23.5	0.5
20	QPSK	1	1	23.23	23.27	23.16		
20	QPSK	1	53	23.11	23.18	23.13		
20	QPSK	1	104	22.96	23.09	22.88		
20	QPSK	50	0	22.14	22.26	22.21	23.0	1.0
20	QPSK	50	28	23.15	23.21	23.04		
20	QPSK	50	58	22.14	22.18	22.06		
20	QPSK	100	0	22.17	22.23	22.13		
20	16QAM	1	1	22.39	22.48	22.42	23.0	1.0
20	64QAM	1	1	20.73	20.86	20.79		
20	256QAM	1	1	18.89	19.01	18.96		
Channel				166300	167300	168300	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0
15	QPSK	1	1	23.11	23.18	23.08		
Channel				165800	167300	166800	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				829	836.5	844	23.0	0.0
10	QPSK	1	1	23.13	23.15	23.02		
Channel				169300	167300	169300	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				826.5	836.5	844.5	24.0	0.0
5	QPSK	1	1	23.17	23.23	23.04		

Reduced Power Mode for DS13 Standalone								
n7 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000	22.5	0.0
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	21.23	21.40	21.34		
40	PI2 BPSK	1	108	21.24	21.35	21.21		
40	PI2 BPSK	1	214	21.14	21.14	21.27	22.5	0.0
40	PI2 BPSK	108	0	21.15	21.19	21.14		
40	PI2 BPSK	108	54	21.24	21.27	21.26		
40	PI2 BPSK	108	108	21.20	21.30	21.25		
40	PI2 BPSK	216	0	21.25	21.33	21.23	22.5	0.0
40	QPSK	1	1	21.35	21.35	21.39		
40	QPSK	1	108	21.33	21.35	21.29		
40	QPSK	1	214	21.30	21.32	21.21		
40	QPSK	108	0	20.87	20.97	20.87	22.0	0.5
40	QPSK	108	54	21.35	21.36	21.22		
40	QPSK	108	108	20.80	20.89	20.80		
40	QPSK	216	0	20.81	20.94	20.84		
40	16QAM	1	1	20.73	20.86	20.77	22.0	0.5
40	64QAM	1	1	19.27	19.41	19.38		
40	256QAM	1	1	17.30	17.38	17.23		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	22.5	0.0
30	QPSK	1	1	21.24	21.34	21.27		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	22.5	0.0
25	QPSK	1	1	21.23	21.32	21.25		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	22.5	0.0
20	PI2 BPSK	1	1	21.29	21.39	21.30		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	22.5	0.0
15	QPSK	1	1	21.21	21.40	21.33		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	22.5	0.0
10	QPSK	1	1	21.29	21.37	21.25		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	22.5	0.0
5	QPSK	1	1	21.25	21.31	21.24		

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.14	22.27	22.17		
40	PI2 BPSK	1	108	22.07	22.22	22.11		
40	PI2 BPSK	1	214	22.08	22.16	22.12	22.5	0.5
40	PI2 BPSK	108	0	21.88	21.86	21.82		
40	PI2 BPSK	108	54	22.02	22.20	22.13		
40	PI2 BPSK	108	108	21.89	21.81	21.76		
40	PI2 BPSK	216	0	21.74	21.94	21.85	22.5	0.5
40	QPSK	1	1	22.23	22.35	22.31		
40	QPSK	1	108	22.04	22.26	22.14		
40	QPSK	1	214	22.02	22.21	22.07		
40	QPSK	108	0	21.13	21.38	21.24	23.0	1.0
40	QPSK	108	54	22.15	22.29	22.24		
40	QPSK	108	108	21.24	21.48	21.35		
40	QPSK	216	0	21.26	21.43	21.29		
40	16QAM	1	1	20.38	21.11	21.01	22.0	1.0
40	64QAM	1	1	19.87	19.93	19.81		
40	256QAM	1	1	17.59	17.85	17.73		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	22.11	22.27	22.20		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1760	23.0	0.0
20	QPSK	1	1	22.16	22.31	22.24		
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	22.16	22.28	22.24		
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	22.19	22.22	22.17		
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	22.16	22.29	22.21		



n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	21.54	21.76	21.72	23.0	0.0	
40	PV2 BPSK	1	53	21.54	21.72	21.66			
40	PV2 BPSK	1	104	21.44	21.61	21.52			
40	PV2 BPSK	50	0	20.90	21.01	20.98			
40	PV2 BPSK	50	28	21.50	21.75	21.50	22.5	0.0	
40	PV2 BPSK	50	56	20.91	21.03	21.00	22.5	0.5	
40	PV2 BPSK	100	0	20.90	21.02	21.01			
40	QPSK	1	1	21.79	21.83	21.82			
40	QPSK	1	53	21.55	21.71	21.61			
40	QPSK	1	104	21.45	21.70	21.62	23.0	1.0	
40	QPSK	50	0	20.51	20.73	20.55			
40	QPSK	50	28	21.62	21.76	21.68			
40	QPSK	50	56	20.48	20.62	20.54			
40	QPSK	100	0	20.57	20.66	20.58	22.0	1.0	
40	16QAM	1	1	20.46	20.65	20.53			
40	64QAM	1	1	19.09	19.28	19.14			
40	256QAM	1	1	17.21	17.44	17.34			
Channel				517002	519000	520998	Tune-up limit	MPR	
Frequency (MHz)				2595.91	2595	2604.99	(dBm)	(dB)	
30	QPSK	1	1	21.74	21.76	21.75	23.0	0.0	
Channel				518504	519000	521496	Tune-up limit	MPR	
Frequency (MHz)				2592.35	2595	2607.48	(dBm)	(dB)	
25	QPSK	1	1	21.70	21.69	21.69	23.0	0.0	
Channel				518000	519000	522000	Tune-up limit	MPR	
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)	
20	QPSK	1	1	21.65	21.70	21.70	23.0	0.0	
Channel				515000	519000	522496	Tune-up limit	MPR	
Frequency (MHz)				2577.51	2595	2612.49	(dBm)	(dB)	
15	QPSK	1	1	21.71	21.73	21.72	23.0	0.0	
Channel				515004	519000	522996	Tune-up limit	MPR	
Frequency (MHz)				2575.10	2595	2614.98	(dBm)	(dB)	
10	QPSK	1	1	21.65	21.69	21.67	23.0	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508200	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.70	21.82	21.78	23.0	0.0	
100	PQ2 BPSK	1	137	21.72	21.77	21.68			
100	PQ2 BPSK	1	271	21.60	21.71	21.57			
100	PQ2 BPSK	135	0	20.06	20.17	20.08			
100	PQ2 BPSK	135	69	21.67	21.74	21.62	23.0	0.5	
100	PQ2 BPSK	135	138	20.26	20.38	20.25	22.5	0.5	
100	PQ2 BPSK	270	0	20.12	20.24	20.17			
100	QPSK	1	1	21.74	21.86	21.81			
100	QPSK	1	137	21.71	21.80	21.73			
100	QPSK	1	271	21.67	21.73	21.70	22.0	0.0	
100	QPSK	135	0	20.41	20.47	20.40			
100	QPSK	135	69	21.69	21.76	21.75			
100	QPSK	135	138	20.41	20.50	20.41			
100	QPSK	270	0	20.45	20.55	20.47	22.0	1.0	
100	16QAM	1	1	20.48	20.54	20.49			
100	64QAM	1	1	18.91	18.97	18.92			
100	256QAM	1	1	17.61	18.68	18.68			
Channel				508200	518598	528998	Tune-up limit	MPR	
Frequency (MHz)				2641	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	21.61	21.69	21.59	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2533.02	2592.99	2643.99	(dBm)	(dB)	
80	QPSK	1	1	21.59	21.68	21.70	23.0	0.0	
Channel				508202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2645	(dBm)	(dB)	
70	QPSK	1	1	21.68	21.73	21.60	23.0	0.0	
Channel				505200	518598	531006	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	21.62	21.65	21.68	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.98	(dBm)	(dB)	
50	QPSK	1	1	21.61	21.67	21.62	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	21.65	21.73	21.65	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	21.58	21.66	21.61	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	21.57	21.65	21.66	23.0	0.0	

n41 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	24.81	24.88	24.78	26.0	0.0	
100	PV2 BPSK	1	137	24.72	24.81	24.76			
100	PV2 BPSK	1	271	24.71	24.75	24.64			
100	PV2 BPSK	135	0	24.37	24.43	24.39			
100	PV2 BPSK	135	69	24.73	24.80	24.72	26.0	0.5	
100	PV2 BPSK	135	138	24.43	24.47	24.38	25.5	0.0	
100	PV2 BPSK	270	0	24.45	24.51	24.38			
100	QPSK	1	1	24.84	24.92	24.89			
100	QPSK	1	137	24.72	24.85	24.82			
100	QPSK	1	271	24.67	24.79	24.66	26.0	1.0	
100	QPSK	135	0	23.92	24.01	23.88			
100	QPSK	135	69	24.76	24.86	24.78			
100	QPSK	135	138	23.98	24.01	23.98			
100	QPSK	270	0	24.04	24.06	24.01	25.0	1.0	
100	16QAM	1	1	24.08	24.13	24.10			
100	64QAM	1	1	22.14	22.28	22.10			
100	256QAM	1	1	20.21	20.35	20.29			
Channel				508200	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	24.71	24.86	24.81	26.0	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2533.02	2592.99	2643.99	(dBm)	(dB)	
80	QPSK	1	1	24.77	24.85	24.85	26.0	0.0	
Channel				508202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	24.73	24.82	24.76	26.0	0.0	
Channel				505200	518598	531006	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	24.70	24.86	24.80	26.0	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.98	(dBm)	(dB)	
50	QPSK	1	1	24.74	24.83	24.83	26.0	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	24.72	24.87	24.83	26.0	0.0	
Channel				502200	518598	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	24.80	24.79	24.76	26.0	0.0	
Channel				501204	518598	535996	Tune-up limit	MPR	
Frequency (MHz)				2499.99	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	24.75	24.85	24.77	26.0	0.0	

Part270 n77 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	21.0	0.0	
Frequency (MHz)				20.24	20.37	20.26			
100	PI2 BPSK	1	1	20.20	20.33	20.22			
100	PI2 BPSK	1	137	20.15	20.28	20.22			
100	PI2 BPSK	1	271	20.15	20.28	20.22	20.5	0.5	
100	PI2 BPSK	135	0	18.72	18.78	18.74			
100	PI2 BPSK	135	69	20.22	20.31	20.19			
100	PI2 BPSK	135	138	18.63	18.76	18.67			
100	PI2 BPSK	270	0	18.80	18.88	18.80	21.0	0.0	
100	QPSK	1	1	20.37	20.43	20.31			
100	QPSK	1	137	20.19	20.35	20.25			
100	QPSK	1	271	20.13	20.31	20.20			
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0	
100	QPSK	135	69	20.20	20.38	20.27			
100	QPSK	135	138	18.84	18.98	18.81			
100	QPSK	270	0	18.91	19.02	18.86			
100	16QAM	1	1	18.60	18.68	18.60	20.0	1.0	
100	64QAM	1	1	17.49	17.65	17.53			
100	256QAM	1	1	15.22	15.32	15.26			
Channel				649968	656000	662334	21.0	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.28	20.38	20.30		21.0	
Channel				649334	656000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.19	20.29	20.31	21.0	0.0	
Channel				649000	656000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.23	20.38	20.33		21.0	
Channel				648334	656000	663668			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.19	20.28	20.30	21.0	0.0	
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.28	20.37	20.25		21.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.24	20.30	20.31	21.0	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.20	20.28	20.26		21.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.22	20.28	20.24	21.0	0.0	
Channel				647168	656000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.19	20.36	20.30		21.0	
Channel				647000	656000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.28	20.34	20.28		21.0	

Part270 n77 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	24.0	0.0	
Frequency (MHz)				23.33	23.39	23.29			
100	PI2 BPSK	1	1	23.23	23.33	23.26			
100	PI2 BPSK	1	137	23.14	23.27	23.23			
100	PI2 BPSK	1	271	23.14	23.27	23.23	23.5	0.5	
100	PI2 BPSK	135	0	22.79	22.88	22.84			
100	PI2 BPSK	135	69	23.28	23.34	23.20			
100	PI2 BPSK	135	138	22.88	22.90	22.79			
100	PI2 BPSK	270	0	22.88	22.94	22.82	24.0	0.0	
100	QPSK	1	1	23.36	23.42	23.32			
100	QPSK	1	137	23.28	23.35	23.25			
100	QPSK	1	271	23.21	23.31	23.22			
100	QPSK	135	0	22.21	22.34	22.26	23.0	1.0	
100	QPSK	135	69	23.22	23.36	23.26			
100	QPSK	135	138	22.34	22.39	22.34			
100	QPSK	270	0	22.30	22.45	22.39			
100	16QAM	1	1	22.45	22.57	22.51	23.0	1.0	
100	64QAM	1	1	20.74	20.88	20.77			
100	256QAM	1	1	18.58	18.67	18.63			
Channel				649968	656000	662334	24.0	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.28	23.35	23.24		24.0	
Channel				649334	656000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.11	23.34	23.27	24.0	0.0	
Channel				649000	656000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.25	23.37	23.29		24.0	
Channel				648334	656000	663668			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.26	23.38	23.18	24.0	0.0	
Channel				647334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.25	23.28	23.27		24.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.29	23.30	23.19	24.0	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.24	23.36	23.19		24.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.31	23.28	23.25	24.0	0.0	
Channel				647168	656000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.31	23.32	23.21		24.0	
Channel				647000	656000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.26	23.29	23.25		24.0	

Part270 n78 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)				
Channel							21.0	0.0				
Frequency (MHz)												
100	PI2 BPSK	1	1		20.31							
100	PI2 BPSK	1	137		20.27							
100	PI2 BPSK	1	271		20.22		20.5	0.5				
100	PI2 BPSK	135	0		19.13							
100	PI2 BPSK	135	69		20.25							
100	PI2 BPSK	135	138		19.01							
100	PI2 BPSK	270	0		19.07		20.5	0.5				
100	QPSK	1	1		20.35							
100	QPSK	1	137		20.30					21.0	0.0	
100	QPSK	1	271		20.17							
100	QPSK	135	0		18.82		21.0	1.0				
100	QPSK	135	69		20.29							
100	QPSK	135	138		18.67							
100	QPSK	270	0		18.72							
100	16QAM	1	1		18.84		20.0	1.0				
100	16QAM	1	1		18.84							
100	64QAM	1	1		17.56							
100	256QAM	1	1		15.33							
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3745.02	3750	3755.01						
90	QPSK	1	1	20.19	20.24	20.14	21.0	0.0				
Channel				649334	650000	650668						
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)				
80	QPSK	1	1	23.23	20.28	20.11						
Channel				649000	650000	651000	21.0	0.0				
Frequency (MHz)				3735	3750	3765						
70	QPSK	1	1	20.15	20.28	20.18	21.0	0.0				
Channel				649168	650000	651334						
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)				
60	QPSK	1	1	20.19	20.25	20.13						
Channel				649334	650000	651668	21.0	MPR (dB)				
Frequency (MHz)				3725.01	3750	3775.02						
50	QPSK	1	1	20.24	20.27	20.13	21.0	0.0				
Channel				649000	650000	652000						
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)				
40	QPSK	1	1	20.20	20.28	20.19						
Channel				647668	650000	652334	21.0	0.0				
Frequency (MHz)				3715.02	3750	3785.01						
30	QPSK	1	1	20.27	20.30	20.08	21.0	MPR (dB)				
Channel				647334	650000	652668						
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)				
20	QPSK	1	1	20.25	20.24	20.08						
Channel				647168	650000	652834	21.0	0.0				
Frequency (MHz)				3707.52	3750	3792.51						
15	QPSK	1	1	20.22	20.27	20.19	21.0	0.0				
Channel				647000	650000	653000						
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)				
10	QPSK	1	1	20.16	20.23	20.20						

Part270 n78 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750		3750			
100	PI/2 BPSK	1	1		23.17		24.0	0.0	
100	PI/2 BPSK	1	137		23.08				
100	PI/2 BPSK	1	271		23.02				
100	PI/2 BPSK	135	0		22.52				
100	PI/2 BPSK	135	69		23.09		23.5	0.5	
100	PI/2 BPSK	135	138		22.46		23.5	0.5	
100	PI/2 BPSK	270	0		22.53				
100	QPSK	1	1		23.21				
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.04		24.0	0.0	
100	QPSK	135	0		22.01		23.0	1.0	
100	QPSK	135	69		23.14				
100	QPSK	135	138		21.95				
100	QPSK	270	0		22.05				
100	16QAM	1	1		22.03		23.0	1.0	
100	64QAM	1	1		20.85		23.5	2.5	
100	256QAM	1	1		18.88		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)		
90	QPSK	1	1	23.11	23.15	23.05	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)		
80	QPSK	1	1	23.09	23.18	23.02	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)		
70	QPSK	1	1	23.13	23.18	22.97	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)		
60	QPSK	1	1	23.12	23.08	22.98	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)		
50	QPSK	1	1	23.05	23.08	22.94	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)		
40	QPSK	1	1	23.12	23.09	23.04	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)		
30	QPSK	1	1	23.11	23.17	23.03	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)		
20	QPSK	1	1	23.09	23.14	23.01	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)		
15	QPSK	1	1	23.11	23.18	23.00	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)		
10	QPSK	1	1	23.09	23.16	22.94	24.0	0.0	



n5 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166800	Power Middle Ch. Freq. 167300	Power High Ch. Freq. 167800	Tune-up limit (dbm)	MPR (db)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	21.69	21.83	21.79	23.0	0.0	
20	PI2 BPSK	1	53	21.73	21.78	21.87			
20	PI2 BPSK	1	104	21.81	21.70	21.68			
20	PI2 BPSK	50	0	21.34	21.41	21.34	22.5	0.5	
20	PI2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0	
20	PI2 BPSK	50	56	21.24	21.34	21.20	22.5	0.5	
20	PI2 BPSK	100	0	21.35	21.40	21.28			
20	QPSK	1	1	21.83	21.89	21.76			
20	QPSK	1	53	21.71	21.82	21.70	23.0	0.0	
20	QPSK	1	104	21.65	21.76	21.81	22.0	1.0	
20	QPSK	50	0	20.79	20.87	20.76			
20	QPSK	50	28	21.68	21.81	21.76			
20	QPSK	50	56	20.70	20.84	20.75	22.0	1.0	
20	QPSK	100	0	20.77	20.90	20.80			
20	QPSK	1	1	21.22	21.28	21.13			
20	16QAM	1	1	19.46	19.57	19.45	20.5	2.5	
20	256QAM	1	1	17.39	17.51	17.41	18.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
15	QPSK	1	1	21.72	21.78	21.64	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
10	QPSK	1	1	21.76	21.81	21.66	23.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
5	QPSK	1	1	21.77	21.84	21.69	23.0	0.0	

n7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 504000	Power Middle Ch. Freq. 507000	Power High Ch. Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2520	2535	2550			
Frequency (MHz)									
40	PI2 BPSK	1	1	19.67	19.77	19.70	21.0	0.0	
40	PI2 BPSK	1	108	19.61	19.72	19.65			
40	PI2 BPSK	1	214	19.55	19.67	19.60			
40	PI2 BPSK	108	0	19.51	19.57	19.54	21.0	0.0	
40	PI2 BPSK	108	54	19.60	19.69	19.63	21.0	0.0	
40	PI2 BPSK	108	108	19.45	19.53	19.42	21.0	0.0	
40	PI2 BPSK	216	0	19.51	19.56	19.48			
40	QPSK	1	1	19.79	19.83	19.71			
40	QPSK	1	108	19.72	19.78	19.62	21.0	0.0	
40	QPSK	1	214	19.66	19.71	19.60			
40	QPSK	108	0	19.65	19.68	19.61			
40	QPSK	108	54	19.72	19.78	19.62	21.0	0.0	
40	QPSK	108	108	19.61	19.70	19.65	21.0	0.0	
40	QPSK	216	0	19.66	19.74	19.71			
40	16QAM	1	1	19.57	19.68	19.61	21.0	0.0	
40	64QAM	1	1	19.50	19.61	19.57	21.0	0.0	
40	256QAM	1	1	18.52	18.67	18.59	19.5	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	19.71	19.72	19.65	21.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	19.75	19.71	19.62	21.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	PI2 BPSK	1	1	19.66	19.77	19.62	21.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	19.66	19.73	19.59	21.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	19.69	19.69	19.60	21.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	19.64	19.79	19.63	21.0	0.0	

n66 Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 346000	Power Middle Ch. Freq. 349000	Power High Ch. Freq. 352000	Tune-up limit (dBm)	MPR (dB)			
Channel				1730	1745	1760					
Frequency (MHz)											
40	PI2 BPSK	1	1	21.72	21.91	21.86	23.0	0.0			
40	PI2 BPSK	1	108	21.74	21.78	21.74					
40	PI2 BPSK	1	214	21.81	21.79	21.71					
40	PI2 BPSK	108	0	21.67	21.64	21.66	23.0	0.0			
40	PI2 BPSK	108	54	21.76	21.81	21.68	23.0	0.0			
40	PI2 BPSK	108	108	21.55	21.67	21.56	23.0	0.0			
40	PI2 BPSK	216	0	21.62	21.64	21.59					
40	QPSK	1	1	21.92	21.98	21.89					
40	QPSK	1	108	21.80	21.89	21.89	23.0	0.0			
40	QPSK	1	214	21.79	21.88	21.76	23.0	0.0			
40	QPSK	108	0	21.52	21.67	21.54					
40	QPSK	108	54	21.78	21.89	21.81					
40	QPSK	108	108	21.65	21.72	21.62	23.0	0.0			
40	QPSK	216	0	21.67	21.77	21.70	23.0	0.0			
40	16QAM	1	1	21.61	21.68	21.65					
40	64QAM	1	1	19.79	19.93	19.80	21.5	1.5			
40	256QAM	1	1	18.00	18.05	18.01	19.5	3.5			
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1725	1745	1765					
30	QPSK	1	1	21.82	21.86	21.79	23.0	0.0			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1720	1745	1770	(dBm)				
20	QPSK	1	1	21.88	21.91	21.82	23.0	0.0			
				343000	349000	354500				Tune-up limit (dBm)	MPR (dB)
				Frequency (MHz)		1717.5				1745	1772.5
15	QPSK	1	1	21.77	21.95	21.78	23.0	0.0			
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1715	1745	1775	(dBm)				
10	QPSK	1	1	21.88	21.89	21.82	23.0	0.0			
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1712.5	1745	1777.5 <td>(dBm)</td> <th colspan="2"></th>	(dBm)				
5	QPSK	1	1	21.82	21.93	21.76	23.0	0.0			



n38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	20.20	20.23	20.16	21.7	0.0	
40	PV2 BPSK	1	53	20.15	20.17	20.09			
40	PV2 BPSK	1	104	20.04	20.05	20.12			
40	PV2 BPSK	50	0	20.00	20.20	19.91	21.7	0.0	
40	PV2 BPSK	50	28	20.05	20.14	20.10	21.7	0.0	
40	PV2 BPSK	50	56	20.07	20.10	20.00	21.7	0.0	
40	PV2 BPSK	100	0	20.26	20.16	20.11			
40	QPSK	1	1	20.25	20.31	20.21			
40	QPSK	1	53	20.15	20.29	20.18	21.7	0.0	
40	QPSK	1	104	20.13	20.27	20.14	21.7	0.0	
40	QPSK	50	0	20.16	20.24	20.09			
40	QPSK	50	28	20.25	20.26	20.17			
40	QPSK	50	56	20.13	20.20	20.20	21.7	0.0	
40	QPSK	100	0	20.14	20.31	20.15			
40	QPSK	1	1	20.01	20.12	19.96			
40	64QAM	1	1	20.00	20.04	20.03	21.5	0.2	
40	256QAM	1	1	17.71	17.80	17.66	19.5	2.2	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	20.10	20.19	20.14	21.7	0.0	
Channel				518504	518000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.35	2595	2607.48			
25	QPSK	1	1	20.16	20.21	20.13	21.7	0.0	
Channel				518000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	20.10	20.21	20.00	21.7	0.0	
Channel				515002	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	20.16	20.21	20.16	21.7	0.0	
Channel				515004	518000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2625.10	2595	2614.98			
10	QPSK	1	1	20.13	20.15	20.16	24.0	0.0	

n41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	20.30	20.29	20.26	21.7	0.0	
100	PV2 BPSK	1	137	20.18	20.28	20.22			
100	PV2 BPSK	1	271	20.18	20.17	20.21			
100	PV2 BPSK	135	0	20.08	20.24	20.04	21.7	0.0	
100	PV2 BPSK	135	69	20.11	20.26	20.14	21.7	0.0	
100	PV2 BPSK	135	138	20.19	20.15	20.09	21.7	0.0	
100	PV2 BPSK	270	0	20.29	20.27	20.18			
100	QPSK	1	1	20.34	20.44	20.39			
100	QPSK	1	137	20.25	20.40	20.31	21.7	0.0	
100	QPSK	1	271	20.26	20.34	20.28	21.7	0.0	
100	QPSK	135	0	20.20	20.34	20.23			
100	QPSK	135	69	20.37	20.38	20.27			
100	QPSK	135	138	20.21	20.29	20.25	21.7	0.0	
100	QPSK	270	0	20.23	20.35	20.26			
100	QPSK	1	1	20.05	20.17	20.08			
100	16QAM	1	1	20.13	20.18	20.12	21.5	0.2	
100	256QAM	1	1	17.85	17.94	17.81	19.5	2.2	
Channel				508200	518598	529996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	20.25	20.36	20.23	21.7	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	20.20	20.32	20.19	21.7	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.28	20.37	20.22	21.7	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.27	20.41	20.27	21.7	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2602.98	2664.98			
50	QPSK	1	1	20.27	20.30	20.21	21.7	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	20.20	20.37	20.27	21.7	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.30	20.35	20.29	21.7	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.27	20.38	20.20	21.7	0.0	

n41 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	23.41	23.43	23.43	24.7	0.0	
100	PV2 BPSK	1	137	23.36	23.42	23.28			
100	PV2 BPSK	1	271	23.30	23.27	23.37			
100	PV2 BPSK	135	0	23.16	23.34	23.25	24.7	0.0	
100	PV2 BPSK	135	69	23.35	23.32	23.24	24.7	0.0	
100	PV2 BPSK	135	138	23.22	23.35	23.24	24.7	0.0	
100	PV2 BPSK	270	0	23.34	23.36	23.29			
100	QPSK	1	1	23.48	23.53	23.41			
100	QPSK	1	137	23.49	23.44	23.36	24.7	0.0	
100	QPSK	1	271	23.32	23.42	23.44	24.7	0.0	
100	QPSK	135	0	23.34	23.45	23.42			
100	QPSK	135	69	23.35	23.50	23.36			
100	QPSK	135	138	23.38	23.32	23.33	24.7	0.0	
100	QPSK	270	0	23.35	23.40	23.36			
100	16QAM	1	1	23.27	23.35	23.30			
100	64QAM	1	1	23.38	23.40	23.32	24.5	0.2	
100	256QAM	1	1	21.80	21.68	21.63	22.5	2.2	
Channel				508200	518598	529996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	23.41	23.48	23.37	24.7	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	23.40	23.42	23.23	24.7	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.44	23.46	23.28	24.7	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.38	23.39	23.31	24.7	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2602.98	2664.98			
50	QPSK	1	1	23.35	23.48	23.36	24.7	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	23.35	23.44	23.23	24.7	0.0	
Channel				502202	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.35	23.45	23.35	24.7	0.0	
Channel				501204	518598	536996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2640.02	2652.99	2678.98			
20	QPSK	1	1	23.41	23.50	23.28	24.7	0.0	

Part270 n77 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI/2 BPSK	1	1	23.12	23.17	23.05	24.0	0.0	
100	PI/2 BPSK	1	137	23.03	23.12	23.01			
100	PI/2 BPSK	1	271	23.03	23.08	22.94			
100	PI/2 BPSK	135	0	21.59	21.61	21.54	23.5	0.5	
100	PI/2 BPSK	135	69	23.09	23.13	22.98	24.0	0.0	
100	PI/2 BPSK	135	138	21.54	21.63	21.48	23.5	0.5	
100	PI/2 BPSK	270	0	21.58	21.67	21.48			
100	QPSK	1	1	23.18	23.24	23.09			
100	QPSK	1	137	23.19	23.21	23.12	24.0	0.0	
100	QPSK	1	271	23.17	23.17	23.02	23.0	1.0	
100	QPSK	135	0	21.53	21.63	21.54			
100	QPSK	135	69	23.17	23.19	23.07			
100	QPSK	135	138	21.51	21.63	21.50	23.0	1.0	
100	QPSK	270	0	21.62	21.67	21.52	23.0	1.0	
100	16QAM	1	1	21.56	21.66	21.52			
100	64QAM	1	1	20.14	20.23	20.12	21.5	2.5	
100	256QAM	1	1	18.22	18.32	18.18	19.5	4.5	
Channel				646568	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3840	3935.01			
90	QPSK	1	1	23.08	23.11	22.94			
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	23.00	23.10	22.94	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	23.01	23.07	22.96	24.0	0.0	
Channel				646568	656000	663334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	23.03	23.09	22.98	24.0	0.0	
Channel				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.01	23.07	22.96	24.0	0.0	
Channel				646568	656000	663334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	23.04	23.13	23.00	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.06	23.11	22.98	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.05	23.12	22.99	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.03	23.16	22.99	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.07	23.12	22.93	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.05	23.09	22.97	24.0	0.0	
Channel				3705 <th>3840</th> <th>3975</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.03	23.08	22.96	24.0	0.0	

Part270 n77 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tuneup limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI/2 BPSK	1	1	25.98	26.10	26.03	27.0	0.0	
100	PI/2 BPSK	1	137	25.95	26.07	25.93			
100	PI/2 BPSK	1	271	25.94	26.01	25.98			
100	PI/2 BPSK	135	0	25.42	25.51	25.37	26.5	0.5	
100	PI/2 BPSK	135	69	25.96	26.00	25.90	27.0	0.0	
100	PI/2 BPSK	135	138	25.48	25.58	25.51	26.5	0.5	
100	PI/2 BPSK	270	0	25.54	25.61	25.48			
100	QPSK	1	1	26.07	26.17	26.12			
100	QPSK	1	137	26.01	26.11	26.03	27.0	0.0	
100	QPSK	1	271	26.97	26.06	26.96	26.0	1.0	
100	QPSK	135	0	25.05	25.09	24.98			
100	QPSK	135	69	26.03	26.12	26.04			
100	QPSK	135	138	24.97	25.04	24.96	26.0	1.0	
100	QPSK	270	0	25.05	25.11	25.02	26.0	1.0	
100	16QAM	1	1	25.00	25.14	25.04			
100	64QAM	1	1	23.62	23.67	23.53	24.5	2.5	
100	256QAM	1	1	21.56	21.69	21.62	22.5	4.5	
Channel				645968	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	1	25.94	26.10	26.06	27.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
80	QPSK	1	1	26.01	26.03	25.99	27.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	1	26.02	26.13	26.03	27.0	0.0	
Channel				3730.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	1	25.95	26.06	26.07	27.0	0.0	
Channel				649334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	1	26.04	26.12	26.01	27.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	26.00	26.04	26.07	27.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	25.97	26.11	26.09	27.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	25.99	26.12	26.05	27.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	26.02	26.02	26.01	27.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	25.98	26.03	26.01	27.0	0.0	

Part270 n78 Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)
Channel				3750	3750	3750	24.0
Frequency (MHz)							
100	PI2 BPSK	1	1		23.05		0.0
100	PI2 BPSK	1	137		22.90		
100	PI2 BPSK	1	271		22.92		0.5
100	PI2 BPSK	135	0		21.54		
100	PI2 BPSK	135	69		22.97		0.0
100	PI2 BPSK	135	138		21.56		
100	PI2 BPSK	270	0		21.60		0.5
100	QPSK	1	1		23.13		
100	QPSK	1	137		23.02		24.0
100	QPSK	1	271		22.86		
100	QPSK	135	0		21.54		23.0
100	QPSK	135	69		23.07		
100	QPSK	135	138		21.48		23.0
100	QPSK	270	0		21.53		
100	16QAM	1	1		21.69		23.0
100	64QAM	1	1		19.94		
100	256QAM	1	1		18.07		19.5
Channel				649668	650000	650334	
Frequency (MHz)				3745.02	3750	3755.01	24.0
90	QPSK	1	1		23.01	23.03	
Channel				649334	650000	650668	MPR
Frequency (MHz)				3740.01	3750	3760.02	
80	QPSK	1	1		22.94	23.00	24.0
Channel				648000	650000	651000	
Frequency (MHz)				3735	3750	3765	24.0
70	QPSK	1	1		22.94	23.00	
Channel				647668	650000	651334	MPR
Frequency (MHz)				3730.02	3750	3770.01	
60	QPSK	1	1		22.94	23.01	24.0
Channel				647334	650000	651668	
Frequency (MHz)				3725.01	3750	3775.02	24.0
50	QPSK	1	1		23.02	23.05	
Channel				646000	650000	652000	MPR
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1		23.00	23.02	24.0
Channel				647668	650000	652334	
Frequency (MHz)				3715.02	3750	3785.01	24.0
30	QPSK	1	1		22.98	22.98	
Channel				647334	650000	652668	MPR
Frequency (MHz)				3710.01	3750	3790.02	
20	QPSK	1	1		23.00	23.04	24.0
Channel				647168	650000	652834	
Frequency (MHz)				3707.62	3750	3782.51	24.0
15	QPSK	1	1		23.00	23.08	
Channel				647000	650000	653000	MPR
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	1		22.98	23.07	24.0

Part270 n78 HPUE Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)
Channel				3750	3750	3750	27.0
Frequency (MHz)							
100	PI2 BPSK	1	1		26.08		0.0
100	PI2 BPSK	1	137		26.05		
100	PI2 BPSK	1	271		25.99		0.5
100	PI2 BPSK	135	0		25.50		
100	PI2 BPSK	135	69		26.00		27.0
100	PI2 BPSK	135	138		25.39		
100	PI2 BPSK	270	0		25.46		26.5
100	QPSK	1	1		26.15		
100	QPSK	1	137		26.08		27.0
100	QPSK	1	271		26.02		
100	QPSK	135	0		25.00		26.0
100	QPSK	135	69		26.09		
100	QPSK	135	138		24.95		26.0
100	QPSK	270	0		24.98		
100	16QAM	1	1		25.29		26.0
100	64QAM	1	1		23.83		
100	256QAM	1	1		21.76		22.5
Channel				649668	650000	650334	
Frequency (MHz)				3745.02	3750	3755.01	27.0
90	QPSK	1	1		25.95	26.11	
Channel				649334	650000	650668	MPR
Frequency (MHz)				3740.01	3750	3760.02	
80	QPSK	1	1		25.94	26.05	27.0
Channel				648000	650000	651000	
Frequency (MHz)				3735	3750	3765	27.0
70	QPSK	1	1		26.02	26.09	
Channel				647668	650000	651334	MPR
Frequency (MHz)				3730.02	3750	3770.01	
60	QPSK	1	1		25.93	26.10	27.0
Channel				647334	650000	651668	
Frequency (MHz)				3725.01	3750	3775.02	27.0
50	QPSK	1	1		25.96	26.04	
Channel				646000	650000	652000	MPR
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1		26.01	26.05	27.0
Channel				647668	650000	652334	
Frequency (MHz)				3715.02	3750	3785.01	27.0
30	QPSK	1	1		25.94	26.01	
Channel				647334	650000	652668	MPR
Frequency (MHz)				3710.01	3750	3790.02	
20	QPSK	1	1		25.98	26.03	27.0
Channel				647168	650000	652834	
Frequency (MHz)				3707.62	3750	3782.51	27.0
15	QPSK	1	1		25.94	26.07	
Channel				647000	650000	653000	MPR
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	1		25.97	26.10	27.0

n7 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2530	2535	2550	18.8	0.0
Frequency (MHz)				17.33	17.33	17.24		
40	PI/2 BPSK	1	1	17.33	17.33	17.24		
40	PI/2 BPSK	1	108	17.19	17.36	17.21		
40	PI/2 BPSK	1	214	17.16	17.23	17.25	18.8	0.0
40	PI/2 BPSK	108	0	17.01	17.19	17.17		
40	PI/2 BPSK	108	54	17.22	17.26	17.19		
40	PI/2 BPSK	108	108	17.11	17.20	17.15		
40	PI/2 BPSK	216	0	17.24	17.26	17.15	18.8	0.0
40	QPSK	1	1	17.40	17.42	17.36		
40	QPSK	1	108	17.36	17.37	17.34		
40	QPSK	1	214	17.26	17.31	17.30		
40	QPSK	108	0	17.21	17.23	17.19	18.8	0.0
40	QPSK	108	54	17.35	17.38	17.20		
40	QPSK	108	108	17.04	17.17	17.11		
40	QPSK	216	0	17.16	17.24	17.19		
40	16QAM	1	1	17.16	17.31	17.08	18.8	0.0
40	64QAM	1	1	17.08	17.18	17.20		
40	256QAM	1	1	17.09	17.26	17.12		
Channel				503000	507000	511000	18.8	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.38	17.32	17.25		
Channel				502500	507000	511500	18.8	0.0
Frequency (MHz)				2512.5	2535	2537.5		
25	QPSK	1	1	17.27	17.23	17.23		
Channel				502000	507000	512000	18.8	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	17.32	17.37	17.27		
Channel				501500	507000	512500	18.8	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.33	17.35	17.25		
Channel				501000	507000	513000	18.8	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.30	17.34	17.24		
Channel				500500	507000	513500	18.8	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.25	17.29	17.23		

n66 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1760	24.0	0.0
Frequency (MHz)				23.43	23.51	23.47		
40	PI/2 BPSK	1	1	23.43	23.51	23.47		
40	PI/2 BPSK	1	108	23.36	23.47	23.38		
40	PI/2 BPSK	1	214	23.38	23.44	23.40	23.5	0.5
40	PI/2 BPSK	108	0	22.89	23.04	23.00		
40	PI/2 BPSK	108	54	23.44	23.48	23.43		
40	PI/2 BPSK	108	108	23.02	23.08	23.02		
40	PI/2 BPSK	216	0	23.01	23.13	23.02	23.0	0.0
40	QPSK	1	1	23.48	23.58	23.51		
40	QPSK	1	108	23.38	23.52	23.39		
40	QPSK	1	214	23.33	23.48	23.36		
40	QPSK	108	0	22.44	22.54	22.50	23.0	1.0
40	QPSK	108	54	23.39	23.50	23.40		
40	QPSK	108	108	22.34	22.47	22.41		
40	QPSK	216	0	22.45	22.51	22.43		
40	16QAM	1	1	22.45	22.58	22.47	23.0	1.0
40	64QAM	1	1	20.82	20.95	20.90		
40	256QAM	1	1	18.96	18.99	18.93		
Channel				345000	349000	353000	18.8	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.40	23.52	23.39		
Channel				344000	349000	354000	18.8	0.0
Frequency (MHz)				1722	1745	1770		
20	QPSK	1	1	23.44	23.51	23.48		
Channel				343500	349000	354500	18.8	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.42	23.47	23.41		
Channel				343000	349000	355000	18.8	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.38	23.52	23.45		
Channel				342500	349000	355500	18.8	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.40	23.45	23.39		



n38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2595.02	2595	2599.98			
40	PI2 BPSK	1	1	17.95	18.05	18.00		19.2	0.0
40	PI2 BPSK	1	53	17.51	17.94	17.97			
40	PI2 BPSK	1	104	17.76	17.94	17.91			
40	PI2 BPSK	50	0	17.75	17.74	17.77	19.2	0.0	
40	PI2 BPSK	50	28	17.79	17.93	17.90	19.2	0.0	
40	PI2 BPSK	50	56	17.80	17.94	17.73		19.2	0.0
40	PI2 BPSK	100	0	17.80	17.85	17.91			
40	QPSK	1	1	18.13	18.15	17.99			
40	QPSK	1	53	18.00	18.03	17.84	19.2	0.0	
40	QPSK	1	104	17.90	17.91	17.89		19.2	0.0
40	QPSK	50	0	17.80	17.94	17.83			
40	QPSK	50	28	17.89	18.05	17.79	19.2		
40	QPSK	50	56	17.83	17.90	17.87		19.2	0.0
40	QPSK	100	0	18.00	18.03	17.88			
40	16QAM	1	1	17.84	17.87	17.85	19.2		
40	64QAM	1	1	17.89	17.92	17.88	19.2	0.0	
40	256QAM	1	1	17.73	17.73	17.78	19.2	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	17.95	18.00	17.99	19.2	0.0	
Channel				518504	519000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.51	2595	2607.48			
25	QPSK	1	1	17.95	17.97	17.99	19.2	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585	2595	2610			
20	QPSK	1	1	17.97	17.91	17.89	19.2	0.0	
Channel				515500	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	18.00	17.94	17.94	19.2	0.0	
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2625.01	2595	2614.98			
10	QPSK	1	1	18.00	17.94	17.94	24.5	0.0	

n41 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.04	18.11	18.10		19.2	0.0
100	PI2 BPSK	1	137	17.95	18.08	18.01			
100	PI2 BPSK	1	271	17.85	17.98	17.97			
100	PI2 BPSK	135	0	17.85	17.87	17.87	19.2	0.0	
100	PI2 BPSK	135	69	17.85	18.00	18.04	19.2	0.0	
100	PI2 BPSK	135	138	17.86	17.82	17.85		19.2	0.0
100	PI2 BPSK	270	0	17.88	17.95	17.98			
100	QPSK	1	1	18.17	18.19	18.06			
100	QPSK	1	137	18.11	18.14	17.99	19.2	0.0	
100	QPSK	1	271	18.01	17.96	17.92		19.2	0.0
100	QPSK	135	0	17.97	18.06	17.95			
100	QPSK	135	69	18.01	18.10	17.89	19.2		
100	QPSK	135	138	17.88	18.04	17.85		19.2	0.0
100	QPSK	270	0	18.04	18.11	18.02			
100	16QAM	1	1	17.94	17.97	17.89	19.2	0.0	
100	64QAM	1	1	17.77	17.97	17.98	19.2	0.0	
100	256QAM	1	1	17.86	17.88	17.86	19.2	0.0	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.04	18.05	18.03	19.2	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	18.02	18.13	17.92	19.2	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.08	18.11	17.92	19.2	0.0	
Channel				505200	518598	531506	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	18.08	18.16	18.01	19.2	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.98	2664.98			
50	QPSK	1	1	18.05	18.00	18.01	19.2	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	18.07	18.15	18.03	19.2	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.08	18.09	17.92	19.2	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.13	18.14	18.00	19.2	0.0	

n41 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.03	21.16	21.16		22.2	0.0
100	PI2 BPSK	1	137	20.98	21.09	21.07			
100	PI2 BPSK	1	271	20.86	21.03	20.93			
100	PI2 BPSK	135	0	20.85	20.84	20.88	22.2	0.0	
100	PI2 BPSK	135	69	20.88	21.04	20.99	22.2	0.0	
100	PI2 BPSK	135	138	20.90	20.87	20.91		22.2	0.0
100	PI2 BPSK	270	0	20.84	20.99	20.98			
100	QPSK	1	1	21.18	21.22	21.04			
100	QPSK	1	137	21.08	21.14	21.04	22.2	0.0	
100	QPSK	1	271	20.97	20.92	20.97		22.2	0.0
100	QPSK	135	0	20.96	21.10	20.88			
100	QPSK	135	69	21.00	21.06	20.92	22.2		
100	QPSK	135	138	20.95	21.01	21.01		22.2	0.0
100	QPSK	270	0	21.06	21.08	21.02			
100	16QAM	1	1	20.99	20.98	20.87	22.2		
100	64QAM	1	1	20.73	20.98	20.98	22.2	0.0	
100	256QAM	1	1	20.83	20.86	20.85	22.2	0.0	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.08	21.13	21.01	22.2	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	21.13	21.17	20.94	22.2	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.13	21.08	21.01	22.2	0.0	
Channel				505200	518598	531506	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.13	21.12	21.00	22.2	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.98	2664.98			
50	QPSK	1	1	21.08	21.16	20.98	22.2	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.09	21.15	20.94	22.2	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.07	21.19	20.89	22.2	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.10	21.09	20.90	22.2	0.0	

Part270 n77 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	18.72	18.78	18.67	19.7	0.0	
100	PI/2 BPSK	1	137	18.64	18.66	18.60			
100	PI/2 BPSK	1	271	18.55	18.65	18.50			
100	PI/2 BPSK	135	0	18.45	18.52	18.48	19.7	0.0	
100	PI/2 BPSK	135	69	18.53	18.64	18.48	19.7	0.0	
100	PI/2 BPSK	135	138	18.59	18.57	18.43			
100	PI/2 BPSK	270	0	18.60	18.70	18.58			
100	QPSK	1	1	18.77	18.65	18.71	19.7	0.0	
100	QPSK	1	137	18.65	18.80	18.72			
100	QPSK	1	271	18.58	18.78	18.68			
100	QPSK	135	0	18.58	18.66	18.58	19.7	0.0	
100	QPSK	135	69	18.67	18.75	18.59	19.7	0.0	
100	QPSK	135	138	18.50	18.58	18.57			
100	QPSK	270	0	18.52	18.63	18.60			
100	16QAM	1	1	18.55	18.61	18.56	19.7	0.0	
100	64QAM	1	1	18.51	18.68	18.70			
100	256QAM	1	1	17.91	18.05	17.95			
Channel				649686	656000	662334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.61	18.80	18.64	19.7	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.62	18.78	18.60	19.7	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.64	18.74	18.63	19.7	0.0	
Channel				649686	656000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.63	18.73	18.65	19.7	0.0	
Channel				649334	656000	663668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.64	18.68	18.63	19.7	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.64	18.79	18.62	19.7	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.66	18.79	18.58	19.7	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.62	18.74	18.61	19.7	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.65	18.72	18.65	19.7	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.70	18.74	18.64	19.7	0.0	

Part270 n77 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI/2 BPSK	1	1	21.91	21.86	21.88	22.7	0.0	
100	PI/2 BPSK	1	137	21.83	21.85	21.84			
100	PI/2 BPSK	1	271	21.81	21.87	21.65			
100	PI/2 BPSK	135	0	21.65	21.70	21.65	22.7	0.0	
100	PI/2 BPSK	135	69	21.77	21.81	21.69	22.7	0.0	
100	PI/2 BPSK	135	138	21.74	21.73	21.69	22.7	0.0	
100	PI/2 BPSK	270	0	21.81	21.87	21.78			
100	QPSK	1	1	21.97	22.01	21.98			
100	QPSK	1	137	21.88	21.98	21.84	22.7	0.0	
100	QPSK	1	271	21.84	21.84	21.89	22.7	0.0	
100	QPSK	135	0	21.84	21.89	21.82			
100	QPSK	135	69	21.90	21.97	21.78			
100	QPSK	135	138	21.86	21.78	21.70	22.7	0.0	
100	QPSK	270	0	21.72	21.82	21.76	22.7	0.0	
100	16QAM	1	1	21.71	21.87	21.82			
100	64QAM	1	1	21.68	21.80	21.86			
100	256QAM	1	1	21.50	21.59	21.58	22.5	0.2	
Channel				649568	656000	662334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.74	21.78	21.75	22.7	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.71	21.72	21.67	22.7	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.77	21.73	21.71	22.7	0.0	
Channel				649568	656000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.76	21.75	21.65	22.7	0.0	
Channel				649334	656000	663668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.69	21.72	21.75	22.7	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.77	21.71	21.67	22.7	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.75	21.78	21.76	22.7	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.70	21.76	21.68	22.7	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.73	21.81	21.69	22.7	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.76	21.75	21.70	22.7	0.0	

Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	18.61			19.7	0.0	
100	PI/2 BPSK	1	137	18.49					
100	PI/2 BPSK	1	271	18.52					
100	PI/2 BPSK	135	0	18.28			19.7	0.0	
100	PI/2 BPSK	135	69	18.37			19.7	0.0	
100	PI/2 BPSK	135	138	18.34			19.7	0.0	
100	PI/2 BPSK	270	0	18.47			19.7	0.0	
100	QPSK	1	1	18.71			19.7	0.0	
100	QPSK	1	137	18.64					
100	QPSK	1	271	18.60					
100	QPSK	135	0	18.50			19.7	0.0	
100	QPSK	135	69	18.56			19.7	0.0	
100	QPSK	135	138	18.38			19.7	0.0	
100	QPSK	270	0	18.40			19.7	0.0	
100	16QAM	1	1	18.46			19.7	0.0	
100	64QAM	1	1	18.56			19.7	0.0	
100	256QAM	1	1	18.18			19.5	0.2	
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.58	18.63	18.47	19.7	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.57	18.62	18.51	19.7	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.50	18.64	18.52	19.7	0.0	
Channel				649568	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.47	18.64	18.41	19.7	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.49	18.58	18.43	19.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.50	18.63	18.42	19.7	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.50	18.62	18.46	19.7	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.56	18.69	18.44	19.7	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	18.50	18.58	18.51	19.7	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.58	18.64	18.42	19.7	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI/2 BPSK	1	1		21.83		22.7	0.0	
100	PI/2 BPSK	1	137		21.73				
100	PI/2 BPSK	1	271		21.70				
100	PI/2 BPSK	135	0		21.80		22.7	0.0	
100	PI/2 BPSK	135	69		21.86		22.7	0.0	
100	PI/2 BPSK	135	138		21.60		22.7	0.0	
100	PI/2 BPSK	270	0		21.86		22.7	0.0	
100	QPSK	1	1		21.86		22.7	0.0	
100	QPSK	1	137		21.80				
100	QPSK	1	271		21.78				
100	QPSK	135	0		21.71		22.7	0.0	
100	QPSK	135	69		21.81		22.7	0.0	
100	QPSK	135	138		21.56		22.7	0.0	
100	QPSK	270	0		21.74		22.7	0.0	
100	16QAM	1	1		21.64		22.7	0.0	
100	64QAM	1	1		21.77		22.7	0.0	
100	256QAM	1	1		21.80		22.5	0.2	
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		21.71	21.76	22.7	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		21.68	21.71	21.77	22.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		21.73	21.76	21.70	22.7	0.0
Channel				649568	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		21.77	21.77	21.67	22.7	0.0
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		21.72	21.79	21.75	22.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		21.70	21.79	21.75	22.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		21.75	21.73	21.70	22.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		21.74	21.76	21.67	22.7	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		21.72	21.77	21.72	22.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		21.77	21.72	21.66	22.7	0.0

n7 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2530	2535	2550	22.8	0.0	
Frequency (MHz)				21.76	21.83	21.73			
40	PI/2 BPSK	1	1	21.69	21.80	21.73			
40	PI/2 BPSK	1	108	21.68	21.78	21.71			
40	PI/2 BPSK	1	214	21.68	21.78	21.71	22.8	0.0	
40	PI/2 BPSK	108	0	21.53	21.58	21.56			
40	PI/2 BPSK	108	54	21.61	21.79	21.70			
40	PI/2 BPSK	108	108	21.65	21.87	21.62			
40	PI/2 BPSK	216	0	21.69	21.71	21.61	22.8	0.0	
40	QPSK	1	1	21.83	21.87	21.76			
40	QPSK	1	108	21.79	21.83	21.65			
40	QPSK	1	214	21.72	21.82	21.64			
40	QPSK	108	0	21.65	21.71	21.65	22.8	0.0	
40	QPSK	108	54	21.77	21.81	21.69			
40	QPSK	108	108	21.81	21.71	21.69			
40	QPSK	216	0	21.71	21.76	21.64			
40	16QAM	1	1	21.55	21.63	21.67	22.8	0.0	
40	64QAM	1	1	21.42	21.45	21.35			
40	256QAM	1	1	19.38	19.32	19.48			
Channel				503000	507000	510000	22.8	0.0	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.73	21.82	21.71			
Channel				502500	507000	511500	22.8	0.0	
Frequency (MHz)				2512.5	2535	2537.5			
25	QPSK	1	1	21.73	21.79	21.69			
Channel				502000	507000	512000	22.8	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	21.71	21.82	21.69		22.8	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	21.75	21.75	21.73			
Channel				501000	507000	513000	22.8	0.0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.76	21.74	21.71			
Channel				500500	507000	513500	22.8	0.0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.80	21.63	21.67			

n66 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760	22.9	0.0	
Frequency (MHz)				22.12	22.21	22.14			
40	PI/2 BPSK	1	1	22.12	22.16	22.14			
40	PI/2 BPSK	1	108	22.12	22.14	22.14			
40	PI/2 BPSK	1	214	22.13	22.14	22.14	22.9	0.0	
40	PI/2 BPSK	108	0	21.92	21.95	21.95			
40	PI/2 BPSK	108	54	22.01	22.19	22.12			
40	PI/2 BPSK	108	108	22.12	22.08	22.00			
40	PI/2 BPSK	216	0	22.08	22.14	21.98	22.9	0.0	
40	QPSK	1	1	22.16	22.24	22.12			
40	QPSK	1	108	22.10	22.12	22.11			
40	QPSK	1	214	22.21	22.22	22.07			
40	QPSK	108	0	22.11	22.18	22.07	22.9	0.0	
40	QPSK	108	54	22.10	22.21	22.02			
40	QPSK	108	108	22.04	22.12	22.01			
40	QPSK	216	0	22.01	22.16	22.06			
40	16QAM	1	1	21.98	22.15	22.13	22.9	0.0	
40	64QAM	1	1	21.13	21.16	21.14			
40	256QAM	1	1	19.37	19.40	19.32			
Channel				345000	349000	353000	22.9	0.0	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.07	22.15	21.98			
Channel				344000	349000	354000	22.9	0.0	
Frequency (MHz)				1722	1745	1770			
20	QPSK	1	1	22.04	22.10	22.01			
Channel				343500	349000	354500	22.9	0.0	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.00	22.14	22.03			
Channel				343000	349000	355000	22.9	0.0	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.03	22.18	22.05			
Channel				342500	349000	355500	22.9	0.0	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.05	22.13	22.01			



n38 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	22.47	22.67	22.58	23.4	0.0	
40	PV2 BPSK	1	53	22.50	22.53	22.51			
40	PV2 BPSK	1	104	22.30	22.57	22.39			
40	PV2 BPSK	50	0	22.26	22.41	22.35	23.4	0.0	
40	PV2 BPSK	50	28	22.47	22.54	22.40	23.4	0.0	
40	PV2 BPSK	50	56	22.34	22.35	22.36	23.4	0.0	
40	PV2 BPSK	100	0	22.38	22.45	22.36			
40	QPSK	1	1	22.59	22.70	22.51			
40	QPSK	1	53	22.63	22.60	22.48	23.4	0.0	
40	QPSK	1	104	22.44	22.56	22.49			
40	QPSK	50	0	22.43	22.54	22.42		23.4	
40	QPSK	50	28	22.51	22.66	22.35	23.4	0.0	
40	QPSK	50	56	22.43	22.56	22.42	23.4	0.0	
40	QPSK	100	0	22.53	22.57	22.52			
40	16QAM	1	1	22.45	22.47	22.41		23.4	
40	64QAM	1	1	21.58	21.64	21.54	22.0	1.4	
40	256QAM	1	1	19.29	19.40	19.32	20.0	3.4	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	22.53	22.59	22.43	23.4	0.0	
Channel				518504	518000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	22.50	22.54	22.42	23.4	0.0	
Channel				518000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.46	22.58	22.41	23.4	0.0	
Channel				515000	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.47	22.62	22.39	23.4	0.0	
Channel				515002	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.53	22.59	22.43	24.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	22.57	22.71	22.61	23.4	0.0	
100	PV2 BPSK	1	137	22.53	22.57	22.55			
100	PV2 BPSK	1	271	22.41	22.61	22.49			
100	PV2 BPSK	135	0	22.33	22.48	22.49	23.4	0.0	
100	PV2 BPSK	135	69	22.54	22.62	22.50	23.4	0.0	
100	PV2 BPSK	135	138	22.42	22.47	22.49	23.4	0.0	
100	PV2 BPSK	270	0	22.51	22.48	22.48			
100	QPSK	1	1	22.83	22.77	22.56			
100	QPSK	1	137	22.72	22.74	22.51	23.4	0.0	
100	QPSK	1	271	22.57	22.64	22.59			
100	QPSK	135	0	22.58	22.60	22.51		23.4	
100	QPSK	135	69	22.59	22.70	22.46	23.4	0.0	
100	QPSK	135	138	22.58	22.60	22.56	23.4	0.0	
100	QPSK	270	0	22.62	22.66	22.66			
100	16QAM	1	1	22.50	22.60	22.54	23.4	0.0	
100	64QAM	1	1	21.85	21.70	21.68	22.0	1.4	
100	256QAM	1	1	18.43	19.47	19.47	20.0	3.4	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	22.53	22.73	22.43	23.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2633.02	2592.99	2643.99			
80	QPSK	1	1	22.10	22.68	22.50	23.4	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.58	22.64	22.50	23.4	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	22.59	22.69	22.52	23.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2644.98			
50	QPSK	1	1	22.55	22.64	22.43	23.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	22.58	22.68	22.45	23.4	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	22.53	22.70	22.52	23.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2606.02	2592.99	2679.99			
20	QPSK	1	1	22.52	22.72	22.46	23.4	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.43	25.62	25.51	26.4	0.0	
100	PV2 BPSK	1	137	25.39	25.43	25.45			
100	PV2 BPSK	1	271	25.36	25.58	25.38			
100	PV2 BPSK	135	0	25.22	25.39	25.45	26.4	0.0	
100	PV2 BPSK	135	69	25.46	25.53	25.37	26.4	0.0	
100	PV2 BPSK	135	138	25.29	25.43	25.40	26.4	0.0	
100	PV2 BPSK	270	0	25.41	25.42	25.39			
100	QPSK	1	1	25.85	25.72	25.59			
100	QPSK	1	137	25.63	25.65	25.47	26.4	0.0	
100	QPSK	1	271	25.45	25.52	25.46			
100	QPSK	135	0	25.50	25.52	25.47			
100	QPSK	135	69	25.55	25.63	25.37	26.4	0.0	
100	QPSK	135	138	25.50	25.51	25.52	26.4	0.0	
100	QPSK	270	0	25.57	25.60	25.47			
100	16QAM	1	1	25.83	25.55	25.46	26.4	0.0	
100	64QAM	1	1	24.71	24.74	24.69	25.0	1.4	
100	256QAM	1	1	22.21	22.32	22.18	23.0	3.4	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	25.55	25.59	25.50	26.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2633.02	2592.99	2643.99			
80	QPSK	1	1	25.59	25.62	25.54	26.4	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	25.54	25.65	25.48	26.4	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	25.58	25.68	25.51	26.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2644.98			
50	QPSK	1	1	25.80	25.66	25.55	26.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	25.54	25.57	25.45	26.4	0.0	
Channel				502202	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	25.60	25.67	25.45	26.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2604.02	2592.99	2679.98			
20	QPSK	1	1	25.56	25.60	25.51	26.4	0.0	

Part270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				Frequency (MHz)			19.8	0.0	
				3750					
100	PI2 BPSK	1	1	18.54	18.62	18.57	19.8	0.0	
100	PI2 BPSK	1	137	18.48	18.55	18.51			
100	PI2 BPSK	1	271	18.39	18.57	18.46			
100	PI2 BPSK	135	0	18.39	18.51	18.43	19.8	0.0	
100	PI2 BPSK	135	69	18.52	18.58	18.44	19.8	0.0	
100	PI2 BPSK	135	138	18.44	18.48	18.50	19.8	0.0	
100	PI2 BPSK	270	0	18.49	18.57	18.49	19.8	0.0	
100	QPSK	1	1	18.63	18.69	18.54	19.8	0.0	
100	QPSK	1	137	18.60	18.65	18.51			
100	QPSK	1	271	18.52	18.52	18.45			
100	QPSK	135	0	18.48	18.55	18.50	19.8	0.0	
100	QPSK	135	69	18.53	18.65	18.49	19.8	0.0	
100	QPSK	135	138	18.42	18.50	18.46	19.8	0.0	
100	QPSK	270	0	18.50	18.57	18.52			
100	16QAM	1	1	18.43	18.58	18.50		0.0	
100	64QAM	1	1	18.40	18.47	18.43	19.8	0.0	
100	256QAM	1	1	18.43	18.49	18.33	19.5	0.3	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				649668					
90	QPSK	1	1	18.54	18.57	18.41	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				649334					
80	QPSK	1	1	18.59	18.60	18.49	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3735					
70	QPSK	1	1	18.59	18.63	18.43	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3730.02					
60	QPSK	1	1	18.59	18.55	18.49	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3725.01					
50	QPSK	1	1	18.60	18.66	18.47	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3720					
40	QPSK	1	1	18.59	18.64	18.49	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3715.02					
30	QPSK	1	1	18.52	18.60	18.51	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3710.01					
20	QPSK	1	1	18.60	18.62	18.42	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3707.52					
15	QPSK	1	1	18.57	18.55	18.41	19.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3705					
10	QPSK	1	1	18.52	18.65	18.43	19.8	0.0	

Part270 n77 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (db)	
Channel				Frequency (MHz)			22.8	0.0	
				3750					
100	PI2 BPSK	1	1	21.14	21.22	21.14	22.8	0.0	
100	PI2 BPSK	1	137	21.14	21.19	21.07			
100	PI2 BPSK	1	271	20.97	21.12	21.02			
100	PI2 BPSK	135	0	20.99	21.14	21.06	22.8	0.0	
100	PI2 BPSK	135	69	21.18	21.21	21.03	22.8	0.0	
100	PI2 BPSK	135	138	21.04	21.05	21.15	22.8	0.0	
100	PI2 BPSK	270	0	21.14	21.20	21.10	22.8	0.0	
100	QPSK	1	1	21.21	21.34	21.11	22.8	0.0	
100	QPSK	1	137	21.23	21.25	21.15			
100	QPSK	1	271	21.12	21.12	21.10			
100	QPSK	135	0	21.04	21.19	21.07	22.8	0.0	
100	QPSK	135	69	21.14	21.27	21.05	22.8	0.0	
100	QPSK	135	138	21.06	21.11	21.09	22.8	0.0	
100	QPSK	270	0	21.16	21.19	21.08			
100	16QAM	1	1	21.06	21.16	21.06			
100	64QAM	1	1	20.97	21.07	21.00	22.8	0.0	
100	256QAM	1	1	20.76	20.83	20.79	22.5	0.3	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				649668					
90	QPSK	1	1	21.03	21.15	20.93	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				649334					
80	QPSK	1	1	21.07	21.15	20.94	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				3740.01					
70	QPSK	1	1	21.12	21.22	20.97	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				3735					
60	QPSK	1	1	21.12	21.14	20.92	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				3730.02					
50	QPSK	1	1	21.10	21.13	20.92	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				3725.01					
40	QPSK	1	1	21.04	21.17	20.89	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				3720					
30	QPSK	1	1	21.09	21.18	20.92	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				3715.02					
20	QPSK	1	1	21.11	21.14	21.01	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				3710.01					
15	QPSK	1	1	21.07	21.24	20.95	22.8	0.0	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (db)	
				3705					
10	QPSK	1	1	21.02	21.14	21.02	22.8	0.0	

Part270 n78 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		18.50		19.8	0.0	
100	PI2 BPSK	1	137		18.48				
100	PI2 BPSK	1	271		18.43				
100	PI2 BPSK	135	0		18.35		19.8	0.0	
100	PI2 BPSK	135	69		18.45		19.8	0.0	
100	PI2 BPSK	135	138		18.33		19.8	0.0	
100	PI2 BPSK	270	0		18.50				
100	QPSK	1	1		18.53				
100	QPSK	1	137		18.52		19.8	0.0	
100	QPSK	1	271		18.42		19.8	0.0	
100	QPSK	135	0		18.48				
100	QPSK	135	69		18.46				
100	QPSK	135	138		18.43		19.8	0.0	
100	QPSK	270	0		18.51		19.8	0.0	
100	16QAM	1	1		18.47		19.8	0.0	
100	64QAM	1	1		18.35		19.8	0.0	
100	256QAM	1	1		18.32		19.5	0.3	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3750.01			
90	QPSK	1	1	18.48	18.42	18.27	19.8	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.02			
80	QPSK	1	1	18.48	18.43	18.35	19.8	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.44	18.47	18.27	19.8	0.0	
Channel				648334	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.44	18.42	18.28	19.8	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.42	18.49	18.38	19.8	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.48	18.51	18.28	19.8	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.49	18.51	18.30	19.8	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.43	18.40	18.37	19.8	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52 <td>3750</td> <td>3792.51</td> <th></th> <th colspan="2"></th>	3750	3792.51			
15	QPSK	1	1	18.46	18.44	18.33	19.8	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705 <td>3750</td> <td>3795</td>	3750	3795			
10	QPSK	1	1	18.43	18.50	18.35	19.8	0.0	

Part270 n78 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		21.10		22.8	0.0	
100	PI2 BPSK	1	137		21.05				
100	PI2 BPSK	1	271		20.94				
100	PI2 BPSK	135	0		20.94		22.8	0.0	
100	PI2 BPSK	135	69		21.09		22.8	0.0	
100	PI2 BPSK	135	138		20.90		22.8	0.0	
100	PI2 BPSK	270	0		21.09				
100	QPSK	1	1		21.19				
100	QPSK	1	137		21.09		22.8	0.0	
100	QPSK	1	271		20.96		22.8	0.0	
100	QPSK	135	0		21.05				
100	QPSK	135	69		21.10				
100	QPSK	135	138		20.94		22.8	0.0	
100	QPSK	270	0		21.14		22.8	0.0	
100	16QAM	1	1		21.04				
100	64QAM	1	1		20.94				
100	256QAM	1	1		21.00		22.5	0.3	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	21.10	21.13	20.98	22.8	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.04	21.14	20.96	22.8	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.08	21.14	20.96	22.8	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	21.04	21.15	20.98	22.8	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3785.02			
50	QPSK	1	1	21.04	21.14	20.97	22.8	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3790			
40	QPSK	1	1	21.05	21.17	20.93	22.8	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	21.01	21.16	20.95	22.8	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	21.04	21.10	21.00	22.8	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	21.10	21.16	20.97	22.8	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	21.11	21.12	21.02	22.8	0.0	



n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166300	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.18	23.23	23.13		
20	PI2 BPSK	1	53	23.04	23.14	23.06	23.5	0.5
20	PI2 BPSK	1	104	22.98	23.06	22.94		
20	PI2 BPSK	50	0	22.65	22.76	22.73		
20	PI2 BPSK	50	28	23.08	23.18	23.11	23.5	0.5
20	PI2 BPSK	50	56	22.59	22.64	22.51		
20	PI2 BPSK	100	0	22.66	22.70	22.63		
20	QPSK	1	1	23.23	23.27	23.16	24.0	0.0
20	QPSK	1	53	23.11	23.18	23.13		
20	QPSK	1	104	22.98	23.09	22.98		
20	QPSK	50	0	22.14	22.28	22.21	23.0	1.0
20	QPSK	50	28	23.15	23.21	23.08		
20	QPSK	50	56	22.14	22.18	22.06		
20	QPSK	100	0	22.17	22.23	22.13	23.0	1.0
20	16QAM	1	1	22.39	22.48	22.42		
20	64QAM	1	1	20.73	20.86	20.79		
20	256QAM	1	1	18.89	19.01	18.96	19.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.11	23.18	23.08		
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.13	23.15	23.02		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836.5	836.5	846.5		
5	QPSK	1	1	23.17	23.23	23.04		

n7 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000	20.0	0.0
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	18.66	18.66	18.69		
40	PI2 BPSK	1	108	18.68	18.91	18.69	20.0	0.0
40	PI2 BPSK	1	214	18.67	18.70	18.73		
40	PI2 BPSK	108	0	18.57	18.70	18.58		
40	PI2 BPSK	108	54	18.73	18.70	18.82	20.0	0.0
40	PI2 BPSK	108	108	18.64	18.81	18.79		
40	PI2 BPSK	216	0	18.72	18.83	18.74		
40	QPSK	1	1	18.85	18.83	18.91	20.0	0.0
40	QPSK	1	108	18.88	18.80	18.83		
40	QPSK	1	214	18.88	18.83	18.71		
40	QPSK	108	0	18.66	18.90	18.79	20.0	0.0
40	QPSK	108	54	18.71	18.91	18.76		
40	QPSK	108	108	18.71	18.75	18.77		
40	QPSK	216	0	18.67	18.72	18.58	20.0	0.0
40	16QAM	1	1	18.78	18.80	18.77		
40	64QAM	1	1	18.91	18.83	18.83		
40	256QAM	1	1	17.30	17.38	17.23	18.5	1.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.04	18.79	18.83		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.67	18.92	18.74		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
20	PI2 BPSK	1	1	18.89	18.78	18.78		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.61	18.84	18.80		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.85	18.79	18.76		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.78	18.87	18.79		

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	352000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.14	22.27	22.17		
40	PI2 BPSK	1	108	22.07	22.22	22.11	22.5	0.5
40	PI2 BPSK	1	214	22.08	22.16	22.12		
40	PI2 BPSK	108	0	21.86	21.86	21.82		
40	PI2 BPSK	108	54	22.02	22.20	22.13	22.5	0.5
40	PI2 BPSK	108	108	21.89	21.81	21.78		
40	PI2 BPSK	216	0	21.74	21.84	21.85		
40	QPSK	1	1	22.23	22.38	22.31	23.0	0.0
40	QPSK	1	108	22.04	22.26	22.14		
40	QPSK	1	214	22.02	22.21	22.07		
40	QPSK	108	0	21.13	21.36	21.24	22.0	1.0
40	QPSK	108	54	22.15	22.29	22.24		
40	QPSK	108	108	21.24	21.48	21.35		
40	QPSK	216	0	21.28	21.43	21.29	22.0	1.0
40	16QAM	1	1	20.96	21.11	21.01		
40	64QAM	1	1	19.67	19.83	19.81		
40	256QAM	1	1	17.59	17.85	17.73	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.11	22.27	22.20		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.16	22.31	22.24		
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1714.5	1745	1772.5		
15	QPSK	1	1	22.18	22.28	22.24		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1772.5		
10	QPSK	1	1	22.19	22.22	22.17		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.16	22.29	22.21		



n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	P12 BPSK	1	1	19.03	19.19	19.08	20.4	0.0	
40	P12 BPSK	1	53	18.88	19.11	18.86			
40	P12 BPSK	1	104	18.85	18.97	19.00			
40	P12 BPSK	50	0	19.10	19.12	19.07	20.4	0.0	
40	P12 BPSK	50	28	19.15	19.19	19.11	20.4	0.0	
40	P12 BPSK	50	56	18.84	19.10	18.83	20.4	0.0	
40	P12 BPSK	100	0	18.87	18.97	18.84			
40	QPSK	1	1	19.22	19.28	19.17			
40	QPSK	1	53	19.05	19.24	18.84	20.4	0.0	
40	QPSK	1	104	18.94	19.02	19.03	20.4	0.0	
40	QPSK	50	0	19.20	19.25	18.99			
40	QPSK	50	28	18.93	19.21	18.78			
40	QPSK	50	56	19.13	19.12	19.09	20.4	0.0	
40	QPSK	100	0	18.83	19.11	18.82			
40	16QAM	1	1	18.78	18.90	18.88			
40	64QAM	1	1	18.75	18.93	18.74	20.4	0.0	
40	256QAM	1	1	17.11	17.27	17.12	18.5	1.9	
Channel				517002	519000	520998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	19.00	19.16	18.80	20.4	0.0	
Channel				518504	519000	521496	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	19.08	19.21	19.03	20.4	0.0	
Channel				518000	519000	522000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.05	19.17	18.81	20.4	0.0	
Channel				518500	519000	522498	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	18.94	19.16	18.83	20.4	0.0	
Channel				518004	519000	522996	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2593.50	2595	2614.98			
10	QPSK	1	1	18.88	19.21	18.83	20.4	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	P12 BPSK	1	1	19.15	19.32	19.15	20.4	0.0	
100	P12 BPSK	1	137	18.96	19.20	18.90			
100	P12 BPSK	1	271	18.97	19.04	19.08			
100	P12 BPSK	135	0	19.23	19.24	19.17	20.4	0.0	
100	P12 BPSK	135	69	19.22	19.27	19.18	20.4	0.0	
100	P12 BPSK	135	138	18.98	19.20	18.93	20.4	0.0	
100	P12 BPSK	270	0	18.99	19.05	19.08			
100	QPSK	1	1	19.27	19.36	19.27			
100	QPSK	1	137	19.09	19.28	19.05	20.4	0.0	
100	QPSK	1	271	19.07	19.13	19.16			
100	QPSK	135	0	19.24	19.31	19.14			
100	QPSK	135	69	19.04	19.33	18.89	20.4	0.0	
100	QPSK	135	138	19.24	19.24	19.22	20.4	0.0	
100	QPSK	270	0	18.97	19.22	19.05			
100	16QAM	1	1	18.92	18.99	19.00	20.4	0.0	
100	64QAM	1	1	18.90	18.97	18.85	20.4	0.0	
100	256QAM	1	1	16.63	16.68	16.80	18.5	1.9	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.92	19.08	19.12	20.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	19.01	19.03	19.00	20.4	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.92	19.07	19.10	20.4	0.0	
Channel				508200	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	18.95	19.06	19.03	20.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2644.98			
50	QPSK	1	1	18.95	19.00	19.04	20.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	19.01	19.09	19.00	20.4	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.93	19.02	19.09	20.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.98	19.06	19.05	20.4	0.0	

n41 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508200	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	P12 BPSK	1	1	22.25	22.28	22.20	23.4	0.0	
100	P12 BPSK	1	137	22.21	22.31	22.14			
100	P12 BPSK	1	271	22.12	22.27	22.09			
100	P12 BPSK	135	0	22.21	22.40	22.28	23.4	0.0	
100	P12 BPSK	135	69	22.22	22.36	22.26	23.4	0.0	
100	P12 BPSK	135	138	22.07	22.25	22.13	23.4	0.0	
100	P12 BPSK	270	0	22.08	22.18	22.18			
100	QPSK	1	1	22.34	22.42	22.36			
100	QPSK	1	137	22.18	22.38	22.24	23.4	0.0	
100	QPSK	1	271	22.16	22.30	22.24			
100	QPSK	135	0	22.30	22.31	22.34			
100	QPSK	135	69	22.02	22.36	22.19	23.4	0.0	
100	QPSK	135	138	22.19	22.34	22.28	23.4	0.0	
100	QPSK	270	0	22.24	22.34	22.24			
100	16QAM	1	1	22.08	22.29	22.10	23.4	0.0	
100	64QAM	1	1	22.01	22.18	22.09	23.4	0.0	
100	256QAM	1	1	20.21	20.35	20.29	21.5	1.9	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.12	22.19	22.17	23.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	22.09	22.19	22.21	23.4	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.01	22.15	22.18	23.4	0.0	
Channel				508200	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	22.06	22.22	22.16	23.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2644.98			
50	QPSK	1	1	22.02	22.14	22.22	23.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	22.01	22.20	22.20	23.4	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.04	22.26	22.20	23.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.01	2592.99	2679.98			
20	QPSK	1	1	22.06	22.22	22.16	23.4	0.0	

Part270 n77 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.24	20.37	20.28	21.0	0.0	
100	PI2 BPSK	1	137	20.20	20.33	20.22			
100	PI2 BPSK	1	271	20.15	20.28	20.22			
100	PI2 BPSK	135	0	18.72	18.78	18.74	20.5	0.5	
100	PI2 BPSK	135	69	20.22	20.31	20.19	21.0	0.0	
100	PI2 BPSK	135	138	18.63	18.76	18.67	20.5	0.5	
100	PI2 BPSK	270	0	18.80	18.88	18.80			
100	QPSK	1	1	20.37	20.43	20.31	21.0	0.0	
100	QPSK	1	137	20.19	20.35	20.25			
100	QPSK	1	271	20.13	20.31	20.20			
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0	
100	QPSK	135	69	20.20	20.38	20.27	21.0	0.0	
100	QPSK	135	138	18.84	18.96	18.81	20.0	1.0	
100	QPSK	270	0	18.91	19.02	18.86			
100	16QAM	1	1	18.60	18.68	18.60	20.0	1.0	
100	64QAM	1	1	17.49	17.65	17.53	18.5	2.5	
100	256QAM	1	1	15.22	15.32	15.26	16.5	4.5	
Channel				649668	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.26	20.38	20.30	21.0	0.0	
Channel				649334	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.19	20.29	20.31	21.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.23	20.38	20.32	21.0	0.0	
Channel				648666	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.19	20.28	20.30	21.0	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.28	20.37	20.25	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3740	3760	(dBm)	(dB)	
40	QPSK	1	1	20.24	20.30	20.31	21.0	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	20.20	20.28	20.26	21.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.22	20.28	20.24	21.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.16	20.35	20.30	21.0	0.0	
Channel				647000	658000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.28	20.34	20.28	21.0	0.0	

Part270 n77 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.33	23.39	23.29	24.0	0.0	
100	PI2 BPSK	1	137	23.23	23.33	23.26			
100	PI2 BPSK	1	271	23.14	23.27	23.23			
100	PI2 BPSK	135	0	22.79	22.88	22.84	23.5	0.5	
100	PI2 BPSK	135	69	23.28	23.34	23.20	24.0	0.0	
100	PI2 BPSK	135	138	22.86	22.90	22.79	23.5	0.5	
100	PI2 BPSK	270	0	22.88	22.94	22.82			
100	QPSK	1	1	23.36	23.42	23.32	24.0	0.0	
100	QPSK	1	137	23.28	23.35	23.25			
100	QPSK	1	271	23.21	23.31	23.22			
100	QPSK	135	0	22.21	22.34	22.26	23.0	1.0	
100	QPSK	135	69	23.22	23.38	23.26	24.0	0.0	
100	QPSK	135	138	22.34	22.39	22.34	23.0	1.0	
100	QPSK	270	0	22.32	22.45	22.39			
100	16QAM	1	1	22.46	22.57	22.51	23.0	1.0	
100	64QAM	1	1	20.74	20.88	20.77	21.5	2.5	
100	256QAM	1	1	18.58	18.67	18.63	19.5	4.5	
Channel				649668	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	23.28	23.35	23.24	24.0	0.0	
Channel				649334	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	23.11	23.34	23.27	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	23.29	23.37	23.29	24.0	0.0	
Channel				648666	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	23.26	23.38	23.18	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	23.25	23.28	23.27	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3740	3760	(dBm)	(dB)	
40	QPSK	1	1	23.29	23.30	23.19	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	23.24	23.38	23.19	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	23.31	23.28	23.25	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	23.31	23.32	23.21	24.0	0.0	
Channel				647000	658000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	23.28	23.29	23.25	24.0	0.0	

Part270 n78 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)		
Channel				3750	3750	3750				
Frequency (MHz)										
100	PI2 BPSK	1	1		20.31		21.0	0.0		
100	PI2 BPSK	1	137		20.27					
100	PI2 BPSK	1	271		20.22					
100	PI2 BPSK	135	0		19.13		20.5	0.5		
100	PI2 BPSK	135	69		20.25		21.0	0.0		
100	PI2 BPSK	135	138		19.01		20.5	0.5		
100	PI2 BPSK	270	0		19.07					
100	QPSK	1	1		20.35		21.0	0.0		
100	QPSK	1	137		20.30					
100	QPSK	1	271		20.17					
100	QPSK	135	0		19.82		20.0	1.0		
100	QPSK	135	69		20.29		21.0	0.0		
100	QPSK	135	138		18.67		20.0	1.0		
100	QPSK	270	0		18.72					
100	16QAM	1	1		18.84		20.0	1.0		
100	64QAM	1	1		17.58		18.5	2.5		
100	256QAM	1	1		15.33		16.5	4.5		
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1	20.19	20.24	20.14	21.0	0.0		
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.02	3750	3760.02				
80	QPSK	1	1	20.23	20.26	20.11	21.0	0.0		
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1	20.15	20.28	20.18	21.0	0.0		
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1	20.19	20.25	20.13	21.0	0.0		
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1	20.24	20.27	20.13	21.0	0.0		
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	20.20	20.25	20.19	21.0	0.0		
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1	20.27	20.30	20.08	21.0	0.0		
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1	20.25	20.24	20.08	21.0	0.0		
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1	20.22	20.27	20.19	21.0	0.0		
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1	20.16	20.23	20.20	21.0	0.0		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)		
Channel				3750	3750	3750				
Frequency (MHz)										
100	PI2 BPSK	1	1		23.17		24.0	0.0		
100	PI2 BPSK	1	137		23.08					
100	PI2 BPSK	1	271		23.02					
100	PI2 BPSK	135	0		22.52		23.5	0.5		
100	PI2 BPSK	135	69		23.09		24.0	0.0		
100	PI2 BPSK	135	138		22.46		23.5	0.5		
100	PI2 BPSK	270	0		22.53					
100	QPSK	1	1		23.21		24.0	0.0		
100	QPSK	1	137		23.11					
100	QPSK	1	271		23.04					
100	QPSK	135	0		22.01		23.0	1.0		
100	QPSK	135	69		23.14		24.0	0.0		
100	QPSK	135	138		21.95		23.0	1.0		
100	QPSK	270	0		22.02		23.0	1.0		
100	16QAM	1	1		22.03					
100	64QAM	1	1		20.85		21.5	2.5		
100	256QAM	1	1		18.88		19.5	4.5		
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1	23.11	23.15	23.05	24.0	0.0		
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1	23.09	23.18	23.02	24.0	0.0		
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1	23.13	23.16	22.97	24.0	0.0		
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1	23.12	23.08	22.98	24.0	0.0		
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1	23.05	23.08	22.94	24.0	0.0		
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	23.12	23.06	23.04	24.0	0.0		
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1	23.11	23.17	23.03	24.0	0.0		
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1	23.09	23.14	23.01	24.0	0.0		
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1	23.11	23.18	23.00	24.0	0.0		
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1	23.09	23.16	22.94	24.0	0.0		



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166800	Power Middle Ch. Freq. 167300	Power High Ch. Freq. 167800	Tune-up limit (dBm)	MPR (db)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	21.69	21.83	21.79	23.0	0.0	
20	PI2 BPSK	1	53	21.73	21.78	21.87			
20	PI2 BPSK	1	104	21.81	21.70	21.68			
20	PI2 BPSK	50	0	21.34	21.41	21.34	22.5	0.5	
20	PI2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0	
20	PI2 BPSK	50	56	21.24	21.34	21.20	22.5	0.5	
20	PI2 BPSK	100	0	21.35	21.40	21.28			
20	QPSK	1	1	21.83	21.89	21.76			
20	QPSK	1	53	21.71	21.82	21.70	23.0	0.0	
20	QPSK	1	104	21.65	21.76	21.61	22.0	1.0	
20	QPSK	50	0	20.79	20.87	20.76			
20	QPSK	50	28	21.68	21.81	21.76			
20	QPSK	50	56	20.70	20.84	20.75	22.0	1.0	
20	QPSK	100	0	20.77	20.90	20.80			
20	QPSK	1	1	21.22	21.28	21.13			
20	16QAM	1	1	19.46	19.57	19.45	20.5	2.5	
20	256QAM	1	1	17.39	17.51	17.41	18.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				831.5	838.5	841.5			
15	QPSK	1	1	21.72	21.78	21.64	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				839	836.5	844			
10	QPSK	1	1	21.76	21.81	21.66	23.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.77	21.84	21.69	23.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 504000	Power Middle Ch. Freq. 507000	Power High Ch. Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2520	2535	2550			
Frequency (MHz)									
40	PI2 BPSK	1	1	19.67	19.77	19.70	21.0	0.0	
40	PI2 BPSK	1	108	19.61	19.72	19.65			
40	PI2 BPSK	1	214	19.55	19.67	19.60			
40	PI2 BPSK	108	0	19.51	19.57	19.54	21.0	0.0	
40	PI2 BPSK	108	54	19.60	19.69	19.63	21.0	0.0	
40	PI2 BPSK	108	108	19.45	19.53	19.42	21.0	0.0	
40	PI2 BPSK	216	0	19.51	19.56	19.48			
40	QPSK	1	1	19.79	19.83	19.71			
40	QPSK	1	108	19.72	19.78	19.62	21.0	0.0	
40	QPSK	1	214	19.66	19.71	19.60	21.0	0.0	
40	QPSK	108	0	19.65	19.68	19.61			
40	QPSK	108	54	19.72	19.78	19.62			
40	QPSK	108	108	19.61	19.70	19.65	21.0	0.0	
40	QPSK	216	0	19.66	19.74	19.71			
40	16QAM	1	1	19.57	19.68	19.61	21.0	0.0	
40	64QAM	1	1	19.50	19.61	19.57	21.0	0.0	
40	256QAM	1	1	18.52	18.67	18.59	19.5	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.71	19.72	19.65	21.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.75	19.71	19.62	21.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	19.66	19.77	19.62	21.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.66	19.73	19.59	21.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.69	19.69	19.60	21.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.64	19.79	19.63	21.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 346000	Power Middle Ch. Freq. 349000	Power High Ch. Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)									
40	PI2 BPSK	1	1	21.72	21.91	21.86	23.0	0.0	
40	PI2 BPSK	1	108	21.74	21.78	21.74			
40	PI2 BPSK	1	214	21.81	21.79	21.71			
40	PI2 BPSK	108	0	21.67	21.64	21.66	23.0	0.0	
40	PI2 BPSK	108	54	21.76	21.81	21.68	23.0	0.0	
40	PI2 BPSK	108	108	21.55	21.67	21.56	23.0	0.0	
40	PI2 BPSK	216	0	21.62	21.64	21.59			
40	QPSK	1	1	21.82	21.98	21.89			
40	QPSK	1	108	21.80	21.89	21.89	23.0	0.0	
40	QPSK	1	214	21.79	21.88	21.76	23.0	0.0	
40	QPSK	108	0	21.52	21.67	21.54			
40	QPSK	108	54	21.78	21.89	21.81			
40	QPSK	108	108	21.65	21.72	21.62	23.0	0.0	
40	QPSK	216	0	21.67	21.77	21.70	23.0	0.0	
40	16QAM	1	1	21.61	21.68	21.65			
40	64QAM	1	1	19.79	19.93	19.80	21.5	1.5	
40	256QAM	1	1	18.00	18.05	18.01	19.5	3.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.82	21.86	21.79	23.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.88	21.91	21.82	23.0	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.77	21.86	21.78	23.0	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.88	21.89	21.82	23.0	0.0	
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.82	21.93	21.76	23.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	518000	518996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	20.19	20.14	20.14	21.5	0.0
40	PI2 BPSK	1	53	20.10	20.20	20.18		
40	PI2 BPSK	1	104	20.11	20.13	20.18		
40	PI2 BPSK	50	0	20.04	20.18	19.98	21.5	0.0
40	PI2 BPSK	50	28	19.97	20.22	20.05	21.5	0.0
40	PI2 BPSK	80	56	20.13	20.10	20.04	21.5	0.0
40	PI2 BPSK	100	0	20.24	20.16	20.02		
40	QPSK	1	1	20.26	20.29	20.19	21.5	0.0
40	QPSK	1	53	20.20	20.36	20.19		
40	QPSK	1	104	20.16	20.27	20.21		
40	QPSK	50	0	20.07	20.22	20.16	21.5	0.0
40	QPSK	50	28	20.31	20.34	20.17	21.5	0.0
40	QPSK	50	56	20.10	20.24	20.14	21.5	0.0
40	QPSK	100	0	20.19	20.30	20.12		
40	16QAM	1	1	18.98	20.12	19.88	21.5	0.0
40	64QAM	1	1	20.01	20.06	19.98	19.5	2.0
40	256QAM	1	1	18.30	18.42	18.29		
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2595.01	2595	2600.99		
30	QPSK	1	1	20.21	20.25	20.18	21.5	0.0
Channel				516904	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	20.10	20.28	20.18	21.5	0.0
Channel				516805	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	20.17	20.25	20.13	21.5	0.0
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	20.12	20.26	20.08	21.5	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2579.02	2595	2614.96		
10	QPSK	1	1	20.10	20.28	20.18	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518596	526800		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.30	20.29	20.26	21.5	0.0
100	PI2 BPSK	1	137	20.18	20.28	20.22		
100	PI2 BPSK	1	271	20.18	20.17	20.21		
100	PI2 BPSK	135	0	20.08	20.24	20.04	21.5	0.0
100	PI2 BPSK	135	69	20.11	20.26	20.14	21.5	0.0
100	PI2 BPSK	135	138	20.19	20.15	20.09	21.5	0.0
100	PI2 BPSK	270	0	20.29	20.27	20.16		
100	QPSK	1	1	20.34	20.44	20.33	21.5	0.0
100	QPSK	1	137	20.25	20.40	20.31		
100	QPSK	1	271	20.20	20.34	20.26		
100	QPSK	135	0	20.20	20.34	20.23	21.5	0.0
100	QPSK	135	69	20.37	20.39	20.27	21.5	0.0
100	QPSK	135	138	20.21	20.29	20.25	21.5	0.0
100	QPSK	270	0	20.23	20.35	20.26		
100	16QAM	1	1	20.05	20.17	20.08	21.5	0.0
100	64QAM	1	1	20.13	20.18	20.12	21.5	0.0
100	256QAM	1	1	17.85	17.94	17.81	19.5	2.0
Channel				508200	518596	526800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.25	20.38	20.23	21.5	0.0
Channel				507204	518596	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	20.20	20.32	20.18	21.5	0.0
Channel				506202	518596	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.26	20.37	20.22	21.5	0.0
Channel				505200	518596	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.27	20.41	20.27	21.5	0.0
Channel				504204	518596	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.05	2592.99	2664.99		
50	QPSK	1	1	20.27	20.30	20.21	21.5	0.0
Channel				503202	518596	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	20.20	20.37	20.27	21.5	0.0
Channel				502200	518596	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.30	20.35	20.29	21.5	0.0
Channel				501204	518596	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.27	20.38	20.20	21.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518596	526800		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.41	23.43	23.43	24.5	0.0
100	PI2 BPSK	1	137	23.26	23.42	23.28		
100	PI2 BPSK	1	271	23.30	23.27	23.37		
100	PI2 BPSK	135	0	23.16	23.34	23.25	24.5	0.0
100	PI2 BPSK	135	69	23.35	23.32	23.24	24.5	0.0
100	PI2 BPSK	135	138	23.22	23.35	23.24	24.5	0.0
100	PI2 BPSK	270	0	23.34	23.36	23.29		
100	QPSK	1	1	23.48	23.53	23.41	24.5	0.0
100	QPSK	1	137	23.49	23.44	23.36		
100	QPSK	1	271	23.32	23.42	23.44		
100	QPSK	135	0	23.34	23.45	23.42	24.5	0.0
100	QPSK	135	69	23.39	23.50	23.36	24.5	0.0
100	QPSK	135	138	23.38	23.32	23.33	24.5	0.0
100	QPSK	270	0	23.35	23.40	23.36		
100	16QAM	1	1	23.27	23.35	23.30	24.5	0.0
100	64QAM	1	1	23.38	23.40	23.32	24.5	0.0
100	256QAM	1	1	21.60	21.66	21.63	22.5	2.0
Channel				508200	518596	526800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.41	23.49	23.37	24.5	0.0
Channel				507204	518596	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	23.40	23.42	23.29	24.5	0.0
Channel				506202	518596	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.44	23.46	23.23	24.5	0.0
Channel				505200	518596	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.36	23.39	23.31	24.5	0.0
Channel				504204	518596	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.05	2592.99	2664.99		
50	QPSK	1	1	23.35	23.48	23.36	24.5	0.0
Channel				503202	518596	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	23.35	23.44	23.29	24.5	0.0
Channel				502200	518596	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.35	23.45	23.35	24.5	0.0
Channel				501204	518596	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.41	23.50	23.29	24.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	24.0	0.0	
Frequency (MHz)				22.59	22.64	22.52			
100	PI2 BPSK	1	1	22.55	22.65	22.49			
100	PI2 BPSK	1	137	22.48	22.58	22.44			
100	PI2 BPSK	1	271	21.45	21.48	21.46	23.5	0.5	
100	PI2 BPSK	135	0	22.55	22.57	22.48	24.0	0.0	
100	PI2 BPSK	135	69	21.47	21.58	21.43	23.0	0.5	
100	PI2 BPSK	135	138	21.48	21.57	21.41	23.5	0.5	
100	PI2 BPSK	270	0	22.71	22.78	22.65	24.0	0.0	
100	QPSK	1	1	22.66	22.72	22.59			
100	QPSK	1	137	22.63	22.72	22.62			
100	QPSK	135	0	21.45	21.49	21.47			
100	QPSK	135	69	22.68	22.72	22.55	23.0	1.0	
100	QPSK	135	138	21.48	21.52	21.38	23.0	1.0	
100	QPSK	270	0	21.52	21.63	21.46	23.0	1.0	
100	16QAM	1	1	21.52	21.62	21.49	23.0	1.0	
100	64QAM	1	1	20.05	20.11	20.00	21.5	2.5	
100	256QAM	1	1	18.07	18.20	18.12	19.5	4.5	
Channel				649334	656000	662968	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	22.58	22.65	22.52	24.0	0.0	
Channel				649334	656000	662968	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	22.57	22.63	22.49	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	22.61	22.72	22.59	24.0	0.0	
Channel				648666	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	22.56	22.69	22.53	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	22.61	22.65	22.47	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	22.59	22.63	22.57	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	22.58	22.63	22.54	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	22.55	22.61	22.56	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	22.53	22.67	22.48	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	22.59	22.64	22.57	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	27.0	0.0	
Frequency (MHz)				25.58	25.69	25.48			
100	PI2 BPSK	1	1	25.54	25.68	25.46			
100	PI2 BPSK	1	271	25.47	25.62	25.39			
100	PI2 BPSK	135	0	24.40	24.54	24.52	26.5	0.5	
100	PI2 BPSK	135	69	25.49	25.58	25.52	27.0	0.0	
100	PI2 BPSK	135	138	24.52	24.64	24.44	26.5	0.5	
100	PI2 BPSK	270	0	24.44	24.58	24.43	27.0	0.0	
100	QPSK	1	1	25.75	25.80	25.63			
100	QPSK	1	137	25.67	25.78	25.56			
100	QPSK	1	271	25.68	25.74	25.59			
100	QPSK	135	0	24.40	24.48	24.43	26.0	1.0	
100	QPSK	135	69	25.65	25.69	25.54	27.0	0.0	
100	QPSK	135	138	24.49	24.47	24.43	26.0	1.0	
100	QPSK	270	0	24.55	24.58	24.40	26.0	1.0	
100	16QAM	1	1	24.58	24.59	24.55	26.0	1.0	
100	64QAM	1	1	23.01	23.05	23.01	24.5	2.5	
100	256QAM	1	1	21.03	21.15	21.07	22.5	4.5	
Channel				649334	656000	662968	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	25.60	25.68	25.52	27.0	0.0	
Channel				649334	656000	662968	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	25.47	25.71	25.53	27.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	25.68	25.68	25.53	27.0	0.0	
Channel				648666	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	25.70	25.75	25.58	27.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	25.70	25.74	25.52	27.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	25.64	25.67	25.55	27.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	25.62	25.68	25.53	27.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	25.68	25.72	25.53	27.0	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	25.64	25.73	25.57	27.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	25.65	25.75	25.59	27.0	0.0	

Part270 n78 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		22.50		24.0	0.0	
100	PI2 BPSK	1	137		22.56				
100	PI2 BPSK	1	271		22.57				
100	PI2 BPSK	135	0		21.38		23.5	0.5	
100	PI2 BPSK	135	69		22.52		24.0	0.0	
100	PI2 BPSK	135	138		21.49		23.5	0.5	
100	PI2 BPSK	270	0		21.50				
100	QPSK	1	1		22.73		24.0	0.0	
100	QPSK	1	137		22.63				
100	QPSK	1	271		22.61				
100	QPSK	135	0		21.39		23.0	1.0	
100	QPSK	135	69		22.63		24.0	0.0	
100	QPSK	135	138		21.39		23.0	1.0	
100	QPSK	270	0		21.54		23.0	1.0	
100	16QAM	1	1		21.54		23.0	1.0	
100	64QAM	1	1		20.01		21.5	2.5	
100	256QAM	1	1		18.05		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3750.01			
90	QPSK	1	1		22.52	22.50	22.38	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.50	22.54	22.45	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.47	22.60	22.47	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.47	22.59	22.37	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		22.42	22.51	22.42	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.49	22.59	22.40	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		22.44	22.60	22.38	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		22.46	22.59	22.39	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		22.50	22.57	22.40	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.50	22.51	22.39	24.0	0.0

Part270 n78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		25.50		27.0	0.0	
100	PI2 BPSK	1	137		25.50				
100	PI2 BPSK	1	271		25.41				
100	PI2 BPSK	135	0		24.43		26.5	0.5	
100	PI2 BPSK	135	69		25.47		27.0	0.0	
100	PI2 BPSK	135	138		24.48		26.5	0.5	
100	PI2 BPSK	270	0		24.38				
100	QPSK	1	1		25.69		27.0	0.0	
100	QPSK	1	137		25.67				
100	QPSK	1	271		25.63				
100	QPSK	135	0		24.37		26.0	1.0	
100	QPSK	135	69		25.55		27.0	0.0	
100	QPSK	135	138		24.27		26.0	1.0	
100	QPSK	270	0		24.59		26.0	1.0	
100	16QAM	1	1		24.47				
100	64QAM	1	1		22.92		24.5	2.5	
100	256QAM	1	1		20.95		22.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3750.01			
90	QPSK	1	1		25.39	25.41	25.39	27.0	0.0
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.47	25.56	25.36	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		25.47	25.53	25.42	27.0	0.0
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		25.43	25.48	25.34	27.0	0.0
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.47	25.50	25.41	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		25.50	25.51	25.42	27.0	0.0
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		25.49	25.56	25.36	27.0	0.0
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		25.43	25.51	25.31	27.0	0.0
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		25.50	25.51	25.37	27.0	0.0
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		25.50	25.56	25.33	27.0	0.0



n7 Ant 2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)				
Channel				2530	2535	2550	15.8	0.0				
Frequency (MHz)				14.71	14.77	14.68						
40	PI2 BPSK	1	1	14.54	14.65	14.49						
40	PI2 BPSK	1	108	14.57	14.60	14.56						
40	PI2 BPSK	108	1	214	14.76	14.76	14.63	15.8	0.0			
40	PI2 BPSK	108	54	14.62	14.71	14.52	15.8	0.0	0.0			
40	PI2 BPSK	108	108	14.58	14.63	14.50	15.8	0.0	0.0			
40	PI2 BPSK	216	0	14.57	14.71	14.49	15.8	0.0	0.0			
40	QPSK	1	1	14.85	14.89	14.74	15.8	0.0				
40	QPSK	1	108	14.67	14.78	14.58						
40	QPSK	1	214	14.66	14.74	14.62						
40	QPSK	108	0	14.51	14.66	14.47						
40	QPSK	108	54	14.74	14.85	14.66	15.8	0.0	0.0			
40	QPSK	108	108	14.53	14.67	14.56	15.8	0.0	0.0			
40	QPSK	216	0	14.73	14.80	14.66	15.8	0.0	0.0			
40	16QAM	1	1	14.53	14.73	14.53	15.8	0.0	0.0			
40	64QAM	1	1	14.51	14.63	14.49	15.8	0.0	0.0			
40	256QAM	1	1	14.54	14.67	14.46	15.8	0.0	0.0			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2515	2535	2555	15.8	0.0				
30	QPSK	1	1	14.78	14.79	14.69						
Channel				502500	507000	511500				Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	14.74	14.81	14.60				15.8	0.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2510	2535	2560	15.8	0.0				
20	PI2 BPSK	1	1	14.79	14.80	14.59						
Channel				501500	507000	512500				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565 <td colspan="2">0.0</td>				0.0		
15	QPSK	1	1	14.76	14.78	14.58	15.8	0.0	0.0			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2505	2535	2565 <td colspan="2">0.0</td>	0.0					
10	QPSK	1	1	14.76	14.85	14.69	15.5	0.0	0.0			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2502.5	2535	2567.5 <td colspan="2">0.0</td>	0.0					
5	QPSK	1	1	14.79	14.80	14.58	15.8	0.0	0.0			

n66 Ant 2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dbm)	MPR (db)				
Channel				1730	1745	1760	24.0	0.0				
Frequency (MHz)				23.43	23.51	23.47						
40	PI2 BPSK	1	1	23.43	23.51	23.47						
40	PI2 BPSK	1	108	23.38	23.47	23.38						
40	PI2 BPSK	1	214	23.38	23.44	23.40						
40	PI2 BPSK	108	0	0.289	23.04	23.00	23.5	0.5	0.5			
40	PI2 BPSK	108	54	23.44	23.48	23.43	24.0	0.0	0.0			
40	PI2 BPSK	108	108	23.02	23.06	23.02	23.5	0.5	0.5			
40	PI2 BPSK	216	0	0.201	23.13	23.02	23.5	0.5	0.5			
40	QPSK	1	1	23.49	23.56	23.51	24.0	0.0				
40	QPSK	1	108	23.38	23.52	23.39						
40	QPSK	1	214	23.33	23.48	23.36						
40	QPSK	108	0	0.244	22.54	22.50						
40	QPSK	108	54	23.39	23.50	23.40	24.0	0.0	0.0			
40	QPSK	108	108	22.34	22.47	22.41	23.0	1.0	1.0			
40	QPSK	216	0	0.242	22.51	22.43	23.0	1.0	1.0			
40	16QAM	1	1	22.45	22.58	22.47	23.0	1.0	1.0			
40	64QAM	1	1	20.82	20.95	20.90	21.5	2.5	2.5			
40	256QAM	1	1	18.96	18.99	18.93	19.5	4.5	4.5			
Channel				345000	349000	353000	Tune-up limit (dbm)	MPR (db)				
Frequency (MHz)				1725	1745	1765	24.0	0.0				
30	QPSK	1	1	23.40	23.52	23.39						
Channel				344000	349000	354000				Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1720	1745	1770				24.0	0.0	
20	QPSK	1	1	23.44	23.51	23.48						
Channel				343500	349000	354500	Tune-up limit (dbm)	MPR (db)				
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0				
15	QPSK	1	1	23.42	23.47	23.41						
Channel				343000	349000	355000				Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1715	1745	1775				24.0	0.0	
10	QPSK	1	1	23.38	23.52	23.45						
Channel				342500	349000	355500	Tune-up limit (dbm)	MPR (db)				
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0				
5	QPSK	1	1	23.40	23.45	23.39						



n38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Middle Ch./F.Freq.	Power High Ch./F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	15.57	15.62	15.41	16.8	0.0	
40	PV2 BPSK	1	53	15.33	15.47	15.35			
40	PV2 BPSK	1	104	15.49	15.46	15.41			
40	PV2 BPSK	50	0	15.52	15.64	15.44	16.8	0.0	
40	PV2 BPSK	50	28	15.43	15.51	15.38	16.8	0.0	
40	PV2 BPSK	50	56	15.37	15.40	15.42	16.8	0.0	
40	PV2 BPSK	100	0	15.35	15.51	15.40			
40	QPSK	1	1	15.62	15.73	15.48			
40	QPSK	1	53	15.57	15.56	15.48	16.8	0.0	
40	QPSK	1	104	16.54	15.57	15.44	16.8	0.0	
40	QPSK	50	0	15.32	15.45	15.33			
40	QPSK	50	28	15.55	15.64	15.51			
40	QPSK	50	56	15.42	15.53	15.38	16.8	0.0	
40	QPSK	100	0	15.51	15.63	15.43			
40	16QAM	1	1	15.44	15.47	15.40			
40	64QAM	1	1	15.40	15.46	15.43	16.8	0.0	
40	256QAM	1	1	15.48	15.49	15.27	16.8	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	15.43	15.57	15.34	16.8	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	15.43	15.51	15.29	16.8	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	15.40	15.56	15.20	16.0	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	15.39	15.56	15.32	16.8	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2625.102	2595	2614.98			
10	QPSK	1	1	15.43	15.51	15.29	24.5	0.0	

n41 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	15.61	15.68	15.56	16.8	0.0	
100	PQ2 BPSK	1	137	15.47	15.59	15.43			
100	PQ2 BPSK	1	271	15.56	15.61	15.54			
100	PQ2 BPSK	135	0	15.59	15.75	15.54	16.8	0.0	
100	PQ2 BPSK	135	69	15.47	15.58	15.42	16.8	0.0	
100	PQ2 BPSK	135	138	15.50	15.55	15.47	16.8	0.0	
100	PQ2 BPSK	270	0	15.49	15.63	15.48			
100	QPSK	1	1	15.70	15.80	15.63			
100	QPSK	1	137	15.62	15.67	15.53	16.8	0.0	
100	QPSK	1	271	15.60	15.69	15.57	16.8	0.0	
100	QPSK	135	0	15.47	15.56	15.38			
100	QPSK	135	69	15.80	15.73	15.60			
100	QPSK	135	138	15.54	15.61	15.42	16.8	0.0	
100	QPSK	270	0	15.56	15.69	15.54			
100	16QAM	1	1	15.48	15.60	15.44	16.8	0.0	
100	64QAM	1	1	15.52	15.59	15.50	16.8	0.0	
100	256QAM	1	1	15.56	15.58	15.38	16.8	0.0	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.56	15.74	15.52	16.8	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2532.02	2592.99	2643.99			
80	QPSK	1	1	15.61	15.72	15.54	16.8	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	15.62	15.76	15.56	16.8	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	15.66	15.72	15.48	16.8	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	15.66	15.71	15.49	16.8	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	15.63	15.74	15.50	16.8	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.56	15.70	15.57	16.8	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.66	15.68	15.56	16.8	0.0	

n41 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Channel Frequency (MHz)	Power Middle Channel Frequency (MHz)	Power High Channel Frequency (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	18.59	18.66	18.56	19.8	0.0	
100	PV2 BPSK	1	137	18.53	18.62	18.46			
100	PV2 BPSK	1	271	18.50	18.65	18.53			
100	PV2 BPSK	135	0	18.57	18.76	18.56	19.8	0.0	
100	PV2 BPSK	135	69	18.48	18.58	18.43	19.8	0.0	
100	PV2 BPSK	135	138	18.53	18.53	18.48	19.8	0.0	
100	PV2 BPSK	270	0	18.44	18.62	18.45			
100	QPSK	1	1	18.65	18.83	18.68			
100	QPSK	1	137	18.67	18.66	18.55	19.8	0.0	
100	QPSK	1	271	18.63	18.71	18.59	19.8	0.0	
100	QPSK	135	0	18.48	18.53	18.38			
100	QPSK	135	69	18.55	18.67	18.57			
100	QPSK	135	138	18.51	18.59	18.36	19.8	0.0	
100	QPSK	270	0	18.66	18.73	18.56	19.8	0.0	
100	16QAM	1	1	18.48	18.57	18.43			
100	64QAM	1	1	18.56	18.62	18.46			
100	256QAM	1	1	18.54	18.55	18.35	19.8	0.0	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	18.52	18.62	18.54	19.8	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.02	2592.99	2643.99			
80	QPSK	1	1	18.47	18.65	18.43	19.8	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.52	18.66	18.51	19.8	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	18.54	18.63	18.50	19.8	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	18.48	18.68	18.51	19.8	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	18.51	18.63	18.48	19.8	0.0	
Channel				502202	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.51	18.72	18.53	19.8	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2648.02	2592.99	2678.98			
20	QPSK	1	1	18.49	18.73	18.49	19.8	0.0	

Part270 n77 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	3840	3930			
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	15.44	15.49	15.47	17.1	0.0	
100	PI2 BPSK	1	137	15.38	15.33	15.28			
100	PI2 BPSK	1	271	15.29	15.33	15.32			
100	PI2 BPSK	135	0	15.35	15.54	15.45	17.1	0.0	
100	PI2 BPSK	135	69	15.30	15.33	15.25	17.1	0.0	
100	PI2 BPSK	135	138	15.25	15.37	15.42	17.1	0.0	
100	PI2 BPSK	270	0	15.28	15.39	15.33			
100	QPSK	1	1	15.55	15.66	15.57			
100	QPSK	1	137	15.49	15.53	15.38	17.1	0.0	
100	QPSK	1	271	15.45	15.53	15.43	17.1	0.0	
100	QPSK	135	0	15.45	15.47	15.43			
100	QPSK	135	69	15.34	15.52	15.28			
100	QPSK	135	138	15.25	15.34	15.36	17.1	0.0	
100	QPSK	270	0	15.35	15.46	15.37			
100	16QAM	1	1	15.34	15.50	15.41		0.0	
100	64QAM	1	1	15.36	15.42	15.22	17.1	0.0	
100	256QAM	1	1	15.28	15.34	15.34	17.1	0.0	
Channel				649668	656000	662034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.43	15.54	15.40	17.1	0.0	
Channel				649334	656000	662068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.02			
80	QPSK	1	1	15.42	15.46	15.39	17.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.37	15.52	15.44	17.1	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.37	15.48	15.42	17.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.35	15.49	15.42	17.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.38	15.50	15.45	17.1	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.45	15.45	15.37	17.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.38	15.45	15.39	17.1	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.38	15.54	15.39	17.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.44	15.51	15.45	17.1	0.0	

Part270 n77 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dbi)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.47	18.44	18.42	20.1	0.0	
100	PI2 BPSK	1	137	18.39	18.32	18.41			
100	PI2 BPSK	1	271	18.34	18.32	18.38			
100	PI2 BPSK	135	0	18.40	18.60	18.45	20.1	0.0	
100	PI2 BPSK	135	69	18.46	18.39	18.45	20.1	0.0	
100	PI2 BPSK	135	138	18.47	18.36	18.48	20.1	0.0	
100	PI2 BPSK	270	0	18.53	18.35	18.35			
100	QPSK	1	1	18.56	18.67	18.52			
100	QPSK	1	137	18.46	18.58	18.35	20.1	0.0	
100	QPSK	1	271	18.49	18.49	18.59	20.1	0.0	
100	QPSK	135	0	18.45	18.44	18.41			
100	QPSK	135	69	18.44	18.48	18.31			
100	QPSK	135	138	18.46	18.33	18.41	20.1	0.0	
100	QPSK	270	0	18.38	18.43	18.42			
100	16QAM	1	1	18.52	18.52	18.44		0.0	
100	64QAM	1	1	18.38	18.39	18.31	20.1	0.0	
100	256QAM	1	1	18.35	18.32	18.33	20.1	0.0	
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.38	18.57	18.39	20.1	0.0	
Channel				649334	650000	662068	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.41	18.46	18.38	20.1	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.38	18.47	18.31	20.1	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.38	18.53	18.38	20.1	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.45	18.54	18.38	20.1	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.45	18.50	18.39	20.1	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.37	18.56	18.32	20.1	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.41	18.48	18.40	20.1	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.35	18.49	18.40	20.1	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dbi)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.44	18.53	18.34	20.1	0.0	

Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		15.34		17.1	0.0	
100	PI2 BPSK	1	137		15.20				
100	PI2 BPSK	1	271		15.22				
100	PI2 BPSK	135	0		15.44		17.1	0.0	
100	PI2 BPSK	135	69		15.18		17.1	0.0	
100	PI2 BPSK	135	138		15.27		17.1	0.0	
100	PI2 BPSK	270	0		15.28				
100	QPSK	1	1		15.47		17.1	0.0	
100	QPSK	1	137		15.44				
100	QPSK	1	271		15.41				
100	QPSK	135	0		15.30		17.1	0.0	
100	QPSK	135	69		15.37		17.1	0.0	
100	QPSK	135	138		15.21		17.1	0.0	
100	QPSK	270	0		15.29				
100	16QAM	1	1		15.29		17.1	0.0	
100	64QAM	1	1		15.28		17.1	0.0	
100	256QAM	1	1		15.19		17.1	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3750.01	(dBm)	(dB)	
90	QPSK	1	1	15.32	15.43	15.21	17.1	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	15.32	15.42	15.28	17.1	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	15.30	15.42	15.20	17.1	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	15.29	15.36	15.30	17.1	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	15.34	15.45	15.28	17.1	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	15.32	15.35	15.30	17.1	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	15.27	15.34	15.28	17.1	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	15.24	15.39	15.30	17.1	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	15.27	15.34	15.25	17.1	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	15.24	15.36	15.23	17.1	0.0	

Part270 n78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		18.32		20.1	0.0	
100	PI2 BPSK	1	137		18.35				
100	PI2 BPSK	1	271		18.34				
100	PI2 BPSK	135	0		18.33		20.1	0.0	
100	PI2 BPSK	135	69		18.39		20.1	0.0	
100	PI2 BPSK	135	138		18.33		20.1	0.0	
100	PI2 BPSK	270	0		18.34				
100	QPSK	1	1		18.50		20.1	0.0	
100	QPSK	1	137		18.40				
100	QPSK	1	271		18.32				
100	QPSK	135	0		18.35		20.1	0.0	
100	QPSK	135	69		18.37		20.1	0.0	
100	QPSK	135	138		18.32		20.1	0.0	
100	QPSK	270	0		18.33				
100	16QAM	1	1		18.32		20.1	0.0	
100	64QAM	1	1		18.34		20.1	0.0	
100	256QAM	1	1		18.37		20.1	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dbm)	(db)	
90	QPSK	1	1	18.38	18.39	18.43	20.1	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3750	3760.02	(dbm)	(db)	
80	QPSK	1	1	18.34	18.44	18.38	20.1	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dbm)	(db)	
70	QPSK	1	1	18.34	18.46	18.33	20.1	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dbm)	(db)	
60	QPSK	1	1	18.40	18.47	18.35	20.1	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dbm)	(db)	
50	QPSK	1	1	18.41	18.44	18.37	20.1	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dbm)	(db)	
40	QPSK	1	1	18.39	18.47	18.39	20.1	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dbm)	(db)	
30	QPSK	1	1	18.36	18.41	18.36	20.1	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dbm)	(db)	
20	QPSK	1	1	18.39	18.46	18.38	20.1	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dbm)	(db)	
15	QPSK	1	1	18.38	18.46	18.34	20.1	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dbm)	(db)	
10	QPSK	1	1	18.37	18.46	18.37	20.1	0.0	

n7 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2530	2535	2550			
Frequency (MHz)									
40	PI/2 BPSK	1	1	20.61	20.64	20.51	21.8		0.0
40	PI/2 BPSK	1	108	20.59	20.67	20.55			
40	PI/2 BPSK	1	214	20.51	20.56	20.57			
40	PI/2 BPSK	108	0	20.51	20.58	20.43	21.8		0.0
40	PI/2 BPSK	108	54	20.68	20.73	20.66	21.8		0.0
40	PI/2 BPSK	108	108	20.70	20.66	20.70	21.8		0.0
40	PI/2 BPSK	216	0	20.53	20.58	20.52			
40	QPSK	1	1	20.72	20.79	20.64			
40	QPSK	1	108	20.63	20.66	20.59	21.8		0.0
40	QPSK	1	214	20.60	20.58	20.49	21.8	0.0	
40	QPSK	108	0	20.46	20.52	20.48			
40	QPSK	108	54	20.60	20.71	20.59			
40	QPSK	108	108	20.54	20.62	20.58	21.8	0.0	
40	QPSK	216	0	20.64	20.66	20.57			
40	16QAM	1	1	20.57	20.66	20.54			
40	64QAM	1	1	20.52	20.59	20.46	21.5		0.3
40	256QAM	1	1	19.38	19.32	19.48	19.5		2.3
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	20.59	20.70	20.56	21.8		0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2537.5			
25	QPSK	1	1	20.59	20.69	20.46	21.8		0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	20.63	20.65	20.50	21.8		0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.66	20.71	20.57	21.8		0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.63	20.70	20.57	21.8		0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.65	20.74	20.58	21.8		0.0

n66 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tuneup limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)									
40	PI/2 BPSK	1	1	18.71	18.89	18.78	20.1		0.0
40	PI/2 BPSK	1	108	18.72	18.79	18.76			
40	PI/2 BPSK	1	214	18.83	18.74	18.68			
40	PI/2 BPSK	108	0	18.76	18.96	18.73	20.1		0.0
40	PI/2 BPSK	108	54	18.75	18.95	18.83	20.1		0.0
40	PI/2 BPSK	108	108	18.78	18.80	18.81	20.1		0.0
40	PI/2 BPSK	216	0	18.82	18.79	18.65			
40	QPSK	1	1	18.86	18.07	18.90			
40	QPSK	1	108	18.89	18.89	18.94	20.1		0.0
40	QPSK	1	214	18.93	18.85	18.76	20.1	0.0	
40	QPSK	108	0	18.85	18.70	18.63			
40	QPSK	108	54	18.69	18.89	18.79			
40	QPSK	108	108	18.82	18.74	18.80	20.1		0.0
40	QPSK	216	0	18.76	18.77	18.66	20.1	0.0	
40	16QAM	1	1	18.80	18.71	18.59			
40	64QAM	1	1	18.84	18.70	18.65	20.1		0.0
40	256QAM	1	1	18.85	18.68	18.60	19.5		0.6
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.80	18.76	18.66	20.1		0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.83	18.79	18.69	20.1		0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.79	18.74	18.69	20.1		0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.76	18.68	18.62	20.1		0.0
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.81	18.73	18.59	20.1		0.0



n38 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 518004	Power Middle Ch. Freq. 519000	Power High Ch. Freq. 519996	Tune-up limit (dBm)	MPR (dB)	
Channel				2595.02	2595	2599.98			
Frequency (MHz)									
40	PI2 BPSK	1	1	20.82	20.84	20.84	22.5		
40	PI2 BPSK	1	53	20.68	20.94	20.69			
40	PI2 BPSK	1	104	20.67	20.90	20.85		0.0	
40	PI2 BPSK	50	0	20.80	20.91	20.84	22.5	0.0	
40	PI2 BPSK	50	28	20.76	20.85	20.73	22.5	0.0	
40	PI2 BPSK	50	56	20.73	20.82	20.53	22.5		
40	PI2 BPSK	100	0	20.79	20.89	20.68		0.0	
40	QPSK	1	1	21.01	21.05	21.04			
40	QPSK	1	53	20.94	21.04	20.82	22.5		
40	QPSK	1	104	20.90	21.11	20.97		0.0	
40	QPSK	50	0	20.69	20.90	20.72		0.0	
40	QPSK	50	28	20.73	20.99	20.72	22.5	0.0	
40	QPSK	50	56	20.68	20.90	20.89	22.5		
40	QPSK	100	0	20.90	20.94	20.89		0.0	
40	16QAM	1	1	20.71	20.87	20.73		0.0	
40	64QAM	1	1	20.74	20.91	20.87	22.0	0.5	
40	256QAM	1	1	19.29	19.40	19.32	20.0	2.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	20.73	20.90	20.69	22.5	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	20.65	20.83	20.72	22.5	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	20.71	20.86	20.74	22.5	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	20.68	20.85	20.78	22.5	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	20.65	20.83	20.77	24.5	0.0	

n41 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 508202	Power Middle Ch. Freq. 518598	Power High Ch. Freq. 528000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640			
Frequency (MHz)									
100	PI2 BPSK	1	1	20.90	20.95	20.93	22.5		
100	PI2 BPSK	1	137	20.81	20.98	20.75			
100	PI2 BPSK	1	271	20.76	20.98	20.95		0.0	
100	PI2 BPSK	135	0	20.88	21.02	20.97	22.5	0.0	
100	PI2 BPSK	135	69	20.89	20.94	20.85	22.5	0.0	
100	PI2 BPSK	135	138	20.77	20.90	20.97	22.5		
100	PI2 BPSK	270	0	20.86	20.94	20.83		0.0	
100	QPSK	1	1	21.05	21.19	21.18			
100	QPSK	1	137	20.98	21.09	20.94	22.5		
100	QPSK	1	271	20.93	21.16	21.09		0.0	
100	QPSK	135	0	20.82	20.98	20.88		0.0	
100	QPSK	135	69	20.81	21.07	20.79	22.5	0.0	
100	QPSK	135	138	20.79	20.95	21.01	22.5		
100	QPSK	270	0	20.95	21.05	20.98		0.0	
100	16QAM	1	1	20.76	20.91	20.78	22.5	0.0	
100	64QAM	1	1	20.84	21.05	20.90	22.0	0.5	
100	256QAM	1	1	19.44	19.54	19.44	20.0	2.5	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.80	20.96	20.89	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	20.74	20.94	20.91	22.5	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.73	20.91	20.83	22.5	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.73	20.93	20.90	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	20.78	20.91	20.87	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	20.73	20.90	20.92	22.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.73	20.98	20.82	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.72	20.97	20.84	22.5	0.0	

n41 HPUE Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 506202	Power Middle Ch. Freq. 518598	Power High Ch. Freq. 528000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640			
Frequency (MHz)									
100	PI2 BPSK	1	1	23.86	23.89	23.93	25.5		
100	PI2 BPSK	1	137	23.80	23.98	23.78			
100	PI2 BPSK	1	271	23.73	24.04	24.00		0.0	
100	PI2 BPSK	135	0	23.94	24.00	23.98	25.5	0.0	
100	PI2 BPSK	135	69	23.87	23.90	23.86	25.5	0.0	
100	PI2 BPSK	135	138	23.77	23.92	23.97	25.5		
100	PI2 BPSK	270	0	23.83	23.93	23.83		0.0	
100	QPSK	1	1	24.06	24.23	24.15			
100	QPSK	1	137	24.03	24.10	23.89	25.5		
100	QPSK	1	271	23.92	24.21	24.14		0.0	
100	QPSK	135	0	23.77	23.98	23.85		0.0	
100	QPSK	135	69	23.75	24.12	23.74	25.5	0.0	
100	QPSK	135	138	23.84	24.00	24.04	25.5		
100	QPSK	270	0	23.92	24.04	24.01		0.0	
100	16QAM	1	1	23.75	23.91	23.80	25.5	0.0	
100	64QAM	1	1	23.82	23.99	23.93	25.0	0.5	
100	256QAM	1	1	22.43	22.57	22.38	23.0	2.5	
Channel				506200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.86	23.96	23.94	25.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	23.76	24.00	23.95	25.5	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.77	23.97	23.94	25.5	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.78	23.96	23.86	25.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	23.75	23.95	23.88	25.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2670			
40	QPSK	1	1	23.76	24.01	23.85	25.5	0.0	
Channel				502202	518598	539198	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.77	23.91	23.88	25.5	0.0	
Channel				501204	518598	539898	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2504.02	2592.98	2679.98			
20	QPSK	1	1	23.80	23.93	23.84	25.5	0.0	

Part270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				Frequency (MHz)			Tune-up limit (dBm)	MPR (dB)	
				3750 3840 3930					
100	PI2 BPSK	1	1	14.32	14.36	14.23	15.5	0.0	
100	PI2 BPSK	1	137	14.23	14.28	14.21			
100	PI2 BPSK	1	271	14.33	14.33	14.16			
100	PI2 BPSK	135	0	14.36	14.42	14.20			
100	PI2 BPSK	135	69	14.37	14.44	14.20	15.5	0.0	
100	PI2 BPSK	135	138	14.25	14.24	14.25	15.5	0.0	
100	PI2 BPSK	270	0	14.33	14.33	14.17	15.5	0.0	
100	QPSK	1	1	14.43	14.52	14.37	15.5	0.0	
100	QPSK	1	137	14.35	14.38	14.38			
100	QPSK	1	271	14.43	14.50	14.23			
100	QPSK	135	0	14.16	14.24	14.25			
100	QPSK	135	69	14.32	14.40	14.30	15.5	0.0	
100	QPSK	135	138	14.27	14.39	14.20	15.5	0.0	
100	QPSK	270	0	14.26	14.35	14.20	15.5	0.0	
100	16QAM	1	1	14.35	14.42	14.27	15.5	0.0	
100	64QAM	1	1	14.25	14.28	14.30	15.5	0.0	
100	256QAM	1	1	14.33	14.37	14.18	15.5	0.0	
Channel				649668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	14.27	14.35	14.28	15.5	0.0	
Channel				649334	650000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	14.27	14.42	14.29	15.5	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	14.34	14.43	14.24	15.5	0.0	
Channel				648666	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	14.25	14.40	14.30	15.5	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3950.02	(dBm)	(dB)	
50	QPSK	1	1	14.36	14.43	14.28	15.5	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3900	3950	(dBm)	(dB)	
40	QPSK	1	1	14.31	14.44	14.21	15.5	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	14.36	14.40	14.26	15.5	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	14.26	14.45	14.21	15.5	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	14.32	14.38	14.23	15.5	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	14.36	14.36	14.20	15.5	0.0	

Part270 n77 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq. 650000	Power Middle Ch./ Freq. 656000	Power High Ch./ Freq. 662000	Tune-up limit (dbm)	MPR (db)	
Channel				Frequency (MHz)			Tune-up limit (dbm)	MPR (db)	
				3750 3840 3930					
100	PI2 BPSK	1	1	17.46	17.41	17.34	18.5	0.0	
100	PI2 BPSK	1	137	17.34	17.44	17.35			
100	PI2 BPSK	1	271	17.41	17.41	17.30			
100	PI2 BPSK	135	0	17.46	17.53	17.27			
100	PI2 BPSK	135	69	17.44	17.53	17.30	18.5	0.0	
100	PI2 BPSK	135	138	17.35	17.31	17.29	18.5	0.0	
100	PI2 BPSK	270	0	17.41	17.49	17.28	18.5	0.0	
100	QPSK	1	1	17.58	17.60	17.49	18.5	0.0	
100	QPSK	1	137	17.41	17.48	17.45			
100	QPSK	1	271	17.46	17.57	17.44			
100	QPSK	135	0	17.28	17.37	17.36			
100	QPSK	135	69	17.45	17.59	17.39	18.5	0.0	
100	QPSK	135	138	17.32	17.53	17.29	18.5	0.0	
100	QPSK	270	0	17.38	17.51	17.28	18.5	0.0	
100	16QAM	1	1	17.51	17.58	17.32	18.5	0.0	
100	64QAM	1	1	17.30	17.40	17.34	18.5	0.0	
100	256QAM	1	1	17.39	17.50	17.34	18.5	0.0	
Channel				649668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dbm)	(db)	
90	QPSK	1	1	17.37	17.50	17.38	18.5	0.0	
Channel				649334	650000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dbm)	(db)	
80	QPSK	1	1	17.40	17.45	17.42	18.5	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dbm)	(db)	
70	QPSK	1	1	17.43	17.43	17.40	18.5	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dbm)	(db)	
60	QPSK	1	1	17.41	17.43	17.40	18.5	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3950.02	(dbm)	(db)	
50	QPSK	1	1	17.31	17.41	17.43	18.5	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dbm)	(db)	
40	QPSK	1	1	17.40	17.40	17.32	18.5	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dbm)	(db)	
30	QPSK	1	1	17.40	17.47	17.40	18.5	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dbm)	(db)	
20	QPSK	1	1	17.36	17.46	17.33	18.5	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dbm)	(db)	
15	QPSK	1	1	17.38	17.43	17.43	18.5	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dbm)	(db)	
10	QPSK	1	1	17.41	17.41	17.36	18.5	0.0	

Part270 n78 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		14.29		15.5	0.0	
100	PI2 BPSK	1	137		14.27				
100	PI2 BPSK	1	271		14.31				
100	PI2 BPSK	135	0		14.31		15.5	0.0	
100	PI2 BPSK	135	69		14.43		15.5	0.0	
100	PI2 BPSK	135	138		14.14		15.5	0.0	
100	PI2 BPSK	270	0		14.27				
100	QPSK	1	1		14.49				
100	QPSK	1	137		14.32		15.5	0.0	
100	QPSK	1	271		14.40		15.5	0.0	
100	QPSK	135	0		14.21				
100	QPSK	135	69		14.40				
100	QPSK	135	138		14.39		15.5	0.0	
100	QPSK	270	0		14.24		15.5	0.0	
100	16QAM	1	1		14.53				
100	64QAM	1	1		14.17				
100	256QAM	1	1		14.34		15.5	0.0	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3750.01			
90	QPSK	1	1	14.25	14.27	14.17	15.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	14.27	14.34	14.19	15.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	14.21	14.27	14.19	15.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	14.25	14.34	14.25	15.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	14.24	14.29	14.28	15.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	14.16	14.20	14.22	15.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	14.17	14.31	14.19	15.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	14.25	14.25	14.23	15.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	14.21	14.25	14.19	15.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	14.18	14.27	14.28	15.5	0.0	

Part270 n78 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		17.30		18.5	0.0	
100	PI2 BPSK	1	137		17.24				
100	PI2 BPSK	1	271		17.24				
100	PI2 BPSK	135	0		17.44		18.5	0.0	
100	PI2 BPSK	135	69		17.41		18.5	0.0	
100	PI2 BPSK	135	138		17.13		18.5	0.0	
100	PI2 BPSK	270	0		17.32				
100	QPSK	1	1		17.49				
100	QPSK	1	137		17.30		18.5	0.0	
100	QPSK	1	271		17.45		18.5	0.0	
100	QPSK	135	0		17.28				
100	QPSK	135	69		17.47				
100	QPSK	135	138		17.33		18.5	0.0	
100	QPSK	270	0		17.34		18.5	0.0	
100	16QAM	1	1		17.47				
100	64QAM	1	1		17.23				
100	256QAM	1	1		17.34		18.5	0.0	
Channel				649688	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	17.27	17.36	17.19	18.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	17.25	17.40	17.19	18.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.20	17.37	17.25	18.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	17.25	17.32	17.19	18.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3795.02			
50	QPSK	1	1	17.17	17.38	17.22	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.21	17.33	17.19	18.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	17.22	17.29	17.19	18.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.21	17.36	17.23	18.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	17.26	17.34	17.19	18.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	17.18	17.31	17.18	18.5	0.0	



Reduced Power Mode for DSI5 Standalone

n5 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167200	Power High Ch. / Freq. 167600	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	839	24.0	0.0	
Frequency (MHz)									
20	PI2 BPSK	1	1	23.18	23.23	23.13			
20	PI2 BPSK	1	53	23.04	23.14	23.06			
20	PI2 BPSK	1	104	22.98	23.06	22.94			
20	PI2 BPSK	50	0	22.85	22.76	22.73	23.5	0.5	
20	PI2 BPSK	50	28	23.08	23.18	23.11	24.0	0.0	
20	PI2 BPSK	50	56	22.59	22.64	22.51	23.5	0.5	
20	PI2 BPSK	100	0	22.66	22.70	22.63			
20	QPSK	1	1	23.23	23.27	23.16	24.0	0.0	
20	QPSK	1	53	23.11	23.18	23.13			
20	QPSK	1	104	22.98	23.06	22.98			
20	QPSK	50	0	22.14	22.28	22.21	23.0	1.0	
20	QPSK	50	28	23.15	23.21	23.08	24.0	0.0	
20	QPSK	50	56	22.14	22.18	22.06	23.0	1.0	
20	QPSK	100	0	22.17	22.23	22.13	23.0	1.0	
20	16QAM	1	1	22.39	22.48	22.42	23.0	1.0	
20	64QAM	1	1	20.73	20.86	20.79	21.5	2.5	
20	256QAM	1	1	18.89	19.01	18.96	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.11	23.18	23.08	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				820	836.5	844			
10	QPSK	1	1	23.13	23.15	23.02	24.0	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.17	23.23	23.04	24.0	0.0	

n7 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2520	2535	2550	21.0	0.0	
Frequency (MHz)									
40	PI2 BPSK	1	1	19.27	19.41	19.21			
40	PI2 BPSK	1	108	19.15	19.37	19.26			
40	PI2 BPSK	1	214	19.14	19.22	19.13			
40	PI2 BPSK	108	0	19.29	19.33	19.27	21.0	0.0	
40	PI2 BPSK	108	54	19.37	19.44	19.27	21.0	0.0	
40	PI2 BPSK	108	108	19.26	19.36	19.27	21.0	0.0	
40	PI2 BPSK	216	0	19.15	19.24	19.22			
40	QPSK	1	1	19.40	19.48	19.35	21.0	0.0	
40	QPSK	1	108	19.29	19.47	19.34			
40	QPSK	1	214	19.24	19.36	19.26			
40	QPSK	108	0	19.33	19.38	19.27			
40	QPSK	108	54	19.22	19.40	19.28			
40	QPSK	108	108	19.11	19.25	19.26	21.0	0.0	
40	QPSK	216	0	19.37	19.43	19.19			
40	16QAM	1	1	19.18	19.39	19.20	21.0	0.0	
40	64QAM	1	1	19.27	19.41	19.36	20.5	0.5	
40	256QAM	1	1	17.30	17.38	17.23	19.0	2.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.18	19.24	19.23	21.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.13	19.26	19.10	21.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	19.11	19.21	19.20	21.0	0.0	
Channel				501500	502000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.17	19.22	19.24	21.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.13	19.34	19.25	21.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.12	19.26	19.24	21.0	0.0	

n66 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 348000	Power High Ch. / Freq. 350000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760	23.0	0.0	
Frequency (MHz)									
40	PI2 BPSK	1	1	22.14	22.27	22.17			
40	PI2 BPSK	1	108	22.07	22.22	22.11			
40	PI2 BPSK	1	214	22.08	22.16	22.10			
40	PI2 BPSK	108	0	21.88	21.88	21.82	22.5	0.5	
40	PI2 BPSK	108	54	22.02	22.20	22.13	23.0	0.0	
40	PI2 BPSK	108	108	21.99	21.81	21.78	22.5	0.5	
40	PI2 BPSK	216	0	21.74	21.84	21.85			
40	QPSK	1	1	22.23	22.35	22.31	23.0	0.0	
40	QPSK	1	108	22.04	22.26	22.14			
40	QPSK	1	214	22.02	22.21	22.07			
40	QPSK	108	0	21.13	21.36	21.24			
40	QPSK	108	54	22.15	22.29	22.24			
40	QPSK	108	108	21.24	21.48	21.35	22.0	1.0	
40	QPSK	216	0	21.26	21.43	21.29			
40	16QAM	1	1	20.96	21.11	21.01	22.0	1.0	
40	64QAM	1	1	19.87	19.93	19.81	20.5	2.5	
40	256QAM	1	1	17.59	17.85	17.73	18.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.11	22.27	22.20	23.0	0.0	
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.16	22.31	22.24	23.0	0.0	
Channel				343000	348000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.16	22.28	22.24	23.0	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.19	22.22	22.17	23.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.16	22.29	22.21	23.0	0.0	



n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518996			
Frequency (MHz)				2590.02	2595	2599.98			
40	P2/BPSK	1	1	19.03	19.19	19.06	20.4	0.0	
40	P2/BPSK	1	53	18.83	19.06	18.83			
40	P2/BPSK	1	104	18.89	18.98	18.99			
40	P2/BPSK	50	0	19.10	19.12	19.04	20.4	0.0	
40	P2/BPSK	50	28	19.08	19.17	19.11	20.4	0.0	
40	P2/BPSK	50	56	18.90	19.09	18.80	20.4	0.0	
40	P2/BPSK	100	0	18.91	19.00	18.93			
40	QPSK	1	1	19.18	19.30	19.15			
40	QPSK	1	53	19.01	19.18	18.99	20.4	0.0	
40	QPSK	1	104	18.98	19.06	19.08	20.4	0.0	
40	QPSK	50	0	19.21	19.17	19.07			
40	QPSK	50	28	18.91	19.25	18.82			
40	QPSK	50	56	19.09	19.09	19.19	20.4	0.0	
40	QPSK	100	0	18.88	19.06	18.88			
40	16QAM	1	1	18.87	18.92	18.88			
40	64QAM	1	1	18.81	18.91	18.71	20.4	0.0	
40	256QAM	1	1	17.11	17.27	17.12			
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	18.95	19.17	18.81	20.4	0.0	
Channel				518504	518000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	19.88	19.21	19.83	20.4	0.0	
Channel				518000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.94	19.16	18.83	20.4	0.0	
Channel				515050	531000	522408	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.00	19.16	18.80	20.4	0.0	
Channel				515004	518000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2625.50	2595	2614.98			
10	QPSK	1	1	18.88	19.21	18.83	20.4	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	P2 BPSK	1	1	19.15	19.32	19.15	20.4	0.0	
100	P2 BPSK	1	137	18.96	19.20	18.90			
100	P2 BPSK	1	271	18.97	19.04	19.08			
100	P2 BPSK	135	0	19.23	19.24	19.17	20.4	0.0	
100	P2 BPSK	135	69	19.22	19.27	19.18	20.4	0.0	
100	P2 BPSK	135	138	18.98	19.20	18.93	20.4	0.0	
100	P2 BPSK	270	0	18.99	19.05	19.08			
100	QPSK	1	1	19.27	19.36	19.27			
100	QPSK	1	137	19.09	19.28	19.05	20.4	0.0	
100	QPSK	1	271	19.07	19.13	19.16	20.4	0.0	
100	QPSK	135	0	19.24	19.31	19.14			
100	QPSK	135	69	19.04	19.33	18.89		20.4	
100	QPSK	135	138	19.24	19.24	19.22	20.4	0.0	
100	QPSK	270	0	18.97	19.22	19.05			
100	16QAM	1	1	18.92	18.99	19.00		20.4	
100	64QAM	1	1	18.90	18.97	18.85	20.4	0.0	
100	256QAM	1	1	16.63	16.68	16.60			
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.92	19.08	19.12	20.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	19.01	19.03	19.00	20.4	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.92	19.07	19.10	20.4	0.0	
Channel				505200	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	18.95	19.06	19.03	20.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	18.95	19.00	19.04	20.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	19.01	19.98	19.06	20.4	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.93	19.02	19.09	20.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.98	19.06	19.05	20.4	0.0	

n41 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508200	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	P2/BPSK	1	1	22.25	22.28	22.20	23.4	0.0	
100	P2/BPSK	1	137	22.21	22.31	22.14			
100	P2/BPSK	1	271	22.12	22.27	22.09			
100	P2/BPSK	135	0	22.21	22.40	22.28	23.4	0.0	
100	P2/BPSK	135	69	22.22	22.36	22.26	23.4	0.0	
100	P2/BPSK	135	138	22.07	22.25	22.13	23.4	0.0	
100	P2/BPSK	270	0	22.08	22.18	22.18			
100	QPSK	1	1	22.34	22.42	22.36			
100	QPSK	1	137	22.18	22.38	22.24	23.4	0.0	
100	QPSK	1	271	22.16	22.30	22.24			
100	QPSK	135	0	22.30	22.31	22.34			
100	QPSK	135	69	22.02	22.36	22.19	23.4	0.0	
100	QPSK	135	138	22.19	22.34	22.28	23.4	0.0	
100	QPSK	270	0	22.24	22.34	22.24			
100	16QAM	1	1	22.08	22.29	22.10			
100	64QAM	1	1	22.01	22.18	22.09	23.4	0.0	
100	256QAM	1	1	20.21	20.35	20.29	23.4	0.0	
Channel				508200	518598	529998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.12	22.19	22.17	23.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	22.09	22.19	22.21	23.4	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.01	22.15	22.18	23.4	0.0	
Channel				505200	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	22.06	22.22	22.16	23.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	22.02	22.14	22.22	23.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.01	22.20	22.20	23.4	0.0	
Channel				502202	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.04	22.26	22.20	23.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.01	2592.99	2679.98			
20	QPSK	1	1	22.06	22.22	22.16	23.4	0.0	

Part270 n77 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.24	20.37	20.28	21.0	0.0	
100	PI2 BPSK	1	137	20.20	20.33	20.22			
100	PI2 BPSK	1	271	20.15	20.28	20.22			
100	PI2 BPSK	135	0	18.72	18.78	18.74	20.5	0.5	
100	PI2 BPSK	135	69	20.22	20.31	20.19	21.0	0.0	
100	PI2 BPSK	135	138	18.63	18.76	18.67	20.5	0.5	
100	PI2 BPSK	270	0	18.80	18.88	18.80			
100	QPSK	1	1	20.37	20.43	20.31	21.0	0.0	
100	QPSK	1	137	20.19	20.35	20.25			
100	QPSK	1	271	20.13	20.31	20.20			
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0	
100	QPSK	135	69	20.20	20.38	20.27	21.0	0.0	
100	QPSK	135	138	18.84	18.96	18.81	20.0	1.0	
100	QPSK	270	0	18.91	19.02	18.86			
100	16QAM	1	1	18.60	18.68	18.60	20.0	1.0	
100	64QAM	1	1	17.49	17.65	17.53	18.5	2.5	
100	256QAM	1	1	15.22	15.32	15.26	16.5	4.5	
Channel				649668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.26	20.38	20.30	21.0	0.0	
Channel				649334	650000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.19	20.29	20.31	21.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.23	20.38	20.32	21.0	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.19	20.28	20.30	21.0	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.28	20.37	20.25	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.24	20.30	20.31	21.0	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	20.20	20.28	20.26	21.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.22	20.28	20.24	21.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.16	20.35	20.30	21.0	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.28	20.34	20.28	21.0	0.0	

Part270 n77 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (db)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.33	23.39	23.29	24.0	0.0	
100	PI2 BPSK	1	137	23.23	23.33	23.26			
100	PI2 BPSK	1	271	23.14	23.27	23.23			
100	PI2 BPSK	135	0	22.79	22.88	22.84	23.5	0.5	
100	PI2 BPSK	135	69	23.28	23.34	23.20	24.0	0.0	
100	PI2 BPSK	135	138	22.86	22.90	22.79	23.5	0.5	
100	PI2 BPSK	270	0	22.88	22.94	22.82			
100	QPSK	1	1	23.36	23.42	23.32	24.0	0.0	
100	QPSK	1	137	23.28	23.35	23.25			
100	QPSK	1	271	23.21	23.31	23.22			
100	QPSK	135	0	22.21	22.34	22.26	23.0	1.0	
100	QPSK	135	69	23.22	23.38	23.26	24.0	0.0	
100	QPSK	135	138	22.34	22.39	22.34	23.0	1.0	
100	QPSK	270	0	22.32	22.45	22.39			
100	16QAM	1	1	22.46	22.57	22.51	23.0	1.0	
100	64QAM	1	1	20.74	20.88	20.77	21.5	2.5	
100	256QAM	1	1	18.58	18.67	18.63	19.5	4.5	
Channel				649668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dbm)	(db)	
90	QPSK	1	1	23.28	23.35	23.24	24.0	0.0	
Channel				649334	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dbm)	(db)	
80	QPSK	1	1	23.11	23.34	23.27	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dbm)	(db)	
70	QPSK	1	1	23.29	23.37	23.29	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dbm)	(db)	
60	QPSK	1	1	23.26	23.38	23.18	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dbm)	(db)	
50	QPSK	1	1	23.25	23.28	23.27	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dbm)	(db)	
40	QPSK	1	1	23.29	23.30	23.19	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dbm)	(db)	
30	QPSK	1	1	23.24	23.38	23.19	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dbm)	(db)	
20	QPSK	1	1	23.31	23.28	23.25	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dbm)	(db)	
15	QPSK	1	1	23.31	23.32	23.21	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dbm)	(db)	
10	QPSK	1	1	23.28	23.29	23.25	24.0	0.0	



Part270 n78 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		20.31		21.0	0.0	
100	PI2 BPSK	1	137		20.27				
100	PI2 BPSK	1	271		20.22				
100	PI2 BPSK	135	0		19.13		20.5	0.5	
100	PI2 BPSK	135	69		20.25		21.0	0.0	
100	PI2 BPSK	135	138		19.01		20.5	0.5	
100	PI2 BPSK	270	0		19.07				
100	QPSK	1	1		20.35		21.0	0.0	
100	QPSK	1	137		20.30				
100	QPSK	1	271		20.17				
100	QPSK	135	0		19.82		20.0	1.0	
100	QPSK	135	69		20.29		21.0	0.0	
100	QPSK	135	138		18.67		20.0	1.0	
100	QPSK	270	0		18.72				
100	16QAM	1	1		18.84		20.0	1.0	
100	64QAM	1	1		17.58		18.5	2.5	
100	256QAM	1	1		15.33		16.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.19	20.24	20.14	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.02			
80	QPSK	1	1	20.23	20.26	20.11	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.15	20.28	20.18	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.19	20.25	20.13	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.24	20.27	20.13	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.20	20.28	20.19	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.27	20.30	20.08	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.25	20.24	20.08	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.22	20.27	20.19	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.16	20.23	20.20	21.0	0.0	

Part270 n78 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dbi)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.17		24.0	0.0	
100	PI2 BPSK	1	137		23.08				
100	PI2 BPSK	1	271		23.02				
100	PI2 BPSK	135	0		22.52		23.5	0.5	
100	PI2 BPSK	135	69		23.09		24.0	0.0	
100	PI2 BPSK	135	138		22.46		23.5	0.5	
100	PI2 BPSK	270	0		22.53				
100	QPSK	1	1		23.21		24.0	0.0	
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.04				
100	QPSK	135	0		22.01		23.0	1.0	
100	QPSK	135	69		23.14		24.0	0.0	
100	QPSK	135	138		21.95		23.0	1.0	
100	QPSK	270	0		22.02				
100	16QAM	1	1		22.03		23.0	1.0	
100	64QAM	1	1		20.85		21.5	2.5	
100	256QAM	1	1		18.88		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.11	23.15	23.05	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.09	23.19	23.02	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.13	23.16	22.97	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.12	23.08	22.98	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.05	23.08	22.94	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.12	23.06	23.04	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	23.11	23.17	23.03	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.09	23.14	23.01	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.11	23.15	23.00	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (dbi)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.09	23.16	22.94	24.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 167300	Power Middle Ch./Freq. 167300	Power High Ch./Freq. 167300	Tune-up limit (dbm)	MPR (db)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	21.69	21.83	21.79	23.0	0.0	
20	PI2 BPSK	1	53	21.73	21.78	21.87			
20	PI2 BPSK	1	104	21.81	21.70	21.68			
20	PI2 BPSK	50	0	21.34	21.41	21.34	22.5	0.5	
20	PI2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0	
20	PI2 BPSK	50	56	21.24	21.34	21.20	22.5	0.5	
20	PI2 BPSK	100	0	21.35	21.40	21.28			
20	QPSK	1	1	21.83	21.89	21.76			
20	QPSK	1	53	21.71	21.82	21.70	23.0	0.0	
20	QPSK	1	104	21.65	21.76	21.61	22.0	1.0	
20	QPSK	50	0	20.79	20.87	20.76			
20	QPSK	50	28	21.68	21.81	21.76			
20	QPSK	50	56	20.70	20.84	20.75	22.0	1.0	
20	QPSK	100	0	20.77	20.90	20.80			
20	QPSK	1	1	21.22	21.28	21.13			
20	16QAM	1	1	19.46	19.57	19.45	20.5	2.5	
20	256QAM	1	1	17.39	17.51	17.41	18.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				831.5	833.5	835.5			
15	QPSK	1	1	21.72	21.78	21.64	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	21.76	21.81	21.66	23.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.77	21.84	21.69	23.0	0.0	

n7 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 504000	Power Middle Ch. Freq. 507000	Power High Ch. Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				25200	25350	25500			
Frequency (MHz)									
40	PI2 BPSK	1	1	21.46	21.49	21.39	22.5	0.0	
40	PI2 BPSK	1	108	21.44	21.48	21.44			
40	PI2 BPSK	1	214	21.32	21.41	21.37			
40	PI2 BPSK	108	0	21.17	21.32	21.42	22.5	0.0	
40	PI2 BPSK	108	54	21.32	21.39	21.30	22.5	0.0	
40	PI2 BPSK	108	108	21.30	21.39	21.36	22.5	0.0	
40	PI2 BPSK	216	0	21.40	21.48	21.35			
40	QPSK	1	1	21.48	21.56	21.51			
40	QPSK	1	108	21.47	21.41	21.32	22.5	0.0	
40	QPSK	1	214	21.32	21.37	21.37	22.5	0.0	
40	QPSK	108	0	21.22	21.30	21.24			
40	QPSK	108	54	21.42	21.51	21.47			
40	QPSK	108	108	21.38	21.44	21.41	22.5	0.0	
40	QPSK	216	0	21.35	21.48	21.41			
40	16QAM	1	1	21.31	21.42	21.38	22.5	0.0	
40	64QAM	1	1	20.55	20.59	20.52	21.5	1.0	
40	256QAM	1	1	18.52	18.67	18.59	19.5	3.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25150	25350	25550			
30	QPSK	1	1	21.39	21.48	21.38	22.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	25350	2557.5			
25	QPSK	1	1	21.37	21.52	21.47	22.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	PI2 BPSK	1	1	21.44	21.45	21.37	22.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	21.37	21.42	21.46	22.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	21.39	21.50	21.39	22.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	21.39	21.49	21.43	22.5	0.0	

n66 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 346000	Power Middle Ch. Freq. 349000	Power High Ch. Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)									
40	PI2 BPSK	1	1	22.35	22.46	22.40	24.0	0.0	
40	PI2 BPSK	1	108	22.31	22.41	22.34			
40	PI2 BPSK	1	214	22.32	22.36	22.30			
40	PI2 BPSK	108	0	22.01	22.06	22.00	23.5	0.5	
40	PI2 BPSK	108	54	22.37	22.41	22.28	24.0	0.0	
40	PI2 BPSK	108	108	21.96	22.03	21.98	23.5	0.5	
40	PI2 BPSK	216	0	22.00	22.07	22.02			
40	QPSK	1	1	22.48	22.54	22.42			
40	QPSK	1	108	22.43	22.48	22.45	24.0	0.0	
40	QPSK	1	214	22.35	22.42	22.29	23.0	1.0	
40	QPSK	108	0	21.92	21.87	21.54			
40	QPSK	108	54	22.46	22.50	22.38			
40	QPSK	108	108	21.85	21.72	21.62	23.0	1.0	
40	QPSK	216	0	21.87	21.77	21.70	23.0	1.0	
40	16QAM	1	1	21.81	21.68	21.65			
40	64QAM	1	1	19.79	19.93	19.80	21.5	2.5	
40	256QAM	1	1	18.00	18.05	18.01	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.42	22.45	22.30	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.44	22.50	22.35	24.0	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.41	22.49	22.37	24.0	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.43	22.48	22.31	24.0	0.0	
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.34	22.42	22.31	24.0	0.0	



n38 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				518004	519000	519996				
Frequency (MHz)				2590.02	2595	2599.98				
40	PV2 BPSK	1	1	21.23	21.29	21.09	22.0	0.0		
40	PV2 BPSK	1	53	21.17	21.19	21.18				
40	PV2 BPSK	1	104	21.13	21.08	21.13				
40	PV2 BPSK	50	0	20.94	21.17	21.01				
40	PV2 BPSK	50	28	21.01	21.08	21.03	22.0	0.0		
40	PV2 BPSK	50	56	21.10	21.09	21.00	22.0	0.0		
40	PV2 BPSK	100	0	21.13	21.16	21.09				
40	QPSK	1	1	21.33	21.35	21.19				
40	QPSK	1	53	21.17	21.25	21.28				
40	QPSK	1	104	21.12	21.16	21.08	22.0	0.0		
40	QPSK	50	0	21.19	21.20	21.11				
40	QPSK	50	28	21.19	21.32	21.18				
40	QPSK	50	56	21.20	21.19	21.16	22.0	0.0		
40	QPSK	100	0	21.13	21.25	21.07				
40	16QAM	1	1	21.02	21.05	20.93		22.0		
40	64QAM	1	1	20.36	20.49	20.35				
40	256QAM	1	1	17.73	17.82	17.68		19.5		
Channel				517002	519000	520998	Tune-up limit (dBm)			
Frequency (MHz)				2595.91	2595	2604.99	MPR (dB)			
30	QPSK	1	1	20.97	20.86	20.82	22.0	0.0		
Channel				518504	519000	521496	Tune-up limit (dBm)			
Frequency (MHz)				2592.35	2595	2607.65	MPR (dB)			
25	QPSK	1	1	20.82	20.93	20.89	22.0	0.0		
Channel				518000	519000	522000	Tune-up limit (dBm)			
Frequency (MHz)				2580	2595	2610	MPR (dB)			
20	QPSK	1	1	20.87	20.93	20.83	22.0	0.0		
Channel				517502	519000	522498	Tune-up limit (dBm)			
Frequency (MHz)				2577.51	2595	2612.49	MPR (dB)			
15	QPSK	1	1	20.88	21.01	20.87	22.0	0.0		
Channel				515004	519000	522996	Tune-up limit (dBm)			
Frequency (MHz)				2635.10	2595	2614.90	MPR (dB)			
10	QPSK	1	1	20.82	20.93	20.86	24.0	0.0		

n41 Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				508202	518598	528800					
Frequency (MHz)				2546.01	2592.99	2640					
100	PQ2 BPSK	1	1	21.28	21.34	21.24	22.0	0.0			
100	PQ2 BPSK	1	137	21.21	21.31	21.21					
100	PQ2 BPSK	1	271	21.21	21.20	21.18					
100	PQ2 BPSK	135	0	21.05	21.21	21.07		22.0			
100	PQ2 BPSK	135	69	21.12	21.20	21.12	22.0	0.0			
100	PQ2 BPSK	135	138	21.13	21.13	21.13					
100	PQ2 BPSK	270	0	21.27	21.27	21.14					
100	QPSK	1	1	21.39	21.42	21.33	22.0	0.0			
100	QPSK	1	137	21.23	21.38	21.33					
100	QPSK	1	271	21.22	21.27	21.22		22.0			
100	QPSK	135	0	21.24	21.29	21.19					
100	QPSK	135	69	21.32	21.38	21.25	22.0	0.0			
100	QPSK	135	138	21.25	21.28	21.20					
100	QPSK	270	0	21.26	21.33	21.22		22.0			
100	16QAM	1	1	21.09	21.15	21.03					
100	64QAM	1	1	20.13	20.18	20.12	21.5				
100	256QAM	1	1	17.85	17.94	17.81	19.5				
Channel				508200	518598	528996	Tune-up limit (dBm)				
Frequency (MHz)				2641	2592.99	2644.98	MPR (dB)				
90	QPSK	1	1	20.93	20.98	20.81	22.0	0.0			
Channel				507204	518598	529998	Tune-up limit (dBm)				
Frequency (MHz)				2530.12	2592.99	2643.99	MPR (dB)				
80	QPSK	1	1	20.97	20.97	20.77	22.0	0.0			
Channel				506202	518598	531000	Tune-up limit (dBm)				
Frequency (MHz)				2531.01	2592.99	2655	MPR (dB)				
70	QPSK	1	1	20.88	20.98	20.82	22.0	0.0			
Channel				505200	518598	531996	Tune-up limit (dBm)				
Frequency (MHz)				2526	2592.99	2659.98	MPR (dB)				
60	QPSK	1	1	20.98	20.96	20.88	22.0	0.0			
Channel				504204	518598	532998	Tune-up limit (dBm)				
Frequency (MHz)				2521.02	2592.99	2664.99	MPR (dB)				
50	QPSK	1	1	20.89	21.00	20.89	22.0	0.0			
Channel				503202	518598	534000	Tune-up limit (dBm)				
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)				
40	QPSK	1	1	20.86	20.91	20.87	22.0	0.0			
Channel				502200	518598	534996	Tune-up limit (dBm)				
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)				
30	QPSK	1	1	20.85	20.87	20.82	22.0	0.0			
Channel				501204	518598	535996	Tune-up limit (dBm)				
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)				
20	QPSK	1	1	20.82	20.96	20.90	22.0	0.0			

n41 HPUE Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				506200	518598	528800					
Frequency (MHz)				2546.01	2592.99	2640					
100	PV2 BPSK	1	1	23.79	23.88	23.81	25.0	0.0			
100	PV2 BPSK	1	137	23.70	23.81	23.69					
100	PV2 BPSK	1	271	23.70	23.66	23.74					
100	PV2 BPSK	135	0	23.68	23.70	23.63		25.0			
100	PV2 BPSK	135	69	23.72	23.76	23.67	25.0	0.0			
100	PV2 BPSK	135	138	23.75	23.65	23.61					
100	PV2 BPSK	270	0	23.75	23.75	23.64					
100	QPSK	1	1	23.88	23.94	23.81	25.0	0.0			
100	QPSK	1	137	23.85	23.89	23.80					
100	QPSK	1	271	23.76	23.85	23.83		25.0			
100	QPSK	135	0	23.68	23.83	23.77					
100	QPSK	135	69	23.80	23.87	23.76	25.0	0.0			
100	QPSK	135	138	23.74	23.76	23.72					
100	QPSK	270	0	23.74	23.81	23.71		25.0			
100	16QAM	1	1	23.70	23.74	23.65					
100	64QAM	1	1	23.91	23.93	23.85	24.5				
100	256QAM	1	1	21.80	21.68	21.63	22.5				
Channel				506200	518598	529996	Tune-up limit (dBm)				
Frequency (MHz)				2641	2592.99	2644.98	MPR (dB)				
90	QPSK	1	1	23.81	23.85	23.69	25.0	0.0			
Channel				507204	518598	529998	Tune-up limit (dBm)				
Frequency (MHz)				2530.12	2592.99	2643.99	MPR (dB)				
80	QPSK	1	1	23.74	23.80	23.70	25.0	0.0			
Channel				506202	518598	531000	Tune-up limit (dBm)				
Frequency (MHz)				2531.01	2592.99	2655	MPR (dB)				
70	QPSK	1	1	23.78	23.88	23.68	25.0	0.0			
Channel				505200	518598	531996	Tune-up limit (dBm)				
Frequency (MHz)				2526	2592.99	2659.98	MPR (dB)				
60	QPSK	1	1	23.81	23.87	23.69	25.0	0.0			
Channel				504204	518598	532998	Tune-up limit (dBm)				
Frequency (MHz)				2521.02	2602.96	2664.96	MPR (dB)				
50	QPSK	1	1	23.82	23.80	23.72	25.0	0.0			
Channel				503202	518598	534000	Tune-up limit (dBm)				
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)				
40	QPSK	1	1	23.82	23.89	23.70	25.0	0.0			
Channel				502202	518598	535000	Tune-up limit (dBm)				
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)				
30	QPSK	1	1	23.80	23.82	23.71	25.0	0.0			
Channel				501204	518598	535998	Tune-up limit (dBm)				
Frequency (MHz)				2506.02	2592.99	2679.98	MPR (dB)				
20	QPSK	1	1	23.82	23.90	23.76	25.0	0.0			

Part270 n77 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.12	23.17	23.05	24.0	0.0	
100	PI2 BPSK	1	137	23.03	23.12	23.01			
100	PI2 BPSK	1	271	23.03	23.08	22.94			
100	PI2 BPSK	135	0	21.59	21.61	21.54	23.5	0.5	
100	PI2 BPSK	135	69	23.09	23.13	22.98	24.0	0.0	
100	PI2 BPSK	135	138	21.54	21.63	21.48	23.5	0.5	
100	PI2 BPSK	270	0	21.58	21.67	21.49			
100	QPSK	1	1	23.18	23.24	23.09	24.0	0.0	
100	QPSK	1	137	23.19	23.21	23.12			
100	QPSK	1	271	23.17	23.17	23.02			
100	QPSK	135	0	21.53	21.63	21.54	23.0	1.0	
100	QPSK	135	69	23.17	23.19	23.07	24.0	0.0	
100	QPSK	135	138	21.51	21.63	21.50	23.0	1.0	
100	QPSK	270	0	21.62	21.67	21.52			
100	16QAM	1	1	21.58	21.66	21.52	23.0	1.0	
100	64QAM	1	1	20.14	20.23	20.12	21.5	2.5	
100	256QAM	1	1	18.22	18.32	18.18	19.5	4.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.08	23.11	22.94	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.02			
80	QPSK	1	1	23.00	23.10	22.94	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.01	23.07	22.96	24.0	0.0	
Channel				648666	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.11	23.16	22.99	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.04	23.13	23.00	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.09	23.11	22.98	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.03	23.16	22.99	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.04	23.17	23.00	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.00	23.14	22.93	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.03	23.08	22.96	24.0	0.0	

Part270 n77 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	25.98	26.10	26.03	27.0	0.0	
100	PI2 BPSK	1	137	25.95	26.07	25.93			
100	PI2 BPSK	1	271	25.94	26.01	25.98			
100	PI2 BPSK	135	0	25.42	25.51	25.37	26.5	0.5	0.0
100	PI2 BPSK	135	69	25.96	26.00	25.90	27.0	0.0	0.0
100	PI2 BPSK	135	138	25.48	25.58	25.51	26.5	0.5	0.0
100	PI2 BPSK	270	0	25.54	25.61	25.48			
100	QPSK	1	1	26.07	26.17	26.12	27.0	0.0	
100	QPSK	1	137	26.01	26.11	26.03			
100	QPSK	1	271	26.97	26.96	25.98			
100	QPSK	135	0	25.05	25.09	24.98	26.0	1.0	0.0
100	QPSK	135	69	26.03	26.12	26.04	27.0	0.0	0.0
100	QPSK	135	138	24.97	25.04	24.96	26.0	1.0	0.0
100	QPSK	270	0	25.05	25.11	25.02			
100	16QAM	1	1	25.00	25.14	25.04	26.0	1.0	0.0
100	64QAM	1	1	23.82	23.87	23.53	24.5	2.5	0.0
100	256QAM	1	1	21.56	21.69	21.62	22.5	4.5	0.0
Channel				649668	656000	662334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.94	26.10	26.06	27.0	0.0	0.0
Channel				649334	656000	662668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	26.01	26.03	25.99	27.0	0.0	0.0
Channel				649000	656000	663000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	26.02	26.13	26.03	27.0	0.0	0.0
Channel				648668	656000	663334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.95	26.06	26.07	27.0	0.0	0.0
Channel				648334	656000	663668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	26.04	26.12	26.01	27.0	0.0	0.0
Channel				648000	656000	664000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	26.09	26.04	26.07	27.0	0.0	0.0
Channel				647668	656000	664334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.97	26.11	26.09	27.0	0.0	0.0
Channel				647334	656000	664668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.99	26.12	26.05	27.0	0.0	0.0
Channel				647168	656000	664834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51 <td colspan="3"></td>			
15	QPSK	1	1	26.02	26.02	26.01	27.0	0.0	0.0
Channel				647000	656000	665000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.98	26.03	26.01	27.0	0.0	0.0



Part270 n78 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.05		24.0	0.0	
100	PI2 BPSK	1	137		22.99				
100	PI2 BPSK	1	271		22.92				
100	PI2 BPSK	135	0		21.54		23.5	0.5	
100	PI2 BPSK	135	69		22.97		24.0	0.0	
100	PI2 BPSK	135	138		21.58		23.5	0.5	
100	PI2 BPSK	270	0		21.60				
100	QPSK	1	1		23.13		24.0	0.0	
100	QPSK	1	137		23.02				
100	QPSK	1	271		22.96				
100	QPSK	135	0		21.54		23.0	1.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		21.48		23.0	1.0	
100	QPSK	270	0		21.53				
100	16QAM	1	1		21.89		23.0	1.0	
100	64QAM	1	1		19.94		21.5	2.5	
100	256QAM	1	1		18.07		19.5	4.5	
Channel				649668	650000	650334		MPR	
Frequency (MHz)				3745.02	3750	3755.01		Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1		23.01	23.03	22.94	24.0	0.0
Channel				649334	650000	650668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3760.02		(dBm)	(dB)
80	QPSK	1	1		22.94	23.00	22.94	24.0	0.0
Channel				649000	650000	651000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		(dB)	(dB)
70	QPSK	1	1		22.94	23.09	22.93	24.0	0.0
Channel				648668	650000	651334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3750	3770.01		(dBm)	(dB)
60	QPSK	1	1		22.94	23.01	22.87	24.0	0.0
Channel				648334	650000	651668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3775.02		(dBm)	(dB)
50	QPSK	1	1		23.02	23.05	22.94	24.0	0.0
Channel				648000	650000	652000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		(dBm)	(dB)
40	QPSK	1	1		23.00	23.02	22.89	24.0	0.0
Channel				647668	650000	652334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750	3785.01		(dBm)	(dB)
30	QPSK	1	1		22.96	22.98	22.89	24.0	0.0
Channel				647334	650000	652668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3790.02		(dBm)	(dB)
20	QPSK	1	1		23.00	23.04	22.87	24.0	0.0
Channel				647168	650000	652834		Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3750	3792.51		(dBm)	(dB)
15	QPSK	1	1		23.00	23.08	22.93	24.0	0.0
Channel				647000	650000	653000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3750	3795		(dBm)	(dB)
10	QPSK	1	1		22.98	23.07	22.87	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		26.08		27.0	0.0	
100	PI2 BPSK	1	137		26.05				
100	PI2 BPSK	1	271		25.99				
100	PI2 BPSK	135	0		25.50		26.5	0.5	
100	PI2 BPSK	135	69		26.00		27.0	0.0	
100	PI2 BPSK	135	138		25.30		26.5	0.5	
100	PI2 BPSK	270	0		25.48				
100	QPSK	1	1		26.15		27.0	0.0	
100	QPSK	1	137		26.08				
100	QPSK	1	271		26.02				
100	QPSK	135	0		25.00		26.0	1.0	
100	QPSK	135	69		26.09		27.0	0.0	
100	QPSK	135	138		24.95		26.0	1.0	
100	QPSK	270	0		24.99				
100	16QAM	1	1		25.29		26.0	1.0	
100	64QAM	1	1		23.83		24.5	2.5	
100	256QAM	1	1		21.76		22.5	4.5	
Channel				649668	650000	650334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3750	3755.01		(dBm)	(dB)
90	QPSK	1	1		25.95	26.11	25.96	27.0	0.0
Channel				649334	650000	650668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3760.02		(dBm)	(dB)
80	QPSK	1	1		25.94	26.05	25.94	27.0	0.0
Channel				649000	650000	651000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		(dBm)	(dB)
70	QPSK	1	1		26.02	26.09	25.93	27.0	0.0
Channel				648668	650000	651334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3750	3770.01		(dBm)	(dB)
60	QPSK	1	1		25.93	26.10	25.94	27.0	0.0
Channel				648334	650000	651668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3775.02		(dBm)	(dB)
50	QPSK	1	1		25.96	26.04	25.96	27.0	0.0
Channel				648000	650000	652000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		(dBm)	(dB)
40	QPSK	1	1		26.01	26.02	25.89	27.0	0.0
Channel				647668	650000	652334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750	3785.01		(dBm)	(dB)
30	QPSK	1	1		25.94	26.01	25.97	27.0	0.0
Channel				647334	650000	652668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3790.02		(dBm)	(dB)
20	QPSK	1	1		25.98	26.03	25.93	27.0	0.0
Channel				647168	650000	652834		Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3750	3792.51		(dBm)	(dB)
15	QPSK	1	1		25.94	26.07	25.98	27.0	0.0
Channel				647000	650000	653000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3750	3795		(dBm)	(dB)
10	QPSK	1	1		25.97	26.10	25.93	27.0	0.0

n7 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2530	2535	2550	19.8	0.0
Frequency (MHz)				18.28	18.36	18.24		
40	PI/2 BPSK	1	1	18.23	18.30	18.24		
40	PI/2 BPSK	1	108	18.13	18.19	18.19		
40	PI/2 BPSK	1	214	18.13	18.19	18.19	19.8	0.0
40	PI/2 BPSK	108	0	18.04	18.20	18.11		
40	PI/2 BPSK	108	54	18.20	18.22	18.15		
40	PI/2 BPSK	108	108	18.15	18.21	18.14		
40	PI/2 BPSK	216	0	18.20	18.31	18.11	19.8	0.0
40	QPSK	1	1	18.36	18.45	18.40		
40	QPSK	1	108	18.32	18.36	18.33		
40	QPSK	1	214	18.21	18.26	18.27		
40	QPSK	108	0	18.15	18.26	18.19	19.8	0.0
40	QPSK	108	54	18.28	18.36	18.18	19.8	0.0
40	QPSK	108	108	18.09	18.22	18.13	19.8	0.0
40	QPSK	216	0	18.16	18.27	18.21	19.8	0.0
40	16QAM	1	1	18.15	18.26	18.08	19.8	0.0
40	64QAM	1	1	18.10	18.20	18.24	19.8	0.0
40	256QAM	1	1	18.07	18.23	18.10	19.5	0.3
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.29	18.41	18.33		
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2537.5	19.8	0.0
25	QPSK	1	1	18.21	18.37	18.34		
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	18.28	18.33	18.28	19.8	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
15	QPSK	1	1	18.32	18.34	18.28		
Channel				501000	507000	513000		
Frequency (MHz)				2500	2535	2565	19.8	0.0
10	QPSK	1	1	18.30	18.36	18.32	19.8	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.27	18.40	18.38		

n66 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)		
Channel				1730	1745	1760	24.0	0.0		
Frequency (MHz)				23.43	23.51	23.47				
40	PI/2 BPSK	1	1	23.43	23.51	23.47				
40	PI/2 BPSK	1	108	23.36	23.47	23.38				
40	PI/2 BPSK	1	214	23.38	23.44	23.40				
40	PI/2 BPSK	108	0	22.89	23.04	23.00	23.5	0.5		
40	PI/2 BPSK	108	54	23.44	23.48	23.43	24.0	0.0		
40	PI/2 BPSK	108	108	23.02	23.06	23.02	23.5	0.5		
40	PI/2 BPSK	216	0	23.01	23.13	23.02				
40	QPSK	1	1	23.49	23.58	23.51				
40	QPSK	1	108	23.38	23.52	23.39				
40	QPSK	1	214	23.33	23.48	23.36	24.0	0.0		
40	QPSK	108	0	22.44	22.54	22.50	23.0	1.0		
40	QPSK	108	54	23.39	23.50	23.40	24.0	0.0		
40	QPSK	108	108	22.34	22.47	22.41	23.0	1.0		
40	QPSK	216	0	22.42	22.51	22.43	23.0	1.0		
40	16QAM	1	1	22.46	22.58	22.47				
40	64QAM	1	1	20.82	20.95	20.90				
40	256QAM	1	1	18.96	18.99	18.93				
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1724	1745	1765	24.0	0.0		
30	QPSK	1	1	23.40	23.52	23.39				
Channel				344000	349000	354000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722	1745	1770				
20	QPSK	1	1	23.44	23.51	23.48	24.0	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0		
15	QPSK	1	1	23.42	23.47	23.41				
Channel				343000	349000	355000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	23.38	23.52	23.45	24.0	0.0		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0		
5	QPSK	1	1	23.40	23.45	23.39				



n38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	18.88	18.99	18.90	20.3	0.0	
40	PI2 BPSK	1	53	19.00	19.07	19.00			
40	PI2 BPSK	1	104	18.89	18.84	18.77			
40	PI2 BPSK	50	0	18.82	18.81	18.77	20.3	0.0	
40	PI2 BPSK	50	28	18.86	18.89	18.75	20.3	0.0	
40	PI2 BPSK	50	56	18.76	18.96	18.82	20.3	0.0	
40	PI2 BPSK	100	0	18.80	19.07	18.85			
40	QPSK	1	1	19.05	19.12	19.03			
40	QPSK	1	53	19.02	18.97	18.92	20.3	0.0	
40	QPSK	1	104	18.86	18.91	18.77	20.3	0.0	
40	QPSK	50	0	18.85	18.84	18.79			
40	QPSK	50	28	18.92	18.94	18.80			
40	QPSK	50	56	18.78	18.79	18.82	20.3	0.0	
40	QPSK	100	0	18.88	18.92	18.77			
40	16QAM	1	1	18.71	18.90	18.76		20.3	
40	64QAM	1	1	18.82	18.98	18.82	20.3	0.0	
40	256QAM	1	1	18.28	18.31	18.18	19.5	0.8	
Channel				517002	519000	520998	Tune-up limit	MPR	
Frequency (MHz)				2585.91	2595	2604.99	(dBm)	(dB)	
30	QPSK	1	1	18.64	18.59	18.71	20.3	0.0	
Channel				516504	519000	521496	Tune-up limit	MPR	
Frequency (MHz)				2592.52	2595	2607.48	(dBm)	(dB)	
25	QPSK	1	1	18.60	18.60	18.60	20.3	0.0	
Channel				518000	519000	522000	Tune-up limit	MPR	
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)	
20	QPSK	1	1	18.63	18.59	18.65	20.3	0.0	
Channel				518500	519000	522496	Tune-up limit	MPR	
Frequency (MHz)				2577.51	2595	2612.49	(dBm)	(dB)	
15	QPSK	1	1	18.67	18.68	18.64	20.3	0.0	
Channel				518004	519000	522996	Tune-up limit	MPR	
Frequency (MHz)				2585.91	2595	2614.98	(dBm)	(dB)	
10	QPSK	1	1	18.70	18.80	18.73	24.5	0.0	

n41 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.00	19.10	18.96	20.3	0.0	
100	PI2 BPSK	1	137	19.07	19.00	19.01			
100	PI2 BPSK	1	271	19.01	18.96	18.85			
100	PI2 BPSK	135	0	18.88	18.95	18.80	20.3	0.0	
100	PI2 BPSK	135	69	18.96	19.00	18.89	20.3	0.0	
100	PI2 BPSK	135	138	18.89	19.04	18.74	20.3	0.0	
100	PI2 BPSK	270	0	18.90	19.15	18.94			
100	QPSK	1	1	19.10	19.17	19.09			
100	QPSK	1	137	19.05	18.98	19.00	20.3	0.0	
100	QPSK	1	271	18.95	19.03	18.92	20.3	0.0	
100	QPSK	135	0	18.96	18.93	18.94			
100	QPSK	135	69	18.98	19.02	18.90			
100	QPSK	135	138	18.90	18.91	18.96	20.3	0.0	
100	QPSK	270	0	18.91	18.95	18.88	20.3	0.0	
100	16QAM	1	1	18.80	19.03	18.85			
100	64QAM	1	1	18.96	19.02	18.94			
100	256QAM	1	1	18.42	18.49	18.35	19.5	0.8	
Channel				508200	518598	528998	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	19.04	19.08	19.00	20.3	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2538.02	2592.99	2648.99	(dBm)	(dB)	
80	QPSK	1	1	19.03	19.06	19.01	20.3	0.0	
Channel				508202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	19.01	19.10	18.94	20.3	0.0	
Channel				505200	518598	531998	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	19.04	19.05	19.03	20.3	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.98	(dBm)	(dB)	
50	QPSK	1	1	19.02	19.04	19.02	20.3	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	18.98	19.02	18.94	20.3	0.0	
Channel				502200	518598	534998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	18.98	19.12	19.03	20.3	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	18.98	19.11	19.01	20.3	0.0	

n41 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.10	22.26	22.06	23.3	0.0	
100	PI2 BPSK	1	137	22.19	22.10	22.15			
100	PI2 BPSK	1	271	22.12	22.07	21.90			
100	PI2 BPSK	135	0	21.99	22.05	21.93	23.3	0.0	
100	PI2 BPSK	135	69	22.03	22.14	21.95	23.3	0.0	
100	PI2 BPSK	135	138	21.94	22.11	21.82	23.3	0.0	
100	PI2 BPSK	270	0	21.98	22.23	22.10			
100	QPSK	1	1	22.25	22.29	22.20			
100	QPSK	1	137	22.12	22.22	22.13	23.3	0.0	
100	QPSK	1	271	22.08	22.13	22.05	23.3	0.0	
100	QPSK	135	0	22.12	22.07	22.05			
100	QPSK	135	69	22.11	22.17	22.02			
100	QPSK	135	138	22.01	22.08	22.10	23.3	0.0	
100	QPSK	270	0	22.06	22.10	21.97	23.3	0.0	
100	16QAM	1	1	22.18	22.18	22.00			
100	64QAM	1	1	22.09	22.18	22.06			
100	256QAM	1	1	22.21	22.21	22.16	22.5	0.8	
Channel				508200	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.10	22.26	22.06	23.3	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2538.02	2592.99	2648.99	(dBm)	(dB)	
80	QPSK	1	1	22.12	22.20	22.15	23.3	0.0	
Channel				508202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.16	22.19	22.14	23.3	0.0	
Channel				505200	518598	531998	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	22.20	22.23	22.12	23.3	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.98	(dBm)	(dB)	
50	QPSK	1	1	22.15	22.16	22.09	23.3	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.19	22.22	22.12	23.3	0.0	
Channel				502202	518598	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.13	22.24	22.12	23.3	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2506.01	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.15	22.18	22.12	23.3	0.0	

Part270 n77 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	19.52	19.58	19.47	20.6	0.0	
100	PI2 BPSK	1	137	19.44	19.48	19.40			
100	PI2 BPSK	1	271	19.35	19.45	19.30			
100	PI2 BPSK	135	0	19.25	19.32	19.28	20.6	0.0	
100	PI2 BPSK	135	69	19.33	19.44	19.27	20.6	0.0	
100	PI2 BPSK	135	138	19.39	19.37	19.23	20.6	0.0	
100	PI2 BPSK	270	0	19.40	19.50	19.38			
100	QPSK	1	1	19.57	19.65	19.51	20.6	0.0	
100	QPSK	1	137	19.45	19.60	19.52			
100	QPSK	1	271	19.38	19.58	19.48			
100	QPSK	135	0	19.38	19.46	19.38	20.6	0.0	
100	QPSK	135	69	19.47	19.55	19.39	20.6	0.0	
100	QPSK	135	138	19.30	19.38	19.37	20.6	0.0	
100	QPSK	270	0	19.32	19.43	19.40			
100	16QAM	1	1	19.35	19.41	19.38	20.6	0.0	
100	64QAM	1	1	19.31	19.48	19.50	20.6	0.0	
100	256QAM	1	1	17.91	18.05	17.95	19.5	1.1	
Channel				649688	650000	662088	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	19.48	19.52	19.42	20.6	0.0	
Channel				649334	656000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	19.53	19.60	19.39	20.6	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	19.48	19.54	19.49	20.6	0.0	
Channel				648666	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	19.52	19.53	19.44	20.6	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	19.47	19.50	19.44	20.6	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3900	3960	(dBm)	(dB)	
40	QPSK	1	1	19.44	19.62	19.42	20.6	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	19.53	19.56	19.47	20.6	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	19.47	19.54	19.46	20.6	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	19.46	19.61	19.37	20.6	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	19.44	19.51	19.42	20.6	0.0	

Part270 n77 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.51	22.56	22.48	23.6	0.0	
100	PI2 BPSK	1	137	22.43	22.45	22.44			
100	PI2 BPSK	1	271	22.41	22.47	22.25			
100	PI2 BPSK	135	0	22.25	22.30	22.25	23.6	0.0	
100	PI2 BPSK	135	69	22.37	22.41	22.29	23.6	0.0	
100	PI2 BPSK	135	138	22.34	22.33	22.29	23.6	0.0	
100	PI2 BPSK	270	0	22.41	22.47	22.38			
100	QPSK	1	1	22.57	22.61	22.56	23.6	0.0	
100	QPSK	1	137	22.48	22.56	22.54			
100	QPSK	1	271	22.44	22.54	22.49			
100	QPSK	135	0	22.44	22.49	22.42	23.6	0.0	
100	QPSK	135	69	22.50	22.57	22.38	23.6	0.0	
100	QPSK	135	138	22.26	22.38	22.30	23.6	0.0	
100	QPSK	270	0	22.32	22.42	22.36			
100	16QAM	1	1	22.31	22.47	22.42	23.6	0.0	
100	64QAM	1	1	22.28	22.50	22.48	23.6	0.0	
100	256QAM	1	1	21.50	21.59	21.56	22.5	1.1	
Channel				649688	650000	662088	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	22.48	22.52	22.44	23.6	0.0	
Channel				649334	656000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	22.48	22.56	22.49	23.6	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	22.49	22.56	22.43	23.6	0.0	
Channel				648666	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	22.46	22.54	22.43	23.6	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	22.49	22.55	22.47	23.6	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3900	3960	(dBm)	(dB)	
40	QPSK	1	1	22.43	22.47	22.45	23.6	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	22.46	22.53	22.46	23.6	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	22.42	22.56	22.43	23.6	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	22.53	22.48	22.53	23.6	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	22.43	22.55	22.42	23.6	0.0	

Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		19.57		20.6	0.0	
100	PI2 BPSK	1	137		19.44				
100	PI2 BPSK	1	271		19.44				
100	PI2 BPSK	135	0		19.27		20.6	0.0	
100	PI2 BPSK	135	69		19.35		20.6	0.0	
100	PI2 BPSK	135	138		19.27		20.6	0.0	
100	PI2 BPSK	270	0		19.43				
100	QPSK	1	1		19.62				
100	QPSK	1	137		19.58		20.6	0.0	
100	QPSK	1	271		19.51		20.6	0.0	
100	QPSK	135	0		19.45				
100	QPSK	135	69		19.49		20.6	0.0	
100	QPSK	135	138		19.29		20.6	0.0	
100	QPSK	270	0		19.34				
100	16QAM	1	1		19.38		20.6	0.0	
100	64QAM	1	1		19.48		19.5	1.1	
100	256QAM	1	1		18.24				
Channel				649688	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	19.40	19.41	19.53	20.6	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	19.44	19.51	19.43	20.6	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	19.47	19.43	19.45	20.6	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	19.35	19.40	19.40	20.6	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	19.50	19.41	19.39	20.6	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	19.35	19.41	19.40	20.6	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	19.42	19.48	19.52	20.6	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	19.46	19.46	19.50	20.6	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	19.42	19.49	19.44	20.6	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	19.40	19.55	19.42	20.6	0.0	

Part270 n78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq. 650000	Power Middle Ch./ Freq. 650000	Power High Ch./ Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		22.56		23.6	0.0	
100	PI2 BPSK	1	137		22.46				
100	PI2 BPSK	1	271		22.38				
100	PI2 BPSK	135	0		22.31		23.6	0.0	
100	PI2 BPSK	135	69		22.41		23.6	0.0	
100	PI2 BPSK	135	138		22.25		23.6	0.0	
100	PI2 BPSK	270	0		22.40				
100	QPSK	1	1		22.59				
100	QPSK	1	137		22.49		23.6	0.0	
100	QPSK	1	271		22.53		23.6	0.0	
100	QPSK	135	0		22.42				
100	QPSK	135	69		22.55		23.6	0.0	
100	QPSK	135	138		22.29		23.6	0.0	
100	QPSK	270	0		22.39				
100	16QAM	1	1		22.39		23.6	0.0	
100	64QAM	1	1		22.43		23.6	0.0	
100	256QAM	1	1		22.03		22.5	1.1	
Channel				649688	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dbm)	(db)	
90	QPSK	1	1	22.40	22.43	22.41	23.6	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dbm)	(db)	
80	QPSK	1	1	22.47	22.40	22.33 <td>23.6</td> <td colspan="2">0.0</td>	23.6	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dbm)	(db)	
70	QPSK	1	1	22.31	22.44	22.47	23.6	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dbm)	(db)	
60	QPSK	1	1	22.32	22.43	22.52	23.6	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dbm)	(db)	
50	QPSK	1	1	22.43	22.41	22.46	23.6	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dbm)	(db)	
40	QPSK	1	1	22.38	22.42	22.40	23.6	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dbm)	(db)	
30	QPSK	1	1	22.47	22.47	22.46	23.6	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dbm)	(db)	
20	QPSK	1	1	22.34	22.43	22.45	23.6	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dbm)	(db)	
15	QPSK	1	1	22.38	22.52	22.45	23.6	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dbm)	(db)	
10	QPSK	1	1	22.44	22.41	22.39	23.6	0.0	



n7 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2530	2535	2550	23.3	0.0
Frequency (MHz)				2530	2535	2550		
40	PI/2 BPSK	1	1	22.73	22.77	22.70		
40	PI/2 BPSK	1	108	22.62	22.71	22.64		
40	PI/2 BPSK	1	214	22.54	22.59	22.55	23.3	0.0
40	PI/2 BPSK	108	0	22.44	22.63	22.47		
40	PI/2 BPSK	108	54	22.60	22.66	22.54		
40	PI/2 BPSK	108	108	22.55	22.57	22.47		
40	PI/2 BPSK	216	0	22.68	22.73	22.60	23.3	0.0
40	QPSK	1	1	22.69	22.63	22.76		
40	QPSK	1	108	22.61	22.78	22.67		
40	QPSK	1	214	22.57	22.69	22.69		
40	QPSK	108	0	22.62	22.67	22.56	23.0	0.3
40	QPSK	108	54	22.62	22.75	22.61		
40	QPSK	108	108	22.46	22.56	22.51		
40	QPSK	216	0	22.59	22.62	22.60		
40	16QAM	1	1	22.57	22.63	22.58	23.0	0.3
40	64QAM	1	1	21.42	21.45	21.35		
40	256QAM	1	1	19.38	19.32	19.48		
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.63	22.79	22.71		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2512.5	2535	2537.5		
25	QPSK	1	1	22.57	22.75	22.63		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.60	22.76	22.68		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.62	22.69	22.68		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.65	22.79	22.73		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.54	22.73	22.68		

n66 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1760	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.40	23.46	23.43		
40	PI/2 BPSK	1	108	23.29	23.42	23.35		
40	PI/2 BPSK	1	214	23.25	23.37	23.33	23.5	0.5
40	PI/2 BPSK	108	0	22.91	23.04	22.89		
40	PI/2 BPSK	108	54	23.34	23.47	23.37		
40	PI/2 BPSK	108	108	22.97	23.08	22.94		
40	PI/2 BPSK	216	0	22.85	22.96	22.97	23.5	0.5
40	QPSK	1	1	23.39	23.52	23.46		
40	QPSK	1	108	23.42	23.43	23.39		
40	QPSK	1	214	23.37	23.38	23.27		
40	QPSK	108	0	22.52	22.62	22.59	23.0	1.0
40	QPSK	108	54	23.42	23.50	23.44		
40	QPSK	108	108	22.55	22.60	22.56		
40	QPSK	216	0	22.52	22.62	22.52		
40	16QAM	1	1	22.55	22.70	22.51	23.0	1.0
40	64QAM	1	1	21.13	21.16	21.14		
40	256QAM	1	1	19.37	19.40	19.32		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.33	23.38	23.43		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.35	23.43	23.41		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.30	23.45	23.35		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.35	23.48	23.41		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.32	23.37	23.40		



n38 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	22.77	22.78	22.68	24.0	0.0	
40	PV2 BPSK	1	53	22.87	22.85	22.57			
40	PV2 BPSK	1	104	22.78	22.93	22.63			
40	PV2 BPSK	50	0	22.29	22.47	22.34	24.0	0.0	
40	PV2 BPSK	50	28	22.74	22.84	22.80	24.0	0.0	
40	PV2 BPSK	50	56	22.45	22.52	22.49	24.0	0.0	
40	PV2 BPSK	100	0	22.84	22.94	22.74			
40	QPSK	1	1	22.89	23.01	22.78			
40	QPSK	1	53	22.76	22.93	22.65	24.0	0.0	
40	QPSK	1	104	22.83	22.85	22.62	23.5	0.5	
40	QPSK	50	0	22.83	22.84	22.58			
40	QPSK	50	28	22.81	22.89	22.77			
40	QPSK	50	56	22.84	22.86	22.79	23.5	0.5	
40	QPSK	100	0	22.89	22.76	22.72			
40	16QAM	1	1	22.83	22.82	22.66	23.5	0.5	
40	64QAM	1	1	21.58	21.64	21.54	22.0	2.0	
40	256QAM	1	1	19.29	19.40	19.32	20.0	4.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	22.78	22.76	22.72	24.0	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	22.71	22.70	22.65	24.0	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.67	22.78	22.63	24.0	0.0	
Channel				515000	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.78	22.71	22.70	24.0	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.78	22.80	22.72	24.5	0.0	

n41 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.87	22.85	22.79	24.0	0.0	
100	PQ2 BPSK	1	137	22.92	22.97	22.71			
100	PQ2 BPSK	1	271	22.83	23.03	22.70			
100	PQ2 BPSK	135	0	22.43	22.54	22.47	24.0	0.0	
100	PQ2 BPSK	135	69	22.78	22.89	22.86	24.0	0.0	
100	PQ2 BPSK	135	138	22.51	22.68	22.51	24.0	0.0	
100	PQ2 BPSK	270	0	22.88	22.99	22.77			
100	QPSK	1	1	23.04	23.08	22.84			
100	QPSK	1	137	22.81	22.96	22.73	24.0	0.0	
100	QPSK	1	271	22.89	23.06	22.76	23.5	0.5	
100	QPSK	135	0	22.90	22.91	22.72			
100	QPSK	135	69	22.86	22.97	22.84			
100	QPSK	135	138	22.77	22.93	22.85	23.5	0.5	
100	QPSK	270	0	22.78	22.92	22.75			
100	16QAM	1	1	22.94	22.88	22.78	23.5	0.5	
100	64QAM	1	1	21.21	21.29	21.15	22.0	2.0	
100	256QAM	1	1	18.95	19.09	18.96	20.0	4.0	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	22.84	22.98	22.82	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2630.02	2592.99	2643.99			
80	QPSK	1	1	22.77	22.95	22.83	24.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.78	22.94	22.85	24.0	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	22.82	23.01	22.87	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.98	2644.98			
50	QPSK	1	1	22.87	22.85	22.78	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570.01	2592.99	2610			
40	QPSK	1	1	22.79	23.00	22.70	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	22.80	22.96	22.75	24.0	0.0	
Channel				503204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2596.02	2592.99	2679.99			
20	QPSK	1	1	22.82	22.97	22.77	24.0	0.0	

n41 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508200	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.75	25.91	25.95	27.0	0.0	
100	PV2 BPSK	1	137	25.78	26.01	25.95			
100	PV2 BPSK	1	271	25.75	25.88	25.84			
100	PV2 BPSK	135	0	25.81	25.89	25.78	27.0	0.0	
100	PV2 BPSK	135	69	25.80	25.97	25.95	27.0	0.0	
100	PV2 BPSK	135	138	25.97	25.85	25.79	27.0	0.0	
100	PV2 BPSK	270	0	25.74	25.88	25.81			
100	QPSK	1	1	25.91	26.04	25.90			
100	QPSK	1	137	25.83	25.95	25.82	27.0	0.0	
100	QPSK	1	271	25.76	25.96	25.92	26.5	0.5	
100	QPSK	135	0	25.73	25.97	25.92			
100	QPSK	135	69	25.86	26.02	25.92			
100	QPSK	135	138	25.89	25.91	25.82	26.5	0.5	
100	QPSK	270	0	25.76	25.99	25.79			
100	16QAM	1	1	25.75	25.95	25.80	26.5	0.5	
100	64QAM	1	1	24.71	24.74	24.69	25.0	2.0	
100	256QAM	1	1	22.21	22.32	22.18	23.0	4.0	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	25.85	25.93	25.90	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.02	2592.99	2643.99			
80	QPSK	1	1	25.96	25.89	25.93	27.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	25.88	25.93	25.95	27.0	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	25.85	25.94	25.85	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2644.98			
50	QPSK	1	1	25.88	25.95	25.80	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	25.84	25.96	25.91	27.0	0.0	
Channel				502202	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	25.80	25.97	25.81	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2606.02	2592.99	2679.98			
20	QPSK	1	1	25.73	25.88	25.92	27.0	0.0	

Part27O n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	20.51	20.54	20.45	21.9	0.0	
100	PI2 BPSK	1	137	20.48	20.49	20.38			
100	PI2 BPSK	1	271	20.35	20.48	20.30			
100	PI2 BPSK	135	0	20.22	20.34	20.32	21.9	0.0	
100	PI2 BPSK	135	69	20.35	20.43	20.29	21.9	0.0	
100	PI2 BPSK	135	138	20.35	20.41	20.34	21.9	0.0	
100	PI2 BPSK	270	0	20.44	20.52	20.32			
100	QPSK	1	1	20.56	20.61	20.53			
100	QPSK	1	137	20.48	20.60	20.45	21.9	0.0	
100	QPSK	1	271	20.37	20.50	20.42	21.9	0.0	
100	QPSK	135	0	20.43	20.46	20.42			
100	QPSK	135	69	20.43	20.54	20.40			
100	QPSK	135	138	20.31	20.43	20.35	21.9	0.0	
100	QPSK	270	0	20.39	20.47	20.38			
100	16QAM	1	1	20.26	20.43	20.38	21.9	0.0	
100	64QAM	1	1	20.18	20.29	20.22	21.5	0.4	
100	256QAM	1	1	17.98	18.05	17.99	19.5	2.4	
Channel				649698	656000	662684	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.46	20.58	20.50	21.9	0.0	
Channel				649334	656000	662688	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.47	20.55	20.40	21.9	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.44	20.53	20.39	21.9	0.0	
Channel				648666	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.53	20.49	20.47	21.9	0.0	
Channel				648334	656000	663688	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.52	20.53	20.47	21.9	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.52	20.48	20.39	21.9	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	20.47	20.51	20.41	21.9	0.0	
Channel				647334	656000	664688	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.43	20.53	20.40	21.9	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.51	20.48	20.41	21.9	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.44	20.54	20.40	21.9	0.0	

Part27O n77 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (db)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	23.68	23.66	23.59	24.9	0.0	
100	PI2 BPSK	1	137	23.60	23.55	23.52			
100	PI2 BPSK	1	271	23.40	23.58	23.35			
100	PI2 BPSK	135	0	23.38	23.43	23.40	24.9	0.0	
100	PI2 BPSK	135	69	23.45	23.50	23.45	24.9	0.0	
100	PI2 BPSK	135	138	23.40	23.57	23.40	24.9	0.0	
100	PI2 BPSK	270	0	23.59	23.60	23.48			
100	QPSK	1	1	23.62	23.74	23.68			
100	QPSK	1	137	23.59	23.71	23.59	24.9	0.0	
100	QPSK	1	271	23.46	23.63	23.63	24.9	0.0	
100	QPSK	135	0	23.51	23.61	23.64			
100	QPSK	135	69	23.59	23.68	23.48			
100	QPSK	135	138	23.45	23.58	23.45	24.9	0.0	
100	QPSK	270	0	23.52	23.63	23.46			
100	16QAM	1	1	23.38	23.48	23.44	24.9	0.0	
100	64QAM	1	1	23.59	23.69	23.58	24.5	0.4	
100	256QAM	1	1	20.89	21.03	20.90	22.5	2.4	
Channel				649698	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3930.01	(dbm)	(db)	
90	QPSK	1	1	23.52	23.65	23.59	24.9	0.0	
Channel				649334	656000	662688	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dbm)	(db)	
80	QPSK	1	1	23.58	23.68	23.54	24.9	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dbm)	(db)	
70	QPSK	1	1	23.49	23.64	23.58	24.9	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dbm)	(db)	
60	QPSK	1	1	23.53	23.65	23.57	24.9	0.0	
Channel				648334	656000	663688	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dbm)	(db)	
50	QPSK	1	1	23.56	23.68	23.58	24.9	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dbm)	(db)	
40	QPSK	1	1	23.48	23.71	23.60	24.9	0.0	
Channel				647686	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dbm)	(db)	
30	QPSK	1	1	23.51	23.60	23.54	24.9	0.0	
Channel				647334	656000	664688	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dbm)	(db)	
20	QPSK	1	1	23.59	23.69 <td>23.60</td> <td>24.9</td> <td colspan="2">0.0</td>	23.60	24.9	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dbm)	(db)	
15	QPSK	1	1	23.53	23.59	23.64	24.9	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dbm)	(db)	
10	QPSK	1	1	23.54	23.64	23.56	24.9	0.0	

Part270 n78 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		20.47		21.9	0.0	
100	PI2 BPSK	1	137		20.41				
100	PI2 BPSK	1	271		20.37				
100	PI2 BPSK	135	0		20.30		21.9	0.0	
100	PI2 BPSK	135	69		20.32		21.9	0.0	
100	PI2 BPSK	135	138		20.35		21.9	0.0	
100	PI2 BPSK	270	0		20.48				
100	QPSK	1	1		20.57				
100	QPSK	1	137		20.49		21.9	0.0	
100	QPSK	1	271		20.43		21.9	0.0	
100	QPSK	135	0		20.39				
100	QPSK	135	69		20.49				
100	QPSK	135	138		20.37		21.9	0.0	
100	QPSK	270	0		20.34		21.9	0.0	
100	16QAM	1	1		20.36				
100	64QAM	1	1		20.22				
100	256QAM	1	1		17.82		19.5	2.4	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.40	20.51	20.36	21.9	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.02			
80	QPSK	1	1	20.33	20.41	20.39	21.9	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.39	20.43	20.43	21.9	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.32	20.41	20.37	21.9	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.36	20.51	20.40	21.9	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.39	20.43	20.42	21.9	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.33	20.47	20.40	21.9	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.40	20.48	20.36	21.9	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.33	20.45	20.39	21.9	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.33	20.40	20.42	21.9	0.0	

Part270 n78 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.59		24.9	0.0	
100	PI2 BPSK	1	137		23.42				
100	PI2 BPSK	1	271		23.47				
100	PI2 BPSK	135	0		23.32		24.9	0.0	
100	PI2 BPSK	135	69		23.37		24.9	0.0	
100	PI2 BPSK	135	138		23.51		24.9	0.0	
100	PI2 BPSK	270	0		23.58				
100	QPSK	1	1		23.69				
100	QPSK	1	137		23.62		24.9	0.0	
100	QPSK	1	271		23.54		24.9	0.0	
100	QPSK	135	0		23.53				
100	QPSK	135	69		23.63				
100	QPSK	135	138		23.48		24.9	0.0	
100	QPSK	270	0		23.55		24.9	0.0	
100	16QAM	1	1		23.42				
100	64QAM	1	1		23.61				
100	256QAM	1	1		21.69		22.5	2.4	
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.40	23.49	23.48	24.9	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.48	23.55	23.55	24.9	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.48	23.60	23.50	24.9	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.42	23.50	23.51	24.9	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.43	23.60	23.48	24.9	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.39	23.49	23.52	24.9	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	23.48	23.58	23.47	24.9	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.43	23.50	23.44	24.9	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.47	23.55	23.52	24.9	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.41	23.55	23.44	24.9	0.0	



n5 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.18	23.23	23.13			
20	PI2 BPSK	1	53	23.04	23.14	23.06	23.5	0.5	
20	PI2 BPSK	1	104	22.98	23.06	22.94			
20	PI2 BPSK	50	0	22.85	22.76	22.73			
20	PI2 BPSK	50	28	23.08	23.18	23.11	23.5	0.5	
20	PI2 BPSK	50	56	22.59	22.64	22.51			
20	PI2 BPSK	100	0	22.66	22.70	22.63			
20	QPSK	1	1	23.23	23.27	23.16	24.0	0.0	
20	QPSK	1	53	23.11	23.16	23.13			
20	QPSK	1	104	22.96	23.05	22.98			
20	QPSK	50	0	22.14	22.28	22.21	23.0	1.0	
20	QPSK	50	28	23.15	23.21	23.08			
20	QPSK	50	56	22.14	22.18	22.06			
20	QPSK	100	0	22.17	22.23	22.13	23.0	1.0	
20	16QAM	1	1	22.39	22.48	22.42			
20	64QAM	1	1	20.73	20.86	20.79		2.5	
20	256QAM	1	1	18.89	19.01	18.96	19.5		4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0	
15	QPSK	1	1	23.11	23.18	23.08			
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	24.0	0.0	
10	QPSK	1	1	23.13	23.15	23.02			
Channel				163200	163700	163700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0	
5	QPSK	1	1	23.17	23.23	23.04			

n7 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50000	507000	510000	20.2	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.57	18.63	18.60			
40	PI2 BPSK	1	108	18.63	18.82	18.73	20.2	0.0	
40	PI2 BPSK	1	214	18.63	18.81	18.73			
40	PI2 BPSK	108	0	18.66	18.62	18.50			
40	PI2 BPSK	108	54	18.66	18.80	18.74	20.2	0.0	
40	PI2 BPSK	108	108	18.59	18.82	18.67			
40	PI2 BPSK	216	0	18.72	18.79	18.64			
40	QPSK	1	1	18.72	18.95	18.89	20.2	0.0	
40	QPSK	1	108	18.75	18.90	18.81			
40	QPSK	1	214	18.67	18.67	18.55			
40	QPSK	108	0	18.82	18.68	18.66	20.2	0.0	
40	QPSK	108	54	18.82	18.77	18.66			
40	QPSK	108	108	18.56	18.76	18.50			
40	QPSK	216	0	18.63	18.98	18.70	20.2	0.0	
40	16QAM	1	1	18.62	18.85	18.65			
40	64QAM	1	1	18.62	18.83	18.74		20.2	
40	256QAM	1	1	17.30	17.38	17.23	18.5		1.7
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2552	20.2	0.0	
30	QPSK	1	1	18.65	18.66	18.53			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	20.2	0.0	
25	QPSK	1	1	18.56	18.62	18.56			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	20.2	0.0	
20	PI2 BPSK	1	1	18.69	18.72	18.57			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	20.2	0.0	
15	QPSK	1	1	18.62	18.64	18.50			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	20.2	0.0	
10	QPSK	1	1	18.59	18.71	18.59			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	20.2	0.0	
5	QPSK	1	1	18.65	18.71	18.47			

n66 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	23.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.14	22.27	22.17			
40	PI2 BPSK	1	108	22.07	22.22	22.11	23.0	0.0	
40	PI2 BPSK	1	214	22.08	22.16	22.12			
40	PI2 BPSK	108	0	21.88	21.86	21.82			
40	PI2 BPSK	108	54	22.02	22.20	22.13	23.0	0.0	
40	PI2 BPSK	108	108	21.89	21.81	21.78			
40	PI2 BPSK	216	0	21.74	21.94	21.85			
40	QPSK	1	1	22.23	22.35	22.31	23.0	0.0	
40	QPSK	1	108	22.04	22.26	22.14			
40	QPSK	1	214	22.02	22.21	22.07			
40	QPSK	108	0	21.13	21.36	21.24	22.0	1.0	
40	QPSK	108	54	22.15	22.29	22.24			
40	QPSK	108	108	21.24	21.48	21.35		22.0	
40	QPSK	216	0	21.26	21.43	21.29	22.0	1.0	
40	16QAM	1	1	20.96	21.11	21.01			
40	64QAM	1	1	19.87	19.93	19.81		20.5	
40	256QAM	1	1	17.59	17.85	17.73	18.5		4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1762	23.0	0.0	
30	QPSK	1	1	22.11	22.27	22.20			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	23.0	0.0	
20	QPSK	1	1	22.16	22.31	22.24			
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0	
15	QPSK	1	1	22.16	22.28	22.24			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1772	23.0	0.0	
10	QPSK	1	1	22.19	22.22	22.17			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0	
5	QPSK	1	1	22.16	22.29	22.21			



n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	17.91	18.04	17.85			
40	PQ2 BPSK	1	53	17.78	17.93	17.59	19.4	0.0	
40	PQ2 BPSK	1	104	17.69	17.76	17.79			
40	PQ2 BPSK	50	0	17.95	17.93	17.87	19.4	0.0	
40	PQ2 BPSK	50	28	17.96	17.96	17.89	19.4	0.0	
40	PQ2 BPSK	50	58	17.72	18.00	17.58			
40	PQ2 BPSK	100	0	17.89	17.80	17.82			
40	QPSK	1	1	18.04	18.14	18.03			
40	QPSK	1	53	17.74	17.87	17.85	19.4	0.0	
40	QPSK	1	104	17.70	17.87	17.85			
40	QPSK	50	0	18.02	18.05	17.95	19.4	0.0	
40	QPSK	50	28	17.78	18.03	17.80			
40	QPSK	50	58	17.99	17.96	17.85			
40	QPSK	100	0	17.73	17.95	17.63			
40	16QAM	1	1	17.68	17.76	17.66	19.4	0.0	
40	64QAM	1	1	17.66	17.69	17.62	19.4	0.0	
40	256QAM	1	1	18.55	18.58	18.57	18.5	0.9	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	17.66	17.75	17.96	19.4	0.0	
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	17.72	17.82	17.80	19.4	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	17.75	17.73	17.95	19.4	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	17.72	17.73	17.83	19.4	0.0	
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	17.68	17.77	17.89	19.4	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	18.01	18.17	17.93			
100	PQ2 BPSK	1	137	17.82	18.00	17.63	19.4	0.0	
100	PQ2 BPSK	1	271	17.75	17.81	17.85			
100	PQ2 BPSK	135	0	17.99	18.05	17.91	19.4	0.0	
100	PQ2 BPSK	135	69	18.02	18.05	17.99	19.4	0.0	
100	PQ2 BPSK	135	138	17.77	18.03	17.69			
100	PQ2 BPSK	270	0	17.83	17.91	17.91			
100	QPSK	1	1	18.11	18.23	18.13			
100	QPSK	1	137	17.83	18.01	17.52	19.4	0.0	
100	QPSK	1	271	17.85	17.91	17.96			
100	QPSK	135	0	18.06	18.14	18.01	19.4	0.0	
100	QPSK	135	69	17.86	18.07	17.70	19.4	0.0	
100	QPSK	135	138	18.02	18.02	17.96			
100	QPSK	270	0	17.77	18.05	17.79	19.4	0.0	
100	16QAM	1	1	17.72	17.80	17.80	19.4	0.0	
100	64QAM	1	1	17.73	17.76	17.86	19.4	0.0	
100	256QAM	1	1	18.61	18.68	18.68	18.5	0.9	
Channel				508200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.95	17.99	17.98	19.4	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	17.98	17.97	18.03	19.4	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	17.98	17.94	17.97	19.4	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.99			
60	QPSK	1	1	17.88	18.03	17.95	19.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.90	17.95	17.97	19.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.93	18.04	17.97	19.4	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.99	17.97	17.95	19.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.97	17.94	17.97	19.4	0.0	

n41 HPUE Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	21.09	21.01	20.96			
100	PV2 BPSK	1	137	20.81	21.16	20.97	22.4	0.0	
100	PV2 BPSK	1	271	20.93	21.09	20.94			
100	PV2 BPSK	135	0	21.07	21.21	21.12	22.4	0.0	
100	PV2 BPSK	135	69	21.02	21.12	21.05	22.4	0.0	
100	PV2 BPSK	135	138	20.88	21.05	20.97			
100	PV2 BPSK	270	0	20.82	21.01	21.01	22.4	0.0	
100	QPSK	1	1	21.10	21.24	21.17			
100	QPSK	1	137	20.95	21.18	21.02	22.4	0.0	
100	QPSK	1	271	20.91	21.08	21.02			
100	QPSK	135	0	21.15	21.19	21.16	22.4	0.0	
100	QPSK	135	69	20.80	21.11	21.02	22.4	0.0	
100	QPSK	135	138	21.00	21.08	21.07			
100	QPSK	270	0	20.98	21.11	21.05	22.4	0.0	
100	16QAM	1	1	20.96	21.16	20.93	22.4	0.0	
100	64QAM	1	1	20.76	21.01	20.95	22.4	0.0	
100	256QAM	1	1	20.21	20.35	20.29	21.5	0.9	
Channel				508200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.05	21.21	21.07	22.4	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	21.03	21.19	21.14	22.4	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.99	21.15	21.15	22.4	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.99			
60	QPSK	1	1	20.99	21.23	21.08	22.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.95	21.21	21.03	22.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.95	21.13	21.09	22.4	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.00	21.23	21.05	22.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.01	21.17	21.03	22.4	0.0	

Part270 n77 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	21.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.24	20.37	20.26			
100	PI2 BPSK	1	137	20.20	20.33	20.22			
100	PI2 BPSK	1	271	20.15	20.28	20.22	20.5	0.5	
100	PI2 BPSK	135	0	18.72	18.78	18.74			
100	PI2 BPSK	135	69	20.22	20.31	20.19			
100	PI2 BPSK	135	138	18.63	18.76	18.67			
100	PI2 BPSK	270	0	18.80	18.88	18.80	21.0	0.0	
100	QPSK	1	1	20.37	20.43	20.31			
100	QPSK	1	137	20.19	20.35	20.25			
100	QPSK	1	271	20.13	20.31	20.20			
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0	
100	QPSK	135	69	20.20	20.38	20.27	21.0	0.0	
100	QPSK	135	138	18.84	18.96	18.81	20.0	1.0	
100	QPSK	270	0	18.91	19.02	18.88	20.0	1.0	
100	16QAM	1	1	18.60	18.68	18.60	20.0	1.0	
100	64QAM	1	1	17.49	17.65	17.53	18.5	2.5	
100	256QAM	1	1	15.22	15.32	15.26	16.5	4.5	
Channel				64695	65000	65234	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.26	20.38	20.30	21.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.19	20.29	20.31	21.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.23	20.38	20.32	21.0	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.19	20.28	20.30	21.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.28	20.37	20.25	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.24	20.30	20.31	21.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3955.01	(dBm)	(dB)	
30	QPSK	1	1	20.20	20.28	20.28	21.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.22	20.28	20.24	21.0	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.19	20.36	20.30	21.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.28	20.34	20.28	21.0	0.0	

Part270 n77 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	24.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.33	23.39	23.29			
100	PI2 BPSK	1	137	23.23	23.33	23.26			
100	PI2 BPSK	1	271	23.14	23.27	23.23	23.5	0.5	
100	PI2 BPSK	135	0	22.79	22.88	22.84			
100	PI2 BPSK	135	69	23.28	23.34	23.20			
100	PI2 BPSK	135	138	22.86	22.90	22.79			
100	PI2 BPSK	270	0	22.88	22.94	22.82	24.0	0.0	
100	QPSK	1	1	23.36	23.42	23.32			
100	QPSK	1	137	23.28	23.35	23.25			
100	QPSK	1	271	23.21	23.31	23.22			
100	QPSK	135	0	22.21	22.34	22.26	23.0	1.0	
100	QPSK	135	69	23.22	23.36	23.26	24.0	0.0	
100	QPSK	135	138	22.34	22.39	22.34	23.0	1.0	
100	QPSK	270	0	22.32	22.45	22.39	23.0	1.0	
100	16QAM	1	1	22.46	22.57	22.51	23.0	1.0	
100	64QAM	1	1	20.74	20.88	20.77	21.5	2.5	
100	256QAM	1	1	18.58	18.67	18.63	19.5	4.5	
Channel				64695	65000	65234	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	23.28	23.35	23.24	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	23.31	23.34	23.27	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	23.29	23.37	23.29	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	23.26	23.38	23.18	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	23.25	23.28	23.27	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	23.29	23.30	23.18	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3955.01	(dBm)	(dB)	
30	QPSK	1	1	23.24	23.36	23.19	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	23.31	23.28	23.25	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	23.31	23.32	23.21	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	23.26	23.29	23.25	24.0	0.0	

Part270 n78 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		20.31		21.0	0.0	
100	PI2 BPSK	1	137		20.27				
100	PI2 BPSK	1	271		20.22				
100	PI2 BPSK	135	0		19.13				
100	PI2 BPSK	135	69		20.25		21.0	0.0	
100	PI2 BPSK	135	138		19.01		20.5	0.5	
100	PI2 BPSK	270	0		19.07				
100	QPSK	1	1		20.30		21.0	0.0	
100	QPSK	1	137		20.30				
100	QPSK	1	271		20.17		20.0	1.0	
100	QPSK	135	0		18.82				
100	QPSK	135	69		20.29				
100	QPSK	135	138		18.67				
100	QPSK	270	0		18.72		20.0	1.0	
100	16QAM	1	1		18.84		20.0	1.0	
100	64QAM	1	1		17.56				
100	256QAM	1	1		15.33		18.5	2.5	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		20.19	20.24	20.14	21.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		20.23	20.20	20.11	21.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		20.15	20.28	20.18	21.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		20.19	20.25	20.13	21.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		20.24	20.27	20.13	21.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		20.20	20.26	20.19	21.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1		20.27	20.30	20.09	21.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		20.25	20.24	20.08	21.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		20.22	20.27	20.19	21.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		20.16	20.23	20.20	21.0	

Part270 n78 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		23.17		24.0	0.0	
100	PI2 BPSK	1	137		23.08				
100	PI2 BPSK	1	271		23.02				
100	PI2 BPSK	135	0		22.52				
100	PI2 BPSK	135	69		23.09		24.0	0.0	
100	PI2 BPSK	135	138		22.46		23.5	0.5	
100	PI2 BPSK	270	0		22.53				
100	QPSK	1	1		23.21		24.0	0.0	
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.04		23.0	1.0	
100	QPSK	135	0		22.01				
100	QPSK	135	69		23.14				
100	QPSK	135	138		21.56				
100	QPSK	270	0		22.02		23.0	1.0	
100	16QAM	1	1		22.03		23.0	1.0	
100	64QAM	1	1		20.85				
100	256QAM	1	1		18.88		19.5	4.5	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		23.11	23.15	23.05	24.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		23.09	23.10	23.02	24.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		23.13	23.18	22.97	24.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3790.01	(dBm)	(dB)	
60	QPSK	1	1		23.12	23.08	22.98	24.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		23.05	23.08	22.94	24.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		23.12	23.06	23.04	24.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1		23.11	23.17	23.03	24.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		23.09	23.14	23.01	24.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		23.11	23.18	23.00	24.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		23.09	23.16	22.94	24.0	



n5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	23.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	21.69	21.83	21.79			
20	PI2 BPSK	1	53	21.73	21.78	21.67	22.5	0.5	
20	PI2 BPSK	1	104	21.61	21.70	21.66			
20	PI2 BPSK	50	0	21.34	21.41	21.34			
20	PI2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0	
20	PI2 BPSK	50	58	21.24	21.34	21.20	22.5	0.5	
20	PI2 BPSK	100	0	21.35	21.40	21.28			
20	QPSK	1	1	21.83	21.86	21.76			
20	QPSK	1	53	21.71	21.82	21.70	23.0	0.0	
20	QPSK	1	104	21.65	21.76	21.61			
20	QPSK	50	0	20.79	20.87	20.76			
20	QPSK	50	28	21.68	21.81	21.76	23.0	0.0	
20	QPSK	50	58	20.70	20.84	20.75			
20	QPSK	100	0	20.77	20.90	20.80			
20	16QAM	1	1	21.22	21.28	21.13	22.0	1.0	
20	64QAM	1	1	19.46	19.57	19.45	20.5	2.5	
20	256QAM	1	1	17.39	17.51	17.41	18.5	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	23.0	0.0	
15	QPSK	1	1	21.72	21.78	21.64			
Channel				165800	167300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844	23.0	0.0	
10	QPSK	1	1	21.76	21.81	21.66			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	23.0	0.0	
5	QPSK	1	1	21.77	21.84	21.69			

n7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50000	50700	51000	21.9	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	20.49	20.53	20.43			
40	PI2 BPSK	1	108	20.45	20.54	20.45	21.9	0.0	
40	PI2 BPSK	1	214	20.29	20.42	20.38			
40	PI2 BPSK	108	0	20.22	20.33	20.41			
40	PI2 BPSK	108	54	20.31	20.38	20.35	21.9	0.0	
40	PI2 BPSK	108	108	20.35	20.44	20.36			
40	PI2 BPSK	216	0	20.46	20.50	20.33			
40	QPSK	1	1	20.53	20.63	20.57	21.9	0.0	
40	QPSK	1	108	20.47	20.38	20.38			
40	QPSK	1	214	20.33	20.34	20.32			
40	QPSK	108	0	20.28	20.25	20.21	21.9	0.0	
40	QPSK	108	54	20.42	20.50	20.48			
40	QPSK	108	108	20.44	20.41	20.44			
40	QPSK	216	0	20.37	20.44	20.41	21.9	0.0	
40	16QAM	1	1	20.28	20.46	20.44			
40	64QAM	1	1	20.23	20.39	20.31		21.5	
40	256QAM	1	1	18.52	18.67	18.59	19.5	2.4	
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	21.9	0.0	
30	QPSK	1	1	20.42	20.55	20.47			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	21.9	0.0	
25	QPSK	1	1	20.40	20.49	20.45			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	21.9	0.0	
20	PI2 BPSK	1	1	20.52	20.57	20.48			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	21.9	0.0	
15	QPSK	1	1	20.46	20.57	20.43			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	21.9	0.0	
10	QPSK	1	1	20.39	20.55	20.47			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	21.9	0.0	
5	QPSK	1	1	20.49	20.54	20.51			

n66 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000	22.3	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	20.92	20.89	20.74			
40	PI2 BPSK	1	108	20.93	20.95	20.78	22.3	0.0	
40	PI2 BPSK	1	214	20.79	20.89	20.78			
40	PI2 BPSK	108	0	20.80	20.90	20.80			
40	PI2 BPSK	108	54	20.78	20.87	20.88	22.3	0.0	
40	PI2 BPSK	108	108	20.83	20.96	20.85			
40	PI2 BPSK	216	0	20.87	20.85	20.86			
40	QPSK	1	1	20.85	20.99	20.93	22.3	0.0	
40	QPSK	1	108	20.85	20.85	20.78			
40	QPSK	1	214	20.93	20.86	20.70			
40	QPSK	108	0	20.89	20.84	20.81	22.3	0.0	
40	QPSK	108	54	20.84	20.98	20.73			
40	QPSK	108	108	20.88	20.95	20.81			
40	QPSK	216	0	20.79	20.86	20.77	22.3	0.0	
40	16QAM	1	1	20.85	20.90	20.85			
40	64QAM	1	1	19.79	19.93	19.80	21.5	0.8	
40	256QAM	1	1	18.00	18.05	18.01	19.5	2.8	
Channel				345000	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	22.3	0.0	
30	QPSK	1	1	20.93	20.89	20.84			
Channel				344000	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	22.3	0.0	
20	QPSK	1	1	20.85	20.89	20.78			
Channel				343500	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	22.3	0.0	
15	QPSK	1	1	20.92	20.87	20.70			
Channel				343000	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	22.3	0.0	
10	QPSK	1	1	20.84	20.84	20.75			
Channel				342500	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	22.3	0.0	
5	QPSK	1	1	20.90	20.85	20.73			



n38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PI2 BPSK	1	1	20.23	20.23	20.20			
40	PI2 BPSK	1	53	20.14	20.22	20.08			
40	PI2 BPSK	1	104	20.14	20.13	20.08	21.6	0.0	
40	PI2 BPSK	50	0	20.03	20.13	19.97	21.6	0.0	
40	PI2 BPSK	50	28	20.04	20.22	20.01	21.6	0.0	
40	PI2 BPSK	50	58	20.07	20.10	20.01	21.6	0.0	
40	PI2 BPSK	100	0	20.14	20.23	20.11			
40	QPSK	1	1	20.30	20.40	20.26			
40	QPSK	1	53	20.15	20.35	20.20	21.6	0.0	
40	QPSK	1	104	20.11	20.21	20.15			
40	QPSK	50	0	20.16	20.27	20.18	21.6	0.0	
40	QPSK	50	28	20.23	20.32	20.21	21.6	0.0	
40	QPSK	50	58	20.13	20.16	20.19			
40	QPSK	100	0	20.14	20.27	20.13			
40	16QAM	1	1	19.98	20.06	20.03	21.6	0.0	
40	64QAM	1	1	20.09	20.14	20.00	21.5	0.1	
40	256QAM	1	1	17.71	17.85	17.69	19.5	2.1	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.94	19.86	19.79	21.6	0.0	
Channel				516504	518000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	19.90	19.84	19.73	21.6	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.94	19.93	19.86	21.6	0.0	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.92	19.91	19.85	21.6	0.0	
Channel				515004	518000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.85	19.87	19.76	24.0	0.0	

n41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	20.30	20.29	20.26			
100	PI2 BPSK	1	137	20.18	20.28	20.22	21.6	0.0	
100	PI2 BPSK	1	271	20.18	20.17	20.21			
100	PI2 BPSK	135	0	20.08	20.24	20.04	21.6	0.0	
100	PI2 BPSK	135	69	20.11	20.26	20.14	21.6	0.0	
100	PI2 BPSK	135	138	20.19	20.15	20.09	21.6	0.0	
100	PI2 BPSK	270	0	20.29	20.27	20.16			
100	QPSK	1	1	20.34	20.44	20.33			
100	QPSK	1	137	20.25	20.40	20.31	21.6	0.0	
100	QPSK	1	271	20.20	20.34	20.28			
100	QPSK	135	0	20.20	20.34	20.23	21.6	0.0	
100	QPSK	135	69	20.37	20.39	20.27	21.6	0.0	
100	QPSK	135	138	20.21	20.29	20.25			
100	QPSK	270	0	20.23	20.35	20.20			
100	16QAM	1	1	20.05	20.17	20.08	21.6	0.0	
100	64QAM	1	1	20.13	20.18	20.12	21.5	0.1	
100	256QAM	1	1	17.85	17.94	17.81	19.5	2.1	
Channel				506200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.25	20.36	20.23	21.6	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	20.20	20.32	20.19	21.6	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.28	20.37	20.22	21.6	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.27	20.41	20.27	21.6	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.27	20.30	20.21	21.6	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.20	20.37	20.27	21.6	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.30	20.35	20.20	21.6	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.27	20.38	20.20	21.6	0.0	

n41 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	23.41	23.43	23.43			
100	PI2 BPSK	1	137	23.28	23.42	23.28	24.6	0.0	
100	PI2 BPSK	1	271	23.30	23.27	23.37			
100	PI2 BPSK	135	0	23.16	23.34	23.25	24.6	0.0	
100	PI2 BPSK	135	69	23.35	23.32	23.24	24.6	0.0	
100	PI2 BPSK	135	138	23.22	23.35	23.24	24.6	0.0	
100	PI2 BPSK	270	0	23.34	23.36	23.29			
100	QPSK	1	1	23.48	23.48	23.41			
100	QPSK	1	137	23.49	23.44	23.36	24.6	0.0	
100	QPSK	1	271	23.32	23.42	23.44			
100	QPSK	135	0	23.34	23.45	23.42	24.6	0.0	
100	QPSK	135	69	23.39	23.50	23.36	24.6	0.0	
100	QPSK	135	138	23.36	23.32	23.33			
100	QPSK	270	0	23.35	23.40	23.38			
100	16QAM	1	1	23.27	23.35	23.30	24.6	0.0	
100	64QAM	1	1	23.38	23.40	23.32	24.5	0.1	
100	256QAM	1	1	21.80	21.88	21.83	22.5	2.1	
Channel				506000	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.41	23.49	23.37	24.6	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	23.40	23.42	23.29	24.6	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.44	23.46	23.28	24.6	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.36	23.39	23.31	24.6	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.35	23.48	23.36	24.6	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.35	23.44	23.28	24.6	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.35	23.45	23.35	24.6	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.41	23.50	23.28	24.6	0.0	

Part270 n77 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	22.1	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.57	20.59	20.60			
100	PI2 BPSK	1	137	20.57	20.59	20.54	22.1	0.0	
100	PI2 BPSK	1	271	20.49	20.52	20.46			
100	PI2 BPSK	135	0	20.37	20.43	20.39			
100	PI2 BPSK	135	69	20.46	20.50	20.44	22.1	0.0	
100	PI2 BPSK	135	138	20.46	20.51	20.42			
100	PI2 BPSK	270	0	20.47	20.61	20.42			
100	QPSK	1	1	20.58	20.68	20.68	22.1	0.0	
100	QPSK	1	137	20.57	20.64	20.62			
100	QPSK	1	271	20.49	20.64	20.56			
100	QPSK	135	0	20.47	20.56	20.43	22.1	0.0	
100	QPSK	135	69	20.55	20.64	20.55			
100	QPSK	135	138	20.40	20.51	20.45			
100	QPSK	270	0	20.43	20.57	20.52	22.1	0.0	
100	16QAM	1	1	20.45	20.50	20.51			
100	64QAM	1	1	20.19	20.23	20.14		21.5	
100	256QAM	1	1	18.22	18.32	18.18	19.5	2.6	
Channel				648955	650000	662324	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.43	20.61	20.59	22.1	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.48	20.56	20.51	22.1	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.52	20.65	20.56	22.1	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.50	20.57	20.56	22.1	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.44	20.60	20.52	22.1	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.52	20.63	20.62	22.1	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	20.54	20.64	20.62	22.1	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.55	20.61	20.57	22.1	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.50	20.53	20.58	22.1	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.48	20.64	20.55	22.1	0.0	

Part270 n77 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	25.1	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.42	23.51	23.50			
100	PI2 BPSK	1	137	23.53	23.50	23.41	25.1	0.0	
100	PI2 BPSK	1	271	23.45	23.45	23.38			
100	PI2 BPSK	135	0	23.24	23.29	23.22			
100	PI2 BPSK	135	69	23.39	23.36	23.29	25.1	0.0	
100	PI2 BPSK	135	138	23.41	23.39	23.28			
100	PI2 BPSK	270	0	23.33	23.58	23.32			
100	QPSK	1	1	23.54	23.63	23.59	25.1	0.0	
100	QPSK	1	137	23.46	23.53	23.54			
100	QPSK	1	271	23.40	23.57	23.51			
100	QPSK	135	0	23.39	23.49	23.31	25.1	0.0	
100	QPSK	135	69	23.42	23.58	23.43			
100	QPSK	135	138	23.40	23.46	23.32			
100	QPSK	270	0	23.23	23.51	23.45	25.1	0.0	
100	16QAM	1	1	23.35	23.39	23.46			
100	64QAM	1	1	23.08	23.14	23.00	24.5	0.6	
100	256QAM	1	1	21.56	21.69	21.62	22.5	2.6	
Channel				648955	650000	662324	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	23.42	23.49	23.45	25.1	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	23.49	23.59	23.51	25.1	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	23.42	23.58	23.52	25.1	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	23.48	23.52	23.49	25.1	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	23.46	23.55	23.47	25.1	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	23.41	23.51	23.46	25.1	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	23.43	23.48	23.49	25.1	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	23.41	23.54	23.53	25.1	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	23.48	23.50	23.45	25.1	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	23.43	23.57	23.48	25.1	0.0	

Part270 n78 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		20.43			22.1	0.0
100	PI2 BPSK	1	137		20.33				
100	PI2 BPSK	1	271		20.34				
100	PI2 BPSK	135	0		20.25				
100	PI2 BPSK	135	69		20.25			22.1	0.0
100	PI2 BPSK	135	138		20.36			22.1	0.0
100	PI2 BPSK	270	0		20.34				
100	QPSK	1	1		20.51			22.1	0.0
100	QPSK	1	137		20.38				
100	QPSK	1	271		20.50				
100	QPSK	135	0		20.33				
100	QPSK	135	69		20.48			22.1	0.0
100	QPSK	135	138		20.25			22.1	0.0
100	QPSK	270	0		20.35				
100	16QAM	1	1		20.35			22.1	0.0
100	64QAM	1	1		20.01			21.5	0.6
100	256QAM	1	1		18.27			19.5	2.6
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		20.16	20.19	20.22	22.1	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		20.23	20.23	20.14	22.1	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		20.25	20.19	20.16	22.1	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3720.01			
60	QPSK	1	1		20.15	20.26	20.18	22.1	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		20.33	20.25	20.14	22.1	0.0
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		20.30	20.20	20.14	22.1	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3735.01			
30	QPSK	1	1		20.25	20.33	20.15	22.1	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		20.21	20.20	20.12	22.1	0.0
Channel				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3722.51			
15	QPSK	1	1		20.20	20.28	20.12	22.1	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		20.29	20.31	20.18	22.1	0.0

Part270 n78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		23.30			25.1	0.0
100	PI2 BPSK	1	137		23.30				
100	PI2 BPSK	1	271		23.31				
100	PI2 BPSK	135	0		23.18				
100	PI2 BPSK	135	69		23.12			25.1	0.0
100	PI2 BPSK	135	138		23.11			25.1	0.0
100	PI2 BPSK	270	0		23.31				
100	QPSK	1	1		23.40			25.1	0.0
100	QPSK	1	137		23.36				
100	QPSK	1	271		23.33				
100	QPSK	135	0		23.30				
100	QPSK	135	69		23.31			25.1	0.0
100	QPSK	135	138		23.22			25.1	0.0
100	QPSK	270	0		23.31				
100	16QAM	1	1		23.11			25.1	0.0
100	64QAM	1	1		22.97			24.5	0.6
100	256QAM	1	1		21.86			22.5	2.6
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		23.22	23.26	23.19	25.1	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		23.19	23.10	23.19	25.1	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		23.15	23.18	23.15	25.1	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3720.01			
60	QPSK	1	1		23.22	23.33	23.21	25.1	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		23.18	23.30	23.15	25.1	0.0
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.13	23.22	23.13	25.1	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3735.01			
30	QPSK	1	1		23.23	23.10	23.17	25.1	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		23.21	23.19	23.14	25.1	0.0
Channel				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3722.51			
15	QPSK	1	1		23.11	23.16	23.16	25.1	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		23.24	23.24	23.19	25.1	0.0

n7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	18.7	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	17.33	17.33	17.24	18.7	0.0	
40	PI2 BPSK	1	108	17.19	17.36	17.21			
40	PI2 BPSK	1	214	17.16	17.23	17.25			
40	PI2 BPSK	108	0	17.01	17.19	17.17			
40	PI2 BPSK	108	54	17.22	17.26	17.19	18.7	0.0	
40	PI2 BPSK	108	108	17.11	17.20	17.15	18.7	0.0	
40	PI2 BPSK	216	0	17.24	17.28	17.15	18.7	0.0	
40	QPSK	1	1	17.40	17.42	17.36			
40	QPSK	1	108	17.30	17.37	17.34			
40	QPSK	1	214	17.26	17.31	17.30			
40	QPSK	108	0	17.21	17.23	17.19	18.7	0.0	
40	QPSK	108	54	17.35	17.38	17.21	18.7	0.0	
40	QPSK	108	108	17.04	17.17	17.11	18.7	0.0	
40	QPSK	216	0	17.12	17.24	17.19	18.7	0.0	
40	16QAM	1	1	17.16	17.31	17.09			
40	64QAM	1	1	17.08	17.18	17.20			
40	256QAM	1	1	17.09	17.28	17.12			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	18.7	0.0	
30	QPSK	1	1	17.30	17.32	17.25	18.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	18.7	0.0	
25	QPSK	1	1	17.27	17.28	17.23	18.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	18.7	0.0	
20	PI2 BPSK	1	1	17.32	17.37	17.27	18.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	18.7	0.0	
15	QPSK	1	1	17.33	17.35	17.25	18.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	18.7	0.0	
10	QPSK	1	1	17.30	17.34	17.24	18.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	18.7	0.0	
5	QPSK	1	1	17.25	17.29	17.23	18.7	0.0	

n66 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	24.0	0.0	
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	23.43	23.51	23.47	24.0	0.0	
40	PI2 BPSK	1	108	23.36	23.47	23.38			
40	PI2 BPSK	1	214	23.38	23.44	23.40			
40	PI2 BPSK	108	0	22.89	23.04	23.00			
40	PI2 BPSK	108	54	23.44	23.48	23.43	24.0	0.5	
40	PI2 BPSK	108	108	23.02	23.06	23.02	23.5	0.5	
40	PI2 BPSK	216	0	23.01	23.13	23.02	24.0	0.0	
40	QPSK	1	1	23.49	23.56	23.51			
40	QPSK	1	108	23.38	23.52	23.39			
40	QPSK	1	214	23.33	23.48	23.36			
40	QPSK	108	0	22.44	22.54	22.50	23.0	1.0	
40	QPSK	108	54	23.39	23.50	23.40	24.0	0.0	
40	QPSK	108	108	22.34	22.47	22.41	23.0	1.0	
40	QPSK	216	0	22.42	22.51	22.43	23.0	1.0	
40	16QAM	1	1	22.49	22.58	22.47			
40	64QAM	1	1	20.82	20.95	20.90			
40	256QAM	1	1	18.96	18.99	18.93			
40	256QAM	1	1	18.96	18.99	18.93	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.40	23.52	23.39	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.44	23.51	23.48	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5 <td>24.0</td> <td colspan="2">0.0</td>	24.0	0.0	
15	QPSK	1	1	23.42	23.47	23.41	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775 <td>24.0</td> <td colspan="2">0.0</td>	24.0	0.0	
10	QPSK	1	1	23.38	23.52	23.45	24.0	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5 <td>24.0</td> <td colspan="2">0.0</td>	24.0	0.0	
5	QPSK	1	1	23.40	23.45	23.39	24.0	0.0	



n38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	16.25	16.39	16.24			
40	PQ2 BPSK	1	53	16.42	16.34	16.36	17.8	0.0	
40	PQ2 BPSK	1	104	16.34	16.30	16.19			
40	PQ2 BPSK	50	0	16.31	16.33	16.05	17.8	0.0	
40	PQ2 BPSK	50	28	16.30	16.33	16.15	17.8	0.0	
40	PQ2 BPSK	50	56	16.13	16.32	15.99	17.8	0.0	
40	PQ2 BPSK	100	0	16.28	16.33	16.29			
40	QPSK	1	1	16.42	16.46	16.29			
40	QPSK	1	53	16.42	16.41	16.19	17.8	0.0	
40	QPSK	1	104	16.35	16.39	16.42			
40	QPSK	50	0	16.21	16.42	16.20	17.8	0.0	
40	QPSK	50	28	16.38	16.44	16.35	17.8	0.0	
40	QPSK	50	56	16.19	16.29	16.32	17.8	0.0	
40	QPSK	100	0	16.12	16.30	16.18			
40	16QAM	1	1	16.25	16.30	16.24	17.8	0.0	
40	64QAM	1	1	16.22	16.34	16.23	17.8	0.0	
40	256QAM	1	1	16.11	16.15	16.06	17.8	0.0	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	16.17	16.22	16.12	17.8	0.0	
Channel				516504	518000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.02	2595	2607.98			
25	QPSK	1	1	16.13	16.20	16.17	17.8	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.18	16.18	16.17	17.8	0.0	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	16.14	16.24	16.14	17.8	0.0	
Channel				515004	518000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	16.11	16.27	16.07	24.5	0.0	

n41 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520900			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	16.35	16.45	16.33			
100	PQ2 BPSK	1	137	16.51	16.41	16.45	17.8	0.0	
100	PQ2 BPSK	1	271	16.44	16.43	16.23			
100	PQ2 BPSK	135	0	16.38	16.44	16.15	17.8	0.0	
100	PQ2 BPSK	135	69	16.37	16.41	16.30	17.8	0.0	
100	PQ2 BPSK	135	138	16.25	16.40	16.12	17.8	0.0	
100	PQ2 BPSK	270	0	16.35	16.45	16.33			
100	QPSK	1	1	16.53	16.54	16.39			
100	QPSK	1	137	16.45	16.49	16.33	17.8	0.0	
100	QPSK	1	271	16.43	16.46	16.51			
100	QPSK	135	0	16.35	16.46	16.24	17.8	0.0	
100	QPSK	135	69	16.42	16.49	16.44	17.8	0.0	
100	QPSK	135	138	16.23	16.32	16.36	17.8	0.0	
100	QPSK	270	0	16.25	16.40	16.31			
100	16QAM	1	1	16.29	16.38	16.31	17.8	0.0	
100	64QAM	1	1	16.32	16.43	16.37	17.8	0.0	
100	256QAM	1	1	16.18	16.21	16.18	17.8	0.0	
Channel				508200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.47	16.39	16.34	17.8	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	16.49	16.48	16.24	17.8	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	16.40	16.50	16.35	17.8	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	16.46	16.48	16.35	17.8	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	16.47	16.43	16.25	17.8	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.39	16.47	16.27	17.8	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	16.45	16.46	16.20	17.8	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	16.42	16.41	16.33	17.8	0.0	

n41 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520900			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	19.62	19.74	19.68			
100	PQ2 BPSK	1	137	19.77	19.72	19.77	20.8	0.0	
100	PQ2 BPSK	1	271	19.85	19.70	19.50			
100	PQ2 BPSK	135	0	19.73	19.75	19.45	20.8	0.0	
100	PQ2 BPSK	135	69	19.73	19.78	19.64	20.8	0.0	
100	PQ2 BPSK	135	138	19.53	19.73	19.42	20.8	0.0	
100	PQ2 BPSK	270	0	19.69	19.71	19.62			
100	QPSK	1	1	19.76	19.86	19.74			
100	QPSK	1	137	19.74	19.75	19.65	20.8	0.0	
100	QPSK	1	271	19.71	19.82	19.76			
100	QPSK	135	0	19.63	19.75	19.53	20.8	0.0	
100	QPSK	135	69	19.78	19.83	19.70	20.8	0.0	
100	QPSK	135	138	19.52	19.61	19.73	20.8	0.0	
100	QPSK	270	0	19.57	19.77	19.59			
100	16QAM	1	1	19.55	19.73	19.67	20.8	0.0	
100	64QAM	1	1	19.62	19.78	19.68	20.8	0.0	
100	256QAM	1	1	19.45	19.55	19.44	20.8	0.0	
Channel				508200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.72	19.83	19.69	20.8	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	19.71	19.80	19.61	20.8	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.75	19.79	19.62	20.8	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.68	19.74	19.68	20.8	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.66	19.80	19.71	20.8	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.72	19.84	19.60	20.8	0.0	

Part270 n77 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	660000	18.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	16.54	16.63	16.53	18.0	0.0	
100	PI2 BPSK	1	137	16.45	16.51	16.40			
100	PI2 BPSK	1	271	16.31	16.46	16.34			
100	PI2 BPSK	135	0	16.27	16.32	16.26	18.0	0.0	
100	PI2 BPSK	135	69	16.31	16.47	16.32	18.0	0.0	
100	PI2 BPSK	135	138	16.43	16.43	16.22	18.0	0.0	
100	PI2 BPSK	270	0	16.45	16.45	16.45	18.0	0.0	
100	QPSK	1	1	16.58	16.68	16.51			
100	QPSK	1	137	16.48	16.59	16.50			
100	QPSK	1	271	16.34	16.50	16.48	18.0	0.0	
100	QPSK	135	0	16.36	16.43	16.43			
100	QPSK	135	69	16.49	16.55	16.42			
100	QPSK	135	138	16.31	16.38	16.26	18.0	0.0	
100	QPSK	270	0	16.30	16.40	16.39	18.0	0.0	
100	16QAM	1	1	16.41	16.47	16.37			
100	16QAM	1	1	16.36	16.44	16.52			
100	256QAM	1	1	16.39	16.41	16.32	18.0	0.0	
Channel				646958	650000	662324	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	16.45	16.57	16.41	18.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	16.45	16.62	16.37	18.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	16.52	16.61	16.37	18.0	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	16.54	16.55	16.43	18.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	16.45	16.57	16.39	18.0	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	16.52	16.59	16.39	18.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	16.54	16.54	16.42	18.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	16.45	16.52	16.42	18.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	16.45	16.60	16.43	18.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	16.54	16.52	16.46	18.0	0.0	

Part270 n77 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	660000	21.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	19.54	19.60	19.50	21.0	0.0	
100	PI2 BPSK	1	137	19.40	19.49	19.39			
100	PI2 BPSK	1	271	19.45	19.48	19.31			
100	PI2 BPSK	135	0	19.32	19.35	19.29	21.0	0.0	
100	PI2 BPSK	135	69	19.42	19.46	19.34	21.0	0.0	
100	PI2 BPSK	135	138	19.34	19.30	19.26	21.0	0.0	
100	PI2 BPSK	270	0	19.43	19.47	19.33	21.0	0.0	
100	QPSK	1	1	19.57	19.61	19.52			
100	QPSK	1	137	19.45	19.60	19.50			
100	QPSK	1	271	19.42	19.52	19.48	21.0	0.0	
100	QPSK	135	0	19.42	19.45	19.40			
100	QPSK	135	69	19.55	19.57	19.43			
100	QPSK	135	138	19.32	19.36	19.30	21.0	0.0	
100	QPSK	270	0	19.36	19.42	19.33	21.0	0.0	
100	16QAM	1	1	19.37	19.45	19.38			
100	16QAM	1	1	19.32	19.52	19.43			
100	256QAM	1	1	19.29	19.38	19.26	21.0	0.0	
Channel				646958	650000	662324	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	19.47	19.49	19.40	21.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	19.49	19.57	19.49	21.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	19.46	19.47	19.46	21.0	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	19.45	19.51	19.41	21.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	19.54	19.53	19.39	21.0	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	19.51	19.50	19.37	21.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	19.53	19.52	19.39	21.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	19.43	19.49	19.47	21.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	19.46	19.48	19.42	21.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	19.45	19.58	19.42	21.0	0.0	

Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.50		18.0	0.0	
100	PI2 BPSK	1	137		18.33				
100	PI2 BPSK	1	271		18.48				
100	PI2 BPSK	135	0		18.32		18.0	0.0	
100	PI2 BPSK	135	69		18.35		18.0	0.0	
100	PI2 BPSK	135	138		18.24		18.0	0.0	
100	PI2 BPSK	270	0		18.41		18.0	0.0	
100	QPSK	1	1		18.55				
100	QPSK	1	137		18.44				
100	QPSK	1	271		18.39		18.0	0.0	
100	QPSK	135	0		18.46				
100	QPSK	135	69		18.39				
100	QPSK	135	138		18.21		18.0	0.0	
100	QPSK	270	0		18.33		18.0	0.0	
100	16QAM	1	1		18.41		18.0	0.0	
100	64QAM	1	1		18.39		18.0	0.0	
100	256QAM	1	1		18.47		18.0	0.0	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	18.27	18.48	18.30	18.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	18.39	18.40	18.23	18.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	18.44	18.45	18.22	18.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	18.31	18.40	18.38	18.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	18.28	18.41	18.22	18.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	18.44	18.48	18.38	18.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	18.42	18.53	18.30	18.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	18.40	18.50	18.36	18.0	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	18.42	18.52	18.39	18.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	18.27	18.49	18.28	18.0	0.0	

Part270 n78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.55		21.0	0.0	
100	PI2 BPSK	1	137		18.41				
100	PI2 BPSK	1	271		18.32				
100	PI2 BPSK	135	0		18.23		21.0	0.0	
100	PI2 BPSK	135	69		18.37		21.0	0.0	
100	PI2 BPSK	135	138		18.19		21.0	0.0	
100	PI2 BPSK	270	0		18.37		21.0	0.0	
100	QPSK	1	1		18.60				
100	QPSK	1	137		18.47				
100	QPSK	1	271		18.49		21.0	0.0	
100	QPSK	135	0		18.34				
100	QPSK	135	69		18.53				
100	QPSK	135	138		18.19		21.0	0.0	
100	QPSK	270	0		18.32		21.0	0.0	
100	16QAM	1	1		18.33		21.0	0.0	
100	64QAM	1	1		18.42		21.0	0.0	
100	256QAM	1	1		18.34		21.0	0.0	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	18.47	18.47	18.29	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	18.44	18.58	18.33	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	18.43	18.44	18.40	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	18.49	18.56	18.28	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	18.44	18.50	18.36	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	18.49	18.53	18.28	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	18.40	18.57	18.27	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	18.46	18.54	18.28	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	18.49	18.58	18.25	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	18.53	18.51	18.33	21.0	0.0	

n7 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	23.8	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	22.73	22.77	22.70	23.8	0.0	
40	PI2 BPSK	1	108	22.62	22.71	22.64			
40	PI2 BPSK	1	214	22.54	22.59	22.55			
40	PI2 BPSK	108	0	22.44	22.63	22.47			
40	PI2 BPSK	108	54	22.60	22.66	22.54	23.8	0.0	
40	PI2 BPSK	108	108	22.55	22.57	22.47	23.8	0.0	
40	PI2 BPSK	216	0	22.66	22.73	22.60	23.8	0.0	
40	QPSK	1	1	22.69	22.83	22.76			
40	QPSK	1	108	22.61	22.78	22.67			
40	QPSK	1	214	22.57	22.69	22.69			
40	QPSK	108	0	21.89	21.99	21.87	23.0	0.8	
40	QPSK	108	54	22.62	22.75	22.61	23.8	0.0	
40	QPSK	108	108	21.79	21.89	21.85	23.0	0.8	
40	QPSK	216	0	21.84	21.99	21.88	23.0	0.8	
40	16QAM	1	1	21.79	21.91	21.81			
40	64QAM	1	1	21.42	21.45	21.35			
40	256QAM	1	1	19.38	19.32	19.48	19.5	4.3	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	23.8	0.0	
30	QPSK	1	1	22.63	22.79	22.71	23.8	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	23.8	0.0	
25	QPSK	1	1	22.57	22.75	22.63	23.8	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	23.8	0.0	
20	PI2 BPSK	1	1	22.60	22.76	22.68	23.8	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	23.8	0.0	
15	QPSK	1	1	22.62	22.69	22.68	23.8	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	23.8	0.0	
10	QPSK	1	1	22.65	22.79	22.73	23.8	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	23.8	0.0	
5	QPSK	1	1	22.54	22.73	22.68	23.8	0.0	

n66 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				348000	349000	350000	20.9	0.0	
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	19.69	19.88	19.99	20.9	0.0	
40	PI2 BPSK	1	108	19.87	19.94	19.76			
40	PI2 BPSK	1	214	19.99	19.91	19.89			
40	PI2 BPSK	108	0	19.70	20.00	19.88			
40	PI2 BPSK	108	54	19.82	20.02	19.91	20.9	0.0	
40	PI2 BPSK	108	108	19.82	19.89	19.78	20.9	0.0	
40	PI2 BPSK	216	0	19.84	19.82	19.89	20.9	0.0	
40	QPSK	1	1	19.84	20.04	20.01			
40	QPSK	1	108	19.94	20.01	19.89			
40	QPSK	1	214	19.92	19.98	19.98			
40	QPSK	108	0	19.73	19.91	19.85	20.9	0.0	
40	QPSK	108	54	19.84	19.96	19.75	20.9	0.0	
40	QPSK	108	108	19.93	19.82	19.94	20.9	0.0	
40	QPSK	216	0	19.79	19.89	19.88	20.9	0.0	
40	16QAM	1	1	19.88	19.88	19.74			
40	64QAM	1	1	19.88	19.87	19.87			
40	256QAM	1	1	19.37	19.40	19.32	19.5	1.4	
Channel				347500	349000	353000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1725	1745	1765 <td>20.9</td> <td colspan="2">0.0</td>	20.9	0.0	
30	QPSK	1	1	19.84	19.90	19.90	20.9	0.0	
Channel				346000	349000	354000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1720	1745	1770 <td>20.9</td> <td colspan="2">0.0</td>	20.9	0.0	
20	QPSK	1	1	19.86	19.95	19.89	20.9	0.0	
Channel				343500	349000	354500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1717.5	1745	1772.5 <td>20.9</td> <td colspan="2">0.0</td>	20.9	0.0	
15	QPSK	1	1	19.83	19.95	19.91	20.9	0.0	
Channel				343000	349000	355000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1715	1745	1775 <td>20.9</td> <td colspan="2">0.0</td>	20.9	0.0	
10	QPSK	1	1	19.80	19.95	19.93	20.9	0.0	
Channel				342500	349000	356000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1712.5	1745	1777.5 <td>20.9</td> <td colspan="2">0.0</td>	20.9	0.0	
5	QPSK	1	1	19.79	19.90	19.91	20.9	0.0	



n38 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518504	519000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PI2 BPSK	1	1	21.25	21.33	21.11			
40	PI2 BPSK	1	53	21.17	21.37	21.14		0.0	
40	PI2 BPSK	1	104	20.99	21.26	20.99			
40	PI2 BPSK	50	0	20.99	21.06	21.02	22.2	0.0	
40	PI2 BPSK	50	28	21.21	21.12	21.05	22.2	0.0	
40	PI2 BPSK	50	58	21.13	21.08	21.04	22.2	0.0	
40	PI2 BPSK	100	0	21.29	21.34	21.08			
40	QPSK	1	1	21.29	21.48	21.34			
40	QPSK	1	53	21.14	21.25	21.07	22.2	0.0	
40	QPSK	1	104	21.19	21.37	21.17			
40	QPSK	50	0	21.13	21.15	21.06	22.2	0.0	
40	QPSK	50	28	21.09	21.29	21.11	22.2	0.0	
40	QPSK	50	58	20.92	21.01	21.02			
40	QPSK	100	0	21.07	21.12	21.08			
40	16QAM	1	1	21.14	21.08	21.13	22.2	0.0	
40	64QAM	1	1	21.17	21.18	21.10	22.0	0.2	
40	256QAM	1	1	19.28	19.40	19.32	20.0	2.2	
Channel				517052	518000	520598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	21.08	21.17	21.12	22.2	0.0	
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	21.09	21.11	21.14	22.2	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.13	21.12	21.11	22.2	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.04	21.11	21.18	22.2	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.12	21.14	21.13	24.5	0.0	

n41 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	21.32	21.45	21.25			
100	PI2 BPSK	1	137	21.27	21.41	21.29	22.2	0.0	
100	PI2 BPSK	1	271	21.13	21.29	21.09			
100	PI2 BPSK	135	0	21.11	21.13	21.11	22.2	0.0	
100	PI2 BPSK	135	69	21.27	21.24	21.18	22.2	0.0	
100	PI2 BPSK	135	138	21.17	21.19	21.15	22.2	0.0	
100	PI2 BPSK	270	0	21.34	21.34	21.17			
100	QPSK	1	1	21.41	21.52	21.48			
100	QPSK	1	137	21.20	21.37	21.20	22.2	0.0	
100	QPSK	1	271	21.25	21.40	21.28			
100	QPSK	135	0	21.19	21.20	21.19	22.2	0.0	
100	QPSK	135	69	21.24	21.34	21.25	22.2	0.0	
100	QPSK	135	138	21.05	21.14	21.10	22.2	0.0	
100	QPSK	270	0	21.18	21.22	21.17			
100	16QAM	1	1	21.19	21.18	21.20	22.2	0.0	
100	64QAM	1	1	21.28	21.29	21.20	22.0	0.2	
100	256QAM	1	1	18.95	19.09	18.95	20.0	2.2	
Channel				508200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.31	21.38	21.34	22.2	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	21.31	21.48	21.29	22.2	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.34	21.40	21.34	22.2	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	21.34	21.48	21.40	22.2	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.28	21.41	21.43	22.2	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.37	21.43	21.32	22.2	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.28	21.48	21.30	22.2	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.32	21.44	21.40	22.2	0.0	

n41 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	23.72	23.85	23.66			
100	PI2 BPSK	1	137	23.71	23.77	23.72	25.2	0.0	
100	PI2 BPSK	1	271	23.52	23.68	23.55			
100	PI2 BPSK	135	0	23.55	23.49	23.48	25.2	0.0	
100	PI2 BPSK	135	69	23.63	23.68	23.54	25.2	0.0	
100	PI2 BPSK	135	138	23.59	23.61	23.58	25.2	0.0	
100	PI2 BPSK	270	0	23.79	23.78	23.53			
100	QPSK	1	1	23.83	23.95	23.89			
100	QPSK	1	137	23.81	23.75	23.85	25.2	0.0	
100	QPSK	1	271	23.86	23.78	23.71			
100	QPSK	135	0	23.82	23.56	23.60	25.2	0.0	
100	QPSK	135	69	23.88	23.79	23.88	25.2	0.0	
100	QPSK	135	138	23.49	23.57	23.47	25.2	0.0	
100	QPSK	270	0	23.53	23.61	23.55			
100	16QAM	1	1	23.56	23.56	23.59	25.2	0.0	
100	64QAM	1	1	23.66	23.70	23.64	25.0	0.2	
100	256QAM	1	1	22.21	22.32	22.18	23.0	2.2	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.78	23.84	23.83	25.2	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	23.70	23.87	23.71	25.2	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.79	23.92	23.74	25.2	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	23.71	23.90	23.81	25.2	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.70	23.82	23.79	25.2	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.74	23.89	23.75	25.2	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.78	23.81	23.83	25.2	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.72	23.85	23.84	25.2	0.0	

Part270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.53	15.53	15.51	16.5	0.0	
100	PI2 BPSK	1	137	15.50	15.45	15.40			
100	PI2 BPSK	1	271	15.37	15.45	15.33			
100	PI2 BPSK	135	0	15.21	15.32	15.33	16.5	0.0	
100	PI2 BPSK	135	69	15.35	15.39	15.32	16.5	0.0	
100	PI2 BPSK	135	138	15.39	15.37	15.31	16.5	0.0	
100	PI2 BPSK	270	0	15.43	15.59	15.38	16.5	0.0	
100	QPSK	1	1	15.56	15.63	15.63			
100	QPSK	1	137	15.48	15.59	15.47			
100	QPSK	1	271	15.36	15.58	15.44	16.5	0.0	
100	QPSK	135	0	15.49	15.51	15.38			
100	QPSK	135	69	15.42	15.53	15.47			
100	QPSK	135	138	15.34	15.48	15.38	16.5	0.0	
100	QPSK	270	0	15.45	15.50	15.40	16.5	0.0	
100	16QAM	1	1	15.32	15.39	15.44	16.5	0.0	
100	64QAM	1	1	15.36	15.46	15.34	16.5	0.0	
100	256QAM	1	1	15.33	15.38	15.30	16.5	0.0	
Channel				648955	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.46	15.49	15.44	16.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.53	15.54	15.49	16.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.45	15.48	15.38	16.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.51	15.58	15.42	16.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.47	15.55	15.39	16.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.53	15.53	15.45	16.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	15.52	15.57	15.49	16.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.50	15.59	15.48	16.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.51	15.53	15.40	16.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.45	15.54	15.48	16.5	0.0	

Part270 n77 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	660000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.09	18.62	18.57	19.5	0.0	
100	PI2 BPSK	1	137	18.05	18.57	18.56			
100	PI2 BPSK	1	271	18.43	18.63	18.39			
100	PI2 BPSK	135	0	18.37	18.40	18.45	19.5	0.0	
100	PI2 BPSK	135	69	18.45	18.55	18.43	19.5	0.0	
100	PI2 BPSK	135	138	18.43	18.60	18.37	19.5	0.0	
100	PI2 BPSK	270	0	18.55	18.82	18.48	19.5	0.0	
100	QPSK	1	1	18.74	18.90	18.63			
100	QPSK	1	137	18.05	18.68	18.57			
100	QPSK	1	271	18.49	18.67	18.58	19.5	0.0	
100	QPSK	135	0	18.51	18.67	18.56			
100	QPSK	135	69	18.05	18.74	18.50			
100	QPSK	135	138	18.42	18.60	18.50	19.5	0.0	
100	QPSK	270	0	18.52	18.67	18.42	19.5	0.0	
100	16QAM	1	1	18.35	18.55	18.41	19.5	0.0	
100	64QAM	1	1	18.56	18.73	18.57	19.5	0.0	
100	256QAM	1	1	18.55	18.61	18.41	19.5	0.0	
Channel				649655	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3744.92	3840	3935.01			
90	QPSK	1	1	18.05	18.72	18.52	19.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.59	18.67	18.50	19.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.03	18.71	18.50	19.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.02	18.69	18.58	19.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.71	18.75	18.52	19.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.07	18.66	18.54	19.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	18.65	18.73	18.49	19.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.70	18.68	18.52	19.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.02	18.75	18.58	19.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.59	18.70	18.57	19.5	0.0	



Part270 n78 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		15.25		16.5	0.0	
100	PI2 BPSK	1	137		15.09				
100	PI2 BPSK	1	271		15.20				
100	PI2 BPSK	135	0		15.05				
100	PI2 BPSK	135	69		15.05		16.5	0.0	
100	PI2 BPSK	135	138		15.15		16.5	0.0	
100	PI2 BPSK	270	0		15.33				
100	QPSK	1	1		15.31				
100	QPSK	1	137		15.35				
100	QPSK	1	271		15.27		16.5	0.0	
100	QPSK	135	0		15.15				
100	QPSK	135	69		15.22				
100	QPSK	135	138		15.10				
100	QPSK	270	0		15.12		16.5	0.0	
100	16QAM	1	1		15.17		16.5	0.0	
100	64QAM	1	1		15.16				
100	256QAM	1	1		15.14				
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	14.70	14.93	14.59	16.5	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	14.73	14.92	14.40	16.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	14.66	14.93	14.57	16.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	14.70	14.98	14.52	16.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	14.68	14.95	14.55	16.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	14.70	15.02	14.64	16.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	14.70	14.92	14.55	16.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	14.71	15.05	14.56	16.5	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	14.79	15.04	14.51	16.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	14.74	15.08	14.56	16.5	0.0	

Part270 n78 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.64		19.5	0.0	
100	PI2 BPSK	1	137		18.66				
100	PI2 BPSK	1	271		18.64				
100	PI2 BPSK	135	0		18.40				
100	PI2 BPSK	135	69		18.63		19.5	0.0	
100	PI2 BPSK	135	138		18.73		19.5	0.0	
100	PI2 BPSK	270	0		18.57				
100	QPSK	1	1		18.77				
100	QPSK	1	137		18.69				
100	QPSK	1	271		18.60		19.5	0.0	
100	QPSK	135	0		18.72				
100	QPSK	135	69		18.73				
100	QPSK	135	138		18.62				
100	QPSK	270	0		18.57		19.5	0.0	
100	16QAM	1	1		18.46		19.5	0.0	
100	64QAM	1	1		18.46				
100	256QAM	1	1		18.39				
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dbm)	(db)	
90	QPSK	1	1	18.20	18.19	18.15	19.5	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dbm)	(db)	
80	QPSK	1	1	18.16	18.21	18.17	19.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765 <th>(dbm)</th> <th colspan="2">(db)</th>	(dbm)	(db)	
70	QPSK	1	1	18.30	18.19	18.19	19.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dbm)	(db)	
60	QPSK	1	1	18.29	18.15	18.05	19.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dbm)	(db)	
50	QPSK	1	1	18.27	18.26	18.17	19.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dbm)	(db)	
40	QPSK	1	1	18.30	18.15	18.19	19.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dbm)	(db)	
30	QPSK	1	1	18.18	18.28	18.09	19.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01 <th>3750</th> <th>3790.02</th> <th>(dbm)</th> <th colspan="2">(db)</th>	3750	3790.02	(dbm)	(db)	
20	QPSK	1	1	18.32	18.27	18.05	19.5	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.53	3750	3792.51	(dbm)	(db)	
15	QPSK	1	1	18.25	18.20	18.17	19.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dbm)	(db)	
10	QPSK	1	1	18.23	18.15	18.12	19.5	0.0	



n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				834	836.5	839	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.18	23.23	23.13		
20	PI2 BPSK	1	53	23.04	23.14	23.06		
20	PI2 BPSK	1	104	22.98	23.06	22.94	23.5	0.5
20	PI2 BPSK	50	0	22.65	22.76	22.73		
20	PI2 BPSK	50	28	23.08	23.18	23.11		
20	PI2 BPSK	50	56	22.59	22.64	22.51		
20	PI2 BPSK	100	0	22.66	22.70	22.63	24.0	0.0
20	QPSK	1	1	23.23	23.27	23.16		
20	QPSK	1	53	23.11	23.18	23.13		
20	QPSK	1	104	22.96	23.06	22.98		
20	QPSK	50	0	22.14	22.28	22.21	23.0	1.0
20	QPSK	50	28	23.15	23.21	23.08		
20	QPSK	50	56	22.14	22.18	22.08		
20	QPSK	100	0	22.17	22.23	22.13		
20	16QAM	1	1	22.35	22.48	22.42	23.0	1.0
20	16QAM	1	1	20.73	20.86	20.79		
20	256QAM	1	1	18.89	19.01	18.96		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.11	23.18	23.08	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				165800	167300	168800		
10	QPSK	1	1	23.13	23.15	23.02		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.17	23.23	23.04	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				165300	167300	169300		
Channel				165300	167300	169300		

n7 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000	23.0	0.0
Frequency (MHz)				504000	507000	510000		
40	PI2 BPSK	1	1	21.80	21.91	21.85		
40	PI2 BPSK	1	108	21.74	21.88	21.81		
40	PI2 BPSK	1	214	21.74	21.80	21.68	22.5	0.5
40	PI2 BPSK	108	0	21.38	21.44	21.37		
40	PI2 BPSK	108	54	21.79	21.87	21.75		
40	PI2 BPSK	108	108	21.36	21.49	21.37		
40	PI2 BPSK	216	0	21.39	21.42	21.34	23.0	0.0
40	QPSK	1	1	21.92	21.96	21.89		
40	QPSK	1	108	21.78	21.92	21.82		
40	QPSK	1	214	21.74	21.86	21.80		
40	QPSK	108	0	20.87	20.97	20.87	22.0	1.0
40	QPSK	108	54	21.86	21.90	21.85		
40	QPSK	108	108	20.80	20.89	20.80		
40	QPSK	216	0	20.81	20.94	20.84		
40	16QAM	1	1	20.73	20.86	20.77	22.0	1.0
40	16QAM	1	1	19.27	19.41	19.38		
40	256QAM	1	1	17.30	17.38	17.23		
Channel				508000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				508000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.77	21.88	21.80	23.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				502500	507000	511500		
25	QPSK	1	1	21.81	21.83	21.75		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	21.88	21.92	21.79	23.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				501500	507000	512500		
15	QPSK	1	1	21.80	21.90	21.75		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.88	21.84	21.78	23.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				500500	507000	513500		
Channel				500500	507000	513500		
5	QPSK	1	1	21.83	21.88	21.70	23.0	0.0
Channel				500000	507000	514000		
Frequency (MHz)				500000	507000	514000		
Channel				500000	507000	514000		

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	23.0	0.0
Frequency (MHz)				346000	349000	352000		
40	PI2 BPSK	1	1	22.14	22.27	22.17		
40	PI2 BPSK	1	108	22.07	22.22	22.11		
40	PI2 BPSK	1	214	22.08	22.16	22.12	22.5	0.5
40	PI2 BPSK	108	0	21.68	21.86	21.82		
40	PI2 BPSK	108	54	22.02	22.20	22.13		
40	PI2 BPSK	108	108	21.69	21.81	21.78		
40	PI2 BPSK	216	0	21.74	21.94	21.85	23.0	0.0
40	QPSK	1	1	22.23	22.35	22.31		
40	QPSK	1	108	22.04	22.26	22.14		
40	QPSK	1	214	22.02	22.21	22.07		
40	QPSK	108	0	21.13	21.36	21.24	22.0	1.0
40	QPSK	108	54	22.15	22.29	22.24		
40	QPSK	108	108	21.24	21.48	21.35		
40	QPSK	216	0	21.26	21.43	21.26		
40	16QAM	1	1	20.86	21.11	21.01	22.0	1.0
40	16QAM	1	1	19.87	19.93	19.81		
40	256QAM	1	1	17.59	17.85	17.73		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.11	22.27	22.20	23.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				344000	349000	354000		
20	QPSK	1	1	22.16	22.31	22.24		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.16	22.28	22.24	23.0	0.0
Channel				342000	349000	356000		
Frequency (MHz)				342000	349000	356000		
10	QPSK	1	1	22.19	22.22	22.17		
Channel				341000	349000	357000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				341000	349000	357000	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.16	22.29	22.21	23.0	0.0
Channel				340000	349000	358000		
Frequency (MHz)				340000	349000	358000		
Channel				340000	349000	358000		



n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	21.54	21.76	21.72	23.0	0.0	
40	PV2 BPSK	1	53	21.64	21.72	21.66			
40	PV2 BPSK	1	104	21.44	21.61	21.52			
40	PV2 BPSK	50	0	20.90	21.01	20.98			
40	PV2 BPSK	50	28	21.50	21.75	21.50	22.5	0.0	
40	PV2 BPSK	50	56	20.91	21.03	21.00	22.5	0.5	
40	PV2 BPSK	100	0	20.90	21.02	21.01			
40	QPSK	1	1	21.79	21.83	21.82			
40	QPSK	1	53	21.55	21.71	21.61			
40	QPSK	1	104	21.45	21.76	21.62	23.0	1.0	
40	QPSK	50	0	20.51	20.73	20.55			
40	QPSK	50	28	21.62	21.76	21.68			
40	QPSK	50	56	20.48	20.62	20.54			
40	QPSK	100	0	20.57	20.66	20.58	22.0	1.0	
40	16QAM	1	1	20.46	20.65	20.53			
40	64QAM	1	1	19.09	19.28	19.14			
40	256QAM	1	1	17.21	17.44	17.34			
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	21.74	21.76	21.75	23.0	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.35	2595	2607.48			
25	QPSK	1	1	21.70	21.69	21.69	23.0	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.65	21.70	21.70	23.0	0.0	
Channel				515000	519000	522496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.71	21.73	21.72	23.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2625.10	2595	2614.98			
10	QPSK	1	1	21.65	21.69	21.67	23.0	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509020	518698	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.70	21.82	21.78	23.0	0.0	
100	PQ2 BPSK	1	137	21.72	21.77	21.68			
100	PQ2 BPSK	1	271	21.60	21.71	21.57			
100	PQ2 BPSK	135	0	20.06	20.17	20.08			
100	PQ2 BPSK	135	69	21.67	21.74	21.62	23.0	0.5	
100	PQ2 BPSK	135	138	20.26	20.38	20.25	22.5	0.5	
100	PQ2 BPSK	270	0	20.12	20.24	20.17			
100	QPSK	1	1	21.74	21.86	21.81			
100	QPSK	1	137	21.71	21.80	21.73			
100	QPSK	1	271	21.67	21.73	21.70	22.0	0.0	
100	QPSK	135	0	20.41	20.47	20.40			
100	QPSK	135	69	21.69	21.76	21.75			
100	QPSK	135	138	20.41	20.50	20.41			
100	QPSK	270	0	20.45	20.55	20.47	22.0	1.0	
100	16QAM	1	1	20.48	20.54	20.49			
100	64QAM	1	1	18.91	18.97	18.92			
100	256QAM	1	1	17.61	18.68	18.68			
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	21.61	21.69	21.59	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	21.59	21.68	21.70	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2645			
70	QPSK	1	1	21.68	21.73	21.60	23.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.62	21.65	21.68	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	21.61	21.67	21.62	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.65	21.73	21.65	23.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.58	21.66	21.61	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.57	21.65	21.68	23.0	0.0	

n41 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	24.81	24.88	24.78	26.0	0.0	
100	PV2 BPSK	1	137	24.72	24.81	24.76			
100	PV2 BPSK	1	271	24.71	24.75	24.64			
100	PV2 BPSK	135	0	24.37	24.43	24.39			
100	PV2 BPSK	135	69	24.73	24.80	24.72	26.0	0.5	
100	PV2 BPSK	135	138	24.43	24.43	24.38	25.5	0.5	
100	PV2 BPSK	270	0	24.45	24.51	24.38			
100	QPSK	1	1	24.84	24.92	24.89			
100	QPSK	1	137	24.72	24.85	24.82			
100	QPSK	1	271	24.67	24.79	24.66	26.0	1.0	
100	QPSK	135	0	23.92	24.01	23.88			
100	QPSK	135	69	24.76	24.86	24.78			
100	QPSK	135	138	23.98	24.01	23.98			
100	QPSK	270	0	24.04	24.05	24.01	25.0	1.0	
100	16QAM	1	1	24.08	24.13	24.10			
100	64QAM	1	1	22.14	22.28	22.10			
100	256QAM	1	1	20.21	20.35	20.29			
Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	24.71	24.86	24.81	26.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	24.77	24.85	24.85	26.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	24.73	24.82	24.76	26.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	24.70	24.86	24.80	26.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	24.74	24.83	24.83	26.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.72	24.87	24.83	26.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.80	24.79	24.76	26.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2499.99	2592.99	2679.99			
20	QPSK	1	1	25.75	24.85	24.77	26.0	0.0	

Part270 n77 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.24	20.37	20.28	21.0	0.0	
100	PI2 BPSK	1	137	20.20	20.33	20.22			
100	PI2 BPSK	1	271	20.15	20.28	20.22			
100	PI2 BPSK	135	0	18.72	18.78	18.74	20.5	0.5	
100	PI2 BPSK	135	69	20.22	20.31	20.19	21.0	0.0	
100	PI2 BPSK	135	138	18.63	18.76	18.67	20.5	0.5	
100	PI2 BPSK	270	0	18.80	18.88	18.80			
100	QPSK	1	1	20.37	20.43	20.31	21.0	0.0	
100	QPSK	1	137	20.19	20.35	20.25			
100	QPSK	1	271	20.13	20.31	20.20			
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0	
100	QPSK	135	69	20.20	20.38	20.27	21.0	0.0	
100	QPSK	135	138	18.84	18.96	18.81	20.0	1.0	
100	QPSK	270	0	18.91	19.02	18.86			
100	16QAM	1	1	18.60	18.68	18.60	20.0	1.0	
100	64QAM	1	1	17.49	17.65	17.53	18.5	2.5	
100	256QAM	1	1	15.22	15.32	15.26	16.5	4.5	
Channel				649668	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.26	20.38	20.30	21.0	0.0	
Channel				649334	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.19	20.29	20.31	21.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.23	20.38	20.32	21.0	0.0	
Channel				648666	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.19	20.28	20.30	21.0	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.28	20.37	20.25	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3740	3760	(dBm)	(dB)	
40	QPSK	1	1	20.24	20.30	20.31	21.0	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	20.20	20.28	20.26	21.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.22	20.28	20.24	21.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.16	20.35	20.30	21.0	0.0	
Channel				647000	658000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.28	20.34	20.28	21.0	0.0	

Part270 n77 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.33	23.39	23.29	24.0	0.0	
100	PI2 BPSK	1	137	23.23	23.33	23.26			
100	PI2 BPSK	1	271	23.14	23.27	23.23			
100	PI2 BPSK	135	0	22.79	22.88	22.84	23.5	0.5	
100	PI2 BPSK	135	69	23.28	23.34	23.20	24.0	0.0	
100	PI2 BPSK	135	138	22.86	22.90	22.79	23.5	0.5	
100	PI2 BPSK	270	0	22.88	22.94	22.82			
100	QPSK	1	1	23.36	23.42	23.32	24.0	0.0	
100	QPSK	1	137	23.28	23.35	23.25			
100	QPSK	1	271	23.21	23.31	23.22			
100	QPSK	135	0	22.21	22.34	22.26	23.0	1.0	
100	QPSK	135	69	23.22	23.38	23.26	24.0	0.0	
100	QPSK	135	138	22.34	22.39	22.34	23.0	1.0	
100	QPSK	270	0	22.32	22.45	22.39			
100	16QAM	1	1	22.46	22.57	22.51	23.0	1.0	
100	64QAM	1	1	20.74	20.88	20.77	21.5	2.5	
100	256QAM	1	1	18.58	18.67	18.63	19.5	4.5	
Channel				649668	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	23.28	23.35	23.24	24.0	0.0	
Channel				649334	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	23.11	23.34	23.27	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	23.29	23.37	23.29	24.0	0.0	
Channel				648666	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	23.26	23.38	23.18	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	23.25	23.28	23.27	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3740	3760	(dBm)	(dB)	
40	QPSK	1	1	23.29	23.30	23.19	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	23.24	23.38	23.19	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	23.31	23.28	23.25	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	23.31	23.32	23.21	24.0	0.0	
Channel				647000	658000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	23.28	23.29	23.25	24.0	0.0	

Part270 n78 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		20.31		21.0	0.0	
100	PI2 BPSK	1	137		20.27				
100	PI2 BPSK	1	271		20.22				
100	PI2 BPSK	135	0		19.13		20.5	0.5	
100	PI2 BPSK	135	69		20.25		21.0	0.0	
100	PI2 BPSK	135	138		19.01		20.5	0.5	
100	PI2 BPSK	270	0		19.07				
100	QPSK	1	1		20.35		21.0	0.0	
100	QPSK	1	137		20.30				
100	QPSK	1	271		20.17				
100	QPSK	135	0		19.82		20.0	1.0	
100	QPSK	135	69		20.29		21.0	0.0	
100	QPSK	135	138		18.67		20.0	1.0	
100	QPSK	270	0		18.72				
100	16QAM	1	1		18.84		20.0	1.0	
100	64QAM	1	1		17.58		18.5	2.5	
100	256QAM	1	1		15.33		16.5	4.5	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	20.19	20.24	20.14	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	20.23	20.26	20.11	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	20.15	20.28	20.18	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	20.19	20.25	20.13	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	20.24	20.27	20.13	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	20.20	20.25	20.19	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	20.27	20.30	20.08	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	20.25	20.24	20.08	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	20.22	20.27	20.19	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	20.16	20.23	20.20	21.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.17		24.0	0.0	
100	PI2 BPSK	1	137		23.08				
100	PI2 BPSK	1	271		23.02				
100	PI2 BPSK	135	0		22.52		23.5	0.5	
100	PI2 BPSK	135	69		23.09		24.0	0.0	
100	PI2 BPSK	135	138		22.46		23.5	0.5	
100	PI2 BPSK	270	0		22.53				
100	QPSK	1	1		23.21		24.0	0.0	
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.04				
100	QPSK	135	0		22.01		23.0	1.0	
100	QPSK	135	69		23.14		24.0	0.0	
100	QPSK	135	138		21.95		23.0	1.0	
100	QPSK	270	0		22.02		23.0	1.0	
100	16QAM	1	1		22.03				
100	64QAM	1	1		20.85		21.5	2.5	
100	256QAM	1	1		18.88		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.11	23.15	23.05	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.09	23.18	23.02	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.13	23.16	22.97	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.12	23.08	22.98	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.05	23.08	22.94	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.12	23.06	23.04	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	23.11	23.17	23.03	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.09	23.14	23.01	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.11	23.18	23.00	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.09	23.16	22.94	24.0	0.0	



n5 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166800	Power Middle Ch. Freq. 167300	Power High Ch. Freq. 167800	Tune-up limit (dBm)	MPR (db)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	21.69	21.83	21.79	23.0	0.0	
20	PI2 BPSK	1	53	21.73	21.78	21.87			
20	PI2 BPSK	1	104	21.81	21.70	21.68			
20	PI2 BPSK	50	0	21.34	21.41	21.34	22.5	0.5	
20	PI2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0	
20	PI2 BPSK	50	56	21.24	21.34	21.20	22.5	0.5	
20	PI2 BPSK	100	0	21.35	21.40	21.28			
20	QPSK	1	1	21.83	21.89	21.76			
20	QPSK	1	53	21.71	21.82	21.70	23.0	0.0	
20	QPSK	1	104	21.65	21.76	21.61	22.0	1.0	
20	QPSK	50	0	20.79	20.87	20.76			
20	QPSK	50	28	21.68	21.81	21.76			
20	QPSK	50	56	20.70	20.84	20.75	22.0	1.0	
20	QPSK	100	0	20.77	20.90	20.80			
20	16QAM	1	1	21.22	21.28	21.13	22.0	1.0	
20	64QAM	1	1	19.46	19.57	19.45	20.5	2.5	
20	256QAM	1	1	17.39	17.51	17.41	18.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	21.72	21.78	21.64	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				829 <th>836.5</th> <th>844</th> <th colspan="3"></th>	836.5	844			
10	QPSK	1	1	21.76	21.81	21.66	23.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.77	21.84	21.69	23.0	0.0	

n7 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 504000	Power Middle Ch. Freq. 507000	Power High Ch. Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2520	2535	2550			
Frequency (MHz)									
40	PI2 BPSK	1	1	22.80	22.86	22.80	23.9	0.0	
40	PI2 BPSK	1	108	22.71	22.81	22.69			
40	PI2 BPSK	1	214	22.70	22.77	22.73			
40	PI2 BPSK	108	0	22.37	22.44	22.37	23.5	0.4	
40	PI2 BPSK	108	54	22.66	22.79	22.65	23.9	0.0	
40	PI2 BPSK	108	108	22.29	22.41	22.38	23.5	0.4	
40	PI2 BPSK	216	0	22.37	22.46	22.41			
40	QPSK	1	1	22.88	22.93	22.84			
40	QPSK	1	108	22.80	22.88	22.75	23.9	0.0	
40	QPSK	1	214	22.74	22.83	22.73	23.0	0.9	
40	QPSK	108	0	21.94	22.01	21.97			
40	QPSK	108	54	22.80	22.87	22.82			
40	QPSK	108	108	22.00	22.05	21.94	23.0	0.9	
40	QPSK	216	0	22.06	22.13	22.06			
40	16QAM	1	1	22.12	22.18	22.05	23.0	0.9	
40	64QAM	1	1	20.55	20.59	20.52	21.5	2.4	
40	256QAM	1	1	18.52	18.67	18.59	19.5	4.4	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	22.81	22.79	22.73	23.9	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.80	22.87	22.77	23.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2550			
20	PI2 BPSK	1	1	22.75	22.85	22.81	23.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.74	22.81	22.73	23.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.79	22.83	22.70	23.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.74	22.88	22.80	23.9	0.0	

n66 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 346800	Power Middle Ch. Freq. 349000	Power High Ch. Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)									
40	PI2 BPSK	1	1	22.35	22.46	22.40	24.0	0.0	
40	PI2 BPSK	1	108	22.31	22.41	22.34			
40	PI2 BPSK	1	214	22.32	22.36	22.30			
40	PI2 BPSK	108	0	22.01	22.06	22.00	23.5	0.5	
40	PI2 BPSK	108	54	22.37	22.41	22.28	24.0	0.0	
40	PI2 BPSK	108	108	21.96	22.03	21.98	23.5	0.5	
40	PI2 BPSK	216	0	22.00	22.07	22.02			
40	QPSK	1	1	22.48	22.54	22.42			
40	QPSK	1	108	22.43	22.48	22.45	24.0	0.0	
40	QPSK	1	214	22.35	22.42	22.29	23.0	1.0	
40	QPSK	108	0	21.92	21.87	21.54			
40	QPSK	108	54	22.40	22.50	22.38			
40	QPSK	108	108	21.65	21.72	21.62	23.0	1.0	
40	QPSK	216	0	21.87	21.77	21.73			
40	16QAM	1	1	21.81	21.68	21.65	23.0	1.0	
40	64QAM	1	1	19.79	19.93	19.80	21.5	2.5	
40	256QAM	1	1	18.00	18.05	18.01	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.42	22.45	22.30	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.44	22.50	22.35	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.41	22.49	22.37	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.43	22.46	22.31	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.34	22.42	22.31	24.0	0.0	



n38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	22.65	22.78	22.72	24.0	0.0	
40	PV2 BPSK	1	53	22.68	22.72	22.58			
40	PV2 BPSK	1	104	22.56	22.67	22.59			
40	PV2 BPSK	50	0	21.58	21.68	21.60			
40	PV2 BPSK	50	28	22.66	22.71	22.64	23.5	0.5	
40	PV2 BPSK	50	56	21.64	21.74	21.63	23.5	0.5	
40	PV2 BPSK	100	0	21.70	21.80	21.70			
40	QPSK	1	1	22.72	22.84	22.77	24.0	0.0	
40	QPSK	1	53	22.68	22.79	22.65			
40	QPSK	1	104	22.63	22.79	22.63			
40	QPSK	50	0	21.72	21.78	21.68			
40	QPSK	50	28	22.72	22.78	22.71	24.0	0.0	
40	QPSK	50	56	21.74	21.85	21.72	24.0	1.0	
40	QPSK	100	0	21.76	21.86	21.84			
40	16QAM	1	1	21.60	21.72	21.62	23.0	1.0	
40	64QAM	1	1	20.36	20.48	20.35	21.5	2.5	
40	256QAM	1	1	18.26	18.31	18.24	19.5	4.5	
Channel				519002	519000	520098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	22.66	22.72	22.68	24.0	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	22.64	22.70	22.63	24.0	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.63	22.80	22.71	24.0	0.0	
Channel				518500	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.69	22.76	22.65	24.0	0.0	
Channel				518004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.97	2595	2614.98			
10	QPSK	1	1	22.82	22.74	22.69	24.0	0.0	

n41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	22.84	22.90	22.78	23.9	0.0	
100	PV2 BPSK	1	137	22.72	22.85	22.81			
100	PV2 BPSK	1	271	22.73	22.81	22.67			
100	PV2 BPSK	135	0	21.53	21.54	21.60			
100	PV2 BPSK	135	69	22.71	22.83	22.71	23.5	0.4	
100	PV2 BPSK	135	138	21.52	21.62	21.57	23.5	0.4	
100	PV2 BPSK	270	0	21.63	21.68	21.57			
100	QPSK	1	1	22.93	22.97	22.88	23.9	0.0	
100	QPSK	1	137	22.85	22.92	22.80			
100	QPSK	1	271	22.84	22.98	22.83			
100	QPSK	135	0	21.63	21.73	21.69			
100	QPSK	135	69	22.84	22.91	22.76	23.9	0.0	
100	QPSK	135	138	21.69	21.80	21.71	23.0	0.9	
100	QPSK	270	0	21.83	21.89	21.75			
100	16QAM	1	1	21.80	21.82	21.75	23.0	0.9	
100	64QAM	1	1	20.56	20.69	20.55	21.5	2.4	
100	256QAM	1	1	18.46	18.51	18.44	19.5	4.4	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	22.82	22.89	22.85	23.9	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2630.02	2592.99	2643.99			
80	QPSK	1	1	22.12	22.86	22.84	23.9	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.79	22.92	22.85	23.9	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	22.79	22.93	22.84	23.9	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2645.98			
50	QPSK	1	1	22.79	22.84	22.79	23.9	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.84	22.89	22.83	23.9	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	22.88	22.94	22.75	23.9	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.84	22.90	22.77	23.9	0.0	

n41 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508200	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.82	25.96	25.89	26.9	0.0	
100	PV2 BPSK	1	137	25.85	25.92	25.83			
100	PV2 BPSK	1	271	25.76	25.86	25.75			
100	PV2 BPSK	135	0	25.34	25.44	25.38			
100	PV2 BPSK	135	69	25.87	25.91	25.87	26.9	0.4	
100	PV2 BPSK	135	138	25.35	25.39	25.24	26.5	0.4	
100	PV2 BPSK	270	0	25.36	25.42	25.28			
100	QPSK	1	1	25.88	26.01	25.91	26.9	0.0	
100	QPSK	1	137	25.87	25.95	25.87			
100	QPSK	1	271	25.79	25.89	25.76			
100	QPSK	135	0	24.97	25.04	24.92			
100	QPSK	135	69	25.82	25.96	25.87	26.9	0.0	
100	QPSK	135	138	25.18	25.22	25.18	26.0	0.9	
100	QPSK	270	0	25.18	25.27	25.13			
100	16QAM	1	1	24.84	24.95	24.82	26.0	0.9	
100	64QAM	1	1	23.93	24.00	23.85	24.5	2.4	
100	256QAM	1	1	21.80	21.68	21.63	22.5	4.4	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	25.88	25.97	25.86	26.9	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.02	2592.99	2643.99			
80	QPSK	1	1	25.91	25.89	25.84	26.9	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	25.84	25.87	25.77	26.9	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	25.84	25.95	25.83	26.9	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2645.96			
50	QPSK	1	1	25.88	25.93	25.77	26.9	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	25.82	25.88	25.76	26.9	0.0	
Channel				502202	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	25.90	25.88	25.81	26.9	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2604.02	2592.99	2679.98			
20	QPSK	1	1	25.92	25.90	25.79	26.9	0.0	

Part270 n77 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	24.0	0.0	
Frequency (MHz)				23.12	23.17	23.05			
100	PI2 BPSK	1	1	23.03	23.12	23.01			
100	PI2 BPSK	1	137	23.03	23.08	22.94			
100	PI2 BPSK	135	0	21.59	21.61	21.54	23.5	0.5	
100	PI2 BPSK	135	69	23.09	23.13	22.98	24.0	0.0	
100	PI2 BPSK	135	138	21.54	21.63	21.48	23.5	0.5	
100	PI2 BPSK	270	0	21.58	21.67	21.49	23.5	0.5	
100	QPSK	1	1	23.18	23.24	23.09	24.0	0.0	
100	QPSK	1	137	23.19	23.21	23.12			
100	QPSK	1	271	23.17	23.17	23.02			
100	QPSK	135	0	21.53	21.83	21.54	23.0	1.0	
100	QPSK	135	69	23.17	23.19	23.07	24.0	0.0	
100	QPSK	135	138	21.51	21.83	21.50	23.0	1.0	
100	QPSK	270	0	21.62	21.67	21.52	23.0	1.0	
100	16QAM	1	1	21.58	21.66	21.52	23.0	1.0	
100	64QAM	1	1	20.14	20.23	20.12	21.5	2.5	
100	256QAM	1	1	18.22	18.32	18.18	19.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	23.08	23.11	22.94	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	23.00	23.10	22.94	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	23.01	23.07	22.89	24.0	0.0	
Channel				648666	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	23.11	23.16	22.99	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	23.04	23.13	23.00	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	23.09	23.11	22.99	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	23.03	23.16	22.99	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	23.04	23.17	23.00	24.0	0.0	
Channel				647000	656000	664934	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	23.00	23.14	22.93	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	23.03	23.08	22.98	24.0	0.0	

Part270 n77 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	27.0	0.0	
Frequency (MHz)				25.98	26.10	26.03			
100	PI2 BPSK	1	1	25.95	26.07	25.93			
100	PI2 BPSK	1	271	25.94	26.01	25.98			
100	PI2 BPSK	135	0	25.42	25.51	25.37	26.5	0.5	
100	PI2 BPSK	135	69	25.96	26.00	25.90	27.0	0.0	
100	PI2 BPSK	135	138	25.48	25.58	25.51	26.5	0.5	
100	PI2 BPSK	270	0	25.54	25.61	25.48	26.5	0.5	
100	QPSK	1	1	26.07	26.17	26.12	27.0	0.0	
100	QPSK	1	137	26.01	26.11	26.03			
100	QPSK	1	271	26.07	26.06	25.98			
100	QPSK	135	0	25.05	25.09	24.98	26.0	1.0	
100	QPSK	135	69	26.03	26.12	26.04	27.0	0.0	
100	QPSK	135	138	24.97	25.04	24.96	26.0	1.0	
100	QPSK	270	0	25.05	25.11	25.02	26.0	1.0	
100	16QAM	1	1	25.00	25.14	25.04	26.0	1.0	
100	64QAM	1	1	23.82	23.87	23.53	24.5	2.5	
100	256QAM	1	1	21.56	21.69	21.62	22.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	25.94	26.10	26.06	27.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	25.01	26.03	25.99	27.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	26.02	26.13	26.03	27.0	0.0	
Channel				648666	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	25.95	26.06	26.07	27.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	26.04	26.12	26.01	27.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	26.00	26.04	26.07	27.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	25.97	26.11	26.09	27.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	25.99	26.12	26.05	27.0	0.0	
Channel				647000	656000	664934	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	26.02	26.02	26.01	27.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	25.98	26.03	26.01	27.0	0.0	



Part270 n78 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.05		24.0	0.0	
100	PI2 BPSK	1	137		22.99				
100	PI2 BPSK	1	271		22.92				
100	PI2 BPSK	135	0		21.54		23.5	0.5	
100	PI2 BPSK	135	69		22.97		24.0	0.0	
100	PI2 BPSK	135	138		21.58		23.5	0.5	
100	PI2 BPSK	270	0		21.60				
100	QPSK	1	1		23.13		24.0	0.0	
100	QPSK	1	137		23.02				
100	QPSK	1	271		22.96				
100	QPSK	135	0		21.54		23.0	1.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		21.48		23.0	1.0	
100	QPSK	270	0		21.53				
100	16QAM	1	1		21.89		23.0	1.0	
100	64QAM	1	1		19.94		21.5	2.5	
100	256QAM	1	1		18.07		19.5	4.5	
Channel				649668	650000	650334		MPR	
Frequency (MHz)				3745.02	3750	3755.01		Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1		23.01	23.03	22.94	24.0	0.0
Channel				649334	650000	650668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3760.02		(dBm)	(dB)
80	QPSK	1	1		22.94	23.00	22.94	24.0	0.0
Channel				649000	650000	651000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		(dB)	(dB)
70	QPSK	1	1		22.94	23.09	22.93	24.0	0.0
Channel				648668	650000	651334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3750	3770.01		(dBm)	(dB)
60	QPSK	1	1		22.94	23.01	22.87	24.0	0.0
Channel				648334	650000	651668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3775.02		(dBm)	(dB)
50	QPSK	1	1		23.02	23.05	22.94	24.0	0.0
Channel				648000	650000	652000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		(dBm)	(dB)
40	QPSK	1	1		23.00	23.02	22.89	24.0	0.0
Channel				647668	650000	652334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750	3785.01		(dBm)	(dB)
30	QPSK	1	1		22.96	22.98	22.89	24.0	0.0
Channel				647334	650000	652668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3790.02		(dBm)	(dB)
20	QPSK	1	1		23.00	23.04	22.87	24.0	0.0
Channel				647168	650000	652834		Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3750	3792.51		(dBm)	(dB)
15	QPSK	1	1		23.00	23.08	22.93	24.0	0.0
Channel				647000	650000	653000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3750	3795		(dBm)	(dB)
10	QPSK	1	1		22.98	23.07	22.87	24.0	0.0

Part270 n78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		26.08		27.0	0.0	
100	PI2 BPSK	1	137		26.05				
100	PI2 BPSK	1	271		25.99				
100	PI2 BPSK	135	0		25.50		26.5	0.5	
100	PI2 BPSK	135	69		26.00		27.0	0.0	
100	PI2 BPSK	135	138		25.30		26.5	0.5	
100	PI2 BPSK	270	0		25.48				
100	QPSK	1	1		26.15		27.0	0.0	
100	QPSK	1	137		26.08				
100	QPSK	1	271		26.02				
100	QPSK	135	0		25.00		26.0	1.0	
100	QPSK	135	69		26.09		27.0	0.0	
100	QPSK	135	138		24.95		26.0	1.0	
100	QPSK	270	0		24.99				
100	16QAM	1	1		25.29		26.0	1.0	
100	64QAM	1	1		23.83		24.5	2.5	
100	256QAM	1	1		21.76		22.5	4.5	
Channel				649668	650000	650334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3750	3755.01		(dBm)	(dB)
90	QPSK	1	1		25.95	26.11	25.96	27.0	0.0
Channel				649334	650000	650668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3760.02		(dBm)	(dB)
80	QPSK	1	1		25.94	26.05	25.94	27.0	0.0
Channel				649000	650000	651000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		(dBm)	(dB)
70	QPSK	1	1		26.02	26.09	25.93	27.0	0.0
Channel				648668	650000	651334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3750	3770.01		(dBm)	(dB)
60	QPSK	1	1		25.93	26.10	25.94	27.0	0.0
Channel				648334	650000	651668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3775.02		(dBm)	(dB)
50	QPSK	1	1		25.96	26.04	25.96	27.0	0.0
Channel				648000	650000	652000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		(dBm)	(dB)
40	QPSK	1	1		26.01	26.02	25.89	27.0	0.0
Channel				647668	650000	652334		Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750	3785.01		(dBm)	(dB)
30	QPSK	1	1		25.94	26.01	25.97	27.0	0.0
Channel				647334	650000	652668		Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3790.02		(dBm)	(dB)
20	QPSK	1	1		25.98	26.03	25.93	27.0	0.0
Channel				647168	650000	652834		Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3750	3792.51		(dBm)	(dB)
15	QPSK	1	1		25.94	26.07	25.98	27.0	0.0
Channel				647000	650000	653000		Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3750	3795		(dBm)	(dB)
10	QPSK	1	1		25.97	26.10	25.93	27.0	0.0



n7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq. 504000	Power Middle Ch./ Freq. 507000	Power High Ch./ Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2530	2535	2550			
Frequency (MHz)									
40	PI/2 BPSK	1	1	21.31	21.28	21.14	22.3		0.0
40	PI/2 BPSK	1	108	21.09	21.26	21.02			
40	PI/2 BPSK	1	214	21.09	21.20	20.95			
40	PI/2 BPSK	108	0	21.28	21.36	21.20	22.3		0.0
40	PI/2 BPSK	108	54	21.23	21.30	21.13	22.3		0.0
40	PI/2 BPSK	108	108	21.10	21.22	21.06	22.3		0.0
40	PI/2 BPSK	216	0	21.07	21.17	20.97			
40	QPSK	1	1	21.38	21.40	21.26	22.3		0.0
40	QPSK	1	108	21.22	21.38	21.15			
40	QPSK	1	214	21.24	21.31	21.16			
40	QPSK	108	0	21.11	21.24	20.99	22.3		0.0
40	QPSK	108	54	21.24	21.29	21.12	22.3		0.0
40	QPSK	108	108	21.15	21.25	21.04	22.3		0.0
40	QPSK	216	0	21.08	21.26	20.99			
40	16QAM	1	1	21.13	21.20	21.01	22.3		0.0
40	64QAM	1	1	21.17	21.23	20.99	21.5		0.8
40	256QAM	1	1	18.98	19.05	18.88	19.5		2.8
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.25	21.28	21.07	22.3		0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2537.5			
25	QPSK	1	1	21.27	21.19	21.07	22.3		0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	21.17	21.30	21.10	22.3		0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	21.24	21.23	21.06	22.3		0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.28	21.27	21.16	22.3		0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.20	21.26	21.11	22.3		0.0

n66 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)									
40	PI/2 BPSK	1	1	23.43	23.51	23.47	24.0		0.0
40	PI/2 BPSK	1	108	23.35	23.47	23.38			
40	PI/2 BPSK	1	214	23.38	23.44	23.40			
40	PI/2 BPSK	108	0	22.89	23.04	23.00	23.5		0.5
40	PI/2 BPSK	108	54	23.44	23.48	23.43	24.0		0.0
40	PI/2 BPSK	108	108	23.02	23.08	23.02	23.5		0.5
40	PI/2 BPSK	216	0	23.01	23.13	23.02			
40	QPSK	1	1	23.48	23.58	23.51	24.0		0.0
40	QPSK	1	108	23.38	23.52	23.39			
40	QPSK	1	214	23.33	23.48	23.36			
40	QPSK	108	0	22.44	22.54	22.50	23.0		1.0
40	QPSK	108	54	23.39	23.50	23.40	24.0		0.0
40	QPSK	108	108	22.34	22.47	22.41	23.0		1.0
40	QPSK	216	0	22.42	22.51	22.43			
40	16QAM	1	1	22.45	22.58	22.47	23.0		1.0
40	64QAM	1	1	20.82	20.95	20.80	21.5		2.5
40	256QAM	1	1	18.96	18.99	18.93	19.5		4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.40	23.52	23.39	24.0		0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722	1745	1770			
20	QPSK	1	1	23.44	23.51	23.48	24.0		0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.42	23.47	23.41	24.0		0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.38	23.52	23.45	24.0		0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.40	23.45	23.39	24.0		0.0



n38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 518004	Power Middle Ch. Freq. 519000	Power High Ch. Freq. 519996	Tune-up limit (dBm)	MPR (dB)	
Channel				2590.02	2595	2599.98			
Frequency (MHz)									
40	PV2 BPSK	1	1	20.39	20.47	20.50	21.7	0.0	
40	PV2 BPSK	1	53	20.35	20.50	20.29			
40	PV2 BPSK	1	104	20.35	20.43	20.27			
40	PV2 BPSK	50	0	20.39	20.53	20.41	21.7	0.0	
40	PV2 BPSK	50	28	20.39	20.55	20.44	21.7	0.0	
40	PV2 BPSK	50	56	20.37	20.41	20.46	21.7	0.0	
40	PV2 BPSK	100	0	20.23	20.45	20.37			
40	QPSK	1	1	20.58	20.68	20.58			
40	QPSK	1	53	20.46	20.58	20.55	21.7	0.0	
40	QPSK	1	104	20.34	20.38	20.29	21.7	0.0	
40	QPSK	50	0	20.25	20.42	20.24			
40	QPSK	50	28	20.45	20.58	20.44			
40	QPSK	50	56	20.38	20.49	20.34	21.7	0.0	
40	QPSK	100	0	20.41	20.51	20.45			
40	QPSK	1	1	20.27	20.41	20.40			
40	64QAM	1	1	20.36	20.51	20.25	21.5	0.2	
40	256QAM	1	1	18.38	18.45	18.24	19.5	2.2	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	20.23	20.38	20.27	21.7	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	20.16	20.31	20.23	21.7	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	20.17	20.33	20.25	21.7	0.0	
Channel				517502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	20.19	20.40	20.26	21.7	0.0	
Channel				516004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	20.19	20.38	20.36	24.5	0.0	

n41 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 508202	Power Middle Ch. Freq. 518598	Power High Ch. Freq. 528000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640			
Frequency (MHz)									
100	PV2 BPSK	1	1	20.50	20.58	20.53	21.7	0.0	
100	PV2 BPSK	1	137	20.44	20.57	20.41			
100	PV2 BPSK	1	271	20.41	20.56	20.40			
100	PV2 BPSK	135	0	20.52	20.60	20.54	21.7	0.0	
100	PV2 BPSK	135	69	20.50	20.61	20.55	21.7	0.0	
100	PV2 BPSK	135	138	20.42	20.54	20.51	21.7	0.0	
100	PV2 BPSK	270	0	20.36	20.57	20.44			
100	QPSK	1	1	20.67	20.78	20.70			
100	QPSK	1	137	20.53	20.63	20.58	21.7	0.0	
100	QPSK	1	271	20.44	20.51	20.44	21.7	0.0	
100	QPSK	135	0	20.34	20.56	20.38			
100	QPSK	135	69	20.49	20.61	20.59			
100	QPSK	135	138	20.42	20.60	20.41	21.7	0.0	
100	QPSK	270	0	20.52	20.55	20.50			
100	16QAM	1	1	20.37	20.54	20.44			
100	64QAM	1	1	20.41	20.56	20.39	21.5	0.2	
100	256QAM	1	1	18.42	18.49	18.35	19.5	2.2	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.49	20.57	20.59	21.7	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	20.52	20.69	20.52	21.7	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.58	20.67	20.57	21.7	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.49	20.60	20.54	21.7	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.98			
50	QPSK	1	1	20.55	20.57	20.49	21.7	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	20.47	20.68	20.58	21.7	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.57	20.65	20.50	21.7	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.55	20.60	20.51	21.7	0.0	

n41 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 506202	Power Middle Ch. Freq. 518598	Power High Ch. Freq. 528000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640			
Frequency (MHz)									
100	PV2 BPSK	1	1	23.51	23.53	23.50	24.7	0.0	
100	PV2 BPSK	1	137	23.45	23.53	23.45			
100	PV2 BPSK	1	271	23.35	23.52	23.40			
100	PV2 BPSK	135	0	23.49	23.65	23.54	24.7	0.0	
100	PV2 BPSK	135	69	23.51	23.63	23.61	24.7	0.0	
100	PV2 BPSK	135	138	23.43	23.52	23.48	24.7	0.0	
100	PV2 BPSK	270	0	23.30	23.61	23.43			
100	QPSK	1	1	23.63	23.75	23.67			
100	QPSK	1	137	23.56	23.67	23.63	24.7	0.0	
100	QPSK	1	271	23.47	23.50	23.46	24.7	0.0	
100	QPSK	135	0	23.30	23.54	23.40			
100	QPSK	135	69	23.51	23.65	23.60			
100	QPSK	135	138	23.38	23.60	23.36	24.7	0.0	
100	QPSK	270	0	23.52	23.58	23.51			
100	16QAM	1	1	23.34	23.52	23.45			
100	64QAM	1	1	23.38	23.51	23.41	24.5	0.2	
100	256QAM	1	1	22.21	22.29	22.16	22.5	2.2	
Channel				506202	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.46	23.63	23.65	24.7	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	23.52	23.61	23.54	24.7	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.49	23.58	23.61	24.7	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.45	23.53	23.56	24.7	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.98			
50	QPSK	1	1	23.51	23.55	23.53	24.7	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			

Part270 n77 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	18.39	18.46	18.42	19.7	0.0		
100	PI2 BPSK	1	137	18.38	18.43	18.31				
100	PI2 BPSK	1	271	18.25	18.43	18.32				
100	PI2 BPSK	135	0	18.41	18.51	18.41	19.7	0.0		
100	PI2 BPSK	135	69	18.40	18.48	18.42	19.7	0.0		
100	PI2 BPSK	135	138	18.45	18.46	18.28	19.7	0.0		
100	PI2 BPSK	270	0	18.28	18.39	18.32	19.7	0.0		
100	QPSK	1	1	18.59	18.64	18.55	19.7	0.0		
100	QPSK	1	137	18.57	18.58	18.45				
100	QPSK	1	271	18.40	18.55	18.42				
100	QPSK	135	0	18.41	18.44	18.33	19.7	0.0		
100	QPSK	135	69	18.45	18.53	18.42	19.7	0.0		
100	QPSK	135	138	18.25	18.38	18.27	19.7	0.0		
100	QPSK	270	0	18.40	18.46	18.42	19.7	0.0		
100	16QAM	1	1	18.45	18.52	18.39	19.7	0.0		
100	64QAM	1	1	18.39	18.47	18.33	19.7	0.0		
100	256QAM	1	1	18.28	18.38	18.31	19.5	0.2		
Channel				649668	650000	662334	Tune-up limit			
Frequency (MHz)				3745.02	3840	3935.01	(dBm)			
90	QPSK	1	1	18.41	18.45	18.36	19.7	0.0		
Channel				649334	656000	662668	Tune-up limit			
Frequency (MHz)				3740.02	3840	3940.02	(dBm)			
80	QPSK	1	1	18.44	18.55	18.41	19.7	0.0		
Channel				649000	656000	663000	Tune-up limit			
Frequency (MHz)				3735	3840	3945	(dBm)			
70	QPSK	1	1	18.43	18.44	18.42	19.7	0.0		
Channel				648668	650000	663334	Tune-up limit			
Frequency (MHz)				3730.02	3840	3950.01	(dBm)			
60	QPSK	1	1	18.48	18.55	18.43	19.7	0.0		
Channel				648334	656000	663668	Tune-up limit			
Frequency (MHz)				3725.01	3840	3955.02	(dBm)			
50	QPSK	1	1	18.45	18.50	18.38	19.7	0.0		
Channel				648000	656000	664000	Tune-up limit			
Frequency (MHz)				3720	3840	3960	(dBm)			
40	QPSK	1	1	18.47	18.48	18.42	19.7	0.0		
Channel				647668	650000	664334	Tune-up limit			
Frequency (MHz)				3715.02	3840	3965.01	(dBm)			
30	QPSK	1	1	18.42	18.44	18.39	19.7	0.0		
Channel				647334	650000	664668	Tune-up limit			
Frequency (MHz)				3710.01	3840	3970.02	(dBm)			
20	QPSK	1	1	18.42	18.50	18.44	19.7	0.0		
Channel				647168	650000	664834	Tune-up limit			
Frequency (MHz)				3707.52	3840	3972.51	(dBm)			
15	QPSK	1	1	18.39	18.47	18.46	19.7	0.0		
Channel				647000	656000	665000	Tune-up limit			
Frequency (MHz)				3705	3840	3975	(dBm)			
10	QPSK	1	1	18.43	18.45	18.34	19.7	0.0		

Part270 n77 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.44	21.42	21.41	22.7	0.0	
100	PI2 BPSK	1	137	21.32	21.44	21.34			
100	PI2 BPSK	1	271	21.21	21.39	21.26			
100	PI2 BPSK	135	0	21.38	21.45	21.38	22.7	0.0	
100	PI2 BPSK	135	69	21.41	21.46	21.41	22.7	0.0	
100	PI2 BPSK	135	138	21.46	21.46	21.21	22.7	0.0	
100	PI2 BPSK	270	0	21.33	21.45	21.37	22.7	0.0	
100	QPSK	1	1	21.56	21.65	21.53	22.7	0.0	
100	QPSK	1	137	21.56	21.54	21.46			
100	QPSK	1	271	21.40	21.53	21.45			
100	QPSK	135	0	21.46	21.44	21.35	22.7	0.0	
100	QPSK	135	69	21.45	21.53	21.39	22.7	0.0	
100	QPSK	135	138	21.31	21.41	21.30	22.7	0.0	
100	QPSK	270	0	21.40	21.49	21.37	21.44	22.7	
100	16QAM	1	1	21.40	21.52	21.44	22.7	0.0	
100	64QAM	1	1	21.41	21.45	21.29	22.7	0.0	
100	256QAM	1	1	21.32	21.42	21.26	22.5	0.2	
Channel				649668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dbm)		
90	QPSK	1	1	21.36	21.46	21.41	22.7	0.0	
Channel				649334	656000	662068	Tune-up limit		
Frequency (MHz)				3740.01	3840	3940.02	(dbm)		
80	QPSK	1	1	21.37	21.47	21.37	22.7	0.0	
Channel				649000	656000	663000	Tune-up limit		
Frequency (MHz)				3735	3840	3945	(dbm)		
70	QPSK	1	1	21.36	21.41	21.30	22.7	0.0	
Channel				648668	650000	663334	Tune-up limit		
Frequency (MHz)				3730.02	3840	3950.01	(dbm)		
60	QPSK	1	1	21.39	21.50	21.36	22.7	0.0	
Channel				648334	650000	663668	Tune-up limit		
Frequency (MHz)				3725.01	3840	3955.02	(dbm)		
50	QPSK	1	1	21.43	21.49	21.35	22.7	0.0	
Channel				648000	656000	664000	Tune-up limit		
Frequency (MHz)				3720	3840	3960	(dbm)		
40	QPSK	1	1	21.48	21.50	21.34	22.7	0.0	
Channel				647668	650000	664334	Tune-up limit		
Frequency (MHz)				3715.02	3840	3965.01	(dbm)		
30	QPSK	1	1	21.39	21.46	21.42	22.7	0.0	
Channel				647334	650000	664668	Tune-up limit		
Frequency (MHz)				3710.01	3840	3970.02	(dbm)		
20	QPSK	1	1	21.40	21.40	21.36	22.7	0.0	
Channel				647168	650000	664834	Tune-up limit		
Frequency (MHz)				3707.52	3840	3972.51	(dbm)		
15	QPSK	1	1	21.37	21.47	21.33	22.7	0.0	
Channel				647000	656000	665000	Tune-up limit		
Frequency (MHz)				3705	3840	3975	(dbm)		
10	QPSK	1	1	21.41	21.47	21.31	22.7	0.0	

Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		18.38		19.7	0.0	
100	PI2 BPSK	1	137		18.25				
100	PI2 BPSK	1	271		18.33				
100	PI2 BPSK	135	0		18.30		19.7	0.0	
100	PI2 BPSK	135	69		18.27		19.7	0.0	
100	PI2 BPSK	135	138		18.34		19.7	0.0	
100	PI2 BPSK	270	0		18.19				
100	QPSK	1	1		18.51				
100	QPSK	1	137		18.37		19.7	0.0	
100	QPSK	1	271		18.40		19.7	0.0	
100	QPSK	135	0		18.28				
100	QPSK	135	69		18.38				
100	QPSK	135	138		18.28		19.7	0.0	
100	QPSK	270	0		18.27		19.7	0.0	
100	16QAM	1	1		18.33				
100	64QAM	1	1		18.38				
100	256QAM	1	1		18.22		19.5	0.2	
Channel				649688	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3750.01	(dBm)	(dB)	
90	QPSK	1	1		18.28	18.34	18.22	19.7	0.0
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		18.25	18.32	18.22	19.7	0.0
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		18.21	18.33	18.22	19.7	0.0
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		18.29	18.29	18.23	19.7	0.0
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		18.24	18.35	18.25	19.7	0.0
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		18.24	18.27	18.23	19.7	0.0
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1		18.24	18.32	18.26	19.7	0.0
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		18.31	18.34	18.24	19.7	0.0
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		18.22	18.27	18.15	19.7	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		18.25	18.31	18.24	19.7	0.0

Part270 n78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		21.32		22.7	0.0	
100	PI2 BPSK	1	137		21.26				
100	PI2 BPSK	1	271		21.25				
100	PI2 BPSK	135	0		21.29		22.7	0.0	
100	PI2 BPSK	135	69		21.37		22.7	0.0	
100	PI2 BPSK	135	138		21.34		22.7	0.0	
100	PI2 BPSK	270	0		21.27				
100	QPSK	1	1		21.56				
100	QPSK	1	137		21.34		22.7	0.0	
100	QPSK	1	271		21.43		22.7	0.0	
100	QPSK	135	0		21.28				
100	QPSK	135	69		21.37				
100	QPSK	135	138		21.29		22.7	0.0	
100	QPSK	270	0		21.35		22.7	0.0	
100	16QAM	1	1		21.38				
100	64QAM	1	1		21.26				
100	256QAM	1	1		21.26		22.5	0.2	
Channel				649688	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3750.01			
90	QPSK	1	1		21.24	21.34	21.27	22.7	0.0
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		21.18	21.28	21.21	22.7	0.0
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		21.26	21.29	21.24	22.7	0.0
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		21.22	21.35	21.24	22.7	0.0
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		21.18	21.34	21.31	22.7	0.0
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		21.22	21.28	21.22	22.7	0.0
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		21.21	21.28	21.26	22.7	0.0
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		21.24	21.30	21.20	22.7	0.0
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		21.26	21.34	21.27	22.7	0.0
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		21.15	21.33	21.22	22.7	0.0



n7 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2530	2535	2550	22.8	0.0	
Frequency (MHz)									
40	PI2 BPSK	1	1	21.59	21.66	21.41	22.8	0.0	
40	PI2 BPSK	1	108	21.50	21.51	21.48			
40	PI2 BPSK	1	214	21.42	21.49	21.43			
40	PI2 BPSK	108	0	21.50	21.67	21.42			
40	PI2 BPSK	108	54	21.55	21.72	21.49	22.8	0.0	
40	PI2 BPSK	108	108	21.42	21.50	21.54			
40	PI2 BPSK	216	0	21.44	21.46	21.48			
40	QPSK	1	1	21.71	21.81	21.59			
40	QPSK	1	108	21.51	21.70	21.47	22.8	0.0	
40	QPSK	1	214	21.41	21.53	21.45			
40	QPSK	108	0	21.39	21.49	21.50			
40	QPSK	108	54	21.51	21.64	21.46			
40	QPSK	108	108	21.40	21.57	21.49	22.8	0.0	
40	QPSK	216	0	21.58	21.80	21.50			
40	16QAM	1	1	21.45	21.53	21.48			
40	64QAM	1	1	21.37	21.48	21.47			
40	256QAM	1	1	19.38	19.32	19.48	21.5	1.3	
Channel				503000	507000	511000	22.8	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.54	21.72	21.40	22.8	0.0	
Channel				502500	507000	511500	22.8	MPR (dB)	
Frequency (MHz)				2512.5	2535	2537.5			
25	QPSK	1	1	21.55	21.65	21.42	22.8	0.0	
Channel				502000	507000	512000	22.8	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	21.58	21.70	21.43	22.8	0.0	
Channel				501500	507000	512500	22.8	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	21.53	21.70	21.43	22.8	0.0	
Channel				501000	507000	513000	22.8	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.55	21.72	21.48	22.8	0.0	
Channel				500500	507000	513500	22.8	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.52	21.61	21.49	22.8	0.0	

n66 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760	24.0	0.0	
Frequency (MHz)									
40	PI2 BPSK	1	1	23.40	23.46	23.43			
40	PI2 BPSK	1	108	23.29	23.42	23.35			
40	PI2 BPSK	1	214	23.25	23.37	23.33	23.5	0.5	
40	PI2 BPSK	108	0	22.91	23.04	22.89			
40	PI2 BPSK	108	54	23.34	23.47	23.37			
40	PI2 BPSK	108	108	22.97	23.08	22.94			
40	PI2 BPSK	216	0	22.85	22.96	22.97	24.0	0.0	
40	QPSK	1	1	23.39	23.52	23.46			
40	QPSK	1	108	23.42	23.43	23.39			
40	QPSK	1	214	23.37	23.38	23.27			
40	QPSK	108	0	22.52	22.62	22.59	23.0	1.0	
40	QPSK	108	54	23.42	23.50	23.44			
40	QPSK	108	108	22.55	22.60	22.56			
40	QPSK	216	0	22.52	22.62	22.52			
40	16QAM	1	1	22.55	22.70	22.51	23.0	1.0	
40	64QAM	1	1	21.13	21.16	21.14			
40	256QAM	1	1	19.37	19.40	19.32			
Channel				345000	349000	353000	23.0	1.0	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.33	23.38	23.43			
Channel				344000	349000	354000	23.0	1.0	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.35	23.43	23.41		24.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.28	23.45	23.35	24.0	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.35	23.48	23.41		24.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.32	23.37	23.40		24.0	



n38 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	22.39	22.47	22.38	24.0	0.0	
40	PV2 BPSK	1	53	22.30	22.50	22.32			
40	PV2 BPSK	1	104	22.28	22.30	22.37			
40	PV2 BPSK	50	0	22.28	22.35	22.30	24.0	0.0	
40	PV2 BPSK	50	28	22.47	22.45	22.31	24.0	0.0	
40	PV2 BPSK	50	56	22.13	22.32	22.33	24.0	0.0	
40	PV2 BPSK	100	0	22.20	22.28	22.37			
40	QPSK	1	1	22.44	22.58	22.53			
40	QPSK	1	53	22.43	22.52	22.47	24.0	0.0	
40	QPSK	1	104	22.35	22.54	22.53	23.5	0.5	
40	QPSK	50	0	22.30	22.31	22.26			
40	QPSK	50	28	22.31	22.45	22.29			
40	QPSK	50	56	22.38	22.33	22.39	23.5	0.5	
40	QPSK	100	0	22.29	22.35	22.25			
40	QPSK	1	1	22.22	22.25	22.32			
40	64QAM	1	1	21.58	21.64	21.54	22.0	2.0	
40	256QAM	1	1	19.29	19.40	19.32	20.0	4.0	
Channel				517002	519000	520998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	22.16	22.18	22.38	24.0	0.0	
Channel				518504	519000	521496	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	22.15	22.24	22.31	24.0	0.0	
Channel				518000	519000	522000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.20	22.35	22.35	24.0	0.0	
Channel				515002	519000	522498	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.15	22.26	22.29	24.0	0.0	
Channel				515002	519000	522498	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.17	22.22	22.27	24.5	0.0	

n41 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.46	22.52	22.49	24.0	0.0	
100	PQ2 BPSK	1	137	22.35	22.60	22.39			
100	PQ2 BPSK	1	271	22.31	22.41	22.44			
100	PQ2 BPSK	135	0	22.35	22.49	22.43	24.0	0.0	
100	PQ2 BPSK	135	69	22.54	22.51	22.45	24.0	0.0	
100	PQ2 BPSK	135	138	22.27	22.45	22.37	24.0	0.0	
100	PQ2 BPSK	270	0	22.32	22.43	22.42			
100	QPSK	1	1	22.55	22.67	22.64			
100	QPSK	1	137	22.50	22.64	22.57	24.0	0.0	
100	QPSK	1	271	22.47	22.65	22.60	23.5	0.5	
100	QPSK	135	0	22.40	22.45	22.38			
100	QPSK	135	69	22.45	22.52	22.43			
100	QPSK	135	138	22.47	22.47	22.48	23.5	0.5	
100	QPSK	270	0	22.33	22.40	22.34			
100	16QAM	1	1	22.33	22.37	22.35	23.5	0.5	
100	64QAM	1	1	21.21	21.29	21.15	22.0	2.0	
100	256QAM	1	1	18.95	19.09	18.96	20.0	4.0	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	22.42	22.48	22.54	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2633.02	2592.99	2643.99			
80	QPSK	1	1	22.38	22.53	22.51	24.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.42	22.47	22.55	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	22.45	22.47	22.50	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2664.98			
50	QPSK	1	1	22.42	22.41	22.55	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	22.38	22.51	22.55	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	22.37	22.41	22.54	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2606.02	2592.99	2679.99			
20	QPSK	1	1	22.43	22.51	22.46	24.0	0.0	

n41 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.45	25.57	25.41	27.0	0.0	
100	PV2 BPSK	1	137	25.41	25.58	25.35			
100	PV2 BPSK	1	271	25.36	25.42	25.42			
100	PV2 BPSK	135	0	25.39	25.53	25.48	27.0	0.0	
100	PV2 BPSK	135	69	25.58	25.56	25.42	27.0	0.0	
100	PV2 BPSK	135	138	25.27	25.39	25.39	27.0	0.0	
100	PV2 BPSK	270	0	25.32	25.43	25.41			
100	QPSK	1	1	25.58	25.69	25.62			
100	QPSK	1	137	25.47	25.66	25.60	27.0	0.0	
100	QPSK	1	271	25.41	25.65	25.67	26.5	0.5	
100	QPSK	135	0	25.36	25.42	25.36			
100	QPSK	135	69	25.44	25.53	25.38			
100	QPSK	135	138	25.52	25.42	25.46	26.5	0.5	
100	QPSK	270	0	25.34	25.45	25.39			
100	16QAM	1	1	25.32	25.38	25.38	26.5	0.5	
100	64QAM	1	1	24.20	24.23	24.20	25.0	2.0	
100	256QAM	1	1	21.89	22.04	21.95	23.0	4.0	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	25.39	25.50	25.57	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2633.02	2592.99	2643.99			
80	QPSK	1	1	25.42	25.48	25.50	27.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	25.40	25.43	25.56	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	25.41	25.45	25.57	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2664.98			
50	QPSK	1	1	25.43	25.44	25.55	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	25.45	25.50	25.59	27.0	0.0	
Channel				502202	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	25.56	25.48	25.55	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2606.01	2592.99	2679.98			
20	QPSK	1	1	25.37	25.49	25.53	27.0	0.0	

Part270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	19.02	19.06	19.05	20.7	0.0	
100	PI2 BPSK	1	137	19.99	19.00	19.03			
100	PI2 BPSK	1	271	18.86	19.06	18.95			
100	PI2 BPSK	135	0	18.88	18.95	18.88	20.7	0.0	
100	PI2 BPSK	135	69	19.02	19.02	18.94	20.7	0.0	
100	PI2 BPSK	135	138	18.86	18.98	19.02	20.7	0.0	
100	PI2 BPSK	270	0	18.98	18.99	18.92			
100	QPSK	1	1	19.04	19.17	19.05			
100	QPSK	1	137	19.11	19.12	18.99	20.7	0.0	
100	QPSK	1	271	19.00	18.93	18.98	20.7	0.0	
100	QPSK	135	0	18.97	19.01	18.93			
100	QPSK	135	69	19.02	19.14	19.00			
100	QPSK	135	138	18.94	18.93	18.91	20.7	0.0	
100	QPSK	270	0	19.01	19.07	18.99			
100	16QAM	1	1	18.92	19.07	18.99	20.7	0.0	
100	64QAM	1	1	18.91	18.97	18.89	20.7	0.0	
100	256QAM	1	1	18.43	18.49	18.33	19.5	1.2	
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.89	18.92	18.96	20.7	0.0	
Channel				649334	650000	662968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.89	18.89	18.87	20.7	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.93	18.90	18.90	20.7	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.85	18.98	18.92	20.7	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.86	18.91	18.92	20.7	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3950			
40	QPSK	1	1	18.92	18.92	18.94	20.7	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.83	18.90	18.96	20.7	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.88	18.95	18.88	20.7	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.91	18.97	18.94	20.7	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.92	18.99	18.96	20.7	0.0	

Part270 n77 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (db)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.16	22.14	22.05	23.7	0.0	
100	PI2 BPSK	1	137	22.09	22.18	22.03			
100	PI2 BPSK	1	271	21.88	22.05	22.00			
100	PI2 BPSK	135	0	21.98	22.05	22.00	23.7	0.0	
100	PI2 BPSK	135	69	22.19	22.18	22.01	23.7	0.0	
100	PI2 BPSK	135	138	21.96	22.03	22.10	23.7	0.0	
100	PI2 BPSK	270	0	22.07	22.12	22.01			
100	QPSK	1	1	22.21	22.27	22.03			
100	QPSK	1	137	22.22	22.28	22.09	23.7	0.0	
100	QPSK	1	271	22.03	22.08	22.13			
100	QPSK	135	0	21.97	22.21	21.98			
100	QPSK	135	69	22.16	22.23	22.05	23.7	0.0	
100	QPSK	135	138	22.03	22.08	22.10	23.7	0.0	
100	QPSK	270	0	22.17	22.21	22.04			
100	16QAM	1	1	22.08	22.16	22.05	23.7	0.0	
100	64QAM	1	1	21.95	22.03	21.98	23.7	0.0	
100	256QAM	1	1	21.26	21.33	21.29	22.5	1.2	
Channel				649668	650000	662934	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.92	22.03	21.98	23.7	0.0	
Channel				649334	650000	662968	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.98	22.01	21.94	23.7	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.88	21.98	21.92	23.7	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.97	22.10	21.96	23.7	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.90	22.05	22.02	23.7	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3720	3840	3950			
40	QPSK	1	1	21.90	22.00	22.01	23.7	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.92	22.08	21.93	23.7	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.94	22.07	21.92	23.7	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.94	22.03	21.98	23.7	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.93	21.99	21.92	23.7	0.0	

Part270 n78 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		18.87		20.7	0.0	
100	PI2 BPSK	1	137		18.79				
100	PI2 BPSK	1	271		18.84				
100	PI2 BPSK	135	0		18.80		20.7	0.0	
100	PI2 BPSK	135	69		18.86		20.7	0.0	
100	PI2 BPSK	135	138		18.73		20.7	0.0	
100	PI2 BPSK	270	0		18.74				
100	QPSK	1	1		18.92				
100	QPSK	1	137		18.91		20.7	0.0	
100	QPSK	1	271		18.71		20.7	0.0	
100	QPSK	135	0		18.77				
100	QPSK	135	69		18.89				
100	QPSK	135	138		18.79		20.7	0.0	
100	QPSK	270	0		18.82		20.7	0.0	
100	16QAM	1	1		18.82				
100	64QAM	1	1		18.71				
100	256QAM	1	1		18.32		19.5	1.2	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3750.01			
90	QPSK	1	1	18.79	18.73	18.80	20.7	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.72	18.75	18.71	20.7	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.74	18.74	18.71	20.7	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.77	18.77	18.79	20.7	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.72	18.72	18.74	20.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.77	18.73	18.74	20.7	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.73	18.72	18.73	20.7	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.73	18.77	18.78	20.7	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	18.71	18.71	18.77	20.7	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.75	18.73	18.80	20.7	0.0	

Part270 n78 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		21.93		23.7	0.0	
100	PI2 BPSK	1	137		22.04				
100	PI2 BPSK	1	271		21.83				
100	PI2 BPSK	135	0		21.88		23.7	0.0	
100	PI2 BPSK	135	69		21.96		23.7	0.0	
100	PI2 BPSK	135	138		21.82		23.7	0.0	
100	PI2 BPSK	270	0		21.87				
100	QPSK	1	1		22.07				
100	QPSK	1	137		22.01		23.7	0.0	
100	QPSK	1	271		21.90		23.7	0.0	
100	QPSK	135	0		21.98				
100	QPSK	135	69		22.08				
100	QPSK	135	138		21.82		23.7	0.0	
100	QPSK	270	0		22.04		23.7	0.0	
100	16QAM	1	1		22.01				
100	64QAM	1	1		21.78				
100	256QAM	1	1		21.50		22.5	1.2	
Channel				649688	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	21.76	21.86	21.71	23.7	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.79	21.84	21.81	23.7	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.78	21.79	21.71	23.7	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	21.73	21.77	21.74	23.7	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	21.71	21.85	21.72	23.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.76	21.85	21.77	23.7	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	21.78	21.83	21.78	23.7	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	21.79	21.78	21.76	23.7	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	21.71	21.83	21.72	23.7	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	21.78	21.82	21.79	23.7	0.0	



n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.18	23.23	23.13		
20	PI2 BPSK	1	53	23.04	23.14	23.06	23.5	0.5
20	PI2 BPSK	1	104	22.98	23.08	22.94		
20	PI2 BPSK	50	0	22.65	22.76	22.73		
20	PI2 BPSK	50	28	23.08	23.18	23.11	24.0	0.0
20	PI2 BPSK	50	58	22.59	22.64	22.51		
20	PI2 BPSK	100	0	22.66	22.70	22.63		
20	QPSK	1	1	23.23	23.27	23.16	24.0	0.0
20	QPSK	1	53	23.11	23.18	23.13		
20	QPSK	1	104	22.96	23.08	22.96		
20	QPSK	50	0	22.14	22.25	22.21	23.0	1.0
20	QPSK	50	28	23.15	23.21	23.08		
20	QPSK	50	58	22.14	22.18	22.06		
20	QPSK	100	0	22.17	22.23	22.13	23.0	1.0
20	16QAM	1	1	22.35	22.48	22.42		
20	64QAM	1	1	20.73	20.86	20.79		
20	256QAM	1	1	18.89	19.01	18.96	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0
15	QPSK	1	1	23.11	23.18	23.08		
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	833.5	838	23.0	0.0
10	QPSK	1	1	23.13	23.15	23.02		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0
5	QPSK	1	1	23.17	23.23	23.04		

n7 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000	23.0	0.0
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	21.80	21.91	21.85		
40	PI2 BPSK	1	108	21.74	21.80	21.81	22.5	0.5
40	PI2 BPSK	1	214	21.74	21.80	21.68		
40	PI2 BPSK	108	0	21.38	21.44	21.37		
40	PI2 BPSK	108	54	21.79	21.87	21.75	23.0	0.0
40	PI2 BPSK	108	108	21.38	21.49	21.37		
40	PI2 BPSK	216	0	21.39	21.42	21.34		
40	QPSK	1	1	21.92	21.96	21.89	23.0	0.0
40	QPSK	1	108	21.78	21.92	21.82		
40	QPSK	1	214	21.74	21.85	21.68		
40	QPSK	108	0	20.87	20.97	20.87	22.0	1.0
40	QPSK	108	54	21.86	21.90	21.85		
40	QPSK	108	108	20.80	20.89	20.80		
40	QPSK	216	0	20.81	20.94	20.84	22.0	1.0
40	16QAM	1	1	20.73	20.86	20.77		
40	64QAM	1	1	19.27	19.41	19.38		
40	256QAM	1	1	17.30	17.38	17.23	18.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	23.0	0.0
30	QPSK	1	1	21.77	21.88	21.80		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	23.0	0.0
25	QPSK	1	1	21.81	21.83	21.75		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	23.0	0.0
20	PI2 BPSK	1	1	21.88	21.92	21.75		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	23.0	0.0
15	QPSK	1	1	21.80	21.90	21.75		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	23.0	0.0
10	QPSK	1	1	21.88	21.84	21.78		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	23.0	0.0
5	QPSK	1	1	21.83	21.88	21.70		

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.14	22.27	22.17		
40	PI2 BPSK	1	108	22.07	22.22	22.11	22.5	0.5
40	PI2 BPSK	1	214	22.08	22.16	22.12		
40	PI2 BPSK	108	0	21.68	21.86	21.82		
40	PI2 BPSK	108	54	22.02	22.20	22.13	23.0	0.0
40	PI2 BPSK	108	108	21.89	21.81	21.78		
40	PI2 BPSK	216	0	21.74	21.94	21.85		
40	QPSK	1	1	22.23	22.35	22.31	23.0	0.0
40	QPSK	1	108	22.04	22.26	22.14		
40	QPSK	1	214	22.02	22.21	22.07		
40	QPSK	108	0	21.13	21.38	21.24	22.0	1.0
40	QPSK	108	54	22.15	22.29	22.24		
40	QPSK	108	108	21.24	21.48	21.35		
40	QPSK	216	0	21.26	21.43	21.29	22.0	1.0
40	16QAM	1	1	20.38	21.11	21.01		
40	64QAM	1	1	19.87	19.93	19.81		
40	256QAM	1	1	17.59	17.85	17.73	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	22.11	22.27	22.20		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	23.0	0.0
20	QPSK	1	1	22.16	22.31	22.24		
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	22.16	22.28	22.24		
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	22.19	22.22	22.17		
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	22.16	22.29	22.21		



n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	21.54	21.76	21.72	23.0	0.0	
40	PV2 BPSK	1	53	21.64	21.72	21.66			
40	PV2 BPSK	1	104	21.44	21.61	21.52			
40	PV2 BPSK	50	0	20.90	21.01	20.98			
40	PV2 BPSK	50	28	21.50	21.75	21.50	23.0	0.0	
40	PV2 BPSK	50	56	20.91	21.03	21.00	22.5	0.5	
40	PV2 BPSK	100	0	20.90	21.02	21.01			
40	QPSK	1	1	21.79	21.83	21.82			
40	QPSK	1	53	21.55	21.71	21.61			
40	QPSK	1	104	21.45	21.76	21.62	22.0	1.0	
40	QPSK	50	0	20.51	20.73	20.55			
40	QPSK	50	28	21.62	21.76	21.68			
40	QPSK	50	56	20.48	20.62	20.54			
40	QPSK	100	0	20.57	20.66	20.58	22.0	1.0	
40	16QAM	1	1	20.46	20.65	20.53			
40	64QAM	1	1	19.09	19.28	19.14			
40	256QAM	1	1	17.21	17.44	17.34			
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	21.74	21.76	21.75	23.0	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.35	2595	2607.48			
25	QPSK	1	1	21.70	21.69	21.69	23.0	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.65	21.70	21.70	23.0	0.0	
Channel				515000	519000	522496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.71	21.73	21.72	23.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2625.10	2595	2614.98			
10	QPSK	1	1	21.65	21.69	21.67	23.0	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508002	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	21.70	21.82	21.78	23.0	0.0	
100	PV2 BPSK	1	137	21.72	21.77	21.68			
100	PV2 BPSK	1	271	21.60	21.71	21.57			
100	PV2 BPSK	135	0	20.06	20.17	20.08		22.5	
100	PV2 BPSK	135	69	21.67	21.74	21.62	23.0	0.0	
100	PV2 BPSK	135	138	20.26	20.33	20.25	22.5	0.5	
100	PV2 BPSK	270	0	20.12	20.24	20.17			
100	QPSK	1	1	21.74	21.86	21.81			
100	QPSK	1	137	21.71	21.80	21.73		23.0	
100	QPSK	1	271	21.67	21.73	21.70	22.0	1.0	
100	QPSK	135	0	20.41	20.47	20.40			
100	QPSK	135	69	21.69	21.76	21.75		23.0	
100	QPSK	135	138	20.41	20.50	20.41		22.0	
100	QPSK	270	0	20.45	20.56	20.47	22.0	1.0	
100	16QAM	1	1	20.48	20.54	20.49			
100	64QAM	1	1	18.91	18.97	18.92		20.5	
100	256QAM	1	1	17.61	18.68	18.68		18.5	
Channel				508000	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	21.61	21.69	21.59	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	21.59	21.68	21.70	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.68	21.73	21.60	23.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.62	21.65	21.68	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	21.61	21.67	21.62	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.65	21.73	21.65	23.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.58	21.66	21.61	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.57	21.65	21.66	23.0	0.0	

n41 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	24.81	24.88	24.78	26.0	0.0	
100	PV2 BPSK	1	137	24.72	24.81	24.76			
100	PV2 BPSK	1	271	24.71	24.75	24.64			
100	PV2 BPSK	135	0	24.37	24.43	24.39		25.5	
100	PV2 BPSK	135	69	24.73	24.80	24.72	26.0	0.0	
100	PV2 BPSK	135	138	24.43	24.47	24.38	25.5	0.5	
100	PV2 BPSK	270	0	24.45	24.51	24.38			
100	QPSK	1	1	24.84	24.92	24.89			
100	QPSK	1	137	24.72	24.85	24.82		26.0	
100	QPSK	1	271	24.67	24.79	24.66	25.0	1.0	
100	QPSK	135	0	23.92	24.01	23.88			
100	QPSK	135	69	24.76	24.86	24.78		26.0	
100	QPSK	135	138	23.98	24.01	23.98		25.0	
100	QPSK	270	0	24.04	24.06	24.01	25.0	1.0	
100	16QAM	1	1	24.08	24.13	24.10			
100	64QAM	1	1	22.14	22.28	22.10		23.5	
100	256QAM	1	1	20.21	20.35	20.29		21.5	
Channel				506000	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	24.71	24.86	24.81	26.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.02	2592.99	2643.99			
80	QPSK	1	1	24.77	24.85	24.85	26.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	24.73	24.82	24.76	26.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	24.70	24.86	24.80	26.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	24.74	24.83	24.83	26.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.72	24.87	24.83	26.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.80	24.79	24.76	26.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2499.99	2592.99	2679.99			
20	QPSK	1	1	24.75	24.85	24.77	26.0	0.0	

Part270 n77 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.24	20.37	20.28	21.0	0.0	
100	PI2 BPSK	1	137	20.20	20.33	20.22			
100	PI2 BPSK	1	271	20.15	20.28	20.22			
100	PI2 BPSK	135	0	18.72	18.78	18.74	20.5	0.5	
100	PI2 BPSK	135	69	20.22	20.31	20.19	21.0	0.0	
100	PI2 BPSK	135	138	18.63	18.76	18.67	20.5	0.5	
100	PI2 BPSK	270	0	18.80	18.88	18.80			
100	QPSK	1	1	20.37	20.43	20.31	21.0	0.0	
100	QPSK	1	137	20.19	20.35	20.25			
100	QPSK	1	271	20.13	20.31	20.20			
100	QPSK	135	0	18.84	18.97	18.83	20.0	1.0	
100	QPSK	135	69	20.20	20.38	20.27	21.0	0.0	
100	QPSK	135	138	18.84	18.96	18.81	20.0	1.0	
100	QPSK	270	0	18.91	19.02	18.86			
100	16QAM	1	1	18.60	18.68	18.60	20.0	1.0	
100	64QAM	1	1	17.49	17.65	17.53	18.5	2.5	
100	256QAM	1	1	15.22	15.32	15.26	16.5	4.5	
Channel				649668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.26	20.38	20.30	21.0	0.0	
Channel				649334	650000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.19	20.29	20.31	21.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.23	20.38	20.32	21.0	0.0	
Channel				648666	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.19	20.28	20.30	21.0	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.28	20.37	20.25	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.24	20.30	20.31	21.0	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	20.20	20.28	20.26	21.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.22	20.28	20.24	21.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.16	20.35	20.30	21.0	0.0	
Channel				647000	658000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.28	20.34	20.28	21.0	0.0	

Part270 n77 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq. 650000	Power Middle Ch./ Freq. 656000	Power High Ch./ Freq. 662000	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.33	23.39	23.29	24.0	0.0	
100	PI2 BPSK	1	137	23.23	23.33	23.26			
100	PI2 BPSK	1	271	23.14	23.27	23.23			
100	PI2 BPSK	135	0	22.79	22.88	22.84	23.5	0.5	
100	PI2 BPSK	135	69	23.28	23.34	23.20	24.0	0.0	
100	PI2 BPSK	135	138	22.86	22.90	22.79	23.5	0.5	
100	PI2 BPSK	270	0	22.88	22.94	22.82			
100	QPSK	1	1	23.36	23.42	23.32	24.0	0.0	
100	QPSK	1	137	23.28	23.35	23.25			
100	QPSK	1	271	23.21	23.31	23.22			
100	QPSK	135	0	22.21	22.34	22.26	23.0	1.0	
100	QPSK	135	69	23.22	23.38	23.26	24.0	0.0	
100	QPSK	135	138	22.34	22.39	22.34	23.0	1.0	
100	QPSK	270	0	22.32	22.45	22.39			
100	16QAM	1	1	22.46	22.57	22.51	23.0	1.0	
100	64QAM	1	1	20.74	20.88	20.77	21.5	2.5	
100	256QAM	1	1	18.58	18.67	18.63	19.5	4.5	
Channel				649668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dbm)	(db)	
90	QPSK	1	1	23.28	23.35	23.24	24.0	0.0	
Channel				649334	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dbm)	(db)	
80	QPSK	1	1	23.11	23.34	23.27	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dbm)	(db)	
70	QPSK	1	1	23.29	23.37	23.29	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dbm)	(db)	
60	QPSK	1	1	23.26	23.38	23.18	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dbm)	(db)	
50	QPSK	1	1	23.25	23.28	23.27	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dbm)	(db)	
40	QPSK	1	1	23.29	23.30	23.19	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dbm)	(db)	
30	QPSK	1	1	23.24	23.38	23.19	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dbm)	(db)	
20	QPSK	1	1	23.31	23.28	23.25	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dbm)	(db)	
15	QPSK	1	1	23.31	23.32	23.21	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dbm)	(db)	
10	QPSK	1	1	23.28	23.29	23.25	24.0	0.0	

Part270 n78 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		20.31		21.0	0.0	
100	PI2 BPSK	1	137		20.27				
100	PI2 BPSK	1	271		20.22				
100	PI2 BPSK	135	0		19.13		20.5	0.5	
100	PI2 BPSK	135	69		20.25		21.0	0.0	
100	PI2 BPSK	135	138		19.01		20.5	0.5	
100	PI2 BPSK	270	0		19.07				
100	QPSK	1	1		20.35		21.0	0.0	
100	QPSK	1	137		20.30				
100	QPSK	1	271		20.17				
100	QPSK	135	0		19.82		20.0	1.0	
100	QPSK	135	69		20.29		21.0	0.0	
100	QPSK	135	138		18.67		20.0	1.0	
100	QPSK	270	0		18.72				
100	16QAM	1	1		18.84		20.0	1.0	
100	64QAM	1	1		17.58		18.5	2.5	
100	256QAM	1	1		15.33		16.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	20.19	20.24	20.14
90	QPSK	1	1		20.19	20.24	20.14	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.02	20.23	20.25	20.11
80	QPSK	1	1		20.23	20.26	20.11	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	20.15	20.25	20.13
70	QPSK	1	1		20.15	20.28	20.18	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	20.19	20.25	20.13
60	QPSK	1	1		20.19	20.25	20.13	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	20.20	20.25	20.19
50	QPSK	1	1		20.24	20.27	20.13	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	20.20	20.25	20.19
40	QPSK	1	1		20.20	20.28	20.19	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	20.27	20.30	20.08
30	QPSK	1	1		20.27	20.30	20.08	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	20.25	20.24	20.08
20	QPSK	1	1		20.25	20.24	20.08	21.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	20.22	20.27	20.19
15	QPSK	1	1		20.22	20.27	20.19	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	20.16	20.23	20.20
10	QPSK	1	1		20.16	20.23	20.20	21.0	0.0

Part270 n78 HPUE Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.17		24.0	0.0	
100	PI2 BPSK	1	137		23.08				
100	PI2 BPSK	1	271		23.02				
100	PI2 BPSK	135	0		22.52		23.5	0.5	
100	PI2 BPSK	135	69		23.09		24.0	0.0	
100	PI2 BPSK	135	138		22.46		23.5	0.5	
100	PI2 BPSK	270	0		22.53				
100	QPSK	1	1		23.21		24.0	0.0	
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.04				
100	QPSK	135	0		22.01		23.0	1.0	
100	QPSK	135	69		23.14		24.0	0.0	
100	QPSK	135	138		21.95		23.0	1.0	
100	QPSK	270	0		22.02				
100	16QAM	1	1		22.03		23.0	1.0	
100	64QAM	1	1		20.85		21.5	2.5	
100	256QAM	1	1		18.88		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01	23.11	23.15	23.05
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02	23.09	23.10	23.02
80	QPSK	1	1		23.09	23.18	23.02	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765	23.13	23.16	23.07
70	QPSK	1	1		23.13	23.18	22.97	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01	23.12	23.08	22.98
60	QPSK	1	1		23.12	23.08	22.98	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02	23.05	23.08	22.94
50	QPSK	1	1		23.05	23.08	22.94	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780	23.12	23.06	23.04
40	QPSK	1	1		23.12	23.06	23.04	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01	23.11	23.17	23.03
30	QPSK	1	1		23.11	23.17	23.03	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02	23.11	23.15	23.00
20	QPSK	1	1		23.09	23.14	23.01	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51	23.11	23.15	23.00
15	QPSK	1	1		23.11	23.18	23.00	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795	23.09	23.16	22.94
10	QPSK	1	1		23.09	23.16	22.94	24.0	0.0



n5 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166800	Power Middle Ch. Freq. 167300	Power High Ch. Freq. 167800	Tune-up limit (dBm)	MPR (db)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	21.69	21.83	21.79	23.0	0.0	
20	PI2 BPSK	1	53	21.73	21.78	21.87			
20	PI2 BPSK	1	104	21.81	21.70	21.68			
20	PI2 BPSK	50	0	21.34	21.41	21.34	22.5	0.5	
20	PI2 BPSK	50	28	21.67	21.79	21.75	23.0	0.0	
20	PI2 BPSK	50	56	21.24	21.34	21.20	22.5	0.5	
20	PI2 BPSK	100	0	21.35	21.40	21.28			
20	QPSK	1	1	21.83	21.89	21.76			
20	QPSK	1	53	21.71	21.82	21.70	23.0	0.0	
20	QPSK	1	104	21.65	21.76	21.61	22.0	1.0	
20	QPSK	50	0	20.79	20.87	20.76			
20	QPSK	50	28	21.68	21.81	21.76			
20	QPSK	50	56	20.70	20.84	20.75	22.0	1.0	
20	QPSK	100	0	20.77	20.90	20.80			
20	16QAM	1	1	21.22	21.28	21.13	22.0	1.0	
20	64QAM	1	1	19.46	19.57	19.45	20.5	2.5	
20	256QAM	1	1	17.39	17.51	17.41	18.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	21.72	21.78	21.64	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	21.76	21.81	21.66	23.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.77	21.84	21.69	23.0	0.0	

n7 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 504000	Power Middle Ch. Freq. 507000	Power High Ch. Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2520	2535	2550			
Frequency (MHz)									
40	PI2 BPSK	1	1	22.80	22.86	22.80	23.9	0.0	
40	PI2 BPSK	1	108	22.71	22.81	22.69			
40	PI2 BPSK	1	214	22.70	22.77	22.73			
40	PI2 BPSK	108	0	22.37	22.44	22.37	23.5	0.4	
40	PI2 BPSK	108	54	22.66	22.79	22.65	23.9	0.0	
40	PI2 BPSK	108	108	22.29	22.41	22.38	23.5	0.4	
40	PI2 BPSK	216	0	22.37	22.46	22.41			
40	QPSK	1	1	22.88	22.93	22.84			
40	QPSK	1	108	22.80	22.88	22.75	23.9	0.0	
40	QPSK	1	214	22.74	22.83	22.73	23.0	0.9	
40	QPSK	108	0	21.94	22.01	21.97			
40	QPSK	108	54	22.80	22.87	22.82			
40	QPSK	108	108	22.00	22.05	21.94	23.0	0.9	
40	QPSK	216	0	22.06	22.13	22.06			
40	16QAM	1	1	22.12	22.18	22.05	23.0	0.9	
40	64QAM	1	1	20.55	20.59	20.52	21.5	2.4	
40	256QAM	1	1	18.52	18.67	18.59	19.5	4.4	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	22.81	22.79	22.73	23.9	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.80	22.87	22.77	23.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	22.75	22.85	22.81	23.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.74	22.81	22.73	23.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.79	22.83	22.70	23.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.74	22.88	22.80	23.9	0.0	

n66 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 346800	Power Middle Ch. Freq. 349000	Power High Ch. Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)									
40	PI2 BPSK	1	1	22.35	22.46	22.40	24.0	0.0	
40	PI2 BPSK	1	108	22.31	22.41	22.34			
40	PI2 BPSK	1	214	22.32	22.36	22.30			
40	PI2 BPSK	108	0	22.01	22.06	22.00	23.5	0.5	
40	PI2 BPSK	108	54	22.37	22.41	22.28	24.0	0.0	
40	PI2 BPSK	108	108	21.96	22.03	21.98	23.5	0.5	
40	PI2 BPSK	216	0	22.00	22.07	22.02			
40	QPSK	1	1	22.48	22.54	22.42			
40	QPSK	1	108	22.43	22.48	22.45	24.0	0.0	
40	QPSK	1	214	22.35	22.42	22.29	23.0	1.0	
40	QPSK	108	0	21.92	21.87	21.54			
40	QPSK	108	54	22.40	22.50	22.38			
40	QPSK	108	108	21.65	21.72	21.62	23.0	1.0	
40	QPSK	216	0	21.87	21.77	21.70	23.0	1.0	
40	16QAM	1	1	21.81	21.68	21.65			
40	64QAM	1	1	19.79	19.93	19.80	21.5	2.5	
40	256QAM	1	1	18.00	18.05	18.01	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.42	22.45	22.30	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.44	22.50	22.35	24.0	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.41	22.49	22.37	24.0	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.43	22.46	22.31	24.0	0.0	
Channel				342300	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.34	22.42	22.31	24.0	0.0	



n38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	22.65	22.78	22.72	24.0	0.0	
40	PV2 BPSK	1	53	22.68	22.72	22.58			
40	PV2 BPSK	1	104	22.56	22.67	22.59			
40	PV2 BPSK	50	0	21.58	21.68	21.60			
40	PV2 BPSK	50	28	22.66	22.71	22.64	23.5	0.5	
40	PV2 BPSK	50	56	21.64	21.74	21.63	23.5	0.5	
40	PV2 BPSK	100	0	21.70	21.80	21.70			
40	QPSK	1	1	22.72	22.84	22.77	24.0	0.0	
40	QPSK	1	53	22.68	22.79	22.65			
40	QPSK	1	104	22.63	22.79	22.63			
40	QPSK	50	0	21.72	21.78	21.68			
40	QPSK	50	28	22.72	22.78	22.71	24.0	0.0	
40	QPSK	50	56	21.74	21.85	21.72	24.0	1.0	
40	QPSK	100	0	21.76	21.86	21.84			
40	16QAM	1	1	21.60	21.72	21.62	23.0	1.0	
40	64QAM	1	1	20.36	20.48	20.35	21.5	2.5	
40	256QAM	1	1	18.26	18.31	18.24	19.5	4.5	
Channel				519002	519000	520098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	22.66	22.72	22.68	24.0	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.57	2595	2607.48			
25	QPSK	1	1	22.64	22.70	22.63	24.0	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.63	22.80	22.71	24.0	0.0	
Channel				518500	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.69	22.76	22.65	24.0	0.0	
Channel				518004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.97	2595	2614.98			
10	QPSK	1	1	22.82	22.74	22.69	24.0	0.0	

n41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	22.84	22.90	22.78	23.9	0.0	
100	PV2 BPSK	1	137	22.72	22.85	22.81			
100	PV2 BPSK	1	271	22.73	22.81	22.67			
100	PV2 BPSK	135	0	21.53	21.54	21.60			
100	PV2 BPSK	135	69	22.71	22.83	22.71	23.5	0.4	
100	PV2 BPSK	135	138	21.52	21.62	21.57	23.5	0.4	
100	PV2 BPSK	270	0	21.63	21.68	21.57			
100	QPSK	1	1	22.93	22.97	22.88	23.9	0.0	
100	QPSK	1	137	22.85	22.92	22.80			
100	QPSK	1	271	22.84	22.98	22.83			
100	QPSK	135	0	21.63	21.73	21.69			
100	QPSK	135	69	22.84	22.91	22.76	23.9	0.0	
100	QPSK	135	138	21.69	21.80	21.71	23.0	0.9	
100	QPSK	270	0	21.83	21.89	21.75			
100	16QAM	1	1	21.80	21.82	21.75	23.0	0.9	
100	64QAM	1	1	20.56	20.69	20.55	21.5	2.4	
100	256QAM	1	1	18.46	18.51	18.44	19.5	4.4	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	22.82	22.89	22.85	23.9	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2630.02	2592.99	2643.99			
80	QPSK	1	1	22.12	22.88	22.84	23.9	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.79	22.92	22.85	23.9	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	22.79	22.93	22.84	23.9	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.98	2645.98			
50	QPSK	1	1	22.79	22.84	22.79	23.9	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	22.84	22.89	22.83	23.9	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.88	22.94	22.75	23.9	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.84	22.90	22.77	23.9	0.0	

n41 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508200	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.82	25.96	25.89	26.9	0.0	
100	PV2 BPSK	1	137	25.85	25.92	25.83			
100	PV2 BPSK	1	271	25.76	25.86	25.75			
100	PV2 BPSK	135	0	25.34	25.44	25.38			
100	PV2 BPSK	135	69	25.87	25.91	25.87	26.9	0.4	
100	PV2 BPSK	135	138	25.35	25.39	25.24	26.5	0.4	
100	PV2 BPSK	270	0	25.36	25.42	25.28			
100	QPSK	1	1	25.88	26.01	25.91	26.9	0.0	
100	QPSK	1	137	25.87	25.95	25.87			
100	QPSK	1	271	25.79	25.89	25.76			
100	QPSK	135	0	24.97	25.04	24.92			
100	QPSK	135	69	25.82	25.96	25.87	26.9	0.0	
100	QPSK	135	138	25.18	25.22	25.18	26.0	0.9	
100	QPSK	270	0	25.18	25.27	25.13			
100	16QAM	1	1	24.84	24.95	24.82	26.0	0.9	
100	64QAM	1	1	23.93	24.00	23.85	24.5	2.4	
100	256QAM	1	1	21.80	21.68	21.63	22.5	4.4	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	25.88	25.97	25.86	26.9	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.02	2592.99	2643.99			
80	QPSK	1	1	25.91	25.89	25.84	26.9	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	25.84	25.87	25.77	26.9	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	25.84	25.95	25.83	26.9	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2645.98			
50	QPSK	1	1	25.88	25.93	25.77	26.9	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	25.82	25.88	25.76	26.9	0.0	
Channel				502202	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	25.90	25.88	25.81	26.9	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2604.02	2592.99	2679.98			
20	QPSK	1	1	25.92	25.90	25.79	26.9	0.0	

Part270 n77 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	24.0	0.0	
Frequency (MHz)				23.12	23.17	23.05			
100	PI2 BPSK	1	1	23.03	23.12	23.01			
100	PI2 BPSK	1	137	23.03	23.08	22.94			
100	PI2 BPSK	135	0	21.59	21.61	21.54	23.5	0.5	
100	PI2 BPSK	135	69	23.09	23.13	22.98	24.0	0.0	
100	PI2 BPSK	135	138	21.54	21.63	21.48	23.5	0.5	
100	PI2 BPSK	270	0	21.58	21.67	21.49	23.5	0.5	
100	QPSK	1	1	23.18	23.24	23.09	24.0	0.0	
100	QPSK	1	137	23.19	23.21	23.12			
100	QPSK	1	271	23.17	23.17	23.02			
100	QPSK	135	0	21.53	21.83	21.54	23.0	1.0	
100	QPSK	135	69	23.17	23.19	23.07	24.0	0.0	
100	QPSK	135	138	21.51	21.83	21.50	23.0	1.0	
100	QPSK	270	0	21.62	21.67	21.52	23.0	1.0	
100	16QAM	1	1	21.58	21.66	21.52	23.0	1.0	
100	64QAM	1	1	20.14	20.23	20.12	21.5	2.5	
100	256QAM	1	1	18.22	18.32	18.18	19.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	23.08	23.11	22.94	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	23.00	23.10	22.94	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	23.01	23.07	22.89	24.0	0.0	
Channel				648666	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	23.11	23.16	22.99	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	23.04	23.13	23.00	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	23.09	23.11	22.99	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	23.03	23.16	22.99	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	23.04	23.17	23.00	24.0	0.0	
Channel				647000	656000	664934	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	23.00	23.14	22.93	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	23.03	23.08	22.98	24.0	0.0	

Part270 n77 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	27.0	0.0	
Frequency (MHz)				25.98	26.10	26.03			
100	PI2 BPSK	1	1	25.95	26.07	25.93			
100	PI2 BPSK	1	271	25.94	26.01	25.98			
100	PI2 BPSK	135	0	25.42	25.51	25.37	26.5	0.5	
100	PI2 BPSK	135	69	25.96	26.00	25.90	27.0	0.0	
100	PI2 BPSK	135	138	25.48	25.58	25.51	26.5	0.5	
100	PI2 BPSK	270	0	25.54	25.61	25.48	26.5	0.5	
100	QPSK	1	1	26.07	26.17	26.12	27.0	0.0	
100	QPSK	1	137	26.01	26.11	26.03			
100	QPSK	1	271	26.07	26.06	25.98			
100	QPSK	135	0	25.05	25.09	24.98	26.0	1.0	
100	QPSK	135	69	26.03	26.12	26.04	27.0	0.0	
100	QPSK	135	138	24.97	25.04	24.96	26.0	1.0	
100	QPSK	270	0	25.05	25.11	25.02	26.0	1.0	
100	16QAM	1	1	25.00	25.14	25.04	26.0	1.0	
100	64QAM	1	1	23.82	23.87	23.53	24.5	2.5	
100	256QAM	1	1	21.56	21.69	21.62	22.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	25.94	26.10	26.06	27.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	25.01	26.03	25.99	27.0	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	26.02	26.13	26.03	27.0	0.0	
Channel				648666	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	25.95	26.06	26.07	27.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	26.04	26.12	26.01	27.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	26.00	26.04	26.07	27.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	25.97	26.11	26.09	27.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	25.99	26.12	26.05	27.0	0.0	
Channel				647000	656000	664934	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	26.02	26.02	26.01	27.0	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	25.98	26.03	26.01	27.0	0.0	

Part270 n78 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		23.05		24.0	0.0	
100	PI2 BPSK	1	137		22.99				
100	PI2 BPSK	1	271		22.92				
100	PI2 BPSK	135	0		21.54		23.5	0.5	
100	PI2 BPSK	135	69		22.97		24.0	0.0	
100	PI2 BPSK	135	138		21.58		23.5	0.5	
100	PI2 BPSK	270	0		21.60				
100	QPSK	1	1		23.13		24.0	0.0	
100	QPSK	1	137		23.02				
100	QPSK	1	271		22.96				
100	QPSK	135	0		21.54		23.0	1.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		21.48		23.0	1.0	
100	QPSK	270	0		21.53				
100	16QAM	1	1		21.89		23.0	1.0	
100	64QAM	1	1		19.94		21.5	2.5	
100	256QAM	1	1		18.07		19.5	4.5	
Channel				649668	650000	650334		MPR	
Frequency (MHz)				3745.02	3750	3755.01		Tune-up limit (dBm)	
90	QPSK	1	1		23.01	23.03	22.94	24.0	0.0
Channel				649334	650000	650668		MPR	
Frequency (MHz)				3740.01	3750	3760.02		Tune-up limit (dBm)	
80	QPSK	1	1		22.94	23.00	22.94	24.0	0.0
Channel				649000	650000	651000		Tune-up limit (dBm)	
Frequency (MHz)				3735	3750	3765		MPR	
70	QPSK	1	1		22.94	23.09	22.93	24.0	0.0
Channel				648668	650000	651334		Tune-up limit (dBm)	
Frequency (MHz)				3730.02	3750	3770.01		MPR	
60	QPSK	1	1		22.94	23.01	22.87	24.0	0.0
Channel				648334	650000	651668		Tune-up limit (dBm)	
Frequency (MHz)				3725.01	3750	3775.02		MPR	
50	QPSK	1	1		23.02	23.05	22.94	24.0	0.0
Channel				648000	650000	652000		Tune-up limit (dBm)	
Frequency (MHz)				3720	3750	3780		MPR	
40	QPSK	1	1		23.00	23.02	22.89	24.0	0.0
Channel				647668	650000	652334		Tune-up limit (dBm)	
Frequency (MHz)				3715.02	3750	3785.01		MPR	
30	QPSK	1	1		22.96	22.98	22.89	24.0	0.0
Channel				647334	650000	652668		Tune-up limit (dBm)	
Frequency (MHz)				3710.01	3750	3790.02		MPR	
20	QPSK	1	1		23.00	23.04	22.87	24.0	0.0
Channel				647168	650000	652834		Tune-up limit (dBm)	
Frequency (MHz)				3707.52	3750	3792.51		MPR	
15	QPSK	1	1		23.00	23.08	22.93	24.0	0.0
Channel				647000	650000	653000		Tune-up limit (dBm)	
Frequency (MHz)				3705	3750	3795		MPR	
10	QPSK	1	1		22.98	23.07	22.87	24.0	0.0

Part270 n78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		26.08		27.0	0.0	
100	PI2 BPSK	1	137		26.05				
100	PI2 BPSK	1	271		25.99				
100	PI2 BPSK	135	0		25.50		26.5	0.5	
100	PI2 BPSK	135	69		26.00		27.0	0.0	
100	PI2 BPSK	135	138		25.30		26.5	0.5	
100	PI2 BPSK	270	0		25.48				
100	QPSK	1	1		26.15		27.0	0.0	
100	QPSK	1	137		26.08				
100	QPSK	1	271		26.02				
100	QPSK	135	0		25.00		26.0	1.0	
100	QPSK	135	69		26.09		27.0	0.0	
100	QPSK	135	138		24.95		26.0	1.0	
100	QPSK	270	0		24.99				
100	16QAM	1	1		25.29		26.0	1.0	
100	64QAM	1	1		23.83		24.5	2.5	
100	256QAM	1	1		21.76		22.5	4.5	
Channel				649668	650000	650334		MPR	
Frequency (MHz)				3745.02	3750	3755.01		Tune-up limit (dBm)	
90	QPSK	1	1		25.95	26.11	25.96	27.0	0.0
Channel				649334	650000	650668		MPR	
Frequency (MHz)				3740.01	3750	3760.02		Tune-up limit (dBm)	
80	QPSK	1	1		25.94	26.05	25.94	27.0	0.0
Channel				649000	650000	651000		Tune-up limit (dBm)	
Frequency (MHz)				3735	3750	3765		MPR	
70	QPSK	1	1		26.02	26.09	25.93	27.0	0.0
Channel				648668	650000	651334		Tune-up limit (dBm)	
Frequency (MHz)				3730.02	3750	3770.01		MPR	
60	QPSK	1	1		25.93	26.10	25.94	27.0	0.0
Channel				648334	650000	651668		Tune-up limit (dBm)	
Frequency (MHz)				3725.01	3750	3775.02		MPR	
50	QPSK	1	1		25.96	26.04	25.96	27.0	0.0
Channel				648000	650000	652000		Tune-up limit (dBm)	
Frequency (MHz)				3720	3750	3780		MPR	
40	QPSK	1	1		26.01	26.05	25.89	27.0	0.0
Channel				647668	650000	652334		Tune-up limit (dBm)	
Frequency (MHz)				3715.02	3750	3785.01		MPR	
30	QPSK	1	1		25.94	26.01	25.97	27.0	0.0
Channel				647334	650000	652668		Tune-up limit (dBm)	
Frequency (MHz)				3710.01	3750	3790.02		MPR	
20	QPSK	1	1		25.98	26.03	25.93	27.0	0.0
Channel				647168	650000	652834		Tune-up limit (dBm)	
Frequency (MHz)				3707.52	3750	3792.51		MPR	
15	QPSK	1	1		25.94	26.07	25.98	27.0	0.0
Channel				647000	650000	653000		Tune-up limit (dBm)	
Frequency (MHz)				3705	3750	3795		MPR	
10	QPSK	1	1		25.97	26.10	25.93	27.0	0.0



n7 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2530	2535	2550	22.0	0.0
Frequency (MHz)				2530	2535	2550		
40	PI/2 BPSK	1	1	20.79	20.84	20.60		
40	PI/2 BPSK	1	108	20.55	20.73	20.51		
40	PI/2 BPSK	1	214	20.58	20.68	20.45	22.0	0.0
40	PI/2 BPSK	108	0	20.82	20.84	20.71		
40	PI/2 BPSK	108	54	20.78	20.78	20.68		
40	PI/2 BPSK	108	108	20.57	20.70	20.55		
40	PI/2 BPSK	216	0	20.57	20.63	20.47	22.0	0.0
40	QPSK	1	1	20.86	20.63	20.75		
40	QPSK	1	108	20.68	20.85	20.64		
40	QPSK	1	214	20.69	20.85	20.68		
40	QPSK	108	0	20.65	20.69	20.52	22.0	0.0
40	QPSK	108	54	20.74	20.75	20.57		
40	QPSK	108	108	20.67	20.70	20.59		
40	QPSK	216	0	20.57	20.72	20.55		
40	16QAM	1	1	20.62	20.73	20.58	22.0	0.5
40	64QAM	1	1	20.68	20.77	20.50		
40	256QAM	1	1	18.98	19.05	18.88		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.78	20.85	20.60		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2537.5		
25	QPSK	1	1	20.73	20.81	20.60		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	20.77	20.86	20.65		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.80	20.84	20.65		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.77	20.85	20.64		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.77	20.77	20.63		

n66 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1760	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.43	23.51	23.47		
40	PI/2 BPSK	1	108	23.38	23.47	23.38		
40	PI/2 BPSK	1	214	23.38	23.44	23.40	23.5	0.5
40	PI/2 BPSK	108	0	22.89	23.04	23.00		
40	PI/2 BPSK	108	54	23.44	23.48	23.43		
40	PI/2 BPSK	108	108	23.02	23.08	23.02		
40	PI/2 BPSK	216	0	23.01	23.13	23.02	23.5	0.5
40	QPSK	1	1	23.48	23.58	23.51		
40	QPSK	1	108	23.38	23.52	23.39		
40	QPSK	1	214	23.33	23.48	23.36		
40	QPSK	108	0	22.44	22.54	22.50	23.0	1.0
40	QPSK	108	54	23.39	23.50	23.40		
40	QPSK	108	108	22.34	22.47	22.41		
40	QPSK	216	0	22.42	22.51	22.43		
40	16QAM	1	1	22.45	22.58	22.47	23.0	1.0
40	64QAM	1	1	20.82	20.95	20.80		
40	256QAM	1	1	18.96	18.99	18.83		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.40	23.52	23.39		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.44	23.51	23.48		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.42	23.47	23.41		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.38	23.52	23.45		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.40	23.45	23.39		



n38 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				518004	518000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	19.85	19.96	19.85	21.3	0.0	
40	PV2 BPSK	1	53	20.04	19.89	19.74			
40	PV2 BPSK	1	104	19.97	19.89	19.74			
40	PV2 BPSK	50	0	19.87	20.01	19.87	21.3	0.0	
40	PV2 BPSK	50	28	19.89	20.10	19.89	21.3	0.0	
40	PV2 BPSK	50	56	19.87	20.11	19.84	21.3	0.0	
40	PV2 BPSK	100	0	19.84	19.93	19.76			
40	QPSK	1	1	20.07	20.18	19.94			
40	QPSK	1	53	19.98	20.09	19.94	21.3	0.0	
40	QPSK	1	104	19.97	19.83	19.76	21.3	0.0	
40	QPSK	50	0	19.91	20.02	19.90			
40	QPSK	50	28	19.90	20.07	19.92			
40	QPSK	50	56	19.83	19.91	19.86	21.3	0.0	
40	QPSK	100	0	19.84	20.05	19.98			
40	16QAM	1	1	19.90	19.95	19.88			
40	64QAM	1	1	19.91	19.94	19.76	21.3	0.0	
40	256QAM	1	1	18.55	18.63	18.57	19.5	1.8	
Channel				517002	518000	520998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	19.32	19.35	19.38	21.3	0.0	
Channel				518504	518000	521496	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2592.35	2595	2607.68			
25	QPSK	1	1	19.37	19.33	19.27	21.3	0.0	
Channel				518000	518000	522000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.32	19.37	19.40	21.3	0.0	
Channel				518000	518000	522400	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.36	19.35	19.36	21.3	0.0	
Channel				518004	518000	522996	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2625.97	2595	2614.98			
10	QPSK	1	1	19.31	19.37	19.31	24.5	0.0	

n41 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	19.98	20.03	19.97	21.3	0.0	
100	PV2 BPSK	1	137	20.09	19.99	19.80			
100	PV2 BPSK	1	271	20.08	20.01	19.90			
100	PV2 BPSK	135	0	19.98	20.12	19.91	21.3	0.0	
100	PV2 BPSK	135	69	20.00	20.17	20.00	21.3	0.0	
100	PV2 BPSK	135	138	19.96	20.18	20.04	21.3	0.0	
100	PV2 BPSK	270	0	19.90	19.98	19.83			
100	QPSK	1	1	20.19	20.23	20.00			
100	QPSK	1	137	20.03	20.17	20.04	21.3	0.0	
100	QPSK	1	271	20.08	19.95	19.91	21.3	0.0	
100	QPSK	135	0	19.96	20.10	19.94			
100	QPSK	135	69	20.01	20.17	20.00			
100	QPSK	135	138	19.91	20.02	19.78	21.3	0.0	
100	QPSK	270	0	19.97	20.16	20.06			
100	16QAM	1	1	20.00	19.99	19.80	21.3	0.0	
100	64QAM	1	1	19.94	20.01	19.84	21.3	0.0	
100	256QAM	1	1	18.42	18.49	18.35	19.5	1.8	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.87	20.00	19.80	21.3	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	19.07	20.09	19.70	21.3	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.01	20.03	19.84	21.3	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.01	20.05	19.74	21.3	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2602.98	2645.98			
50	QPSK	1	1	20.02	20.01	19.90	21.3	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.94	20.08	19.85	21.3	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.88	20.07	19.74	21.3	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.95	20.02	19.83	21.3	0.0	

n41 HPUE Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528800			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	22.88	23.02	23.03	24.3	0.0	
100	PV2 BPSK	1	137	22.94	23.03	22.95			
100	PV2 BPSK	1	271	22.82	22.99	22.93			
100	PV2 BPSK	135	0	23.01	22.94	22.86	24.3	0.0	
100	PV2 BPSK	135	69	23.00	22.86	23.00	24.3	0.0	
100	PV2 BPSK	135	138	23.00	23.02	22.92	24.3	0.0	
100	PV2 BPSK	270	0	22.86	22.98	23.01			
100	QPSK	1	1	23.02	23.07	23.03			
100	QPSK	1	137	22.89	22.87	22.88	24.3	0.0	
100	QPSK	1	271	22.94	23.05	22.94	24.3	0.0	
100	QPSK	135	0	23.01	23.00	22.99			
100	QPSK	135	69	22.86	23.04	22.90			
100	QPSK	135	138	22.85	22.85	22.83	24.3	0.0	
100	QPSK	270	0	22.86	22.91	22.82			
100	16QAM	1	1	23.01	23.00	22.85	24.3	0.0	
100	64QAM	1	1	22.99	22.94	22.95	24.3	0.0	
100	256QAM	1	1	22.21	22.29	22.16	22.5	1.8	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	22.47	22.50	22.38	24.3	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	22.45	22.41	22.33	24.3	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.43	22.31	22.41	24.3	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	22.43	22.36	22.37	24.3	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2602.98	2645.98			
50	QPSK	1	1	22.34	22.41	22.44	24.3	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.36	22.49	22.46	24.3	0.0	
Channel				502202	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.41	22.32	22.37	24.3	0.0	
Channel				501204	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2496.02	2592.99	2679.98			
20	QPSK	1	1	22.34	22.32	22.38	24.3	0.0	

Part270 n77 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				Frequency (MHz)					
				3750 3840 3930					
100	PI2 BPSK	1	1	17.82	17.97	17.95	19.2	0.0	
100	PI2 BPSK	1	137	17.89	17.90	17.79			
100	PI2 BPSK	1	271	17.72	17.90	17.74			
100	PI2 BPSK	135	0	17.92	18.06	17.95	19.2	0.0	
100	PI2 BPSK	135	69	17.95	17.90	17.83	19.2	0.0	
100	PI2 BPSK	135	138	18.04	17.90	17.83	19.2	0.0	
100	PI2 BPSK	270	0	17.75	17.98	17.80			
100	QPSK	1	1	18.12	18.19	18.13			
100	QPSK	1	137	17.98	17.99	17.88	19.2	0.0	
100	QPSK	1	271	17.98	18.11	17.91	19.2	0.0	
100	QPSK	135	0	17.87	17.92	17.83			
100	QPSK	135	69	17.93	17.90	17.88			
100	QPSK	135	138	17.89	17.95	17.73	19.2	0.0	
100	QPSK	270	0	17.81	17.89	17.88			
100	16QAM	1	1	17.89	18.00	17.94	19.2	0.0	
100	64QAM	1	1	17.92	17.89	17.91	19.2	0.0	
100	256QAM	1	1	17.74	17.81	17.82	19.2	0.0	
Channel				649668 656000 662334			Tune-up limit	MPR	
				3743.02 3840 3935.01			(dBm)	(dB)	
90	QPSK	1	1	17.83	17.85	17.76	19.2	0.0	
Channel				649334 656000 662968			Tune-up limit	MPR	
				3740.01 3840 3940.02			(dBm)	(dB)	
80	QPSK	1	1	17.81	17.93	17.79	19.2	0.0	
Channel				649000 656000 663000			Tune-up limit	MPR	
				3735 3840 3945			(dBm)	(dB)	
70	QPSK	1	1	17.72	17.92	17.74	19.2	0.0	
Channel				648668 656000 663334			Tune-up limit	MPR	
				3730.02 3840 3950.01			(dBm)	(dB)	
60	QPSK	1	1	17.85	17.84	17.87	19.2	0.0	
Channel				648334 656000 663668			Tune-up limit	MPR	
				3725.01 3840 3950.02			(dBm)	(dB)	
50	QPSK	1	1	17.72	17.88	17.74	19.2	0.0	
Channel				648000 656000 664000			Tune-up limit	MPR	
				3720 3840 3950			(dBm)	(dB)	
40	QPSK	1	1	17.73	17.87	17.89	19.2	0.0	
Channel				647668 656000 664334			Tune-up limit	MPR	
				3715.02 3840 3965.01			(dBm)	(dB)	
30	QPSK	1	1	17.75	17.79	17.74	19.2	0.0	
Channel				647334 656000 664668			Tune-up limit	MPR	
				3710.01 3840 3970.02			(dBm)	(dB)	
20	QPSK	1	1	17.78	17.89	17.84	19.2	0.0	
Channel				647168 656000 664834			Tune-up limit	MPR	
				3707.52 3840 3972.51			(dBm)	(dB)	
15	QPSK	1	1	17.78	17.85	17.75	19.2	0.0	
Channel				647000 656000 665000			Tune-up limit	MPR	
				3705 3840 3975			(dBm)	(dB)	
10	QPSK	1	1	17.72	17.91	17.81	19.2	0.0	

Part270 n77 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (db)	
Channel				Frequency (MHz)					
				3750 3840 3930					
100	PI2 BPSK	1	1	20.65	20.70	20.62	22.2	0.0	
100	PI2 BPSK	1	137	20.58	20.71	20.63			
100	PI2 BPSK	1	271	20.38	20.51	20.47			
100	PI2 BPSK	135	0	20.61	20.60	20.58	22.2	0.0	
100	PI2 BPSK	135	69	20.60	20.70	20.55	22.2	0.0	
100	PI2 BPSK	135	138	20.65	20.69	20.35	22.2	0.0	
100	PI2 BPSK	270	0	20.60	20.57	20.61			
100	QPSK	1	1	20.83	20.89	20.81			
100	QPSK	1	137	20.70	20.82	20.71	22.2	0.0	
100	QPSK	1	271	20.59	20.65	20.71	22.2	0.0	
100	QPSK	135	0	20.61	20.71	20.64			
100	QPSK	135	69	20.60	20.77	20.50			
100	QPSK	135	138	20.45	20.65	20.43	22.2	0.0	
100	QPSK	270	0	20.53	20.73	20.57			
100	16QAM	1	1	20.52	20.68	20.72	22.2	0.0	
100	64QAM	1	1	20.55	20.71	20.55	22.2	0.0	
100	256QAM	1	1	20.59	20.70	20.52	22.2	0.0	
Channel				649668 656000 662334			Tune-up limit	MPR	
				3745.02 3840 3935.01			(dBm)	(db)	
90	QPSK	1	1	20.45	20.60	20.40	22.2	0.0	
Channel				649334 656000 662968			Tune-up limit	MPR	
				3740.01 3840 3940.02			(dBm)	(db)	
80	QPSK	1	1	20.43	20.71	20.41	22.2	0.0	
Channel				649000 656000 663000			Tune-up limit	MPR	
				3735 3840 3945			(dBm)	(db)	
70	QPSK	1	1	20.57	20.62	20.51	22.2	0.0	
Channel				648668 656000 663334			Tune-up limit	MPR	
				3730.02 3840 3950.01			(dBm)	(db)	
60	QPSK	1	1	20.45	20.67	20.37	22.2	0.0	
Channel				648334 656000 663668			Tune-up limit	MPR	
				3725.01 3840 3950.02			(dBm)	(db)	
50	QPSK	1	1	20.44	20.54	20.54	22.2	0.0	
Channel				648000 656000 664000			Tune-up limit	MPR	
				3720 3840 3950			(dBm)	(db)	
40	QPSK	1	1	20.48	20.62	20.49	22.2	0.0	
Channel				647668 656000 664334			Tune-up limit	MPR	
				3715.02 3840 3965.01			(dBm)	(db)	
30	QPSK	1	1	20.50	20.68	20.51	22.2	0.0	
Channel				647334 656000 664668			Tune-up limit	MPR	
				3710.01 3840 3970.02			(dBm)	(db)	
20	QPSK	1	1	20.48	20.56	20.51	22.2	0.0	
Channel				647168 656000 664834			Tune-up limit	MPR	
				3707.52 3840 3972.51			(dBm)	(db)	
15	QPSK	1	1	20.60	20.59	20.54	22.2	0.0	
Channel				647000 656000 665000			Tune-up limit	MPR	
				3705 3840 3975			(dBm)	(db)	
10	QPSK	1	1	20.44	20.69	20.49	22.2	0.0	

Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		17.94		19.2	0.0	
100	PI2 BPSK	1	137		17.78				
100	PI2 BPSK	1	271		17.83				
100	PI2 BPSK	135	0		17.88		19.2	0.0	
100	PI2 BPSK	135	69		17.87		19.2	0.0	
100	PI2 BPSK	135	138		17.71		19.2	0.0	
100	PI2 BPSK	270	0		17.78				
100	QPSK	1	1		18.09				
100	QPSK	1	137		17.96		19.2	0.0	
100	QPSK	1	271		18.05		19.2	0.0	
100	QPSK	135	0		17.79				
100	QPSK	135	69		17.83				
100	QPSK	135	138		17.78		19.2	0.0	
100	QPSK	270	0		17.75		19.2	0.0	
100	16QAM	1	1		17.99				
100	64QAM	1	1		17.75				
100	256QAM	1	1		17.75		19.2	0.0	
Channel				649688	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3750.01			
90	QPSK	1	1	17.85	17.89	17.80	19.2	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	17.73	17.80	17.79	19.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.80	17.91	17.75	19.2	0.0	
Channel				648656	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	17.86	17.80	17.76	19.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	17.73	17.88	17.63	19.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.81	17.70	17.68	19.2	0.0	
Channel				647688	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	17.82	17.76	17.69	19.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.83	17.77	17.65	19.2	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52 <td>3750</td> <td>3792.51</td> <th></th> <th colspan="2"></th>	3750	3792.51			
15	QPSK	1	1	17.79	17.86	17.73	19.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705 <td>3750</td> <td>3795</td> <th></th> <th colspan="2"></th>	3750	3795			
10	QPSK	1	1	17.87	17.89	17.69	19.2	0.0	

Part270 n78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		20.65		22.2	0.0	
100	PI2 BPSK	1	137		20.66				
100	PI2 BPSK	1	271		20.49				
100	PI2 BPSK	135	0		20.50		22.2	0.0	
100	PI2 BPSK	135	69		20.67		22.2	0.0	
100	PI2 BPSK	135	138		20.61		22.2	0.0	
100	PI2 BPSK	270	0		20.38				
100	QPSK	1	1		20.70				
100	QPSK	1	137		20.61		22.2	0.0	
100	QPSK	1	271		20.50		22.2	0.0	
100	QPSK	135	0		20.60				
100	QPSK	135	69		20.70				
100	QPSK	135	138		20.64		22.2	0.0	
100	QPSK	270	0		20.54		22.2	0.0	
100	16QAM	1	1		20.61				
100	64QAM	1	1		20.60				
100	256QAM	1	1		20.59		22.2	0.0	
Channel				649688	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.39	20.47	20.55	22.2	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.48	20.51	20.40	22.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.45	20.50	20.49	22.2	0.0	
Channel				648656	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.48	20.48	20.39	22.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.42	20.60	20.48	22.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.44	20.40	20.44	22.2	0.0	
Channel				647688	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.47	20.50	20.43	22.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.45	20.47	20.45	22.2	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.42	20.45	20.38	22.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.48	20.58	20.50	22.2	0.0	



n7 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq. 504000	Power Middle Ch./ Freq. 507000	Power High Ch./ Freq. 510000	Tune-up limit (dBm)	MPR (dB)	
Channel				2530	2535	2550			
Frequency (MHz)				21.08	21.28	21.05			
40	PI2 BPSK	1	1	21.08	21.28	21.05	22.5	0.0	
40	PI2 BPSK	1	108	21.13	21.22	21.07			
40	PI2 BPSK	1	214	21.08	21.19	21.11			
40	PI2 BPSK	108	0	21.14	21.28	20.96	22.5	0.0	
40	PI2 BPSK	108	54	21.09	21.14	20.98	22.5	0.0	
40	PI2 BPSK	108	108	21.14	21.12	21.13	22.5	0.0	
40	PI2 BPSK	216	0	21.16	21.11	21.02	22.5	0.0	
40	QPSK	1	1	21.20	21.27	21.19	22.5	0.0	
40	QPSK	1	108	21.11	21.10	21.13			
40	QPSK	1	214	21.18	21.18	21.08			
40	QPSK	108	0	21.05	21.18	21.07	22.5	0.0	
40	QPSK	108	54	21.14	21.20	21.04	22.5	0.0	
40	QPSK	108	108	21.07	21.10	21.14	22.5	0.0	
40	QPSK	216	0	21.07	21.14	21.10	22.5	0.0	
40	16QAM	1	1	21.13	21.17	21.13	22.5	0.0	
40	64QAM	1	1	21.13	21.14	20.96	21.5	1.0	
40	256QAM	1	1	19.38	19.32	19.48	19.5	3.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.21	21.19	21.11	22.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2537.5			
25	QPSK	1	1	21.13	21.24	20.97	22.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	21.20	21.18	21.07	22.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	21.16	21.16	21.12	22.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.11	21.26	21.11	22.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.18	21.17	20.96	22.5	0.0	

n66 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tuneup limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
Frequency (MHz)				23.40	23.46	23.43			
40	PI2 BPSK	1	1	23.29	23.42	23.35	24.0	0.0	
40	PI2 BPSK	1	108	23.29	23.42	23.35	24.0	0.0	
40	PI2 BPSK	1	214	23.25	23.37	23.33	23.5	0.5	
40	PI2 BPSK	108	0	22.91	23.04	22.89	23.5	0.5	
40	PI2 BPSK	108	54	23.34	23.47	23.37	24.0	0.0	
40	PI2 BPSK	108	108	22.97	23.08	22.94	23.5	0.5	
40	PI2 BPSK	216	0	22.85	22.96	22.97	23.5	0.5	
40	QPSK	1	1	23.38	23.52	23.46	24.0	0.0	
40	QPSK	1	108	23.42	23.43	23.39	24.0	0.0	
40	QPSK	1	214	23.37	23.38	23.27	23.0	1.0	
40	QPSK	108	0	22.52	22.62	22.59	23.0	1.0	
40	QPSK	108	54	23.42	23.50	23.44	24.0	0.0	
40	QPSK	108	108	22.55	22.60	22.56	23.0	1.0	
40	QPSK	216	0	22.52	22.62	22.52	23.0	1.0	
40	16QAM	1	1	22.55	22.70	22.51	23.0	1.0	
40	64QAM	1	1	21.13	21.16	21.14	21.5	2.5	
40	256QAM	1	1	19.37	19.40	19.32	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.33	23.38	23.43	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.35	23.43	23.41	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.30	23.45	23.35	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.35	23.48	23.41	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.32	23.37	23.40	24.0	0.0	



n38 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	21.72	21.81	21.86	23.5	0.0	
40	PV2 BPSK	1	53	21.75	21.78	21.74			
40	PV2 BPSK	1	104	21.81	21.91	21.79			
40	PV2 BPSK	50	0	21.77	21.79	21.77	23.5	0.0	
40	PV2 BPSK	50	28	21.76	21.83	21.75	23.5	0.0	
40	PV2 BPSK	50	56	21.70	21.85	21.83	23.5	0.0	
40	PV2 BPSK	100	0	21.77	21.74	21.79			
40	QPSK	1	1	21.78	21.93	21.90			
40	QPSK	1	53	21.79	21.75	21.80	23.5	0.0	
40	QPSK	1	104	21.73	21.78	21.79	23.5	0.0	
40	QPSK	50	0	21.80	21.78	21.87			
40	QPSK	50	28	21.72	21.88	21.71			
40	QPSK	50	56	21.73	21.70	21.68	23.5	0.0	
40	QPSK	100	0	21.88	21.85	21.73			
40	16QAM	1	1	21.82	21.85	21.57	23.5	0.0	
40	64QAM	1	1	21.58	21.64	21.54	22.0	1.5	
40	256QAM	1	1	19.29	19.40	19.32	20.0	3.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.91	2595	2604.99			
30	QPSK	1	1	21.78	21.73	21.81	23.5	0.0	
Channel				518504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.35	2595	2607.48			
25	QPSK	1	1	21.72	21.69	21.70	23.5	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.77	21.70	21.72	23.5	0.0	
Channel				519000	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.80	21.71	21.72	23.5	0.0	
Channel				519000	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.69	21.76	21.73	24.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				508002	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	21.81	21.91	21.89	23.5	0.0	
100	PV2 BPSK	1	137	21.85	21.81	21.85			
100	PV2 BPSK	1	271	21.85	21.96	21.84			
100	PV2 BPSK	135	0	21.83	21.88	21.87	23.5	0.0	
100	PV2 BPSK	135	69	21.81	21.88	21.84	23.5	0.0	
100	PV2 BPSK	135	138	21.84	21.94	21.89	23.5	0.0	
100	PV2 BPSK	270	0	21.88	21.84	21.88			
100	QPSK	1	1	21.93	22.01	21.95			
100	QPSK	1	137	21.83	21.84	21.86	23.5	0.0	
100	QPSK	1	271	21.85	21.99	21.88	23.5	0.0	
100	QPSK	135	0	21.92	21.92	21.94			
100	QPSK	135	69	21.85	21.95	21.85			
100	QPSK	135	138	21.81	21.83	21.72	23.5	0.0	
100	QPSK	270	0	21.78	21.91	21.82			
100	16QAM	1	1	21.66	21.91	21.72	23.5	0.0	
100	64QAM	1	1	21.21	21.29	21.15	22.0	1.5	
100	256QAM	1	1	18.95	19.09	18.96	20.0	3.5	
Channel				508000	518598	529998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	21.83	21.89	21.84	23.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	21.88	21.85	21.81	23.5	0.0	
Channel				508002	518598	531000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.88	21.85	21.84	23.5	0.0	
Channel				505200	518598	531000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.93	22.00	21.85	23.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2510.01	2592.99	2670			
50	QPSK	1	1	21.88	22.00	21.86	23.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2503.01	2592.99	2670			
40	QPSK	1	1	21.86	21.85	21.84	23.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.88	21.90	21.84	23.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.82	21.91	21.86	23.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.05	25.08	25.04	26.5	0.0	
100	PV2 BPSK	1	137	25.02	25.00	24.98			
100	PV2 BPSK	1	271	24.90	25.06	25.06			
100	PV2 BPSK	135	0	24.96	25.00	24.98	26.5	0.0	
100	PV2 BPSK	135	69	24.88	25.06	25.08	26.5	0.0	
100	PV2 BPSK	135	138	24.97	25.02	24.95	26.5	0.0	
100	PV2 BPSK	270	0	24.97	24.97	25.04			
100	QPSK	1	1	25.02	25.09	25.05			
100	QPSK	1	137	25.02	24.97	25.00	26.5	0.0	
100	QPSK	1	271	25.03	25.02	24.98	26.5	0.0	
100	QPSK	135	0	24.97	25.02	24.97			
100	QPSK	135	69	24.98	25.06	24.97			
100	QPSK	135	138	25.01	24.96	24.96	26.5	0.0	
100	QPSK	270	0	24.98	25.02	24.97			
100	16QAM	1	1	24.90	25.01	25.01	26.5	0.0	
100	64QAM	1	1	24.20	24.23	24.20	25.0	1.5	
100	256QAM	1	1	21.89	22.04	21.95	23.0	3.5	
Channel				508000	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98			
90	QPSK	1	1	24.98	24.79	24.91	26.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2533.02	2592.99	2643.99			
80	QPSK	1	1	24.73	24.91	24.87	26.5	0.0	
Channel				508002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	24.71	24.93	24.72	26.5	0.0	
Channel				505200	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	24.89	24.79	24.82	26.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
50	QPSK	1	1	24.91	24.81	24.78	26.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.88	24.71	24.72	26.5	0.0	
Channel				502202	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.91	24.91	24.78	26.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2504.02	2592.99	2679.98			
20	QPSK	1	1	24.91	24.77	24.88	26.5	0.0	

Part270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	3750	3840	3930		
Frequency (MHz)									
100	PI2 BPSK	1	1	18.54	18.62	18.57	20.3	0.0	
100	PI2 BPSK	1	137	18.48	18.55	18.51			
100	PI2 BPSK	1	271	18.39	18.57	18.46			
100	PI2 BPSK	135	0	18.39	18.51	18.43	20.3	0.0	
100	PI2 BPSK	135	69	18.52	18.58	18.44	20.3	0.0	
100	PI2 BPSK	135	138	18.44	18.48	18.50	20.3	0.0	
100	PI2 BPSK	270	0	18.48	18.57	18.49			
100	QPSK	1	1	18.63	18.69	18.54			
100	QPSK	1	137	18.60	18.65	18.51	20.3	0.0	
100	QPSK	1	271	18.52	18.52	18.45	20.3	0.0	
100	QPSK	135	0	18.48	18.55	18.50	20.3	0.0	
100	QPSK	135	69	18.53	18.65	18.49	20.3	0.0	
100	QPSK	135	138	18.42	18.50	18.46	20.3	0.0	
100	QPSK	270	0	18.50	18.57	18.52			
100	16QAM	1	1	18.43	18.58	18.50	20.3	0.0	
100	64QAM	1	1	18.40	18.47	18.43	20.3	0.0	
100	256QAM	1	1	18.43	18.49	18.33	19.5	0.8	
Channel				648668	649968	650000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	3955.01	(dBm)	(dB)
90	QPSK	1	1	18.54	18.57	18.41	20.3	0.0	
Channel				649334	650000	662068	663000	Tune-up limit	MPR
Frequency (MHz)				3740.02	3840	3940.02	3960.02	(dBm)	(dB)
80	QPSK	1	1	18.59	18.63	18.49	20.3	0.0	
Channel				649000	650000	663000	664000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	3965	(dBm)	(dB)
70	QPSK	1	1	18.59	18.63	18.43	20.3	0.0	
Channel				648668	650000	663334	664334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	3970.01	(dBm)	(dB)
60	QPSK	1	1	18.59	18.55	18.49	20.3	0.0	
Channel				648334	650000	663668	664668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	3975.02	(dBm)	(dB)
50	QPSK	1	1	18.60	18.66	18.47	20.3	0.0	
Channel				648000	652000	662000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	3980	(dBm)	(dB)
40	QPSK	1	1	18.56	18.64	18.48	20.3	0.0	
Channel				647668	650000	664334	665334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	3985.01	(dBm)	(dB)
30	QPSK	1	1	18.52	18.60	18.51	20.3	0.0	
Channel				647334	650000	664668	665668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	3990.02	(dBm)	(dB)
20	QPSK	1	1	18.60	18.62	18.42	20.3	0.0	
Channel				647168	650000	664834	665834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.51	3992.51	(dBm)	(dB)
15	QPSK	1	1	18.57	18.56	18.41	20.3	0.0	
Channel				647000	650000	665000	666000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	3995	(dBm)	(dB)
10	QPSK	1	1	18.52	18.65	18.43	20.3	0.0	

Part270 n77 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 656000	Power High Ch. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.64	21.72	21.64	23.3	0.0	
100	PI2 BPSK	1	137	21.64	21.69	21.57			
100	PI2 BPSK	1	271	21.77	21.62	21.52			
100	PI2 BPSK	135	0	21.75	21.64	21.56	23.3	0.0	
100	PI2 BPSK	135	69	21.68	21.71	21.53	23.3	0.0	
100	PI2 BPSK	135	138	21.54	21.55	21.65	23.3	0.0	
100	PI2 BPSK	270	0	21.64	21.70	21.60			
100	QPSK	1	1	21.71	21.64	21.61			
100	QPSK	1	137	21.73	21.75	21.65	23.3	0.0	
100	QPSK	1	271	21.62	21.62	21.60	23.3	0.0	
100	QPSK	135	0	21.54	21.69	21.57			
100	QPSK	135	69	21.64	21.77	21.55			
100	QPSK	135	138	21.56	21.61	21.59	23.3	0.0	
100	QPSK	270	0	21.66	21.69	21.58	23.3	0.0	
100	16QAM	1	1	21.56	21.66	21.56			
100	64QAM	1	1	21.61	21.57	21.59			
100	256QAM	1	1	21.26	21.33	21.29	22.5	0.8	
Channel				649968	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	21.62	21.79	21.51	23.3	0.0	
Channel				649334	650000	662068	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	21.64	21.75	21.52	23.3	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	21.66	21.80	21.61	23.3	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	21.57	21.70	21.77	23.3	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	21.63	21.69	21.51	23.3	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	21.63	21.72	21.52	23.3	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	21.61	21.74	21.53	23.3	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	21.62	21.77	21.57	23.3	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	21.66	21.80	21.55	23.3	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	21.64	21.78	21.54	23.3	0.0	

Part270 n78 Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)		
Channel				3750	3750	3750				
Frequency (MHz)										
100	PI2 BPSK	1	1		18.50		20.3	0.0		
100	PI2 BPSK	1	137		18.48					
100	PI2 BPSK	1	271		18.43					
100	PI2 BPSK	135	0		18.35		20.3	0.0		
100	PI2 BPSK	135	69		18.45		20.3	0.0		
100	PI2 BPSK	135	138		18.33		20.3	0.0		
100	PI2 BPSK	270	0		18.50					
100	QPSK	1	1		18.53					
100	QPSK	1	137		18.52		20.3	0.0		
100	QPSK	1	271		18.42					
100	QPSK	135	0		18.48		20.3	0.0		
100	QPSK	135	69		18.46		20.3	0.0		
100	QPSK	135	138		18.43		20.3	0.0		
100	QPSK	270	0		18.51					
100	16QAM	1	1		18.47		20.3	0.0		
100	64QAM	1	1		18.35		19.5	0.8		
100	256QAM	1	1		18.32					
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3750.01				
90	QPSK	1	1	18.48	18.42	18.39	20.3	0.0		
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.02	3750	3760.02				
80	QPSK	1	1	18.48	18.44	18.35	20.3	0.0		
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1	18.44	18.47	18.37	20.3	0.0		
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1	18.44	18.42	18.39	20.3	0.0		
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1	18.42	18.49	18.36	20.3	0.0		
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	18.48	18.51	18.41	20.3	0.0		
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1	18.49	18.51	18.47	20.3	0.0		
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1	18.43	18.40	18.37	20.3	0.0		
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1	18.46	18.44	18.33	20.3	0.0		
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1	18.43	18.50	18.35	20.3	0.0		

Part270 n78 HPUE Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq. 650000	Power Middle Ch./ Freq. 650000	Power High Ch./ Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		21.60		23.3	0.0	
100	PI2 BPSK	1	137		21.55				
100	PI2 BPSK	1	271		21.59				
100	PI2 BPSK	135	0		21.53		23.3	0.0	
100	PI2 BPSK	135	69		21.59		23.3	0.0	
100	PI2 BPSK	135	138		21.56		23.3	0.0	
100	PI2 BPSK	270	0		21.59				
100	QPSK	1	1		21.69				
100	QPSK	1	137		21.59		23.3	0.0	
100	QPSK	1	271		21.51				
100	QPSK	135	0		21.55		23.3	0.0	
100	QPSK	135	69		21.60		23.3	0.0	
100	QPSK	135	138		21.53		23.3	0.0	
100	QPSK	270	0		21.64				
100	16QAM	1	1		21.54		23.3	0.0	
100	64QAM	1	1		21.56		23.3	0.0	
100	256QAM	1	1		21.50		22.5	0.8	
Channel				649688	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	21.55	21.67	21.61	23.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.59	21.59	21.63	23.3	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.61	21.59	21.59	23.3	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	21.59	21.60	21.59	23.3	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	21.55	21.60	21.56	23.3	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.58	21.67	21.55	23.3	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	21.52	21.60	21.58	23.3	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	21.54	21.62	21.61	23.3	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	21.52	21.65	21.63	23.3	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	21.58	21.62	21.61	23.3	0.0	



WIFI&Bluetooth Power

TABLE 1: 2.4GHz WLAN																							
Full Power Extremity for Standalone Ant4				Full Power Extremity for Standalone Ant5				Full Power Extremity for Standalone Ant 5+4				Head for Standalone Ant5+4		Head for Standalone Ant 4		Head for Standalone Ant 5		Head for Simultaneous DBS only Bodywear for Simultaneous WWAN+non DBS Ant5+4		Head for Simultaneous DBS only Bodywear for Simultaneous WWAN+non DBS Ant4		Head for Simultaneous DBS only Bodywear for Simultaneous WWAN+non DBS Ant5	
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit
2.4GHz WLAN	802.11b-1Mbps	1	2412	21.55	23.00	20.85	23.00	24.22	26.00	19.39	21.00	16.24	18.00	15.74	17.50	16.84	18.00	13.73	15.00	13.23	15.00		
		6	2437	21.73	23.00	21.19	23.00	24.48	26.00	19.61	21.00	16.28	18.00	16.05	17.50	17.12	18.50	13.79	15.00	13.52	15.00		
		11	2462	21.74	23.00	21.36	23.00	24.56	26.00	19.71	21.00	16.45	18.00	16.26	17.50	17.20	18.50	13.82	15.00	13.75	15.00		
	802.11g-6Mbps	1	2412	19.55	21.00	19.55	21.00	22.57	24.00	Not Required	21.00	Not Required	18.00	Not Required	17.50	Not Required	18.50	Not Required	15.50	Not Required	15.00	Not Required	
		6	2437	19.57	21.00	19.53	21.00	22.57	24.00		21.00		18.00		17.50		18.50		15.50		15.00		
		11	2462	19.55	21.00	19.58	21.00	22.53	24.00		21.00		18.00		17.50		18.50		15.50		15.00		
	802.11n-HT20 MCS0	1	2412	18.16	19.50	16.11	19.50	21.15	23.50		21.00		18.00		17.50		18.50		15.50		15.00		
		6	2437	18.44	19.50	16.07	19.50	21.27	23.50		21.00		18.00		17.50		18.50		15.50		15.00		
		11	2462	17.82	19.50	17.76	19.50	20.80	22.50		21.00		18.00		17.50		18.50		15.50		15.00		
	802.11n-HT40 MCS0	3	2422	18.61	20.00	16.45	20.00	21.54	23.00		21.00		18.00		17.50		18.50		15.50		15.00		
		6	2437	18.53	20.00	18.24	20.00	21.40	23.00		21.00		18.00		17.50		18.50		15.50		15.00		
		9	2452	18.22	20.00	17.87	19.50	21.06	22.50		21.00		18.00		17.50		18.50		15.50		15.00		
	802.11ax-HE20 MCS0	1	2412	18.31	20.00	16.22	20.00	21.26	23.00		21.00		18.00		17.50		18.50		15.50		15.00		
		6	2437	18.49	20.00	18.15	20.00	21.33	23.00		21.00		18.00		17.50		18.50		15.50		15.00		
		11	2462	17.88	19.50	17.84	19.50	20.87	22.50		21.00		18.00		17.50		18.50		15.50		15.00		
	802.11ax-HE40 MCS0	3	2422	18.69	20.00	18.49	20.00	21.60	23.00		21.00		18.00		17.50		18.50		15.50		15.00		
		6	2437	18.58	20.00	18.32	20.00	21.46	23.00		21.00		18.00		17.50		18.50		15.50		15.00		
		9	2452	18.28	20.00	17.95	19.50	21.13	22.50		21.00		18.00		17.50		18.50		15.50		15.00		



				Heat for Simultaneous WW+Netron CBS Bodyworn for Simultaneous WWAN+CBS Ant#4		Heat for Simultaneous WW+Netron CBS Bodyworn for Simultaneous WWAN+CBS Ant4		Heat for Simultaneous WW+Netron CBS Bodyworn for Simultaneous WWAN+CBS Ant5		Heat for Simultaneous WWAN+CBS Ant#4		Heat for Simultaneous WWAN+CBS Ant4		Heat for Simultaneous WWAN+CBS Ant5		Bodyworn for Standalone Ant#4		Bodyworn for Standalone Ant4		Bodyworn for Standalone Ant5		Bodyworn for Simultaneous CBS only Ant#4	
				Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit
2.4GHz WLAN	802.11b-11Mbps	1	2412	13.83	15.50	10.75	12.50	10.21	12.00	10.84	12.50	7.77	9.50	7.23	9.00	22.86	24.00	19.74	21.00	19.27	21.00	19.86	21.50
		6	2437	14.09	15.50	10.77	12.50	10.49	12.00	11.13	12.50	7.79	9.50	7.48	9.00	23.12	24.00	19.74	21.00	19.59	21.00	20.12	21.50
		11	2462	14.18	15.50	10.91	12.50	10.73	12.00	11.23	12.50	7.88	9.50	7.72	9.00	23.23	24.00	19.95	21.00	19.79	21.00	20.21	21.50
		1	2412		15.50		12.50		12.00		12.50		9.50		9.00	22.57	24.00	19.55	21.00	19.55	21.00		21.50
		6	2437		15.50		12.50		12.00		12.50		9.50		9.00	22.57	24.00	19.57	21.00	19.53	21.00		21.50
		11	2462		15.50		12.50		12.00		12.50		9.50		9.00	22.63	24.00	19.65	21.00	19.58	21.00		21.50
	802.11g-54Mbps	1	2412		15.50		12.50		12.00		12.50		9.50		9.00	22.50		19.50		19.50		19.50	21.50
		6	2437		15.50		12.50		12.00		12.50		9.50		9.00	22.50		19.50		19.50		19.50	21.50
		11	2462		15.50		12.50		12.00		12.50		9.50		9.00	22.50		19.50		19.50		19.50	21.50
		1	2412		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		6	2437		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		11	2462		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
	802.11n-HT40 MCS0	3	2422		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		6	2437	Not Required	15.50	Not Required	12.50	Not Required	12.00	Not Required	12.50	Not Required	9.50	Not Required	9.00	22.50		20.00		20.00	Not Required	19.50	21.50
		9	2452		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		1	2412		15.50		12.50		12.00		12.50		9.50		9.00	22.50	Not Required	20.00	Not Required	20.00		20.00	21.50
		6	2437		15.50		12.50		12.00		12.50		9.50		9.00	22.50	Not Required	20.00	Not Required	20.00		20.00	21.50
		11	2462		15.50		12.50		12.00		12.50		9.50		9.00	22.50	Not Required	20.00	Not Required	20.00		20.00	21.50
	802.11n-HE20 MCS0	3	2422		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		6	2437		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		9	2452		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		1	2412		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		6	2437		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		11	2462		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
	802.11n-HE40 MCS0	3	2422		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		6	2437		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		9	2452		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		1	2412		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		6	2437		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50
		11	2462		15.50		12.50		12.00		12.50		9.50		9.00	22.50		20.00		20.00		20.00	21.50



				Bodycom for Simultaneous DBS only A44		Bodycom for Simultaneous DBS only A45		Holoport for Simultaneous WWANnon DBS A44+4		Holoport for Simultaneous WWANnon DBS A44		Holoport for Simultaneous WWANnon DBS A45		Holoport for Simultaneous WWAN+DBS A44+4		Holoport for Simultaneous WWAN+DBS A44		Holoport for Simultaneous WWAN+DBS A45		Externity for Simultaneous DBS only A44+4		Externity for Simultaneous DBS only A44	
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit
2.4GHz WLAN	802.11b 1Mbps	1	2412	16.81	18.50	16.26	18.00	13.33	15.00	10.29	12.00	9.81	11.50	10.34	12.00	7.28	9.00	6.89	8.50	21.36	23.00	18.29	20.00
		6	2437	16.68	18.50	16.56	18.00	13.62	15.00	10.18	12.00	10.03	11.50	10.62	12.00	7.23	9.00	7.01	8.50	21.60	23.00	18.34	20.00
		11	2462	16.85	18.50	16.78	18.00	13.71	15.00	10.41	12.00	10.25	11.50	10.75	12.00	7.43	9.00	7.24	8.50	21.70	23.00	18.45	20.00
		1	2412		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		6	2437		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		11	2462		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
	802.11a+HT20 MCS0	1	2412		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		22.50		19.50
		6	2437		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		22.50		19.50
		11	2462		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		22.50		19.50
		3	2422		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		9	2452		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		22.50		20.00
		6	2437	Not Required	18.50	Not Required	18.00	Not Required	15.00	Not Required	12.00	Not Required	11.50	Not Required	12.00	Not Required	9.00	Not Required	8.50	Not Required	23.00	Not Required	20.00
	802.11a+HT40 MCS0	1	2412		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		6	2437		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		11	2462		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		22.50		19.50
		3	2422		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		9	2452		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		22.50		20.00
		6	2437		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
	802.11a+HE20 MCS0	1	2412		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		6	2437		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		11	2462		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		22.50		19.50
		3	2422		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		9	2452		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		6	2437		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
	802.11a+HE40 MCS0	1	2412		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		23.00		20.00
		9	2452		18.50		18.00		15.00		12.00		11.50		12.00		9.00		8.50		22.50		20.00

				Extensivity for Simultaneous DBS only AIS		Extensivity for Simultaneous WWAN+non DBS AIS-4		Extensivity for Simultaneous WWAN+non DBS AIS4		Extensivity for Simultaneous WWAN+non DBS AIS		Extensivity for Simultaneous WWAN+DBS AIS-4		Extensivity for Simultaneous WWAN+DBS AIS4		Extensivity for Simultaneous WWAN+DBS AIS		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.87	19.50	17.86	19.50	14.72	16.50	14.24	16.00	14.80	16.50	11.71	13.50	11.23	13.00	100
		6	2437	18.02	19.50	18.12	19.50	14.75	16.50	14.55	16.00	15.14	16.50	11.73	13.50	11.52	13.00	
		11	2462	18.17	19.50	18.21	19.50	14.89	16.50	14.73	16.00	15.22	16.50	11.88	13.50	11.77	13.00	
		1	2412		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
	802.11g 6Mbps	6	2437		19.50		19.50		16.50		16.00		16.50		13.50		13.00	98.97
		11	2462		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		1	2412		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		6	2437		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
	802.11n-HT20 MCS0	1	2412		19.50		19.50		16.50		16.00		16.50		13.50		13.00	100.00
		6	2437		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		11	2462		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		3	2422		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
	802.11n-HT40 MCS0	6	2437	Not Required	19.50	Not Required	19.50	Not Required	16.50	Not Required	16.00	Not Required	16.50	Not Required	13.50	Not Required	13.00	100
		9	2452		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		1	2412		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		6	2437		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
	802.11ax-HE20 MCS0	11	2462		19.50		19.50		16.50		16.00		16.50		13.50		13.00	100
		3	2422		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		6	2437		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		8	2437		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
	802.11ax-HE40 MCS0	9	2452		19.50		19.50		16.50		16.00		16.50		13.50		13.00	100
		1	2412		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		6	2437		19.50		19.50		16.50		16.00		16.50		13.50		13.00	
		8	2437		19.50		19.50		16.50		16.00		16.50		13.50		13.00	



				Full Power Head for Standalone Bodywork for Standalone Bodywork for Standalone DBS only Externally for Standalone Externally for Standalone DBS only Ant4	Full Power Head for Standalone Bodywork for Standalone Bodywork for Standalone DBS only Externally for Standalone Externally for Standalone DBS only Ant5	Full Power Head for Standalone Bodywork for Standalone Bodywork for Standalone DBS only Externally for Standalone Externally for Standalone DBS only Ant4+5	Head for Simultaneous DBS only Externally for Standalone WWAN+DBS Ant4+5	Head for Simultaneous DBS only Externally for Standalone WWAN+DBS Ant4	Head for Simultaneous DBS only Externally for Standalone WWAN+DBS Ant5	Head for Simultaneous WWAN+DBS Ant4+5	Head for Simultaneous WWAN+DBS Ant4	Head for Simultaneous WWAN+DBS Ant5		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	
5.2GHz WLAN	802.11a 80Mbps	36	5180	18.86	20.50	19.13	21.00	22.02	23.50	21.00	17.00	17.00	18.00	
		40	5200	18.76	20.50	19.20	21.00	22.04	23.00	21.00	17.00	17.00	18.00	
		44	5220	18.42	20.00	19.26	21.00	21.87	23.00	21.00	17.00	17.50	18.00	
		48	5240	18.95	20.50	19.17	21.00	22.07	23.00	21.00	17.00	17.50	18.00	
		36	5180	18.25	20.00	18.84	20.50	21.57	23.00	21.00	17.00	17.50	18.00	
		40	5200	18.32	20.00	18.88	20.50	21.62	23.00	21.00	17.00	17.50	18.00	
	802.11n-HT20 MCS9	44	5220	18.16	20.00	18.75	20.50	21.46	23.00	21.00	17.00	17.50	18.00	
		48	5240	18.44	20.00	18.74	20.50	21.60	23.00	21.00	17.00	17.50	18.00	
		36	5180	15.33	17.00	15.91	17.50	18.64	20.00	18.64	20.00	15.28	17.00	
		46	5230	17.62	19.50	18.85	20.00	21.12	22.50	19.23	21.00	15.73	17.00	
		36	5180	18.38	20.00	18.06	20.50	21.69	23.00	21.00	17.00	17.50	18.00	
		40	5200	18.40	20.00	19.02	20.50	21.73	23.00	21.00	17.00	17.50	18.00	
	802.11ac-VHT20 MCS9	44	5220	18.24	20.00	18.36	20.50	21.64	23.00	21.00	17.00	17.50	18.00	
		48	5240	18.63	20.50	18.35	20.50	21.80	23.00	21.00	17.00	17.50	18.00	
		36	5180	15.57	17.00	15.88	17.50	18.79	20.00	20.50	17.00	17.50	18.00	
		46	5230	17.87	19.50	18.73	20.50	21.33	23.00	21.00	17.00	17.50	18.00	
		42	5210	14.41	16.00	15.23	17.00	17.85	19.50	19.50	16.00	17.00	16.47	
		42	5210	14.41	16.00	15.23	17.00	17.85	19.50	19.50	16.00	17.00	16.47	
	802.11ax-HE30 MCS9	36	5180	18.58	20.00	19.07	20.50	21.84	23.00	Not Required	21.00	Not Required	17.00	17.50
		40	5200	18.56	20.00	19.11	21.00	21.85	23.00	21.00	17.00	17.50	18.00	15.00
		44	5220	18.36	20.00	19.13	21.00	21.77	23.00	21.00	17.00	17.50	18.00	15.00
		48	5240	18.84	20.50	19.06	20.50	21.96	23.00	21.00	17.00	17.50	18.00	15.00
		36	5180	15.66	17.50	16.06	17.50	18.67	20.50	20.50	17.00	17.00	18.00	15.00
		46	5230	18.94	19.50	18.94	20.50	21.52	23.00	21.00	17.00	17.50	18.00	15.00
	802.11ax-HE40 MCS9	36	5180	15.66	17.50	16.06	17.50	18.67	20.50	20.50	17.00	17.00	18.00	15.00
		46	5230	18.94	19.50	18.94	20.50	21.52	23.00	21.00	17.00	17.50	18.00	15.00
802.11ax-HE80 MCS9	36	5180	15.66	17.50	16.06	17.50	18.67	20.50	20.50	17.00	17.00	18.00	15.00	
	42	5210	14.55	16.00	15.29	17.00	17.65	19.50	19.50	16.00	17.00	16.50	15.00	

				Full Power Head for Standalone Bodywork for Standalone Bodywork for Standalone DBS only Externally for Standalone Externally for Standalone DBS only Ant4	Full Power Head for Standalone Bodywork for Standalone Bodywork for Standalone DBS only Externally for Standalone Externally for Standalone DBS only Ant5	Full Power Head for Standalone Bodywork for Standalone Bodywork for Standalone DBS only Externally for Standalone Externally for Standalone DBS only Ant4+5	Head for Standalone DBS only Ant4+5	Head for Standalone DBS only Ant4	Head for Standalone DBS only Ant5	Head for Standalone WWAN+non DBS Ant4+5	Head for Standalone WWAN+non DBS Ant4	Head for Standalone WWAN+non DBS Ant5	Head for Standalone WWAN+DBS Ant4+5	Head for Standalone WWAN+DBS Ant4	Head for Standalone WWAN+DBS Ant5			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	
802.11a 80Mbps		52	5260	19.08	20.50	19.15	20.50	22.13	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		56	5280	18.89	20.50	19.33	20.50	22.13	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		60	5300	18.83	20.50	19.03	20.50	21.94	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		64	5320	18.71	20.50	19.12	20.50	21.93	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		52	5260	18.55	20.00	18.70	20.50	21.84	23.00	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		56	5280	18.61	20.00	18.87	20.50	21.75	23.00	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
802.11n-HT20 MCS9		60	5300	18.49	20.00	18.71	20.50	21.61	23.00	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		64	5320	18.35	20.00	18.77	20.50	21.58	23.00	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		54	5270	18.01	19.50	18.62	20.50	21.34	23.00	Not Required	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50
		62	5310	16.82	18.50	17.22	19.00	20.03	21.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		52	5260	18.79	20.50	18.89	20.50	21.85	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		56	5280	18.75	20.50	19.00	20.50	21.89	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
5.3GHz WLAN		60	5300	18.63	20.50	18.84	20.50	21.75	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		64	5320	18.49	20.00	18.88	20.50	21.70	23.00	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		54	5270	18.25	20.00	18.77	20.50	21.63	23.00	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		62	5310	17.12	19.00	17.29	19.00	20.22	21.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		58	5290	16.45	18.00	16.81	18.50	19.64	21.00	19.64	21.50	16.38	18.00	16.79	18.50	16.77	18.50	
		50	5250	13.74	15.50	14.09	15.50	16.93	18.50	18.50	15.50	15.50	15.50	15.00	15.00	12.00	12.50	
802.11ac-VHT20 MCS9		52	5260	18.96	20.50	19.07	20.50	22.03	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		56	5280	18.90	20.50	19.12	21.00	22.02	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		60	5300	18.73	20.50	18.36	20.50	21.86	23.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		64	5320	18.63	20.50	19.00	20.50	21.83	23.50	Not Required	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50
		54	5270	18.49	20.00	18.84	20.50	21.68	23.00	Not Required	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50
		62	5310	17.23	19.00	17.32	19.00	20.29	22.00	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
802.11ax-HE80 MCS9		58	5290	16.63	18.50	16.95	18.50	19.80	21.50	21.50	18.00	18.50	18.50	15.00	15.50	12.00	12.50	
		50	5250	13.63	15.50	14.35	16.00	17.11	18.5	18.50	15.50	15.50	15.50	15.00	15.00	12.00	12.50	



				Bodywork for Simultaneous WWANmon DBS Ant5+4	Bodywork for Simultaneous WWANmon DBS Ant4	Bodywork for Simultaneous WWANmon DBS Ant5	Bodywork for Simultaneous WWAN+DBS Ant5+4	Bodywork for Simultaneous WWAN+DBS Ant4	Bodywork for Simultaneous WWAN+DBS Ant5	Hotspot for Simultaneous WWANmon DBS Ant5+4	Hotspot for Simultaneous WWANmon DBS Ant4	Hotspot for Simultaneous WWANmon DBS Ant5	Hotspot for Simultaneous WWAN+DBS Ant5+4	Hotspot for Simultaneous WWAN+DBS Ant4	Hotspot for Simultaneous WWAN+DBS Ant5	Duty Cycle %								
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Duty Cycle %						
5.3GHz WLAN	802.11a 6Mbps	36	5180	20.50	17.00	17.50	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50	99.32						
		40	5200	20.50	17.00	17.50	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50							
		44	5220	20.50	17.00	17.50	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50							
		48	5240	Not Required	17.00	Not Required	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50							
		36	5180	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
		40	5200	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
	802.11a+HT20 MCS9	44	5220	20.50	17.00	17.50	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50	100						
		48	5240	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
		52	5260	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
	802.11a+HT40 MCS9	36	5180	18.64	15.26	17.00	15.71	17.50	Not Required	14.50	Not Required	14.00	Not Required	17.00	Not Required	13.50	Not Required	100						
		40	5200	18.76	15.33	17.00	15.91	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50							
		36	5180	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
	802.11a+ VHT20 MCS9	40	5200	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50	100							
		44	5220	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
		48	5240	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
	802.11a+ VHT40 MCS9	36	5180	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50	100							
		40	5200	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
		42	5210	19.50	16.00	17.00	15.98	17.50	12.83	14.50	12.49	14.00	15.48	17.00	12.35	14.00	12.01	13.50	12.51	14.00	9.37	11.00	8.03	10.50
	802.11a+HE20 MCS9	36	5180	Not Required	17.00	Not Required	17.50	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50	100					
		40	5200	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
		44	5220	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
		48	5240	20.50	17.00	17.50	Not Required	17.50	Not Required	14.50	Not Required	14.00	17.00	Not Required	14.00	11.00	10.50							
	802.11a+HE40 MCS9	36	5180	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50	100							
		48	5240	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								
	802.11a+HE80 MCS9	36	5180	20.50	17.00	17.50	17.50	17.50	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50	100							
		42	5210	19.50	16.00	17.00	17.00	17.00	14.50	14.00	17.00	14.00	13.50	14.00	11.00	10.50								

		Bodywork for Simultaneous WWANmon DBS Ant5+4				Bodywork for Simultaneous WWANmon DBS Ant4				Bodywork for Simultaneous WWANmon DBS Ant5				Bodywork for Simultaneous WWAN+DBS Ant5+4				Bodywork for Simultaneous WWAN+DBS Ant4				Bodywork for Simultaneous WWAN+DBS Ant5				Externally for Simultaneous WWANmon DBS Ant5+4				Externally for Simultaneous WWANmon DBS Ant4				Externally for Simultaneous WWANmon DBS Ant5				Externally for Simultaneous WWAN+DBS Ant5+4				Externally for Simultaneous WWAN+DBS Ant4				Externally for Simultaneous WWAN+DBS Ant5			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Duty Cycle %											
5.3GHz WLAN	802.11a 8Mbps	52	5280	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50	99.32																															
		56	5280	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		60	5300	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		64	5320	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		52	5280	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		56	5280	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
	802.11a+HT20 MCS9	60	5300	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50	100																															
		64	5320	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		54	5270	Not Required	17.50	Not Required	18.00	Not Required	18.00	Not Required	15.00	Not Required	20.50	Not Required	17.50	Not Required	14.00	Not Required	14.50	14.50	100																												
	802.11a+HT40 MCS9	62	5310	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50	100																															
		52	5280	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		56	5280	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
	802.11a+ VHT20 MCS9	60	5300	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50	100																															
		64	5320	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		54	5270	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
	802.11a+ VHT40 MCS9	62	5310	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50	100																															
		58	5290	19.10	15.84	17.50	16.21	18.00	16.28	18.00	12.81	14.50	13.22	15.00	18.80	20.50	15.32	17.00	15.73	17.50	15.75	17.50	12.28	14.00	12.75	14.50	100																						
		802.11a+ VHT160 MCS9	90	5250	18.50	15.50	15.50	18.00	18.00	14.50	19.00	19.00	18.50	15.50	15.50	17.50	14.00	14.50	100																														
	802.11a+HE20 MCS9	52	5280	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50	100																															
		56	5280	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		60	5300	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
		64	5320	Not Required	17.50	Not Required	18.00	Not Required	18.00	Not Required	15.00	Not Required	20.50	Not Required	17.50	Not Required	14.00	Not Required	14.50	14.50	100																												
	802.11a+HE40 MCS9	54	5270	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50	100																															
		62	5310	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50																																
	802.11a+HE80 MCS9	58	5290	20.50	17.50	18.00	18.00	18.00	18.00	14.50	15.00	20.50	17.00	17.50	17.50	14.00	14.50	100																															
		90	5250	18.50	15.50	15.50	18.00	18.00	14.50	19.00	19.00	18.5	15.5	15.5	17.5	14.00	14.50	100																															



		Full Power Bodywork for Standalone Bodywork for Simultaneous DBS only Externality for Standalone Externality for Simultaneous DBS only Ant4				Full Power Bodywork for Standalone Bodywork for Simultaneous DBS only Externality for Standalone Externality for Simultaneous DBS only Ant5				Full Power Bodywork for Standalone Bodywork for Simultaneous DBS only Externality for Standalone Externality for Simultaneous DBS only Ant4+5				Head for Standalone Bodywork for Simultaneous WWAN+non DBS Externality for Standalone WWAN+non DBS Ant4+5		Head for Standalone Bodywork for Simultaneous WWAN+non DBS Externality for Standalone WWAN+non DBS Ant4		Head for Standalone Bodywork for Simultaneous WWAN+non DBS Externality for Standalone WWAN+non DBS Ant5		Head for Simultaneous DBS only Ant4+5		Head for Simultaneous DBS only Ant4		Head for Simultaneous DBS only Ant5		Head for Simultaneous WWAN+non DBS Ant4+5		Head for Simultaneous WWAN+non DBS Ant4		Head for Simultaneous WWAN+non DBS Ant5															
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit										
802.11a EIRP	802.11a-MCS10	100	5500	17.96	19.50	18.40	20.00	21.20	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		116	5580	18.79	20.50	18.10	20.00	21.47	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		124	5620	18.64	20.50	18.08	20.00	21.38	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		132	5660	18.65	20.50	18.36	20.00	21.52	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		140	5700	18.49	20.00	18.57	20.00	21.54	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
	802.11a-HT20 MCS10	144	5720	18.55	20.00	18.39	20.00	21.43	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		100	5500	17.79	19.50	17.95	19.50	20.88	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		116	5580	18.40	20.00	17.65	19.50	21.05	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		124	5620	18.22	20.00	17.84	19.50	21.04	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		132	5660	18.27	20.00	17.95	19.50	21.12	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
802.11a-40MHz MCS10	802.11a-HT20 MCS10	140	5700	18.06	19.50	18.09	19.50	21.09	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		144	5720	18.11	20.00	17.98	19.50	21.06	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		102	5510	17.03	18.50	17.47	19.00	20.27	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		110	5550	17.09	18.50	17.28	19.00	20.20	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		126	5630	17.44	19.00	17.22	19.00	20.34	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
	802.11a-40MHz MCS10	134	5670	17.35	19.00	17.69	19.00	20.53	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		142	5710	17.25	19.00	17.62	19.00	20.45	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		100	5500	17.84	19.50	18.15	20.00	21.01	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		116	5580	18.58	20.00	17.85	19.50	21.24	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		124	5620	18.35	20.00	17.91	19.50	21.15	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
802.11a-20MHz MCS10	802.11a-20MHz MCS10	132	5660	18.41	20.00	18.12	20.00	21.28	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		140	5700	18.28	20.00	18.26	20.00	21.28	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		144	5720	18.31	20.00	18.17	20.00	21.25	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		102	5510	17.05	18.50	17.60	19.00	20.34	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		110	5550	17.09	18.50	17.48	19.00	20.30	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
	802.11a-20MHz MCS10	126	5630	17.68	19.00	17.35	19.00	20.53	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		134	5670	17.54	19.00	17.52	19.50	20.74	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		142	5710	17.50	19.00	17.76	19.50	20.66	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
802.11a-40MHz MCS10	802.11a-40MHz MCS10	120	5630	16.05	17.50	16.52	19.00	19.30	21.00	18.88		20.50		15.51		16.01		16.95		18.50		13.68		15.00		13.68		15.50		13.93		15.50		10.45		12.00		10.96		12.50					
		122	5610	16.66	18.00	16.31	19.00	19.50	21.00	19.11		20.50		15.87		17.50		16.83		17.75		17.16		13.98		15.50		13.85		15.50		10.89		12.50		10.87		12.50							
		138	5690	16.45	18.00	17.06	19.00	19.78	21.00	19.38		20.50		16.08		17.50		16.52		18.00		17.39		19.00		13.85		15.50		14.47		16.00		14.41		16.00		11.01		12.50		11.45		13.00	
		114	5570	15.23	17.00	15.36	17.50	18.31	20.00	20.00		17.00		17.00		18.00		19.00		19.00		18.00		19.00		15.50		16.00		16.00		16.00		12.50		13.00									
		100	5500	17.94	19.00	18.24	20.00	21.10	22.50	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
	802.11a-40MHz MCS10	116	5580	18.73	20.00	17.98	19.50	21.38	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		124	5620	18.85	20.00	18.51	20.00	21.50	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		132	5660	18.59	20.00	18.23	20.00	21.42	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
802.11a-20MHz MCS10	802.11a-20MHz MCS10	140	5700	18.46	20.00	18.46	20.00	21.47	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		144	5720	18.53	20.00	18.27	20.00	21.41	23.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		102	5510	17.17	19.00	17.72	19.50	20.46	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		110	5550	17.04	19.00	17.67	19.50	20.47	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		126	5630	17.80	19.50	17.86	20.00	20.74	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
	802.11a-40MHz MCS10	134	5670	17.71	19.50	18.02	19.50	20.88	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		142	5710	17.79	19.50	17.96	19.50	20.89	22.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		106	5530	16.05	17.50	16.66	18.50	19.38	21.00	20.50		17.50		18.00		19.00		15.50		16.00		16.00		12.50		13.00		12.50		13.00		12.50		13.00											
		122	5610	16.89	18.50	16.47	18.00	19.70	21.50	20.50		17.50		18.00		19.00		15.50		16.00		16.0																							



Head for Simultaneous WWAN+DSS AVE+4																Head for Simultaneous WWAN+DSS AVE4				Head for Simultaneous WWAN+DSS AVE5				Bodywork for Simultaneous WWAN+DSS Externally for Simultaneous WWAN+DSS AVE+4				Bodywork for Simultaneous WWAN+DSS Externally for Simultaneous WWAN+DSS AVE4				Bodywork for Simultaneous WWAN+DSS Externally for Simultaneous WWAN+DSS AVE5			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %					
5 GHz WLAN	802.11a 6Mbps	100	5500		13.00		9.50		10.00		18.00		14.50		15.00	99.32																			
		116	5580		13.00		9.50		10.00		18.00		14.50		15.00																				
		124	5620		13.00		9.50		10.00		18.00		14.50		15.00																				
		132	5660		13.00		9.50		10.00		18.00		14.50		15.00																				
		140	5700		13.00		9.50		10.00		18.00		14.50		15.00																				
		144	5720		13.00		9.50		10.00		18.00		14.50		15.00																				
	802.11a-HT20 MCS0	100	5500		13.00		9.50		10.00		18.00		14.50		15.00	100																			
		116	5580		13.00		9.50		10.00		18.00		14.50		15.00																				
		124	5620		13.00		9.50		10.00		18.00		14.50		15.00																				
		132	5660		13.00		9.50		10.00		18.00		14.50		15.00																				
		140	5700		13.00		9.50		10.00		18.00		14.50		15.00																				
		144	5720		13.00		9.50		10.00		18.00		14.50		15.00																				
	802.11a-HT40 MCS0	100	5500	Not Required		Not Required		Not Required		Not Required		Not Required		Not Required		Not Required	100																		
		110	5550		13.00		9.50		10.00		18.00		14.50		15.00																				
		128	5630		13.00		9.50		10.00		18.00		14.50		15.00																				
		134	5670		13.00		9.50		10.00		18.00		14.50		15.00																				
		142	5710		13.00		9.50		10.00		18.00		14.50		15.00																				
		146	5730		13.00		9.50		10.00		18.00		14.50		15.00																				
	802.11ac-WT20 MCS0	100	5500		13.00		9.50		10.00		18.00		14.50		15.00	100																			
		116	5580		13.00		9.50		10.00		18.00		14.50		15.00																				
		124	5620		13.00		9.50		10.00		18.00		14.50		15.00																				
		132	5660		13.00		9.50		10.00		18.00		14.50		15.00																				
		140	5700		13.00		9.50		10.00		18.00		14.50		15.00																				
		144	5720		13.00		9.50		10.00		18.00		14.50		15.00																				
	802.11ac-WT40 MCS0	100	5500		13.00		9.50		10.00		18.00		14.50		15.00	100																			
		110	5550		13.00		9.50		10.00		18.00		14.50		15.00																				
		128	5630		13.00		9.50		10.00		18.00		14.50		15.00																				
		134	5670		13.00		9.50		10.00		18.00		14.50		15.00																				
		142	5710		13.00		9.50		10.00		18.00		14.50		15.00																				
		146	5730		13.00		9.50		10.00		18.00		14.50		15.00																				
	802.11ac-WT80 MCS0	100	5500	10.94	12.50	7.43	9.00	7.99	9.50	15.92	17.50	12.45	14.00	13.01	14.50	100																			
		122	5610	11.13	13.00	7.87	9.50	7.88	9.50	16.12	18.00	12.85	14.50	12.87	14.50																				
		138	5690	11.40	13.00	7.98	9.50	8.42	10.00	16.37	18.00	12.96	14.50	13.41	15.00																				
		144	5720		13.00		9.50		10.00		18.00		14.50		15.00																				
		150	5760		13.00		9.50		10.00		18.00		14.50		15.00																				
		156	5800		13.00		9.50		10.00		18.00		14.50		15.00																				
	802.11ax-HE20 MCS0	100	5500		13.00		9.50		10.00		18.00		14.50		15.00	100																			
		116	5580		13.00		9.50		10.00		18.00		14.50		15.00																				
		124	5620		13.00		9.50		10.00		18.00		14.50		15.00																				
		132	5660		13.00		9.50		10.00		18.00		14.50		15.00																				
		140	5700		13.00		9.50		10.00		18.00		14.50		15.00																				
		144	5720		13.00		9.50		10.00		18.00		14.50		15.00																				
	802.11ax-HE40 MCS0	100	5500	Not Required		Not Required		Not Required		Not Required		Not Required		Not Required		Not Required	100																		
		110	5550		13.00		9.50		10.00		18.00		14.50		15.00																				
		128	5630		13.00		9.50		10.00		18.00		14.50		15.00																				
		134	5670		13.00		9.50		10.00		18.00		14.50		15.00																				
		142	5710		13.00		9.50		10.00		18.00		14.50		15.00																				
		146	5730		13.00		9.50		10.00		18.00		14.50		15.00																				
	802.11ax-HE80 MCS0	100	5500		13.00		9.50		10.00		18.00		14.50		15.00	100																			
		122	5610		13.00		9.50		10.00		18.00		14.50		15.00																				
		138	5690		13.00		9.50		10.00		18.00		14.50		15.00																				
		144	5720		13.00		9.50		10.00		18.00		14.50		15.00																				
		150	5760		13.00		9.50		10.00		18.00		14.50		15.00																				
		156	5800		13.00		9.50		10.00		18.00		14.50		15.00																				

5.8GHz WLAN																																																			
				Head for Simultaneous WWAN+DSS AVE+4				Head for Simultaneous WWAN+DSS AVE4				Head for Simultaneous WWAN+DSS AVE5				Bodywork for Simultaneous WWAN+non DSS AVE+4				Bodywork for Simultaneous WWAN+non DSS AVE4				Bodywork for Simultaneous WWAN+non DSS AVE5				Hotspot for Simultaneous WWAN+non DSS AVE+4				Hotspot for Simultaneous WWAN+non DSS AVE4				Hotspot for Simultaneous WWAN+non DSS AVE5				Hotspot for Simultaneous WWAN+DSS AVE+4				Hotspot for Simultaneous WWAN+DSS AVE4				Hotspot for Simultaneous WWAN+DSS AVE5			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %													
	802.11a 6Mbps	149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		14.00		13.50		14.00		14.00	99.32													
		157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		14.00																
		165	5825		13.00		10.00		10.50		Not Required		22.00		18.50		Not Required		19.00		19.50		16.50		17.00		16.50		13.50		14.00		13.50		14.00																
		149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		14.00																
		157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		14.00																
		165	5825		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		14.00																
	802.11a-HT20 MCS0	149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00	100													
		157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00														
		165	5825		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00														
		149	5745	Not Required		Not Required		Not Required		10.50	20.33	22.00	17.03	18.50	17.53	19.00	Not Required	19.50	Not Required	16.50	Not Required	17.00	Not Required	16.50	Not Required	13.50	Not Required	14.00	Not Required	13.50	Not Required	14.00	Not Required	13.50	Not Required	14.00															
		157	5785		13.00		10.00		10.50		20.31	22.00	17.12	18.50	17.56	19.00	Not Required	19.50	Not Required	16.50	Not Required	17.00	Not Required	16.50	Not Required	13.50	Not Required	14.00	Not Required	13.50	Not Required	14.00	Not Required	13.50	Not Required	14.00															
		165	5825		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00														
	802.11a-HT40 MCS0	149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00	100													
		157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00														
		165	5825		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00														
		149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00														
802.11ac VHT20 MCS0	149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00	100														
	157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00															
	165	5825		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00															
802.11ac VHT40 MCS0	149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00	100														
	157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00															
	165	5825		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00															
802.11ax-HE40 MCS0	149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00	100														
	157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00															
	165	5825	Not Required		Not Required		Not Required		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50			14.00													
802.11ax-HE40 MCS0	149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00	100														
	157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00															
	165	5825	Not Required		Not Required		Not Required		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50			14.00													
802.11ax-HE80 MCS0	149	5745		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00	100														
	157	5785		13.00		10.00		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50		14.00															
	165	5825	Not Required		Not Required		Not Required		10.50		22.00		18.50		19.00		19.50		16.50		17.00		16.50		13.50		14.00		14.00		13.50		14.00		13.50			14.00													

BR/EDR		Ant 5				
Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH00	2402	7.71	7.23	7.20	9.00
	CH39	2441	8.53	7.98	7.95	9.00
	CH78	2480	6.12	5.45	5.43	7.00

BLE 1M			
Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.88
	CH 19	2440	7.25
	CH 39	2480	5.02
Txn-up Limit			8.00

BLE 2M			
Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH00	2402	6.75
	CH19	2440	7.33
	CH39	2480	5.07
Tune-up Limit			8.00

BR/EDR		Ant 4				
Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH00	2402	10.42	9.97	9.96	11.00
	CH39	2441	11.57	11.15	11.16	12.00
	CH78	2480	9.11	8.48	8.48	10.00

BLE 1M			
Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH00	2402	8.51
	CH19	2440	9.59
	CH39	2480	7.36
Tune-up Limit			10.00

BLE_2M			
Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH00	2402	8.60
	CH19	2440	9.71
	CH39	2480	7.43
Tune-up Limit			10.00