



Band 12 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
794 797.5 799.5										
10	QPSK	1	0	22.96	22.96	22.96				
10	QPSK	1	35	22.95	22.54	22.92			24	0
10	QPSK	1	49	22.81	22.70	22.59				
10	QPSK	35	0	22.96	22.96	22.96				
10	QPSK	35	12	21.88	21.70	21.55			23	1
10	QPSK	35	25	21.68	21.64	21.63				
10	QPSK	35	0	21.70	21.70	21.52				
10	HOAM	1	0	21.71	21.68	21.63			23	1
10	HOAM	1	25	21.54	21.71	21.82				
10	HOAM	49	0	21.71	21.70	21.52				
10	HOAM	35	0	20.71	20.84	20.89				
10	HOAM	35	0	20.86	20.86	20.76			22	2
10	HOAM	35	25	20.59	20.72	20.70				
10	HOAM	50	0	20.89	20.75	20.82				
10	HOAM	1	0	20.96	20.96	21.00				
10	HOAM	1	35	20.82	20.83	20.81			22	2
10	HOAM	1	49	20.71	20.80	20.85				
10	HOAM	25	0	19.28	19.27	19.03				
10	HOAM	35	12	18.58	18.63	18.88			21	3
10	HOAM	35	25	18.48	18.61	18.55				
10	HOAM	50	0	18.47	18.61	18.58				
10	ZSSBQAM	1	0	17.75	17.95	17.73			19	5
10	ZSSBQAM	1	25	17.94	17.83	17.80				
10	ZSSBQAM	1	49	17.88	17.84	17.81				
10	ZSSBQAM	35	0	17.83	17.71	17.66			19	5
10	ZSSBQAM	35	12	17.65	17.65	17.67				
10	ZSSBQAM	35	25	17.68	17.75	17.80				
10	ZSSBQAM	50	0	17.66	17.65	17.71				
Channel										
Frequency (MHz)										
701.5 707.5 713.5										
5	QPSK	1	0	22.98	22.78	22.53				
5	QPSK	1	35	22.96	22.58	22.55			24	0
5	QPSK	1	49	22.47	22.07	22.49				
5	QPSK	12	0	21.83	21.86	21.51				
5	QPSK	12	7	21.83	21.50	21.50			23	1
5	QPSK	12	13	21.58	21.58	21.80				
5	QPSK	25	0	21.41	21.61	21.47				
5	HOAM	1	0	21.68	21.67	21.49			23	1
5	HOAM	1	12	21.42	21.67	21.57				
5	HOAM	1	24	21.44	21.44	21.36				
5	HOAM	12	0	20.59	20.79	20.72			22	2
5	HOAM	12	7	20.52	20.57	20.55				
5	HOAM	12	13	20.58	20.58	20.67				
5	HOAM	25	0	20.47	20.61	20.59			22	2
5	HOAM	1	0	20.86	20.70	20.45				
5	HOAM	1	12	20.72	20.86	20.87			22	2
5	HOAM	1	24	20.88	20.73	20.82				
5	HOAM	12	0	19.52	19.66	19.49				
5	HOAM	12	7	19.29	19.24	19.48			21	3
5	HOAM	12	13	19.25	19.28	19.47				
5	HOAM	25	0	19.40	19.51	19.45				
5	HOAM	1	0	17.70	17.85	17.81			19	5
5	ZSSBQAM	1	12	17.78	17.83	17.81				
5	ZSSBQAM	1	24	17.88	17.85	17.85				
5	ZSSBQAM	12	0	17.51	17.57	17.51			19	5
5	ZSSBQAM	12	7	17.44	17.51	17.51				
5	ZSSBQAM	12	13	17.68	17.68	17.66				
5	ZSSBQAM	25	0	17.55	17.58	17.61				
Channel										
Frequency (MHz)										
2307 2309.5 2311.5										
1.4	QPSK	1	0	22.97	22.78	22.53				
1.4	QPSK	1	3	22.94	22.78	22.54			24	0
1.4	QPSK	1	5	22.47	22.50	22.44				
1.4	QPSK	3	0	22.97	22.78	22.53				
1.4	QPSK	3	1	22.51	22.58	22.59				
1.4	QPSK	3	3	22.52	22.64	22.46				
1.4	QPSK	6	0	21.60	21.61	21.40			23	1
1.4	HOAM	1	0	21.58	21.50	21.47				
1.4	HOAM	3	0	21.69	21.68	21.50			23	1
1.4	HOAM	1	5	21.48	21.55	21.50				
1.4	HOAM	3	0	21.83	21.68	21.51				
1.4	HOAM	3	1	21.48	21.68	21.55				
1.4	HOAM	3	3	21.65	21.63	21.48				
1.4	HOAM	6	0	20.61	20.78	20.71			22	2
1.4	HOAM	1	3	20.51	20.57	20.81				
1.4	HOAM	1	6	20.32	20.71	20.52			22	2
1.4	HOAM	3	0	20.91	20.64	20.48				
1.4	HOAM	3	1	20.69	20.50	20.75				
1.4	HOAM	6	0	19.18	19.14	19.04			21	3
1.4	HOAM	6	0	19.11	19.57	19.48				
1.4	ZSSBQAM	1	0	17.66	17.83	17.60				
1.4	ZSSBQAM	1	3	17.79	17.78	17.76				
1.4	ZSSBQAM	1	5	17.84	17.82	17.74			19	5
1.4	ZSSBQAM	3	0	17.51	17.67	17.51				
1.4	ZSSBQAM	3	1	17.41	17.40	17.43				
1.4	ZSSBQAM	3	3	17.59	17.68	17.88				
1.4	ZSSBQAM	6	0	17.40	17.54	17.57			19	5

Band 13 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
792										
10	QPSK	1	0	22.97	22.97	22.97				
10	QPSK	1	25	22.91	22.91	22.91			24	0
10	QPSK	1	49	22.85	22.85	22.85				
10	QPSK	35	0	22.97	22.97	22.97				
10	QPSK	35	12	21.86	21.86	21.86			23	1
10	QPSK	35	25	21.81	21.81	21.81				
10	QPSK	50	0	21.82	21.82	21.82				
10	HOAM	1	0	21.79	21.79	21.79			23	1
10	HOAM	1	25	21.62	21.62	21.62				
10	HOAM	1	49	21.80	21.80	21.80				
10	HOAM	25	0	20.97	20.97	20.97				
10	HOAM	25	12	20.76	20.76	20.76			22	2
10	HOAM	25	25	20.88	20.88	20.88				
10	HOAM	50	0	20.88	20.88	20.88				
10	HOAM	1	0	20.85	20.85	20.85				
10	HOAM	1	25	21.10	21.10	21.10			22	2
10	HOAM	1	49	20.90	20.90	20.90				
10	HOAM	25	0	19.92	19.92	19.92				
10	HOAM	25	12	18.71	18.71	18.71			21	3
10	HOAM	25	25	18.88	18.88	18.88				
10	HOAM	50	0	19.75	19.75	19.75				
10	ZSSBQAM	1	0	18.06	18.06	18.06			19	5
10	ZSSBQAM	1	25	17.80	17.80	17.80				
10	ZSSBQAM	1	49	18.13	18.13	18.13				
10	ZSSBQAM	25	0	17.82	17.82	17.82			19	5
10	ZSSBQAM	25	12	17.70	17.70	17.70				
10	ZSSBQAM	25	25	17.88	17.88	17.88				
10	ZSSBQAM	50	0	17.82	17.82	17.82				
Channel										
Frequency (MHz)										
2305 2307 2309.5										
792.5 792 794.5										
5	QPSK	1	0	22.90	22.93	22.83				
5	QPSK	1	19	22.87	22.80	22.81			24	0
5	QPSK	1	24	22.77	22.73	22.81				
5	QPSK	12	0	21.81	21.74	21.79				
5	QPSK	12	7	21.78	21.81	21.82			23	1
5	QPSK	12	13	21.77	21.77	21.71				
5	QPSK	25	0	21.68	21.70	21.73				
5	HOAM	1	0	21.74	21.75	21.72			23	1
5	HOAM	1	12	21.74	21.79	21.78				
5	HOAM	1	24	21.68	21.76	21.78				
5	HOAM	12	0	20.81	20.80	20.77			22	2
5	HOAM	12	7	20.89	20.83	20.85				
5	HOAM	12	13	20.81	20.80	20.80				
5	HOAM	25	0	20.79	20.79	20.78			22	2
5	HOAM	1	0	20.77	20.74	20.78				
5	HOAM	1	12	21.05	21.00	20.95			22	2
5	HOAM	1	24	20.75	20.77	20.80				
5	HOAM	12	0	19.70	19.78	19.79				
5	HOAM	12	7	19.60	19.58	19.62			21	3
5	HOAM	12	13	19.58	19.52	19.54				
5	HOAM	25	0	19.51	19.53	19.67				
5	HOAM	1	0	17.84	17.85	17.85			19	5
5	ZSSBQAM	1	12	17.82	17.90	17.83				
5	ZSSBQAM	1	24	18.00	18.00	18.00				
5	ZSSBQAM	12	0	17.70	17.69	17.68			19	5
5	ZSSBQAM	12	7	17.69	17.82	17.88				
5	ZSSBQAM	12	13	17.84	17.77	17.86				
5	ZSSBQAM	25	0	17.70	17.76	17.77				

Band 14 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
793										
10	QPSK	1	0	22.94	22.94	22.94				
10	QPSK	1	35	22.94	22.94	22.94			24	0
10	QPSK	1	49	22.88	22.88	22.88				
10	QPSK	35								



Band 26 Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch/Freq	Power High Ch/Freq	Power Max Ch/Freq	Turn-up (dB)	MFR (dB)			
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.82	22.82	22.77					
15	QPSK	1	37	22.85	22.75	22.84	24	0			
15	QPSK	1	74	22.88	22.73	22.82					
15	QPSK	3	0	21.63	21.51	21.52					
15	QPSK	36	20	21.63	21.70	21.48					
15	QPSK	36	56	21.63	21.69	21.59					
15	QPSK	36	86	21.63	21.73	21.58					
15	HQAM	1	0	21.67	21.64	21.60					
15	HQAM	1	37	21.55	21.60	21.60	23	1			
15	HQAM	1	74	21.69	21.73	21.58					
15	HQAM	36	0	20.81	20.81	20.79					
15	HQAM	36	20	20.78	20.87	20.74					
15	HQAM	36	50	20.75	20.87	20.85					
15	HQAM	36	80	20.84	20.75	20.87					
15	HQAM	36	110	20.83	20.87	20.81					
15	HQAM	1	37	20.83	20.59	20.59	22	2			
15	HQAM	1	74	20.77	20.77	20.81					
15	HQAM	36	0	19.83	19.87	19.71					
15	HQAM	36	20	19.84	19.81	19.85					
15	HQAM	36	50	19.87	19.83	19.84					
15	HQAM	36	80	19.85	19.81	19.85					
15	HQAM	36	110	19.87	19.83	19.85					
15	HQAM	1	0	17.77	17.83	17.77					
15	HQAM	1	37	17.78	17.75	17.80					
15	HQAM	1	74	17.83	17.84	17.81					
15	HQAM	36	0	17.86	17.75	17.87					
15	HQAM	36	20	17.83	17.84	17.81					
15	HQAM	36	50	17.87	17.75	17.84					
15	HQAM	36	80	17.87	17.75	17.84					
15	HQAM	36	110	17.80	17.74	17.80					
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.82	22.82	22.77					
15	QPSK	1	37	22.85	22.75	22.84	24	0			
15	QPSK	1	74	22.88	22.73	22.82					
15	QPSK	3	0	21.63	21.51	21.52					
15	QPSK	36	20	21.63	21.70	21.48					
15	QPSK	36	56	21.63	21.69	21.59					
15	QPSK	36	86	21.63	21.73	21.58					
15	HQAM	1	0	21.67	21.64	21.60					
15	HQAM	1	37	21.55	21.60	21.60	23	1			
15	HQAM	1	74	21.69	21.73	21.58					
15	HQAM	36	0	20.81	20.81	20.79					
15	HQAM	36	20	20.78	20.87	20.74					
15	HQAM	36	50	20.75	20.87	20.85					
15	HQAM	36	80	20.84	20.75	20.87					
15	HQAM	36	110	20.83	20.87	20.81					
15	HQAM	1	37	20.83	20.59	20.59	22	2			
15	HQAM	1	74	20.77	20.77	20.81					
15	HQAM	36	0	19.83	19.87	19.71					
15	HQAM	36	20	19.84	19.81	19.85					
15	HQAM	36	50	19.87	19.83	19.84					
15	HQAM	36	80	19.85	19.81	19.85					
15	HQAM	36	110	19.87	19.83	19.85					
15	HQAM	1	0	17.77	17.83	17.77					
15	HQAM	1	37	17.78	17.75	17.80					
15	HQAM	1	74	17.83	17.84	17.81					
15	HQAM	36	0	17.86	17.75	17.87					
15	HQAM	36	20	17.83	17.84	17.81					
15	HQAM	36	50	17.87	17.75	17.84					
15	HQAM	36	80	17.87	17.75	17.84					
15	HQAM	36	110	17.80	17.74	17.80					
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.82	22.82	22.77					
15	QPSK	1	37	22.85	22.75	22.84	24	0			
15	QPSK	1	74	22.88	22.73	22.82					
15	QPSK	3	0	21.63	21.51	21.52					
15	QPSK	36	20	21.63	21.70	21.48					
15	QPSK	36	56	21.63	21.69	21.59					
15	QPSK	36	86	21.63	21.73	21.58					
15	HQAM	1	0	21.67	21.64	21.60					
15	HQAM	1	37	21.55	21.60	21.60	23	1			
15	HQAM	1	74	21.69	21.73	21.58					
15	HQAM	36	0	20.81	20.81	20.79					
15	HQAM	36	20	20.78	20.87	20.74					
15	HQAM	36	50	20.75	20.87	20.85					
15	HQAM	36	80	20.84	20.75	20.87					
15	HQAM	36	110	20.83	20.87	20.81					
15	HQAM	1	37	20.83	20.59	20.59	22	2			
15	HQAM	1	74	20.77	20.77	20.81					
15	HQAM	36	0	19.83	19.87	19.71					
15	HQAM	36	20	19.84	19.81	19.85					
15	HQAM	36	50	19.87	19.83	19.84					
15	HQAM	36	80	19.85	19.81	19.85					
15	HQAM	36	110	19.87	19.83	19.85					
15	HQAM	1	0	17.77	17.83	17.77					
15	HQAM	1	37	17.78	17.75	17.80					
15	HQAM	1	74	17.83	17.84	17.81					
15	HQAM	36	0	17.86	17.75	17.87					
15	HQAM	36	20	17.83	17.84	17.81					
15	HQAM	36	50	17.87	17.75	17.84					
15	HQAM	36	80	17.87	17.75	17.84					
15	HQAM	36	110	17.80	17.74	17.80					

Band 66 Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch/Freq	Power High Ch/Freq	Power Max Ch/Freq	Turn-up (dB)	MFR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.70	22.89	22.77					
20	QPSK	1	49	22.74	22.80	22.80	24	0			
20	QPSK	1	99	22.88	22.79	22.87					
20	QPSK	3	0	21.67	21.55	21.57					
20	QPSK	50	24	21.63	21.62	21.51					
20	QPSK	50	50	21.75	21.74	21.57					
20	QPSK	50	76	21.69	21.73	21.68					
20	HQAM	1	0	21.74	21.74	21.58					
20	HQAM	1	49	21.54	21.65	21.62	23	1			
20	HQAM	1	99	21.67	21.73	21.63					
20	HQAM	50	0	20.91	20.97	20.83					
20	HQAM	50	24	20.86	20.96	20.74					
20	HQAM	50	50	20.81	20.81	20.74					
20	HQAM	50	76	20.87	20.75	20.88					
20	HQAM	50	102	20.74	20.84	20.74					
20	HQAM	1	49	20.87	21.05	20.97	22	2			
20	HQAM	1	99	20.82	20.77	20.85					
20	HQAM	50	0	19.85	19.75	19.89					
20	HQAM	50	24	19.86	19.81	19.89					
20	HQAM	50	50	19.88	19.85	19.89					
20	HQAM	50	76	19.87	19.78	19.89					
20	HQAM	50	102	19.85	19.83	19.89					
20	HQAM	1	0	17.78	17.84	17.80					
20	HQAM	1	49	17.83	17.79	17.89					
20	HQAM	1	99	17.88	17.81	17.84					
20	HQAM	50	0	17.77	17.83	17.84					
20	HQAM	50	24	17.80	17.84	17.84					
20	HQAM	50	50	17.72	17.88	17.73					
20	HQAM	50	76	17.72	17.88	17.73					
20	HQAM	50	102	17.54	17.78	17.88					
Channel											
Frequency (MHz)											
16	QPSK	1	0	22.70	22.89	22.77					
16	QPSK	1	31	22.81	22.81</						



Band 38 Ant 0										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Max Ch / Freq	Power Max Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
37850	38000	38150								
20	QPSK	1	0	23.21	23.20	23.27			24	0
20	QPSK	1	40	23.11	23.20	23.24				
20	QPSK	1	80	23.15	23.24	23.18				
20	QPSK	50	0	22.21	22.20	22.13				
20	QPSK	50	24	22.15	22.16	22.18				
20	QPSK	50	50	22.14	22.13	21.98			23	1
20	QPSK	100	0	22.04	22.03	22.04				
20	16QAM	1	0	22.06	22.06	22.06				
20	16QAM	1	40	21.93	22.14	22.07			23	1
20	16QAM	1	80	22.11	22.12	22.05				
20	16QAM	50	0	21.91	21.92	21.98				
20	16QAM	50	24	21.98	21.95	21.98				
20	16QAM	50	50	21.12	21.18	21.48				
20	8QAM	1	0	21.28	21.31	21.19			22	2
20	8QAM	1	40	21.32	21.47	21.37				
20	8QAM	1	80	21.19	21.18	21.23				
20	8QAM	50	0	22.06	22.06	22.06				
20	8QAM	50	24	22.04	22.01	21.99				
20	8QAM	50	50	20.02	20.07	19.99				
20	8QAM	100	0	20.00	20.18	20.08				
20	25QAM	1	0	18.19	18.26	18.21				
20	25QAM	1	40	18.18	18.24	18.25				
20	25QAM	1	80	18.07	18.02	18.20				
20	25QAM	50	0	18.13	18.17	17.98			19	5
20	25QAM	50	24	18.05	18.22	18.20				
20	25QAM	50	50	18.12	18.26	18.16				
20	25QAM	100	0	17.95	18.21	18.08				
Channel										
Frequency (MHz)										
237.5	239.5	241.5								
15	QPSK	1	0	23.10	23.22	23.17			24	0
15	QPSK	1	40	23.14	23.14	23.16				
15	QPSK	1	80	23.08	23.10	23.07				
15	QPSK	50	0	22.15	22.16	22.16				
15	QPSK	50	24	22.19	22.08	22.12			23	1
15	QPSK	50	50	22.05	21.99	21.91				
15	QPSK	100	0	22.03	22.11	21.90				
15	16QAM	1	0	22.00	22.11	21.98				
15	16QAM	1	40	22.04	21.98	21.96			23	1
15	16QAM	1	80	21.09	21.10	21.12				
15	16QAM	50	0	21.08	21.08	21.07				
15	16QAM	50	24	21.12	21.19	21.22			22	2
15	16QAM	50	50	21.03	21.18	21.17				
15	16QAM	100	0	21.18	21.18	21.20				
15	8QAM	1	0	21.22	21.32	21.24			22	2
15	8QAM	1	40	21.11	21.14	21.10				
15	8QAM	1	80	20.08	20.07	20.12				
15	8QAM	50	0	19.82	19.95	19.94				
15	8QAM	50	24	19.88	20.00	19.95			21	3
15	8QAM	50	50	19.85	19.92	19.95				
15	8QAM	100	0	19.09	19.15	19.17				
15	25QAM	1	0	18.31	18.33	18.26			19	5
15	25QAM	1	40	18.02	18.02	18.20				
15	25QAM	1	80	17.80	18.16	17.85				
15	25QAM	50	0	18.03	18.21	18.10			19	5
15	25QAM	50	24	17.82	18.09	18.10				
Channel										
Frequency (MHz)										
37850	38000	38150								
10	QPSK	1	0	23.16	23.26	23.20			24	0
10	QPSK	1	25	23.04	23.16	23.10				
10	QPSK	1	50	23.11	23.12	23.16				
10	QPSK	25	0	22.16	22.18	21.88				
10	QPSK	25	12	22.07	22.14	22.06			23	1
10	QPSK	25	25	22.05	22.05	21.98				
10	QPSK	50	0	21.83	22.11	21.99				
10	16QAM	1	0	21.83	22.07	22.02			23	1
10	16QAM	1	40	22.05	21.98	22.02				
10	16QAM	1	80	21.02	21.11	21.06				
10	16QAM	25	0	21.05	21.18	21.02			22	2
10	16QAM	25	12	21.02	21.12	21.05				
10	16QAM	25	25	21.00	21.13	21.00				
10	8QAM	1	0	21.18	21.17	21.10				
10	8QAM	1	25	21.20	21.22	21.18			22	2
10	8QAM	1	50	21.03	21.13	21.18				
10	8QAM	25	0	20.10	20.21	20.17				
10	8QAM	25	12	19.91	20.02	20.13			21	3
10	8QAM	25	25	19.99	20.02	20.01				
10	8QAM	50	0	20.00	20.10	20.03				
10	8QAM	50	12	19.84	19.18	19.20			19	5
10	25QAM	1	0	18.11	18.24	18.23				
10	25QAM	1	25	18.11	18.24	18.23				
10	25QAM	25	12	17.88	18.02	18.15			19	5
10	25QAM	25	25	17.88	18.15	18.12				
10	25QAM	50	0	18.18	18.02	18.23				
Channel										
Frequency (MHz)										
30970	40180	40600	41050	41400						
5	QPSK	1	0	23.08	23.23	23.31			24	0
5	QPSK	1	12	23.09	23.13	23.15				
5	QPSK	1	24	23.00	23.18	23.21				
5	QPSK	12	0	22.14	22.10	22.20				
5	QPSK	12	12	22.14	22.10	22.20			23	1
5	QPSK	12	24	22.06	22.15	22.18				
5	16QAM	1	0	21.85	22.05	22.05				
5	16QAM	1	12	21.80	22.01	22.18			23	1
5	16QAM	1	24	21.82	21.92	21.98				
5	16QAM	12	0	21.13	21.20	21.13				
5	16QAM	12	12	21.05	21.18	21.20			22	2
5	16QAM	12	24	21.04	21.23	21.11				
5	16QAM	25	0	21.04	21.20	21.13				
5	16QAM	25	12	21.04	21.23	21.11			22	2
5	16QAM	25	24	21.01	21.10	21.18				
5	8QAM	1	0	21.11	21.14	21.10				
5	8QAM	1	12	21.10	21.14	21.10			21	3
5	8QAM	1	24	21.05	21.14	21.10				
5	8QAM	12	0	20.02	20.02	20.03				
5	25QAM	1	0	18.00	18.25	18.30			19	5
5	25QAM	1	12	18.14	18.20	18.25				
5	25QAM	1	24	18.31	18.38	18.23			18	24
5	25QAM	12	0	18.00	18.00	18.00				
5	25QAM	12	12	18.01	18.15	18.13			19	5
5	25QAM	12	24	18.08	18.09	18.13				
5	25QAM	25	0	18.00	18.00	18.00				

Band 41 Ant 0										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Max Ch / Freq	Power Max Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
30970	40180	40600	41050	41400						
20	QPSK	1	0	21.19	21.30	21.35	21.34	21.23	24	0
20	QPSK	1	40	22.18	22.23	22.28	22.30	22.10		
20	QPSK	1	80	22.10	22.24	22.34	22.36	22.18		
20	QPSK	50	0	22.24	22.28	22.38	22.19	22.18		
20	QPSK	50	24	22.15	22.24	22.36	22.19	22.18		
20	QPSK	50	50	22.17	22.23	22.24	22.08	22.20	23	1
20	QPSK	100	0	22.01	22.10	22.28	22.19	22.05		
20	16QAM	1	0	22.02	22.13	22.26	22.11	22.00		
20	16QAM	1	40	21.85	22.03	22.21	22.15	21.90	23	1
20	16QAM	1	80	22.21	22.25	22.21	22.20	22.18		
20	16QAM	50	0	21.91	21.91	21.91	21.91	21.90		
20	16QAM	50	24	21.16	21.24	21.28	21.21	21.18		
20	16QAM	50	50	21.13	21.20	21.25	21.25	21.20		
20	8QAM	1	0	21.17	21.27	21.25	21.21	21.13		
20	8QAM	1	40	21.20	21.38	21.39	21.25	21.33		
20	8QAM	1	80	21.92	21.91	21.92	21.94	21.20		
20	8QAM	50	0	21.15	21.25	21.30	21.28	21.21		
20	8QAM	50	24	22.02	22.12	22.22	22.11	22.07		
20	8QAM	50	50	20.07	20.05	20.17	20.08	19.98		
20	8QAM	100	0	20.03	20.09	20.13	20.07	19.99		
20	8QAM	100	0	20.07	20.15	20.28	20.20	20.00		
20	25QAM	1	0	18.17	18.30	18.41	18.31	18.18		
20	25QAM	1	40	18.25	18.32	18.34	18.41	18.18		
20	25QAM	1	80	18.35	18.28	18.25	18.41	18.17		
20	25QAM	50	0	18.22	18.29	18.26	18.13	18.17		
20	25QAM	50	24	18.00	18.10	18.27	18.15	18.15		
20	25QAM	50	50	18.11	18.19	18.22	18.23	18.12		
20	25QAM	100	0	18.20	18.18	18.20	18.20	17.99		
Channel										
Frequency (MHz)										
2501.5	2643.5	2701.5	2837.5	2922.5						
15	QPSK	1	0	23.16	23.26	23.20			24	0
15	QPSK	1	40	23.11	23.14	23.16				
15	QPSK	1	80	23.08	23.09	23.07				
15	QPSK	50	0	22.15	22.16	22.16				
15	QPSK	50	24	22.1						



COGNAC A&T											
	Ruled Average Power (dBm)			Turn-up	Frame Average Power (dBm)			Turn-up			
TX Channel	194	189	201	Limit (dBm)	198	199	201	Limit (dBm)			
Frequency (MHz)	824.8	814.4	819.2	33.00	802.2	804.4	808.8				
OSM 1 Tx Limit	32.86	30.84	32.91	33.00	29.86	29.44	29.91	29.90			
OSM 3 Tx Limit	32.84	30.80	32.75	33.00	29.84	29.36	29.71	29.90			
OSM 2 Tx Limit	35.15	33.29	35.17	31.89	34.15	34.20	34.17	35.00			
OSM 4 Tx Limit	28.89	28.74	28.84	29.00	27.89	27.88	27.89	28.00			
EDGE 1 Tx Limit	25.00	25.00	25.00	27.00	18.00	18.00	18.00	18.00			
EDGE 2 Tx Limit	25.00	25.15	25.00	26.00	18.00	18.15	18.00	18.00			
EDGE 3 Tx Limit	23.34	23.41	23.27	24.00	16.00	16.15	16.01	20.24			
EDGE 4 Tx Limit	21.68	21.81	21.70	22.00	14.68	14.81	14.70	20.00			
COGNAC A&T											
	Ruled Average Power (dBm)			Turn-up	Frame Average Power (dBm)			Turn-up			
TX Channel	512	481	490	Limit (dBm)	512	481	490	Limit (dBm)			
Frequency (MHz)	864	864	864	33.00	864	864	864				
OSM 1 Tx Limit	30.21	28.28	30.24	30.00	29.21	28.24	29.24	29.00			
OSM 3 Tx Limit	29.12	26.23	29.15	30.00	28.12	26.23	29.15	29.00			
OSM 2 Tx Limit	26.71	26.17	26.08	27.00	25.71	26.17	26.08	27.00			
OSM 4 Tx Limit	24.42	24.54	24.41	25.00	23.42	23.28	23.15	21.24			
EDGE 1 Tx Limit	22.75	22.86	22.74	24.00	15.75	15.86	15.74	21.00			
EDGE 2 Tx Limit	24.00	24.30	24.10	25.00	18.00	18.30	18.10	18.00			
EDGE 3 Tx Limit	23.00	22.71	23.00	24.00	17.00	17.21	17.00	18.00			
EDGE 4 Tx Limit	21.29	21.48	21.28	23.00	17.52	17.62	17.52	18.74			
EDGE 5 Tx Limit	20.00	20.15	20.01	21.00	17.00	17.15	17.01	18.00			
WICOMA A&T											
	WICOMA I			Turn-up	WICOMA IV			Turn-up	WICOMA V		
TX Channel	9063	8600	8608	Limit (dBm)	1512	1415	1513	Limit (dBm)	4132	4132	
Frequency (MHz)	8602	8600	8608	33.00	1537	1638	1738	33.00	4307	4408	
OSM 1 Subcar	AMR 12-20kpa	21.89	21.83	21.85	23.00	21.59	21.73	21.82	23.00	22.81	22.86
OSM 2 Subcar	AMR 12-20kpa	21.84	21.78	21.80	23.00	21.66	21.69	21.74	23.00	22.21	22.26
OSM 3 Subcar	MSM 1	20.79	21.03	20.73	22.00	20.93	21.00	20.81	22.00	21.63	22.03
OSM 4 Subcar	MSM 2	20.58	20.68	20.75	22.00	20.64	20.76	20.76	22.00	21.86	21.76
OSM 5 Subcar	MSM 3	20.51	20.52	20.55	21.00	20.34	20.31	20.29	21.00	21.51	21.25
OSM 6 Subcar	MSM 4	20.11	20.26	20.23	21.00	20.23	20.31	20.33	21.00	21.26	21.34
OSM 7 Subcar	DC-MSM 1	20.24	20.14	20.01	22.00	20.84	20.80	20.80	22.00	21.80	21.75
OSM 8 Subcar	DC-MSM 2	20.21	20.52	20.71	22.00	20.78	20.60	20.80	22.00	21.21	21.59
OSM 9 Subcar	DC-MSM 3	20.13	20.27	20.00	21.00	20.22	20.26	20.27	21.00	21.18	21.33
OSM 10 Subcar	DC-MSM 4	20.02	20.30	19.92	21.00	20.14	20.33	20.05	21.00	21.18	21.36
OSM 11 Subcar	MSM 5	20.84	20.50	20.25	22.00	19.91	20.78	20.11	22.00	21.48	21.40
OSM 12 Subcar	MSM 6	18.79	18.75	18.87	20.00	18.91	18.80	18.73	20.00	18.81	18.86
OSM 13 Subcar	MSM 7	18.00	18.84	18.82	21.00	18.70	18.86	18.89	21.00	20.01	20.73
OSM 14 Subcar	MSM 8	18.00	18.00	18.01	20.00	18.07	18.70	18.73	20.00	18.61	18.83
OSM 15 Subcar	MSM 9	20.58	20.74	20.53	22.00	20.64	20.78	20.66	22.00	21.84	21.73



SPRINT

Band 2 Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. (W/Hz)	Power Malloc. (W)	Power Ch./Freq. (W/Hz)	Power Malloc. (W)	Turn-up (dB)	MFR (dB)	Turn-up (dB)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	1880	1880	1900					
20	QPSK	1	49	2114	2114	2113				23	0
20	QPSK	1	99	2109	2109	2111					
20	QPSK	3	0	2002	2002	1994					
20	QPSK	50	24	2012	2012	2009					
20	QPSK	50	24	2011	2010	2007				22	1
20	QPSK	50	24	2005	2005	1994					
20	HQAM	1	0	2058	2058	2039					
20	HQAM	1	49	2003	2003	2011				22	1
20	HQAM	1	99	2002	2002	2004					
20	HQAM	50	0	1931	1932	1924					
20	HQAM	50	24	1931	1931	1924					
20	HQAM	50	24	1927	1927	1917				21	2
20	HQAM	100	0	1920	1920	1909					
20	HQAM	1	49	1932	1932	1925				21	2
20	HQAM	1	99	1928	1927	1911					
20	HQAM	50	24	1734	1734	1744					
20	HQAM	50	24	1733	1732	1724					
20	HQAM	100	0	1732	1732	1727					
20	ZSSBAM	1	0	1825	1825	1830					
20	ZSSBAM	1	49	1821	1826	1831				18	5
20	ZSSBAM	1	99	1820	1820	1824					
20	ZSSBAM	50	0	1803	1811	1814					
20	ZSSBAM	50	24	1802	1802	1802					
20	ZSSBAM	50	24	1797	1797	1785				18	5
20	ZSSBAM	100	0	1788	1788	1804					
Channel											
Frequency (MHz)											
15	QPSK	1	0	2103	2103	2109					
15	QPSK	1	49	2108	2108	2105				23	0
15	QPSK	1	99	2105	2105	2108					
15	QPSK	3	0	2058	2058	2058					
15	QPSK	3	49	2058	2058	2058					
15	QPSK	3	99	2058	2058	2058					
15	QPSK	75	0	1991	1996	1987				22	1
15	QPSK	75	0	1994	1994	1994					
15	HQAM	1	49	1935	1935	1933				22	1
15	HQAM	1	99	1935	1935	1934					
15	HQAM	50	24	1925	1925	1914					
15	HQAM	50	24	1925	1925	1925					
15	HQAM	100	0	1925	1925	1925					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	50	24	1920	1920	1920					
15	HQAM	100	0	1920	1920	1920					
15	HQAM	1	49	1928	1928	1924				21	2
15	HQAM	1	99	1928	1928	1924					
15	HQAM	50	24	1							



Band 12 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.22	22.22	22.22				
10	QPSK	1	35	22.22	22.22	22.22			24	0
10	QPSK	1	40	22.32	22.32	22.32				
10	QPSK	35	0	21.41	21.41	21.41				
10	QPSK	35	12	21.41	21.41	21.41			23	1
10	QPSK	35	25	21.40	21.53	21.30				
10	QPSK	35	0	21.42	21.42	21.42				
10	IQAM	1	0	21.47	21.54	21.39				
10	IQAM	1	25	21.34	21.50	21.38			23	1
10	IQAM	40	0	20.92	20.97	20.96				
10	IQAM	25	0	20.92	20.91	20.49				
10	IQAM	25	0	20.92	20.91	20.49				
10	IQAM	25	25	20.43	20.55	20.42			22	2
10	IQAM	50	0	20.18	20.50	20.24				
10	IQAM	1	0	20.92	20.92	20.55				
10	IQAM	1	25	20.73	20.71	20.50			22	2
10	IQAM	1	40	20.36	20.58	20.38				
10	IQAM	25	0	19.43	19.40	19.33				
10	IQAM	25	12	19.42	19.48	19.39			21	3
10	IQAM	25	25	19.34	19.47	19.33				
10	IQAM	50	0	18.29	19.07	18.63				
10	ZSSBAM	1	0	17.57	17.75	17.64				
10	ZSSBAM	1	25	17.48	17.50	17.63			19	5
10	ZSSBAM	1	40	17.64	17.59	17.61				
10	ZSSBAM	25	0	17.42	17.57	17.43				
10	ZSSBAM	25	12	17.52	17.51	17.44				
10	ZSSBAM	25	25	17.54	17.51	17.49			19	5
10	ZSSBAM	50	0	17.27	17.39	17.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.22	22.22	22.12				
5	QPSK	1	12	22.16	22.23	22.26				
5	QPSK	1	24	22.20	22.23	22.15			24	0
5	QPSK	12	0	21.36	21.53	21.29				
5	QPSK	12	13	21.36	21.40	21.25			23	1
5	QPSK	25	0	21.14	21.23	21.11				
5	IQAM	1	0	21.44	21.51	21.33				
5	IQAM	1	12	21.24	21.50	21.31			23	1
5	IQAM	1	24	21.18	21.41	21.21				
5	IQAM	12	0	20.48	20.48	20.40			22	2
5	IQAM	12	7	20.33	20.28	20.40				
5	IQAM	12	13	20.48	20.48	20.40				
5	IQAM	25	0	20.08	20.41	20.21			22	2
5	IQAM	1	0	20.48	20.40	20.38				
5	IQAM	1	12	20.25	20.43	20.23			22	2
5	IQAM	1	24	20.25	20.43	20.23				
5	IQAM	12	0	19.52	19.41	19.28				
5	IQAM	12	7	19.38	19.43	19.33				
5	IQAM	12	13	19.24	19.35	19.21			21	3
5	IQAM	25	0	19.11	19.23	19.30				
5	ZSSBAM	1	0	17.43	17.52	17.48				
5	ZSSBAM	1	12	17.38	17.45	17.49			19	5
5	ZSSBAM	1	24	17.58	17.46	17.41				
5	ZSSBAM	12	0	17.37	17.45	17.38				
5	ZSSBAM	12	7	17.37	17.30	17.28			19	5
5	ZSSBAM	12	13	17.44	17.41	17.43				
5	ZSSBAM	25	0	17.15	17.29	17.17				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.21	22.30	22.15				
3	QPSK	1	8	22.13	22.27	22.25			24	0
3	QPSK	14	0	22.16	22.25	22.22				
3	QPSK	8	0	21.41	21.48	21.33				
3	QPSK	8	4	21.26	21.31	21.38			23	1
3	QPSK	7	0	21.38	21.46	21.22				
3	QPSK	16	0	21.20	21.27	21.07				
3	IQAM	1	0	21.43	21.41	21.26				
3	IQAM	1	8	21.42	21.42	21.23			23	1
3	IQAM	1	14	21.15	21.37	21.25				
3	IQAM	8	0	20.65	20.48	20.44				
3	IQAM	8	4	20.27	20.35	20.39			22	2
3	IQAM	8	7	20.37	20.48	20.29				
3	IQAM	8	0	20.13	20.38	20.06				
3	IQAM	1	0	20.43	20.45	20.44				
3	IQAM	1	8	20.65	20.65	20.55			22	2
3	IQAM	14	0	20.23	20.51	20.21				
3	IQAM	8	0	19.41	19.34	19.24				
3	IQAM	8	4	19.38	19.42	19.31			21	3
3	IQAM	8	7	19.38	19.51	19.26				
3	IQAM	16	0	19.21	19.29	19.35				
3	ZSSBAM	1	0	17.44	17.46	17.41				
3	ZSSBAM	1	8	17.44	17.45	17.60			19	5
3	ZSSBAM	1	14	17.57	17.71	17.49				
3	ZSSBAM	8	0	17.38	17.45	17.38				
3	ZSSBAM	8	4	17.35	17.35	17.38			19	5
3	ZSSBAM	8	7	17.46	17.41	17.35				
3	ZSSBAM	16	0	17.29	17.24	17.23				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.22	22.30	22.18				
1.4	QPSK	1	3	22.16	22.28	22.25				
1.4	QPSK	1	5	22.22	22.31	22.14			24	0
1.4	QPSK	3	0	22.24	22.30	22.09				
1.4	QPSK	3	1	22.09	22.30	22.24				
1.4	QPSK	3	3	22.21	22.25	22.22				
1.4	QPSK	6	0	21.40	21.53	21.33			23	1
1.4	IQAM	1	0	21.38	21.40	21.28				
1.4	IQAM	1	3	21.49	21.46	21.25				
1.4	IQAM	1	5	21.18	21.29	21.12			23	1
1.4	IQAM	3	0	21.33	21.49	21.24				
1.4	IQAM	3	1	21.33	21.48	21.51				
1.4	IQAM	3	3	21.07	21.37	21.28				
1.4	IQAM	6	0	20.55	20.47	20.38			22	2
1.4	IQAM	1	0	20.29	20.26	20.38				
1.4	IQAM	1	3	20.34	20.44	20.29				
1.4	IQAM	1	6	20.07	20.38	20.19			22	2
1.4	IQAM	3	0	20.45	20.38	20.40				
1.4	IQAM	3	1	20.61	20.63	20.49				
1.4	IQAM	6	0	19.17	19.35	19.26				
1.4	IQAM	6	0	19.41	19.59	19.28			21	3
1.4	ZSSBAM	1	0	17.46	17.67	17.50				
1.4	ZSSBAM	1	3	17.38	17.41	17.48				
1.4	ZSSBAM	1	5	17.60	17.70	17.51			19	5
1.4	ZSSBAM	3	0	17.29	17.51	17.35				
1.4	ZSSBAM	3	1	17.43	17.28	17.24				
1.4	ZSSBAM	3	3	17.41	17.37	17.35				
1.4	ZSSBAM	6	0	17.22	17.32	17.16			19	5

Band 13 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.49	22.52	22.41				
10	QPSK	1	25	22.40	22.30	22.38			24	0
10	QPSK	1	49	22.38	22.34	22.30				
10	QPSK	35	0	21.55	21.55	21.55				
10	QPSK	35	12	21.65	21.65	21.65			23	1
10	QPSK	35	25	21.50	21.50	21.50				
10	IQAM	1	0	21.85	21.85	21.85				
10	IQAM	1	25	21.80	21.80	21.80			23	1
10	IQAM	25	12	21.51	21.51	21.51				
10	IQAM	25	0	20.97	20.97	20.97				
10	IQAM	25	25	20.70	20.70	20.70			22	2
10	IQAM	50	0	20.71	20.71	20.71				
10	IQAM	1	0	20.70	20.70	20.70				
10	IQAM	1	25	20.34	20.34	20.34			22	2
10	IQAM	1	49	20.34	20.34	20.34				
10	IQAM	25	0	19.70	19.70	19.70				
10	IQAM	25	12	19.64	19.64	19.64				



Band 26 Ant 1																		
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch/Freq	Power High Ch/Freq	Power Peak Ch/Freq	Turn-up (min)	MPE (dB)										
Channel									Frequency (MHz)	RB Size	RB Offset	Power Low Ch/Freq	Power High Ch/Freq	Power Peak Ch/Freq				
15	QPSK	1	0	2224	2236	2224	24	0	20	QPSK	1	0	2126	2131	2127			
15	QPSK	1	37	2225	2237	2225			20	QPSK	1	49	2127	2131	2127			
15	QPSK	1	74	2226	2238	2226			20	QPSK	1	99	2128	2133	2128			
15	QPSK	3	0	2244	2256	2244			20	QPSK	3	0	2045	2053	2045			
15	QPSK	36	20	2130	2140	2138	23	1	20	QPSK	50	24	2038	2038	2038			
15	QPSK	36	38	2131	2135	2133			22	1	2	20	QPSK	50	50	2032	2035	2038
15	QPSK	36	56	2133	2141	2138			20	QPSK	50	74	2038	2044	2046			
15	HQAM	1	0	2150	2150	2150			20	HQAM	1	0	2031	2050	2039			
15	HQAM	1	37	2138	2146	2139	23	1	20	HQAM	1	49	2038	2052	2043			
15	HQAM	1	74	2139	2141	2138			20	HQAM	1	99	2039	2044	2046			
15	HQAM	36	0	2059	2060	2045			20	HQAM	50	0	1959	1933	1946			
15	HQAM	36	20	2059	2060	2055	22	2	20	HQAM	50	24	1940	1940	1940			
15	HQAM	36	38	2045	2053	2043			20	HQAM	50	50	1949	1951	1940			
15	HQAM	36	56	2044	2053	2058			20	HQAM	100	0	1922	1940	1934			
15	HQAM	36	74	2064	2066	2064			20	HQAM	100	49	1945	1952	1952			
15	HQAM	36	92	2059	2067	2054	22	2	20	HQAM	1	49	1974	1936	1949			
15	HQAM	1	74	2044	2061	2033			20	HQAM	1	99	1949	1936	1938			
15	HQAM	36	0	1940	1947	1933			20	HQAM	50	0	1850	1850	1850			
15	HQAM	36	20	1938	1951	1938	21	3	20	HQAM	50	24	1836	1848	1844			
15	HQAM	36	38	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	56	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	74	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	92	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	110	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	128	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	146	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	164	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	182	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	200	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	218	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	236	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	254	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	272	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	290	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	308	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	326	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	344	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	362	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	380	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	398	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	416	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	434	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	452	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	470	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	488	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	506	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	524	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	542	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	560	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	578	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	596	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	614	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	632	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	650	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	668	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	686	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	704	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	722	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	740	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	758	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	776	1938	1951	1938	21	3	20	HQAM	1	49	1836	1848	1844			
15	HQAM	36	794	1942	1950	1937			20	HQAM	50	50	1842	1854	1836			
15	HQAM	75	0	1920	1938	1930			20	HQAM	100	0	1822	1843	1843			
15	HQAM	36	812	1938	1951	1938	21	3	20	HQAM	1	49	1836					



Band 38 Ant 1											
RF (MHz)	Modulation	RB Size	RB Offset	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Time-up (min)	MFR (dB)	
Channel											
Frequency (MHz)											
37850	38000	38150									
20	QPSK	1	0	22.23	22.27	22.28	22.30	22.32	23	0	
20	QPSK	1	40	22.15	22.21	22.20	22.22	22.18			
20	QPSK	1	80	22.16	22.22	22.21	22.23	22.19			
20	QPSK	50	0	21.22	21.28	21.25	21.27	21.23	22	1	
20	QPSK	50	24	21.16	21.22	21.20	21.22	21.18			
20	QPSK	50	48	21.10	21.16	21.11	21.13	21.09			
20	QPSK	100	0	21.18	21.21	21.15	21.17	21.13	22	1	
20	16QAM	1	0	21.28	21.38	21.30	21.32	21.28			
20	16QAM	1	40	21.21	21.27	21.24	21.26	21.22			
20	16QAM	1	80	21.27	21.34	21.25	21.27	21.23			
20	16QAM	50	0	20.51	20.61	20.56	20.58	20.54	21	2	
20	16QAM	50	24	20.58	20.68	20.57	20.60	20.56			
20	16QAM	50	48	20.52	20.62	20.53	20.56	20.52			
20	16QAM	100	0	20.27	20.32	20.24	20.26	20.22			
20	8QAM	1	0	20.37	20.46	20.37	20.40	20.34	21	2	
20	8QAM	1	40	20.26	20.36	20.26	20.29	20.23			
20	8QAM	1	80	20.29	20.39	20.29	20.32	20.26			
20	8QAM	50	0	19.24	19.36	19.24	19.29	19.20	20	3	
20	8QAM	50	24	19.24	19.36	19.24	19.29	19.20			
20	8QAM	50	48	19.24	19.36	19.24	19.29	19.20			
20	8QAM	100	0	18.29	18.31	18.24	18.26	18.20			
20	8QAM	100	0	18.29	18.31	18.24	18.26	18.20			
20	8QAM	100	40	17.28	17.42	17.35	17.28	17.43	18	5	
20	8QAM	100	40	17.28	17.42	17.35	17.28	17.43			
20	8QAM	100	80	17.24	17.27	17.25	17.24	17.19			
20	8QAM	100	80	17.24	17.27	17.25	17.24	17.19			
20	8QAM	100	120	17.11	17.15	17.24	17.17	17.12	18	5	
20	8QAM	100	120	17.11	17.15	17.24	17.17	17.12			
20	8QAM	100	160	17.02	17.06	17.21	17.02	17.05			
20	8QAM	100	160	17.02	17.06	17.21	17.02	17.05			
20	8QAM	100	200	17.08	17.10	17.12	17.08	17.04			
20	8QAM	100	200	17.08	17.10	17.12	17.08	17.04			
Channel											
Frequency (MHz)											
25015	24515	25015	24515	24015	24515	24015	24515	24015	Time-up (min)	MFR (dB)	
15	QPSK	1	0	22.06	22.14	22.05	22.09	22.14	23	0	
15	QPSK	1	40	22.03	22.09	22.12	22.11	22.07			
15	QPSK	1	80	21.86	21.77	21.87	21.79	21.88			
15	QPSK	36	0	21.24	21.28	21.26	21.26	21.26	22	1	
15	QPSK	36	20	21.07	21.16	21.19	21.12	21.03			
15	QPSK	36	40	21.23	21.34	21.24	21.12	21.20			
15	QPSK	36	60	21.22	21.34	21.24	21.12	21.20			
15	QPSK	36	80	21.12	21.18	21.24	21.09	21.18			
15	16QAM	1	0	21.22	21.30	21.22	21.20	21.20	22	1	
15	16QAM	1	40	21.28	21.36	21.28	21.26	21.26			
15	16QAM	1	80	21.22	21.21	21.16	21.04	21.14			
15	16QAM	36	0	20.15	20.32	20.20	20.40	20.26	21	2	
15	16QAM	36	20	20.03	20.18	20.21	20.09	20.11			
15	16QAM	36	40	20.27	20.23	20.40	20.24	20.24			
15	16QAM	36	60	20.16	20.18	20.24	20.09	20.15			
15	16QAM	36	80	20.29	20.27	20.38	20.26	20.31			
15	8QAM	1	0	19.21	19.23	19.29	19.20	19.23	21	2	
15	8QAM	1	40	19.28	19.24	19.33	19.25	19.25			
15	8QAM	1	80	19.20	19.22	19.20	19.23	19.19			
15	8QAM	36	0	18.18	18.26	18.21	18.21	18.21	20	3	
15	8QAM	36	20	18.24	18.21	18.30	18.25	18.20			
15	8QAM	36	40	18.24	18.21	18.30	18.25	18.20			
15	8QAM	36	60	18.24	18.21	18.30	18.25	18.20			
15	8QAM	36	80	18.24	18.21	18.30	18.25	18.20			
15	8QAM	100	0	17.24	17.15	17.20	17.11	17.14	18	5	
15	8QAM	100	40	17.27	17.32	17.38	17.23	17.28			
15	8QAM	100	80	17.26	17.30	17.36	17.21	17.26			
15	8QAM	100	120	17.02	17.06	17.16	17.03	17.05	18	5	
15	8QAM	100	120	17.02	17.06	17.16	17.03	17.05			
15	8QAM	100	160	17.02	17.02	17.05	16.93	16.90			
15	8QAM	100	160	17.02	17.02	17.05	16.93	16.90			
Channel											
Frequency (MHz)											
24015	24515	24015	24515	24015	24515	24015	24515	24015	Time-up (min)	MFR (dB)	
10	QPSK	1	0	22.02	22.10	22.09	22.08	22.07	23.00	0	
10	QPSK	1	25	22.01	21.96	22.17	21.99	22.02			
10	QPSK	1	50	21.85	21.82	22.03	21.85	21.84			
10	QPSK	25	0	21.20	21.23	21.24	21.20	21.18			
10	QPSK	25	12	21.10	21.16	21.21	21.12	21.09	22	1	
10	QPSK	25	24	21.15	21.13	21.18	21.09	21.11			
10	QPSK	50	0	21.10	21.23	21.24	21.12	21.15			
10	16QAM	1	0	21.12	21.22	21.14	21.12	21.12	22	1	
10	16QAM	1	25	21.20	21.27	21.33	21.43	21.38			
10	16QAM	1	40	21.12	21.29	21.18	21.10	21.18			
10	16QAM	25	0	20.21	20.30	20.30	20.48	20.18			
10	16QAM	25	12	20.07	20.18	20.26	20.28	20.14	21	2	
10	16QAM	25	24	20.21	20.18	20.41	20.26	20.23			
10	8QAM	1	0	20.26	20.26	20.31	20.20	20.25	21	2	
10	8QAM	1	25	20.33	20.38	20.47	20.28	20.34			
10	8QAM	1	50	20.20	20.25	20.31	20.20	20.25			
10	8QAM	1	75	20.11	20.16	20.21	20.07	20.24			
10	8QAM	25	0	19.24	19.26	19.30	19.26	19.24	20	3	
10	8QAM	25	12	19.39	19.16	19.14	19.21	19.10			
10	8QAM	25	24	19.20	19.22	19.32	19.38	19.23			
10	8QAM	50	0	18.21	18.29	18.22	18.22	18.12			
10	8QAM	50	12	17.24	17.37	17.45	17.19	17.26	18	5	
10	8QAM	50	24	17.11	17.21	17.20	17.19	17.10			
10	8QAM	100	0	17.20	17.36	17.44	17.21	17.28			
10	8QAM	100	25	17.04	17.08	17.11	17.06	17.07			
10	8QAM	100	50	17.26	17.30	17.34	17.06	17.07	18	5	
10	8QAM	100	75	16.98	17.02	17.12	17.06	17.02			
10	8QAM	100	100	17.02	17.02	17.05	16.93	16.90			
10	8QAM	100	100	17.02	17.02	17.05	16.93	16.90			
Channel											
Frequency (MHz)											
24015	24515	24015	24515	24015	24515	24015	24515	24015	Time-up (min)	MFR (dB)	
5	QPSK	1	0	22.21	22.26	22.26	22.26	22.26	23.00	0	
5	QPSK	1	12	22.12	22.28	22.27	22.12	22.12			
5	QPSK	1	24	22.10	22.20	22.10	22.10	22.10			
5	QPSK	12	0	21.11	21.15	21.15	21.13	21.13	22	1	
5	QPSK	12	13	21.08	21.18	21.07	21.07	21.07			
5	QPSK	25	0	21.11	21.08	21.11	21.11	21.11	22	1	
5	16QAM	1	0	21.22	21.33	21.41	21.41	21.41	22	1	
5	16QAM	1	12	21.14	21.26	21.23	21.23	21.23			
5	16QAM	1	24	21.02	21.14	21.05	21.05	21.05			
5	16QAM	12	0	20.34	20.27	20.36	20.36	20.36	21	2	
5	16QAM	12	7	20.12	20.16	20.16	20.16	20.16			
5	16QAM	12	13	20.11	20.17	20.16	20.16	20.16			
5	16QAM	25	0	20.20	20.22	20.26	20.26	20.26	21	2	
5	8QAM	1	0	20.30	20.33	20.32	20.32	20.32			
5	8QAM	1	12	20.23	20.22	20.26	20.26	20.26			
5	8QAM	1	24	20.23	20.27	20.10	20.10	20.10			
5	8QAM	25	0	19.25	19.30	19.32	19.24	19.30	20	3	
5	8QAM	25	7	19.19	19.13	19.22	19.17	19.14			
5	8QAM	25	13	19.16	19.25	19.36	19.30	19.30			
5	8QAM	25	0	19.25	19.25	19.32	19.27	19.13			
5	8QAM	100	0	17.28	17.27	17.40	17.24	17.17	18	5	
5	8QAM	100	12	17.11	17.20	17.17	17.18	17.06			
5	8QAM	100	24	17.24	17.30	17.40	17.13	17.33			
5	8QAM	100	0	16.99	17.03	17.05	17.05	17.05	18	5	
5	8QAM	100	7	17.02	16.99	17.05	17.04	16.99			
5	8QAM	100	13	16.94	16.99	17.06	17.06	16.95			
5	8QAM	100	25	16.98	16.98	16.93	16.98	16.98			

Band 41 Ant 1											
RF (MHz)	Modulation	RB Size	RB Offset	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Time-up (min)	MFR (dB)	



Band 48_FCC Ant 2

RF [MHz]	Modulation	RB Size	RB Offset	Power Level Ch. / Freq.	Power High Mod Ch. / Freq.	Power High Mod Ch. / Freq.	Power High Mod Ch. / Freq.	Tune-up limit (dB)	MPO (dB)			
Channel 58340												
Frequency (MHz)												
20	QPSK	1	0	23.31	23.42	23.40	23.30	24	0			
20	QPSK	1	49	23.20	23.20	23.24	23.19					
20	QPSK	1	49	23.16	23.32	23.25	23.19					
20	QPSK	50	0	23.23	23.31	23.26	23.28					
20	QPSK	50	34	23.19	23.30	23.25	23.29	23	1			
20	QPSK	50	50	23.20	23.27	23.08	23.10					
20	QPSK	100	0	23.24	23.25	23.01	23.11					
20	16QAM	1	0	23.20	23.38	23.13	23.23					
20	16QAM	1	49	23.10	23.34	23.31	23.25	23	1			
20	16QAM	1	99	23.20	23.38	23.11	23.24					
20	16QAM	50	0	21.35	21.38	21.42	21.42					
20	16QAM	50	34	21.31	21.23	21.50	21.18					
20	16QAM	50	50	21.28	21.30	21.25	21.18	22	2			
20	16QAM	100	0	21.23	21.30	21.05	21.28					
20	8QAM	1	0	21.42	21.35	21.32	21.31					
20	8QAM	1	49	21.30	21.27	21.43	21.54					
20	8QAM	1	99	21.27	21.52	21.25	21.44	21	3			
20	8QAM	50	0	20.20	20.35	20.20	20.25					
20	8QAM	50	34	20.24	20.22	20.15	20.10					
20	8QAM	50	50	20.23	20.38	20.29	20.31					
20	8QAM	100	0	20.12	20.30	20.21	20.27	19	5			
20	25QAM	1	0	18.18	18.41	18.22	18.37					
20	25QAM	1	49	18.15	18.19	18.25	18.22					
20	25QAM	1	99	18.10	18.38	18.18	18.29					
20	25QAM	50	0	17.67	18.13	18.02	18.05	19	5			
20	25QAM	50	34	17.60	18.05	18.05	17.99					
20	25QAM	50	50	18.10	18.28	18.14	18.12					
20	25QAM	100	0	17.67	18.10	17.62	18.01					
Channel 58340												
Frequency (MHz)												
15	QPSK	1	0	23.11	23.39	23.28	23.20	24	0			
15	QPSK	1	47	23.11	23.13	23.26	23.20					
15	QPSK	1	74	23.10	23.20	23.11	23.08					
15	QPSK	36	0	22.10	22.17	22.15	22.14					
15	QPSK	36	30	22.05	22.21	22.14	22.17	23	1			
15	QPSK	36	50	22.17	22.23	22.01	22.02					
15	QPSK	36	84	22.20	22.19	21.93	22.07					
15	16QAM	1	0	22.20	22.29	22.02	22.15					
15	16QAM	1	74	22.24	22.25	22.07	22.13	22	2			
15	16QAM	36	0	21.28	21.28	21.37	21.27					
15	16QAM	36	30	21.30	21.17	21.25	21.04					
15	16QAM	36	59	21.24	21.28	21.17	21.09					
15	16QAM	75	0	21.18	21.22	20.94	21.24	22	2			
15	8QAM	1	0	21.30	21.22	21.50	21.25					
15	8QAM	1	37	21.24	21.51	21.58	21.42					
15	8QAM	1	74	21.41	21.40	21.17	21.51					
15	8QAM	36	0	20.00	20.29	20.11	20.12	21	3			
15	8QAM	36	30	20.10	20.14	20.06	20.04					
15	8QAM	36	50	20.10	20.30	20.17	20.22					
15	8QAM	75	0	20.00	20.22	20.07	20.22					
15	25QAM	1	0	18.15	18.05	18.15	18.05	19	5			
15	25QAM	1	37	18.05	18.05	18.15	18.05					
15	25QAM	1	74	18.13	18.25	18.02	18.19					
15	25QAM	36	0	17.85	18.06	17.84	17.88					
15	25QAM	36	30	17.88	17.92	17.69	17.88	19	5			
15	25QAM	36	50	18.05	18.16	18.02	18.08					
15	25QAM	75	0	17.91	17.95	17.88	17.94					
15	25QAM	100	0	17.92	18.05	17.88	17.88					
Channel 58340												
Frequency (MHz)												
10	QPSK	1	0	23.18	23.36	23.32	23.18	24	0			
10	QPSK	1	25	23.11	23.15	23.20	23.11					
10	QPSK	1	47	23.05	23.34	23.17	23.08					
10	QPSK	25	0	22.18	22.28	22.18	22.04					
10	QPSK	25	12	22.14	22.00	22.10	22.10	23	1			
10	QPSK	25	25	22.16	22.21	22.10	22.07					
10	QPSK	50	0	22.12	22.11	21.86	21.97					
10	16QAM	1	0	22.18	22.31	22.05	22.28					
10	16QAM	1	36	22.03	22.22	22.21	22.12	23	1			
10	16QAM	1	49	22.17	22.21	22.02	22.13					
10	16QAM	25	0	21.30	21.26	21.50	21.31					
10	16QAM	25	12	21.22	21.20	21.27	21.04					
10	16QAM	25	36	21.16	21.30	21.14	21.12	22	2			
10	16QAM	50	0	21.13	21.28	20.31	21.21					
10	8QAM	1	0	21.30	21.23	21.24	21.27					
10	8QAM	1	36	21.25	21.47	21.24	21.48					
10	8QAM	1	49	21.18	21.49	21.18	21.35	22	2			
10	8QAM	25	0	20.10	20.20	20.00	20.08					
10	8QAM	25	12	20.17	20.07	20.14	19.98					
10	8QAM	25	36	20.12	20.32	20.25	20.18					
10	8QAM	50	0	20.00	20.20	20.08	20.22	21	3			
10	8QAM	50	36	20.00	20.20	20.08	20.22					
10	25QAM	1	0	18.00	18.36	18.09	18.12					
10	25QAM	1	25	18.03	18.16	18.16	18.18					
10	25QAM	1	49	18.00	18.33	18.05	18.18	19	5			
10	25QAM	25	0	17.91	18.04	17.87	17.97					
10	25QAM	25	12	17.85	17.96	17.82	17.85					
10	25QAM	25	25	17.90	18.23	18.10	18.05					
10	25QAM	50	0	17.92	18.05	17.88	17.88	19	5			
5	Channel 58675											
Frequency (MHz)												
5	QPSK	1	0	23.21	23.28	23.35	23.17			24	0	
5	QPSK	1	12	23.15	23.11	23.10	23.15					
5	QPSK	1	34	23.00	23.23	23.12	23.05					
5	QPSK	12	0	22.00	22.19	22.20	22.08					
5	QPSK	12	7	22.05	22.30	22.12	22.10	23	1			
5	QPSK	12	13	22.15	22.16	22.04	21.97					
5	QPSK	25	0	22.11	22.30	21.60	22.02					
5	16QAM	1	0	22.18	22.32	22.03	22.28					
5	16QAM	1	12	22.03	22.28	22.21	22.12	23	1			
5	16QAM	1	34	22.17	22.23	21.69	22.17					
5	16QAM	12	0	21.20	21.34	21.27	21.36					
5	16QAM	12	7	21.20	21.20	21.17	21.04					
5	16QAM	12	13	21.14	21.24	21.10	21.12	22	2			
5	16QAM	25	0	21.16	21.21	21.00	21.17					
5	8QAM	1	0	21.34	21.20	21.25	21.23					
5	8QAM	1	12	21.25	21.54	21.40	21.48					
5	8QAM	1	34	21.25	21.39	21.12	21.34	22	2			
5	8QAM	12	0	20.12	20.28	20.15	20.18					
5	8QAM	12	7	20.10	20.00	20.11	20.03					
5	8QAM	12	13	20.05	20.11	20.23	20.18					
5	8QAM	25	0	20.00	20.28	20.14	20.12	21	3			
5	25QAM	1	0	18.13	18.28	18.12	18.31					
5	25QAM	1	12	18.11	18.06	18.19	18.18					
5	25QAM	1	34	18.07	18.34	18.09	18.19					
5	25QAM	12	0	17.85	18.00	17.85	17.88	19	5			
5	25QAM	12	7	17.88	17.92	17.81	17.85					
5	25QAM	12	13	17.88	18.23	18.00	17.99					
5	25QAM	25	0	17.88	18.00	17.88	17.88					



Band 12 Ant0 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up (MHz)	MFR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.44	22.78	22.93		
10	QPSK	1	25	22.44	22.54	22.82	24	0
10	QPSK	1	40	22.61	22.70	22.59		
10	QPSK	5	0	21.63	21.54	21.54		
10	QPSK	25	12	21.68	21.70	21.55	23	1
10	QPSK	25	25	21.68	21.64	21.63		
10	QPSK	50	0	21.62	21.61	21.62		
10	HQAM	1	0	21.71	21.68	21.63		
10	HQAM	1	25	21.54	21.71	21.67	23	1
10	HQAM	1	40	21.73	21.70	21.52		
10	HQAM	25	0	20.71	20.84	20.86		
10	HQAM	25	25	20.72	20.85	20.70	22	2
10	HQAM	50	0	20.60	20.75	20.82		
10	HQAM	1	0	19.26	19.17	19.03		
10	HQAM	1	25	19.52	19.50	19.51	22	2
10	HQAM	1	40	19.71	19.89	19.85		
10	HQAM	25	0	19.26	19.17	19.03		
10	HQAM	25	25	19.58	19.63	19.58	21	3
10	HQAM	25	50	19.68	19.61	19.55		
10	HQAM	50	0	19.47	19.61	19.58		
10	SSBQAM	1	0	17.75	17.85	17.73		
10	SSBQAM	1	25	17.84	17.82	17.85	19	5
10	SSBQAM	1	40	17.84	17.84	17.81		
10	SSBQAM	25	0	17.63	17.71	17.85		
10	SSBQAM	25	25	17.63	17.70	17.80	19	5
10	SSBQAM	50	0	17.69	17.75	17.80		
10	SSBQAM	50	0	17.69	17.66	17.71		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.58	22.78	22.53		
5	QPSK	1	12	22.64	22.58	22.55	24	0
5	QPSK	1	24	22.47	22.57	22.49		
5	QPSK	12	0	21.63	21.66	21.51		
5	QPSK	12	7	21.68	21.59	21.49	23	1
5	QPSK	12	13	21.58	21.56	21.55		
5	QPSK	25	0	21.43	21.51	21.47		
5	QPSK	25	12	21.68	21.67	21.49	23	1
5	HQAM	1	12	21.62	21.67	21.42		
5	HQAM	1	24	21.62	21.61	21.42		
5	HQAM	12	0	20.60	20.79	20.72	22	2
5	HQAM	12	7	20.62	20.57	20.65		
5	HQAM	12	13	20.66	20.67	20.66		
5	HQAM	25	0	20.47	20.51	20.59	22	2
5	HQAM	1	0	20.66	20.70	20.45		
5	HQAM	12	0	20.62	20.66	20.45	22	2
5	HQAM	1	24	20.68	20.73	20.62		
5	HQAM	12	0	19.25	19.66	19.49		
5	HQAM	12	7	19.25	19.54	19.49	21	3
5	HQAM	12	13	19.25	19.58	19.47		
5	HQAM	25	0	19.46	19.51	19.45		
5	SSBQAM	1	0	17.75	17.83	17.81		
5	SSBQAM	1	12	17.78	17.83	17.83	19	5
5	SSBQAM	1	24	17.78	17.84	17.75		
5	SSBQAM	12	0	17.51	17.57	17.51		
5	SSBQAM	12	7	17.44	17.51	17.51	19	5
5	SSBQAM	12	13	17.48	17.60	17.60		
5	SSBQAM	25	0	17.52	17.56	17.61		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.54	22.76	22.54		
3	QPSK	1	8	22.49	22.52	22.48	24	0
3	QPSK	1	14	22.63	22.58	22.55		
3	QPSK	8	0	21.67	21.67	21.43		
3	QPSK	8	4	21.57	21.62	21.44	23	1
3	QPSK	8	7	21.60	21.63	21.50		
3	QPSK	16	0	21.43	21.61	21.45		
3	HQAM	1	0	21.67	21.63	21.56	23	1
3	HQAM	1	8	21.62	21.68	21.63		
3	HQAM	1	14	21.61	21.63	21.43		
3	HQAM	8	0	20.60	20.73	20.66		
3	HQAM	8	4	20.60	20.62	20.57	22	2
3	HQAM	8	7	20.50	20.58	20.66		
3	HQAM	16	0	20.64	20.66	20.50		
3	HQAM	1	0	20.69	20.58	20.52		
3	HQAM	1	8	20.70	20.60	20.78	22	2
3	HQAM	1	14	20.60	20.74	20.54		
3	HQAM	8	0	19.54	19.74	19.53		
3	HQAM	8	4	19.46	19.56	19.46	21	3
3	HQAM	8	7	19.50	19.51	19.45		
3	HQAM	16	0	19.38	19.55	19.45		
3	SSBQAM	1	0	17.75	17.81	17.77		
3	SSBQAM	1	8	17.78	17.83	17.83	19	5
3	SSBQAM	1	14	17.78	17.84	17.72		
3	SSBQAM	8	0	17.50	17.64	17.50		
3	SSBQAM	8	4	17.50	17.59	17.50	19	5
3	SSBQAM	8	7	17.57	17.66	17.73		
3	SSBQAM	16	0	17.64	17.54	17.68		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.61	22.73	22.62		
1.4	QPSK	1	3	22.52	22.60	22.58	24	0
1.4	QPSK	1	5	22.47	22.59	22.44		
1.4	QPSK	3	0	22.67	22.71	22.56		
1.4	QPSK	3	1	22.51	22.68	22.59		
1.4	QPSK	3	3	22.62	22.64	22.46	23	1
1.4	HQAM	1	0	21.60	21.61	21.40		
1.4	HQAM	1	0	21.58	21.59	21.47		
1.4	HQAM	1	3	21.61	21.63	21.52	23	1
1.4	HQAM	1	5	21.48	21.55	21.06		
1.4	HQAM	3	0	21.63	21.58	21.51		
1.4	HQAM	3	1	21.60	21.66	21.53		
1.4	HQAM	3	3	21.60	21.63	21.48		
1.4	HQAM	6	0	20.61	20.76	20.71	22	2
1.4	HQAM	1	3	20.61	20.67	20.61		
1.4	HQAM	1	6	20.62	20.71	20.52	22	2
1.4	HQAM	3	0	20.61	20.64	20.48		
1.4	HQAM	3	1	20.69	20.50	20.75		
1.4	HQAM	6	0	20.62	20.74	20.54		
1.4	HQAM	6	0	19.41	19.57	19.48	21	3
1.4	SSBQAM	1	0	17.68	17.83	17.60		
1.4	SSBQAM	1	3	17.70	17.78	17.70		
1.4	SSBQAM	1	5	17.64	17.62	17.74	19	5
1.4	SSBQAM	3	0	17.51	17.67	17.51		
1.4	SSBQAM	3	1	17.41	17.69	17.43		
1.4	SSBQAM	3	3	17.59	17.68	17.68		
1.4	SSBQAM	6	0	17.60	17.54	17.57	19	5

Band 13 Ant0 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up (MHz)	MFR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.97	22.97	22.97		
10	QPSK	1	49	22.85	22.85	22.85	24	0
10	QPSK	5	0	21.82	21.82	21.82		
10	QPSK	25	12	21.86	21.86	21.86	23	1
10	QPSK	25	25	21.81	21.81	21.81		
10	QPSK	50	0	21.82	21.82	21.82		
10	HQAM	1	0	21.79	21.79	21.79		
10	HQAM	1	25	21.82	21.82	21.82	23	1
10	HQAM	1	49	21.90	21.90	21.90		
10	HQAM	25	0	20.77	20.77	20.77		
10	HQAM	25	25	20.78	20.78	20.78	22	2
10	HQAM	50	0	20.85	20.85	20.85		
10	HQAM	1	0	20.85	20.85	20.85		
10	HQAM	1	25	21.10	21.10	21.10	22	2
10	HQAM	1	49	20.90	20.90	20.90		
10	HQAM	25	0	19.75	19.75	19.75		
10	HQAM	25	25	19.88	19.88	19.88	21	3
10	HQAM	25	50	19.88	19.88	19.88		
10	HQAM	50	0	19.75	19.75	19.75		
10	SSBQAM	1	0	18.05	18.05	18.05		
10	SSBQAM	1	25	17.95	17.95	17.95	19	5
10	SSBQAM	1	49	18.12	18.12	18.12		
10	SSBQAM	25	0	17.82	17.82	17.82		
10	SSBQAM	25	25	17.82	17.82	17.82	19	5
10	SSBQAM	50	0	17.82	17.82	17.82		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.90	22.83	22.83		
5	QPSK	1	12	22.87	22.80	22.81	24	0
5	QPSK	1	24	22.77	22.73	22.81		
5	QPSK	12	0	21.81	21.74	21.79		
5	QPSK	12	7	21.78	21.81	21.82	23	1
5	QPSK	12	13	21.77	21.77	21.71		
5	QPSK	25	0	21.68	21.70	21.73		
5</								



Band 26 Ant0 DS12										
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)		
Channel	Frequency (MHz)	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)		
Channel										
813.1 813.5 813.5										
15	QPSK	1	0	22.68	22.68	22.72	24	0		
15	QPSK	1	74	22.68	22.73	22.82				
15	QPSK	3	0	21.63	21.63	21.72	23	1		
15	QPSK	3	20	21.69	21.70	21.84				
15	QPSK	3	30	21.69	21.69	21.59				
15	QPSK	3	15	20.96	20.96	21.05	22	2		
15	HQAM	1	0	21.87	21.84	21.85	23	1		
15	HQAM	1	37	21.85	21.80	21.80				
15	HQAM	1	74	21.85	21.73	21.58				
15	HQAM	3	0	20.81	20.81	20.78	22	2		
15	HQAM	3	20	20.77	20.87	20.85				
15	HQAM	3	30	20.73	20.87	20.85				
15	HQAM	3	15	20.84	20.75	20.87	22	2		
15	HQAM	3	15	20.86	20.83	20.86				
15	HQAM	3	37	20.83	20.59	20.39	21	3		
15	HQAM	3	74	20.77	20.77	20.81				
15	HQAM	3	20	19.87	19.87	19.73	21	3		
15	HQAM	3	30	19.84	19.81	19.85				
15	HQAM	3	15	19.87	19.83	19.84	21	3		
15	HQAM	3	15	19.89	19.74	19.59				
15	HQAM	3	37	17.77	17.83	17.77	19	5		
15	HQAM	3	74	17.78	17.75	17.86				
15	HQAM	3	74	17.50	18.04	18.01	19	5		
15	HQAM	3	0	17.88	17.78	17.57	19	5		
15	HQAM	3	20	17.85	17.85	17.85				
15	HQAM	3	30	17.57	17.79	17.84	19	5		
15	HQAM	3	15	17.50	17.74	17.80				
Channel										
813.5 813.5 814										
15	QPSK	1	0	22.62	22.82	22.77	24	0		
15	QPSK	1	36	22.61	22.81	22.81				
15	QPSK	1	40	22.57	22.82	22.57				
15	QPSK	25	0	21.63	21.75	21.58	23	1		
15	QPSK	25	12	21.67	21.81	21.68				
15	QPSK	25	20	21.59	21.81	21.52	23	1		
15	QPSK	50	0	21.63	21.67	21.41	23	1		
15	QPSK	50	12	21.67	21.63	21.48				
15	HQAM	1	25	21.48	21.48	21.51	23	1		
15	HQAM	1	0	21.47	21.47	21.52				
15	HQAM	25	0	20.71	20.70	20.71	22	2		
15	HQAM	25	12	20.48	20.53	20.80				
15	HQAM	25	20	20.59	20.59	20.72	22	2		
15	HQAM	25	0	20.59	20.52	20.51				
15	HQAM	50	0	20.62	20.78	20.57	22	2		
15	HQAM	50	12	20.62	20.82	20.83				
15	HQAM	50	20	20.70	20.72	20.87	22	2		
15	HQAM	50	0	19.27	19.60	19.66	21	3		
15	HQAM	50	12	19.48	19.38	19.41				
15	HQAM	50	20	19.47	19.58	19.40	21	3		
15	HQAM	50	0	19.26	19.66	19.45				
15	HQAM	50	12	17.73	17.79	17.73	19	5		
15	HQAM	50	20	17.51	17.85	17.48				
15	HQAM	50	0	17.53	17.85	17.48	19	5		
15	HQAM	50	12	17.56	17.70	17.51	19	5		
15	HQAM	50	20	17.41	17.88	17.58				
15	HQAM	50	0	17.40	17.68	17.48	19	5		
Channel										
813.5 813.5 21015										
5	QPSK	1	0	22.57	22.70	22.70	24	0		
5	QPSK	1	12	22.55	22.66	22.71				
5	QPSK	1	24	22.54	22.64	22.68				
5	QPSK	12	0	21.61	21.74	21.59	23	1		
5	QPSK	12	7	21.63	21.61	21.40	23	1		
5	QPSK	12	13	21.67	21.81	21.68				
5	QPSK	25	0	21.62	21.85	21.44	23	1		
5	HQAM	1	0	21.30	21.52	21.50	23	1		
5	HQAM	1	12	21.48	21.62	21.48				
5	HQAM	1	24	21.50	21.59	21.48	23	1		
5	HQAM	12	0	20.71	20.71	20.72	22	2		
5	HQAM	12	7	20.43	20.50	20.66				
5	HQAM	12	13	20.68	20.83	20.59				
5	HQAM	12	0	20.63	20.81	20.65	22	2		
5	HQAM	12	0	20.52	20.72	20.59				
5	HQAM	12	7	20.78	20.52	20.59	22	2		
5	HQAM	12	13	19.48	19.43	19.44	21	3		
5	HQAM	12	0	19.47	19.48	19.45				
5	HQAM	12	0	19.54	19.81	19.56				
5	HQAM	12	7	19.48	19.43	19.44	21	3		
5	HQAM	12	13	19.47	19.48	19.45				
5	HQAM	25	0	19.41	19.62	19.47	19	5		
5	HQAM	25	0	17.53	17.71	17.73	19	5		
5	HQAM	25	12	17.56	17.68	17.77				
5	HQAM	25	20	17.41	17.88	17.58	19	5		
5	HQAM	25	0	17.53	17.70	17.56	19	5		
5	HQAM	25	12	17.41	17.88	17.58				
Channel										
26716 26716 27015										
5	QPSK	1	0	22.52	22.70	22.70	24	0		
5	QPSK	1	12	22.55	22.66	22.71				
5	QPSK	1	24	22.54	22.64	22.68				
5	QPSK	12	0	21.61	21.74	21.59	23	1		
5	QPSK	12	7	21.63	21.61	21.40	23	1		
5	QPSK	12	13	21.67	21.81	21.68				
5	QPSK	25	0	21.62	21.85	21.44	23	1		
5	HQAM	1	0	21.30	21.52	21.50	23	1		
5	HQAM	1	12	21.48	21.62	21.48				
5	HQAM	1	24	21.50	21.59	21.48	23	1		
5	HQAM	12	0	20.71	20.71	20.72	22	2		
5	HQAM	12	7	20.43	20.50	20.66				
5	HQAM	12	13	20.68	20.83	20.59				
5	HQAM	12	0	20.63	20.81	20.65	22	2		
5	HQAM	12	0	20.52	20.72	20.59				
5	HQAM	12	7	20.78	20.52	20.59	22	2		
5	HQAM	12	13	19.48	19.43	19.44	21	3		
5	HQAM	12	0	19.47	19.48	19.45				
5	HQAM	12	0	19.54	19.81	19.56				
5	HQAM	12	7	19.48	19.43	19.44	21	3		
5	HQAM	12	13	19.47	19.48	19.45				
5	HQAM	25	0	19.41	19.62	19.47	19	5		
5	HQAM	25	0	17.53	17.71	17.73	19	5		
5	HQAM	25	12	17.56	17.68	17.77				
5	HQAM	25	20	17.41	17.88	17.58	19	5		
5	HQAM	25	0	17.53	17.70	17.56	19	5		
5	HQAM	25	12	17.41	17.88	17.58				
Channel										
813.5 813.5 843.5										
1.4	QPSK	1	0	22.62	22.78	22.96	24	0		
1.4	QPSK	1	14	22.61	22.83	22.73				
1.4	QPSK	1	5	22.65	22.80	22.58				
1.4	QPSK	3	0	22.63	22.76	22.68	24	0		
1.4	QPSK	3	1	22.57	22.80	22.72				
1.4	QPSK	3	3	22.51	22.85	22.49				
1.4	QPSK	8	0	21.69	21.81	21.57	23	1		
1.4	HQAM	1	0	21.83	21.86	21.85	23	1		
1.4	HQAM	1	3	21.58	21.84	21.49				
1.4	HQAM	1	3	20.88	20.83	20.86	23	1		
1.4	HQAM	3	0	21.57	21.59	21.48				
1.4	HQAM	3	1	21.45	21.52	21.55				
1.4	HQAM	3	3	20.74	20.72	20.68	22	2		
1.4	HQAM	3	0	20.49	20.57	20.68				
1.4	HQAM	3	1	20.86	20.83	20.86	22	2		
1.4	HQAM	3	3	20.59	20.66	20.52	22	2		
1.4	HQAM	3	0	20.53	20.60	20.58				
1.4	HQAM	3	1	20.73	20.73	20.81	21	3		
1.4	HQAM	3	3	20.71	20.74	20.75				
1.4	HQAM	3	0	19.82	19.81	19.83	21	3		
1.4	HQAM	3	1	17.72	17.80	17.85				
1.4	HQAM	3	3	17.86	17.83	17.79	19	5		
1.4	HQAM	3	0	17.70	17.70	17.80				
1.4	HQAM	3	1	17.60	17.68	17.47	19	5		
1.4	HQAM	3	3	17.62	17.67	17.59				
1.4	HQAM	3	0	17.38	17.83	17.51	19	5		

Band 66 Ant0 DS12										
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)		
Channel	Frequency (MHz)	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)		
Channel										
1700 1745 1770										
20	QPSK	1	0	22.70	22.84	22.77	24	0		
20	QPSK	1	36	22.68	22.85	22.81				
20	QPSK	1	74	22.55	22.73	22.60				
20	QPSK	25	0	21.63	21.72	21.69	23	1		
20	QPSK	25	12	21.68	21.77	21.63				
20	QPSK	25	20	21.64	21.66	21.50	23	1		
20	QPSK	50	0	21.66	21.68	21.58	23	1		
20	HQAM	1	0	21.74	21.74	21.59	23	1		
20	HQAM	1	40	21.54	21.85	21.62	</			



Band 38 Ant0 DS12											
RF (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Time-up (ms)	MFR (dB)			
Channel											
Frequency (MHz)											
37860	38000	38160									
20	QPSK	1	0	23.21	23.20	23.27	24	0			
20	QPSK	1	40	23.11	23.20	23.24					
20	QPSK	1	80	23.15	23.24	23.18					
20	QPSK	50	0	22.21	22.20	22.13	23	1			
20	QPSK	50	24	22.15	22.16	22.18					
20	QPSK	50	48	22.14	22.13	21.98					
20	QPSK	100	0	22.04	22.03	22.04					
20	16QAM	1	0	22.06	22.06	22.07	23	1			
20	16QAM	1	40	21.93	22.14	22.07					
20	16QAM	1	80	22.11	22.12	22.05					
20	16QAM	50	0	21.91	21.92	21.98					
20	16QAM	50	24	21.98	21.15	21.98	22	2			
20	16QAM	100	0	21.12	21.18	21.48					
20	8QAM	1	0	21.28	21.31	21.19	22	2			
20	8QAM	1	40	21.32	21.47	21.37					
20	8QAM	1	80	21.18	21.18	21.23					
20	8QAM	50	0	21.04	20.01	19.09	21	3			
20	8QAM	50	24	19.34	20.01	19.09					
20	8QAM	100	0	20.02	20.07	19.99					
20	8QAM	100	0	20.00	20.18	20.08					
20	25QAM	1	0	18.19	18.26	18.21	19	5			
20	25QAM	1	40	18.18	18.24	18.25					
20	25QAM	1	80	18.07	18.07	18.29					
20	25QAM	50	0	18.13	18.17	17.98	19	5			
20	25QAM	50	24	18.05	18.22	18.20					
20	25QAM	100	0	18.12	18.16	18.28					
20	25QAM	100	0	17.95	18.21	18.08					
Channel											
Frequency (MHz)											
2377.5	2395	2412.5									
15	QPSK	1	0	23.10	23.22	23.17	24	0			
15	QPSK	1	40	23.14	23.14	23.16					
15	QPSK	1	74	23.08	23.10	23.07					
15	QPSK	36	0	22.06	22.06	22.06	23	1			
15	QPSK	36	20	21.99	22.08	22.12					
15	QPSK	36	36	22.05	21.99	21.91					
15	QPSK	36	52	22.03	22.11	21.90					
15	16QAM	1	0	22.00	22.11	21.98	23	1			
15	16QAM	1	36	22.06	22.06	22.06					
15	16QAM	1	74	22.04	21.98	21.92					
15	16QAM	36	0	21.09	21.10	21.12	22	2			
15	16QAM	36	20	21.08	21.22	21.06					
15	16QAM	36	36	21.08	21.06	21.04					
15	16QAM	75	0	21.03	21.06	20.94	22	2			
15	16QAM	75	20	21.19	21.18	21.13					
15	16QAM	1	37	21.22	21.32	21.24	22	2			
15	16QAM	1	74	21.11	21.14	21.10					
15	8QAM	36	0	20.08	20.07	20.12	21	3			
15	8QAM	36	20	19.82	19.95	19.94					
15	8QAM	36	36	20.06	20.08	20.05					
15	8QAM	75	0	19.88	20.00	19.95	21	3			
15	8QAM	75	20	19.89	20.00	19.95					
15	25QAM	1	37	18.09	18.15	18.17	19	5			
15	25QAM	1	74	18.31	18.33	18.26					
15	25QAM	36	0	18.02	18.02	18.29					
15	25QAM	36	20	17.80	18.16	17.86	19	5			
15	25QAM	36	36	18.03	18.21	18.10					
15	25QAM	75	0	17.82	18.09	18.10					
Channel											
Frequency (MHz)											
37860	38000	38160									
10	QPSK	1	0	23.16	23.26	23.20	24	0			
10	QPSK	1	25	23.04	23.16	23.10					
10	QPSK	25	0	22.16	22.18	21.88	23	1			
10	QPSK	25	12	22.07	22.14	22.06					
10	QPSK	25	24	22.05	22.05	21.98					
10	QPSK	50	0	21.83	22.11	21.99	23	1			
10	16QAM	1	25	21.83	22.07	22.02					
10	16QAM	1	40	22.05	21.98	22.02	22	2			
10	16QAM	25	12	21.02	21.11	20.96					
10	16QAM	25	24	21.05	21.18	21.02					
10	8QAM	25	0	20.08	20.13	20.00	21	3			
10	8QAM	25	12	19.82	19.86	19.84					
10	8QAM	50	0	19.86	20.00	19.95					
10	25QAM	1	25	18.05	18.14	18.16	19	5			
10	25QAM	1	40	18.25	18.40	18.22					
10	25QAM	25	0	18.05	18.00	17.87	19	5			
10	25QAM	25	12	17.86	18.14	17.85					
10	25QAM	50	0	18.05	18.25	18.10					
10	25QAM	50	0	17.90	18.13	17.98					
Channel											
Frequency (MHz)											
2377.5	2395	2412.5									
5	QPSK	1	0	23.00	23.26	23.17	24	0			
5	QPSK	1	12	23.00	23.17	23.16					
5	QPSK	1	24	23.00	23.11	23.08					
5	QPSK	12	0	22.10	22.08	22.06	23	1			
5	QPSK	12	13	22.03	22.07	21.88					
5	QPSK	25	0	21.81	22.11	21.85	23	1			
5	16QAM	1	0	21.81	22.08	21.81					
5	16QAM	1	12	21.80	22.08	22.03	22	2			
5	16QAM	1	24	22.05	22.06	21.91					
5	16QAM	12	0	21.18	21.14	21.18	22	2			
5	16QAM	12	7	21.04	21.14	21.07					
5	16QAM	25	0	20.99	21.04	20.94	22	2			
5	8QAM	1	12	21.25	21.43	21.25					
5	8QAM	1	24	21.08	21.03	21.14	21	3			
5	8QAM	25	0	20.05	20.00	20.07					
5	8QAM	50	0	19.86	19.86	19.92	19	5			
5	25QAM	1	0	18.12	18.16	18.13					
5	25QAM	1	12	18.12	18.12	18.13	19	5			
5	25QAM	1	24	18.31	18.40	18.23					
5	25QAM	12	0	17.99	18.11	17.85	19	5			
5	25QAM	12	7	18.05	18.15	18.02					
5	25QAM	12	13	17.99	18.14	18.12					
5	25QAM	25	0	17.81	18.16	17.94					

Band 41 Ant0 DS12													
RF (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Time-up (ms)	MFR (dB)					
Channel													
Frequency (MHz)													
39780	40185	40600	41055	41460									
20	QPSK	1	0	23.18	23.30	23.35	23.34	23.23	24	0			
20	QPSK	1	40	23.18	23.23	23.28	23.30	23.10					
20	QPSK	50	0	22.18	22.24	22.34	22.36	22.18					
20	QPSK	50	0	22.21	22.28	22.38	22.19	22.18	23	1			
20	QPSK	50	24	22.15	22.24	22.36	22.08	22.20					
20	QPSK	100	0	22.01	22.10	22.28	22.19	22.05					
20	16QAM	1	0	22.02	22.13	22.26	22.15	21.20	23	1			
20	16QAM	1	40	21.85	22.03	22.21	22.15	22.00					
20	16QAM	1	80	22.21	22.29	22.21	22.29	22.18					
20	16QAM	50	0	21.91	21.91	21.91	21.91	21.20					
20	16QAM	50	24	21.16	21.24	21.28	21.21	21.18	22	2			
20	16QAM	100	0	21.17	21.27	21.25	21.21	21.13					
20	8QAM	1	0	21.20	21.38	21.39	21.25	21.33	22	2			
20	8QAM	1	40	21.32	21.40	21.39	21.27	21.37					
20	8QAM	1	80	21.15	21.25	21.30	21.28	21.21					
20	8QAM	50	0	20.02	20.07	20.08	20.08	20.07	21	3			
20	8QAM	50	24	19.97	20.05	20.17	20.05	19.98					
20	8QAM	100	0	20.03	20.09	20.13	20.07	19.99					
20	8QAM	100	0	20.07	20.15	20.28	20.09	20.00					
20	25QAM	1	0	18.17	18.30	18.41	18.31	18.18	19	5			
20	25QAM	1	40	18.25	18.32	18.34	18.41	18.18					
20	25QAM	1	80	18.35	18.38	18.35	18.41	18.17					
20	25QAM	50	0	18.21	18.29	18.26	18.13	18.17	19	5			
20	25QAM	50	24	18.02	18.10	18.27	18.15	18.15					
20	25QAM	100	0	18.20	18.19	18.22	18.23	18.12					
20	25QAM	100	0	18.12	18.18	18.29	18.20	17.99					
Channel													
Frequency (MHz)													
2501.5	2643	2701	2837.8	2922.5									
15	QPSK	1	0	23.16	23.26	23.28	23.29	23.14	24	0			
15	QPSK	1	40	23.14	23.14	23.15	23.17	23.08					
15	QPSK	1	74	23.08	23.09	23.07	23.18	23.10					
15	QPSK	36	0	22.15	22.23	22.35	22.36	22.15	23	1			
15	QPSK	36	20	22.11	22.12	22.25	22.22	22.02					
15	QPSK	36	36	22.07	22.14	22.20	22.02	22.14					
15	QPSK	36	52	21.89	22.09	22.24	22.11	21.96					
15	16QAM	1	0	21.92	22.08	22.11	21.98	21.97	23	1			
15	16QAM	1	36	22.02	22.12	22.15	22.07	21.98					
15	16QAM	1	74	22.13	22.18	22.09	22.15	22.09					
15	16QAM	36	0	21.09	21.26	21.14	21.33	21.13	22	2			
15	16QAM	36	20	21.01	21.18	21.29	21.10	21.24					
15	16QAM	36	36	21.12	21.19	21.22	21.18	21.15					
15	16QAM	75	0	21.03	21.18	21.17	21.14	21.07	22	2			
15	16QAM	75	20	21.19	21.18	21.29	21.20	21.24					
15	8QAM	1	37	21.24	21.28	21.25	21.19	21.22	22	2			
15	8QAM	1	74	21.11	21.12	21.11	21.11	21.11					
15	8QAM	36	0	20.05	20.14	20.10	20.						



DS2									
GSMSD Ant	Band A (Tx Power) (dBm)			Front-Average Power (dBm)			Limit		
TX Channel	198	199	201	198	199	201	198	199	201
Frequency (MHz)	1824	1824	1824	1824	1824	1824	1824	1824	1824
GSMA 1 Tx Ant	23.81	23.88	23.78	31.40	23.81	23.88	23.78	22.40	22.40
OPRR 1 Tx Ant	27.14	27.08	27.14	31.40	27.14	27.08	27.14	27.14	27.14
OPRR 2 Tx Ant	27.14	27.08	27.14	31.40	27.14	27.08	27.14	27.14	27.14
OPRR 3 Tx Ant	25.80	25.88	25.83	28.80	25.84	25.83	25.84	25.84	25.84
OPRR 4 Tx Ant	24.50	24.47	24.41	25.00	24.50	24.47	24.41	24.41	24.41
EDGE 1 Tx Ant	25.82	25.93	25.86	27.00	25.82	25.93	25.86	18.00	18.00
EDGE 2 Tx Ant	25.00	25.13	24.99	26.00	25.00	25.13	24.99	18.00	18.00
EDGE 3 Tx Ant	23.34	23.41	23.27	24.30	23.34	23.41	23.27	18.01	18.01
EDGE 4 Tx Ant	23.00	23.01	23.00	23.00	23.00	23.00	23.00	18.00	18.00

DS3									
GSMSD Ant	Band A (Tx Power) (dBm)			Front-Average Power (dBm)			Limit		
TX Channel	512	561	510	512	561	510	512	561	510
Frequency (MHz)	1824.2	1824	1824.8	1824.2	1824	1824.8	1824.2	1824	1824.8
GSMA 1 Tx Ant	25.13	25.19	25.10	28.50	25.13	25.19	25.10	17.00	17.00
OPRR 1 Tx Ant	22.11	22.15	22.03	22.03	22.11	22.15	22.03	17.00	17.00
OPRR 2 Tx Ant	22.11	22.26	22.15	23.30	22.11	22.26	22.15	17.00	17.00
OPRR 3 Tx Ant	22.11	22.15	22.03	22.03	22.11	22.15	22.03	17.00	17.00
OPRR 4 Tx Ant	19.20	19.38	19.24	20.50	19.20	19.38	19.24	17.00	17.00
EDGE 1 Tx Ant	24.75	24.80	24.80	25.00	24.75	24.80	24.80	18.00	18.00
EDGE 2 Tx Ant	22.44	22.68	22.55	23.30	22.44	22.68	22.55	17.00	17.00
EDGE 3 Tx Ant	20.23	20.51	20.74	21.00	20.23	20.51	20.74	17.44	17.44
EDGE 4 Tx Ant	19.68	19.71	19.65	20.00	19.68	19.71	19.65	17.00	17.00

Band	WCDMA 1X Ant			WCDMA 1X Ant			WCDMA 1X Ant			WCDMA 1X Ant		
	198	199	201	198	199	201	198	199	201	198	199	201
Frequency (MHz)	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824
SCPP Path 0	15.13	15.20	15.11	18.20	15.26	15.21	15.20	20.50	20.50	20.50	20.50	22.20
SCPP Path 1	15.19	15.24	15.18	18.20	15.20	15.31	15.22	18.30	20.50	20.50	20.51	22.20
SCPP Path 2	14.21	14.31	14.20	15.20	14.30	14.21	14.21	15.30	18.60	18.84	18.77	21.20
SCPP Path 3	13.87	13.79	13.71	14.70	13.83	13.80	13.78	14.80	18.20	18.24	18.30	20.70
SCPP Path 4	14.22	14.30	14.19	15.20	14.30	14.40	14.20	15.30	18.80	18.80	18.78	21.00
SCPP Path 5	13.24	13.17	13.04	14.70	13.78	13.80	13.80	14.80	18.10	18.38	18.00	20.70
SCPP Path 6	13.71	13.86	13.80	14.70	13.75	13.80	13.82	14.80	18.21	18.22	18.11	20.70
SCPP Path 7	14.20	14.12	14.13	15.20	14.48	14.21	14.24	15.30	18.87	18.81	18.73	21.20
SCPP Path 8	13.23	13.24	13.14	13.00	13.30	13.21	13.21	13.30	17.88	17.86	17.74	19.00
SCPP Path 9	13.15	13.37	13.08	14.20	13.27	13.41	13.14	14.30	18.68	18.74	18.67	20.20
SCPP Path 10	12.20	12.21	12.08	13.20	12.20	12.20	12.10	13.30	17.80	17.70	17.70	18.20
SCPP Path 11	14.00	14.20	14.02	15.20	14.18	14.20	14.08	15.30	18.80	18.74	18.67	21.20



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Band 2 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. (W/Hz)	Power Modem (W)	Power Pch./Freq. (W/Hz)	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.80	15.74	15.83				
20	QPSK	1	49	15.81	15.75	15.70	16.9	0		
20	QPSK	1	99	15.82	15.86	15.85				
20	QPSK	1	149	15.83	15.84	15.84				
20	QPSK	50	24	15.85	15.87	15.81	16.9	0		
20	QPSK	50	50	15.83	15.70	15.60				
20	QPSK	50	76	15.83	15.70	15.64				
20	QPSK	50	102	15.80	15.67	15.63				
20	QPSK	50	128	15.83	15.70	15.68				
20	QPSK	50	154	15.83	15.70	15.63				
20	QPSK	50	180	15.83	15.70	15.63				
20	QPSK	50	206	15.83	15.70	15.63				
20	QPSK	50	232	15.83	15.70	15.63				
20	QPSK	50	258	15.83	15.70	15.63				
20	QPSK	50	284	15.83	15.70	15.63				
20	QPSK	50	310	15.83	15.70	15.63				
20	QPSK	50	336	15.83	15.70	15.63				
20	QPSK	50	362	15.83	15.70	15.63				
20	QPSK	50	388	15.83	15.70	15.63				
20	QPSK	50	414	15.83	15.70	15.63				
20	QPSK	50	440	15.83	15.70	15.63				
20	QPSK	50	466	15.83	15.70	15.63				
20	QPSK	50	492	15.83	15.70	15.63				
20	QPSK	50	518	15.83	15.70	15.63				
20	QPSK	50	544	15.83	15.70	15.63				
20	QPSK	50	570	15.83	15.70	15.63				
20	QPSK	50	596	15.83	15.70	15.63				
20	QPSK	50	622	15.83	15.70	15.63				
20	QPSK	50	648	15.83	15.70	15.63				
20	QPSK	50	674	15.83	15.70	15.63				
20	QPSK	50	700	15.83	15.70	15.63				
20	QPSK	50	726	15.83	15.70	15.63				
20	QPSK	50	752	15.83	15.70	15.63				
20	QPSK	50	778	15.83	15.70	15.63				
20	QPSK	50	804	15.83	15.70	15.63				
20	QPSK	50	830	15.83	15.70	15.63				
20	QPSK	50	856	15.83	15.70	15.63				
20	QPSK	50	882	15.83	15.70	15.63				
20	QPSK	50	908	15.83	15.70	15.63				
20	QPSK	50	934	15.83	15.70	15.63				
20	QPSK	50	960	15.83	15.70	15.63				
20	QPSK	50	986	15.83	15.70	15.63				
20	QPSK	50	1012	15.83	15.70	15.63				
20	QPSK	50	1038	15.83	15.70	15.63				
20	QPSK	50	1064	15.83	15.70	15.63				
20	QPSK	50	1090	15.83	15.70	15.63				
20	QPSK	50	1116	15.83	15.70	15.63				
20	QPSK	50	1142	15.83	15.70	15.63				
20	QPSK	50	1168	15.83	15.70	15.63				
20	QPSK	50	1194	15.83	15.70	15.63				
20	QPSK	50	1220	15.83	15.70	15.63				
20	QPSK	50	1246	15.83	15.70	15.63				
20	QPSK	50	1272	15.83	15.70	15.63				
20	QPSK	50	1298	15.83	15.70	15.63				
20	QPSK	50	1324	15.83	15.70	15.63				
20	QPSK	50	1350	15.83	15.70	15.63				
20	QPSK	50	1376	15.83	15.70	15.63				
20	QPSK	50	1402	15.83	15.70	15.63				
20	QPSK	50	1428	15.83	15.70	15.63				
20	QPSK	50	1454	15.83	15.70	15.63				
20	QPSK	50	1480	15.83	15.70	15.63				
20	QPSK	50	1506	15.83	15.70	15.63				
20	QPSK	50	1532	15.83	15.70	15.63				
20	QPSK	50	1558	15.83	15.70	15.63				
20	QPSK	50	1584	15.83	15.70	15.63				
20	QPSK	50	1610	15.83	15.70	15.63				
20	QPSK	50	1636	15.83	15.70	15.63				
20	QPSK	50	1662	15.83	15.70	15.63				
20	QPSK	50	1688	15.83	15.70	15.63				
20	QPSK	50	1714	15.83	15.70	15.63				
20	QPSK	50	1740	15.83	15.70	15.63				
20	QPSK	50	1766	15.83	15.70	15.63				
20	QPSK	50	1792	15.83	15.70	15.63				
20	QPSK	50	1818	15.83	15.70	15.63				
20	QPSK	50	1844	15.83	15.70	15.63				
20	QPSK	50	1870	15.83	15.70	15.63				
20	QPSK	50	1896	15.83	15.70	15.63				
20	QPSK	50	1922	15.83	15.70	15.63				
20	QPSK	50	1948	15.83	15.70	15.63				
20	QPSK	50	1974	15.83	15.70	15.63				
20	QPSK	50	2000	15.83	15.70	15.63				
20	QPSK	50	2026	15.83	15.70	15.63				
20	QPSK	50	2052	15.83	15.70	15.63				
20	QPSK	50	2078	15.83	15.70	15.63				
20	QPSK	50	2104	15.83	15.70	15.63				
20	QPSK	50	2130	15.83	15.70	15.63				
20	QPSK	50	2156	15.83	15.70	15.63				
20	QPSK	50	2182	15.83	15.70	15.63				
20	QPSK	50	2208	15.83	15.70	15.63				
20	QPSK	50	2234	15.83	15.70	15.63				
20	QPSK	50	2260	15.83	15.70	15.63				
20	QPSK	50	2286	15.83	15.70	15.63				
20	QPSK	50	2312	15.83	15.70	15.63				
20	QPSK	50	2338	15.83	15.70	15.63				
20	QPSK	50	2364	15.83	15.70	15.63				
20	QPSK	50	2390	15.83	15.70	15.63				
20	QPSK	50	2416	15.83	15.70	15.63				
20	QPSK	50	2442	15.83	15.70	15.63				
20	QPSK	50	2468	15.83	15.70	15.63				
20	QPSK	50	2494	15.83	15.70	15.63				
20	QPSK	50	2520	15.83	15.70	15.63				
20	QPSK	50	2546	15.83	15.70	15.63				
20	QPSK	50	2572	15.83	15.70	15.63				
20	QPSK	50	2598	15.83	15.70	15.63				
20	QPSK	50	2624	15.83	15.70	15.63				
20	QPSK	50	2650	15.83	15.70	15.63				
20	QPSK	50	2676	15.83	15.70	15.63				
20	QPSK	50	2702	15.83	15.70	15.63				
20	QPSK	50	2728	15.83	15.70	15.63				
20	QPSK	50	2754	15.83	15.70	15.63				
20	QPSK	50	2780	15.83	15.70	15.63				
20	QPSK	50	2806	15.83	15.70	15.63				
20	QPSK	50	2832	15.83	15.70	15.63				
20	QPSK	50	2858	15.83	15.70	15.63				
20	QPSK	50	2884	15.83	15.70	15.63				
20	QPSK	50	2910	15.83	15.70	15.63				
20	QPSK	50	2936	15.83	15.70	15.63				
20	QPSK	50	2962	15.83	15.70	15.63				
20	QPSK	50	2988	15.83	15.70	15.63				
20	QPSK	50	3014	15.83	15.70	15.63				
20	QPSK	50	3040	15.83	15.70	15.63				
20	QPSK	50	3066	15.83	15.70	15.63				
20	QPSK	50	3092	15.83	15.70	15.63				
20	QPSK	50	3118	15.83	15.70	15.63				
20	QPSK	50	3144	15.83	15.70	15.63				
20	QPSK	50	3170	15.83	15.70	15.63				
20	QPSK	50	3196	15.83	15.70	15.63				
20	QPSK	50	3222	15.83	15.70					



Band 12 Ant1 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)			
Channel										
Frequency (MHz)										
707.5 711										
10	QPSK	1	0	21.36	21.41	21.47				
10	QPSK	1	35	21.33	21.35	21.48	22.8	0		
10	QPSK	1	40	21.43	21.42	21.43				
10	QPSK	35	0	21.36	21.41	21.48				
10	QPSK	35	12	21.37	21.43	21.38	22.8	0		
10	QPSK	35	25	21.40	21.48	21.45				
10	QPSK	35	0	21.36	21.41	21.38				
10	HQAM	1	0	21.33	21.45	21.42				
10	HQAM	1	25	21.27	21.40	21.43	22.8	0		
10	HQAM	1	40	21.44	21.51	21.48				
10	HQAM	35	0	20.36	20.27	20.39				
10	HQAM	35	12	20.38	20.29	20.45	22	0.8		
10	HQAM	35	25	20.38	20.49	20.48				
10	HQAM	35	0	20.37	20.38	20.35				
10	HQAM	1	0	20.96	20.96	21.00				
10	HQAM	1	25	20.31	20.41	20.30	22	0.8		
10	HQAM	1	40	20.41	20.43	20.39				
10	HQAM	35	0	19.48	19.49	19.38				
10	HQAM	35	12	19.42	19.48	19.39	21	1.8		
10	HQAM	35	25	19.34	19.47	19.33				
10	HQAM	35	0	19.39	19.27	19.43				
10	ZSSBQAM	1	0	17.57	17.75	17.64				
10	ZSSBQAM	1	25	17.48	17.50	17.63	19	3.8		
10	ZSSBQAM	1	40	17.64	17.59	17.61				
10	ZSSBQAM	35	0	17.42	17.57	17.43				
10	ZSSBQAM	35	12	17.52	17.51	17.45	19	3.8		
10	ZSSBQAM	35	25	17.54	17.51	17.49				
10	ZSSBQAM	35	0	17.27	17.39	17.30				
Channel										
Frequency (MHz)										
707.5 707.5 713.5										
5	QPSK	1	0	21.30	21.54	21.50				
5	QPSK	1	12	21.26	21.45	21.43	22.8	0		
5	QPSK	1	24	21.40	21.30	21.31				
5	QPSK	12	0	21.26	21.47	21.38				
5	QPSK	12	7	21.27	21.37	21.28	22.8	0		
5	QPSK	12	13	21.30	21.39	21.40				
5	QPSK	25	0	21.20	21.30	21.29				
5	HQAM	1	0	21.22	21.44	21.37				
5	HQAM	1	12	21.20	21.30	21.30	22.8	0		
5	HQAM	1	24	21.28	21.41	21.44				
5	HQAM	12	0	20.28	20.27	20.25	22	0.8		
5	HQAM	12	7	20.22	20.43	20.41				
5	HQAM	12	13	20.22	20.31	20.34				
5	HQAM	1	0	20.32	20.28	20.34				
5	HQAM	1	24	20.38	20.32	20.33	22	0.8		
5	HQAM	12	0	19.32	19.41	19.28				
5	HQAM	12	7	19.38	19.43	19.33	21	1.8		
5	HQAM	12	13	19.24	19.35	19.21				
5	ZSSBQAM	1	0	19.11	19.23	19.30				
5	ZSSBQAM	1	0	17.43	17.52	17.60	19	3.8		
5	ZSSBQAM	1	12	17.38	17.45	17.49				
5	ZSSBQAM	12	0	17.29	17.48	17.41				
5	ZSSBQAM	12	7	17.27	17.30	17.28	19	3.8		
5	ZSSBQAM	12	13	17.41	17.41	17.41				
5	ZSSBQAM	25	0	17.10	17.29	17.17				
Channel										
Frequency (MHz)										
2307.5 2309.5 2317.5										
3	QPSK	1	0	21.53	21.52	21.44				
3	QPSK	1	8	21.29	21.45	21.41	22.8	0		
3	QPSK	14	0	21.29	21.28	21.35				
3	QPSK	8	0	21.28	21.43	21.32				
3	QPSK	8	4	21.33	21.29	21.31	22.8	0		
3	QPSK	7	0	21.34	21.43	21.41				
3	QPSK	16	0	21.20	21.30	21.28				
3	HQAM	1	0	21.27	21.36	21.38				
3	HQAM	1	8	21.24	21.52	21.31	22.8	0		
3	HQAM	1	14	21.24	21.41	21.35				
3	HQAM	8	0	20.29	20.27	20.34				
3	HQAM	8	4	20.27	20.43	20.39	22	0.8		
3	HQAM	8	7	20.31	20.44	20.43				
3	HQAM	1	0	20.22	20.28	20.24				
3	HQAM	1	0	20.22	20.32	20.29				
3	HQAM	1	8	20.22	20.38	20.16	22	0.8		
3	HQAM	1	14	20.33	20.29	20.29				
3	HQAM	8	0	19.41	19.34	19.24				
3	HQAM	8	4	19.38	19.42	19.31	21	1.8		
3	HQAM	8	7	19.38	19.53	19.20				
3	HQAM	16	0	19.21	19.29	19.35				
3	ZSSBQAM	1	0	17.44	17.48	17.51				
3	ZSSBQAM	1	8	17.44	17.45	17.50	19	3.8		
3	ZSSBQAM	1	14	17.57	17.71	17.49				
3	ZSSBQAM	8	0	17.28	17.45	17.38				
3	ZSSBQAM	8	4	17.35	17.35	17.38	19	3.8		
3	ZSSBQAM	8	7	17.46	17.41	17.35				
3	ZSSBQAM	16	0	17.20	17.24	17.27				
Channel										
Frequency (MHz)										
2307.5 2307.5 2313.5										
1.4	QPSK	1	0	21.28	21.53	21.53				
1.4	QPSK	1	3	21.28	21.53	21.40	22.8	0		
1.4	QPSK	1	5	21.32	21.29	21.38				
1.4	QPSK	3	0	21.34	21.54	21.48				
1.4	QPSK	3	1	21.20	21.43	21.43				
1.4	QPSK	3	3	21.34	21.33	21.31	22.8	0		
1.4	QPSK	6	0	21.29	21.48	21.33				
1.4	HQAM	1	0	21.29	21.38	21.25				
1.4	HQAM	3	0	21.34	21.26	21.40				
1.4	HQAM	1	5	21.23	21.28	21.27	22.8	0		
1.4	HQAM	3	0	21.23	21.38	21.30				
1.4	HQAM	3	1	21.16	21.34	21.33				
1.4	HQAM	3	3	21.19	21.43	21.31				
1.4	HQAM	6	0	20.31	20.33	20.23	22	0.8		
1.4	HQAM	1	3	20.27	20.44	20.33				
1.4	HQAM	1	6	20.21	20.29	20.20	22	0.8		
1.4	HQAM	3	0	20.21	20.31	20.28				
1.4	HQAM	3	1	20.19	20.29	20.18				
1.4	HQAM	6	0	20.18	20.18	20.28				
1.4	HQAM	6	0	19.41	19.39	19.28	21	1.8		
1.4	ZSSBQAM	1	0	17.46	17.67	17.50				
1.4	ZSSBQAM	1	3	17.38	17.41	17.46	19	3.8		
1.4	ZSSBQAM	1	5	17.60	17.70	17.51				
1.4	ZSSBQAM	3	0	17.29	17.51	17.35				
1.4	ZSSBQAM	3	1	17.13	17.28	17.24				
1.4	ZSSBQAM	3	3	17.41	17.37	17.35				
1.4	ZSSBQAM	6	0	17.22	17.32	17.16	19	3.8		

Band 13 Ant1 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)			
Channel										
Frequency (MHz)										
712										
10	QPSK	1	0	20.90						
10	QPSK	1	25	19.97			21.1	0		
10	QPSK	1	49	19.88						
10	QPSK	35	0	20.90						
10	QPSK	35	12	19.84			21.1	0		
10	QPSK	35	25	19.96						
10	QPSK	35	0	20.90						
10	HQAM	1	0	19.88						
10	HQAM	1	25	19.90			21.1	0		
10	HQAM	1	49	20.00						
10	HQAM	35	0	19.87						
10	HQAM	35	12	19.99			21.1	0		
10	HQAM	35	25	19.97						
10	HQAM	35	0	19.84						
10	HQAM	1	0	19.90						
10	HQAM	1	25	19.93			21.1	0		
10	HQAM	1	49	19.96						
10	HQAM	35	0	19.70						
10	HQAM	35	12	19.84			21	0.1		
10	HQAM	35	25	19.72						
10	HQAM	35	0	19.62						
10	ZSSBQAM	1	0	17.92						
10	ZSSBQAM	1	25	17.73			19	2.1		
10	ZSSBQAM	1	49	17.65						
10	ZSSBQAM	35	0	17.74						
10	ZSSBQAM	35	12	17.74			19	2.1		
10	ZSSBQAM	35	25	17.81						
10	ZSSBQAM	35	0	17.68						
10	ZSSBQAM	35	12	17.85			19	2.1		
10	ZSSBQAM	35	25	17.85						
Channel										
Frequency (MHz)										
2307.5 2307.5 2320.5										
5	QPSK	1	0	19.93	20.00	19.92				
5	QPSK	1	12	19.80	19.97	19.89	21.1	0		
5	QPSK	1	24	19.81	19.87	19.85				
5	QPSK	12	0	19.77	19.93	19.88				
5	QPSK	12	7	19.80	19.89	19.82	21.1	0		
5	QPSK	12	13	19.87	19.99	19.90				
5	QPSK	25	0	19.83	19.91	19.85				
5	HQAM	1	0	19.74	19.94	19.83				
5	HQAM	1	12	19.70	19.84	19.87	21.1	0		
5	HQAM	1	24	19.73	19.96	19.91				
5	HQAM	12	0	19.78	19.91	19.94	2			



Band 26 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Turn-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.74	20.77	20.80	21.8	0		
15	QPSK	1	74	20.74	20.75	20.78				
15	QPSK	0	0	20.78	20.80	20.82				
15	QPSK	36	20	20.84	20.77	20.74	21.8	0		
15	QPSK	36	30	20.86	20.83	20.77				
15	QPSK	0	0	20.86	20.87	20.88				
15	HQAM	1	0	20.89	20.87	20.89	21.8	0		
15	HQAM	1	37	20.87	20.87	20.88				
15	HQAM	74	20	20.94	20.90	20.75	21.8	0		
15	HQAM	36	0	20.99	20.90	20.45				
15	HQAM	36	20	20.99	20.90	20.55	21.8	0		
15	HQAM	36	30	20.95	20.53	20.43				
15	HQAM	75	0	20.24	20.53	20.28				
15	HQAM	1	37	20.95	20.67	20.54	21.8	0		
15	HQAM	1	74	20.44	20.61	20.33				
15	HQAM	36	0	19.40	19.47	19.33				
15	HQAM	36	20	19.38	19.51	19.38	21	0.8		
15	HQAM	36	30	19.42	19.50	19.37				
15	HQAM	75	0	19.29	19.38	19.30				
15	ZSSBAM	1	0	17.53	17.74	17.60	19	2.8		
15	ZSSBAM	1	74	17.48	17.56	17.60				
15	ZSSBAM	36	0	17.46	17.49	17.33	19	2.8		
15	ZSSBAM	36	20	17.54	17.45	17.45				
15	ZSSBAM	36	30	17.54	17.45	17.55	19	2.8		
15	ZSSBAM	75	0	17.52	17.42	17.29				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.64	20.77	20.77	21.8	0		
10	QPSK	1	36	20.64	20.77	20.78				
10	QPSK	1	40	20.71	20.63	20.70				
10	QPSK	25	0	20.63	20.74	20.55	21.8	0		
10	QPSK	25	24	20.68	20.78	20.66				
10	QPSK	50	0	20.56	20.75	20.74	21.8	0		
10	HQAM	1	40	20.57	20.67	20.69	21.8	0		
10	HQAM	1	26	20.51	20.63	20.60				
10	HQAM	36	0	20.45	20.72	20.51	21.8	0		
10	HQAM	36	0	20.45	20.62	20.32				
10	HQAM	36	12	20.34	20.27	20.43	21.8	0		
10	HQAM	36	20	20.34	20.27	20.43				
10	HQAM	50	0	20.18	20.40	20.14	21.8	0		
10	HQAM	1	0	20.31	20.48	20.43				
10	HQAM	36	0	20.18	20.40	20.18	21.8	0		
10	HQAM	1	40	20.38	20.58	20.18				
10	HQAM	25	0	19.26	19.41	19.29				
10	HQAM	12	19.31	19.37	19.31	21	0.8			
10	HQAM	25	25	19.38	19.44	19.31				
10	HQAM	50	0	19.34	19.34	19.35				
10	ZSSBAM	1	0	17.50	17.64	17.53	19	2.8		
10	ZSSBAM	1	25	17.40	17.49	17.52				
10	ZSSBAM	36	0	17.50	17.64	17.53	19	2.8		
10	ZSSBAM	36	20	17.53	17.44	17.22				
10	ZSSBAM	36	30	17.53	17.44	17.22				
10	ZSSBAM	50	0	17.50	17.57	17.29	19	2.8		
10	ZSSBAM	50	20	17.48	17.41	17.41				
10	ZSSBAM	50	0	17.18	17.21	17.21				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.64	20.58	20.72	21.8	0		
5	QPSK	1	12	20.71	20.60	20.80				
5	QPSK	24	0	20.62	20.72	20.78	21.8	0		
5	QPSK	12	0	20.62	20.78	20.57				
5	QPSK	12	7	20.57	20.70	20.81	21.8	0		
5	QPSK	25	0	20.62	20.72	20.71				
5	QPSK	25	0	20.58	20.69	20.67				
5	HQAM	1	0	20.56	20.61	20.56	21.8	0		
5	HQAM	1	12	20.54	20.52	20.60				
5	HQAM	1	24	20.53	20.68	20.64				
5	HQAM	12	0	20.55	20.62	20.51	21.8	0		
5	HQAM	12	7	20.43	20.33	20.39				
5	HQAM	12	13	20.40	20.41	20.39				
5	HQAM	1	0	20.18	20.40	20.14	21.8	0		
5	HQAM	1	0	20.34	20.42	20.45				
5	HQAM	1	12	20.60	20.53	20.44	21.8	0		
5	HQAM	1	24	20.36	20.46	20.43				
5	HQAM	12	0	19.20	19.40	19.30				
5	HQAM	12	7	19.31	19.37	19.32	21	0.8		
5	HQAM	12	13	19.31	19.36	19.33				
5	HQAM	25	0	19.12	19.27	19.25				
5	ZSSBAM	1	0	17.45	17.55	17.54	19	2.8		
5	ZSSBAM	1	24	17.56	17.66	17.41				
5	ZSSBAM	36	0	17.46	17.67	17.54	19	2.8		
5	ZSSBAM	36	20	17.54	17.53	17.26				
5	ZSSBAM	36	30	17.43	17.42	17.48	19	2.8		
5	ZSSBAM	50	0	17.41	17.38	17.20				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.63	20.63	20.73	21.8	0		
3	QPSK	1	8	20.65	20.61	20.73				
3	QPSK	1	14	20.71	20.60	20.64				
3	QPSK	8	0	20.65	20.73	20.63	21.8	0		
3	QPSK	8	4	20.57	20.70	20.69				
3	QPSK	8	7	20.65	20.77	20.72	21.8	0		
3	HQAM	1	0	20.56	20.74	20.73				
3	HQAM	1	0	20.57	20.54	20.59	21.8	0		
3	HQAM	8	0	20.59	20.62	20.55				
3	HQAM	14	0	20.55	20.72	20.67	21.8	0		
3	HQAM	8	0	20.52	20.55	20.34				
3	HQAM	8	4	20.34	20.38	20.31	21.8	0		
3	HQAM	8	7	20.33	20.48	20.32				
3	HQAM	15	0	20.10	20.43	20.17	21.8	0		
3	HQAM	1	0	20.36	20.46	20.43				
3	HQAM	1	8	20.55	20.63	20.44	21.8	0		
3	HQAM	1	16	20.34	20.53	20.21				
3	HQAM	1	24	20.37	20.52	20.26				
3	HQAM	8	4	19.35	19.41	19.23	21	0.8		
3	HQAM	15	0	19.27	19.36	19.26				
3	HQAM	15	0	19.31	19.32	19.26				
3	ZSSBAM	1	0	17.47	17.61	17.56	19	2.8		
3	ZSSBAM	1	8	17.46	17.67	17.54				
3	ZSSBAM	1	14	17.50	17.70	17.43	19	2.8		
3	ZSSBAM	8	0	17.50	17.42	17.20				
3	ZSSBAM	8	4	17.43	17.84	17.21				
3	ZSSBAM	8	7	17.50	17.40	17.44	19	2.8		
3	ZSSBAM	15	0	17.20	17.33	17.15				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.71	20.66	20.75	21.8	0		
1.4	QPSK	1	3	20.68	20.61	20.73				
1.4	QPSK	1	5	20.63	20.64	20.71				
1.4	QPSK	1	0	20.56	20.77	20.79	21.8	0		
1.4	QPSK	1	3	20.66	20.78	20.77				
1.4	QPSK	3	0	20.66	20.71	20.62				
1.4	QPSK	0	0	20.69	20.74	20.67	21.8	0		
1.4	HQAM	1	0	20.58	20.66	20.60				
1.4	HQAM	1	3	20.59	20.71	20.67	21.8	0		
1.4	HQAM	1	5	20.66	20.75	20.66				
1.4	HQAM	3	0	20.55	20.63	20.59	21.8	0		
1.4	HQAM	3	1	20.52	20.58	20.58				
1.4	HQAM	3	3	20.34	20.41	20.39	21.8	0		
1.4	HQAM	3	0	20.47	20.59	20.31				
1.4	HQAM	1	0	20.37	20.36	20.41				
1.4	HQAM	1	3	20.34	20.41	20.39	21.8	0		
1.4	HQAM	1	5	20.20	20.48	20.13				
1.4	HQAM	3	0	20.37	20.47	20.44	21.8	0		
1.4	HQAM	3	0	20.55	20.60	20.44				
1.4	HQAM	3	3	20.39	20.58	20.18				



Band 38 Ant1 DS12										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)		
Channel										
Frequency (MHz)										
38	QPSK	1	0	17.32	17.42	17.22				
38	QPSK	1	0	17.22	17.34	17.26				
38	QPSK	1	0	17.34	17.36	17.27				
38	QPSK	50	0	17.28	17.38	17.30				
38	QPSK	50	0	17.38	17.38	17.30				
38	QPSK	50	0	17.15	17.25	17.19				
38	QPSK	100	0	17.19	17.31	17.28				
38	16QAM	1	40	17.28	17.28	17.28				
38	16QAM	1	40	17.88	17.20	17.20				
38	16QAM	1	60	17.13	17.25	17.25				
38	16QAM	50	0	17.14	17.26	17.27				
38	16QAM	50	24	17.17	17.31	17.34				
38	16QAM	100	0	17.17	17.22	17.18				
38	8QAM	1	0	17.18	17.20	17.18				
38	8QAM	1	40	17.03	17.22	17.15				
38	8QAM	1	60	17.19	17.25	17.24				
38	8QAM	50	0	17.06	17.21	17.25				
38	8QAM	50	24	17.04	17.15	17.21				
38	8QAM	50	50	17.18	17.30	17.32				
38	8QAM	100	0	17.01	17.14	17.18				
38	256QAM	1	0	17.85	17.40	17.23				
38	256QAM	1	40	17.27	17.18	17.24				
38	256QAM	1	60	17.07	17.28	17.24				
38	256QAM	50	0	17.11	17.19	17.16				
38	256QAM	50	24	17.11	17.19	17.16				
38	256QAM	50	50	17.05	17.10	17.03				
38	256QAM	100	0	17.02	17.11	16.91				
Channel										
Frequency (MHz)										
16	QPSK	1	0	17.28	17.29	17.17				
16	QPSK	1	0	17.16	17.16	17.08				
16	QPSK	1	74	17.08	17.18	17.08				
16	QPSK	36	0	17.11	17.14	17.18				
16	QPSK	36	0	17.11	17.14	17.18				
16	QPSK	36	30	17.21	17.16	17.10				
16	QPSK	36	30	17.13	17.21	17.21				
16	16QAM	1	0	16.92	17.13	17.21				
16	16QAM	1	74	17.03	17.11	17.20				
16	16QAM	36	0	17.09	17.09	17.16				
16	16QAM	36	0	17.08	17.14	17.16				
16	16QAM	36	30	17.08	17.14	17.05				
16	16QAM	75	0	17.11	17.10	17.08				
16	8QAM	1	0	17.04	17.13	17.03				
16	8QAM	1	37	16.93	17.13	17.05				
16	8QAM	1	74	17.03	17.03	17.03				
16	8QAM	36	0	16.97	17.12	17.05				
16	8QAM	36	30	16.92	17.05	17.08				
16	8QAM	75	0	16.85	17.01	17.05				
16	8QAM	75	0	16.85	17.01	17.05				
16	256QAM	1	0	17.15	17.15	17.10				
16	256QAM	1	74	17.12	17.22	16.94				
16	256QAM	36	0	17.04	17.14	17.04				
16	256QAM	36	30	16.81	16.84	16.86				
16	256QAM	36	30	16.85	17.00	16.98				
16	256QAM	75	0	16.88	17.08	16.81				
Channel										
Frequency (MHz)										
16	QPSK	1	0	17.19	17.20	17.10				
16	QPSK	1	25	17.09	17.24	17.18				
16	QPSK	25	0	17.11	17.23	17.21				
16	QPSK	25	12	17.19	17.17	17.07				
16	QPSK	25	12	17.12	17.28	17.28				
16	QPSK	50	0	17.10	17.17	17.15				
16	16QAM	1	0	16.87	17.11	17.08				
16	16QAM	1	25	16.97	17.14	17.27				
16	16QAM	25	12	17.05	17.18	17.17				
16	16QAM	25	12	17.03	17.21	17.11				
16	16QAM	50	0	16.93	17.14	17.06				
16	8QAM	1	0	17.01	17.01	17.01				
16	8QAM	1	25	17.03	17.15	17.03				
16	8QAM	25	12	17.07	17.14	17.06				
16	8QAM	25	12	17.01	17.10	17.08				
16	8QAM	50	0	16.91	17.09	17.07				
16	8QAM	50	25	17.03	17.25	17.28				
16	8QAM	100	0	17.21	17.30	17.17				
16	256QAM	1	0	17.18	17.12	17.11				
16	256QAM	1	40	16.96	17.10	17.09				
16	256QAM	25	12	16.84	16.86	16.81				
16	256QAM	25	12	16.89	16.97	16.94				
16	256QAM	50	0	16.90	17.07	16.83				
Channel										
Frequency (MHz)										
5	QPSK	1	0	17.26	17.37	17.22				
5	QPSK	1	12	17.17	17.18	17.12				
5	QPSK	1	24	17.05	17.21	17.15				
5	QPSK	12	0	17.14	17.24	17.16				
5	QPSK	12	0	17.18	17.15	17.15				
5	QPSK	12	13	17.10	17.11	17.09				
5	QPSK	25	0	17.00	17.16	17.15				
5	16QAM	1	0	16.82	17.12	17.22				
5	16QAM	1	12	16.99	17.12	17.07				
5	16QAM	1	24	17.02	17.20	17.27				
5	16QAM	12	0	17.07	17.13	17.22				
5	16QAM	12	13	17.11	17.22	17.09				
5	16QAM	25	0	17.03	17.09	17.09				
5	8QAM	1	0	17.02	17.03	17.10				
5	8QAM	1	12	16.96	17.13	17.10				
5	8QAM	1	24	17.10	17.12	17.20				
5	8QAM	12	0	17.01	17.02	17.04				
5	8QAM	12	13	17.08	17.05	17.10				
5	8QAM	25	0	17.04	16.90	17.10				
5	256QAM	1	0	17.09	17.21	17.27				
5	256QAM	1	12	17.02	17.23	17.10				
5	256QAM	1	24	17.23	17.28	17.14				
5	256QAM	12	0	17.00	17.02	17.10				
5	256QAM	12	13	16.92	16.91	17.00				
5	256QAM	25	0	17.01	16.98	17.08				
5	256QAM	25	0	16.94	17.02	17.08				

Band 41 Ant1 DS12										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)
Channel										
Frequency (MHz)										
41	QPSK	1 <th>0</th> <th>17.32</th> <th>17.30</th> <th>17.44</th> <th>17.36</th> <th>17.23</th> <th></th> <th></th>	0	17.32	17.30	17.44	17.36	17.23		
41	QPSK	1	0	17.19	17.28	17.37	17.27	17.17		
41	QPSK	1	40	17.30	17.28	17.28	17.28	17.14		
41	QPSK	50	0	17.17	17.25	17.40	17.31	17.28		
41	QPSK	50	0	17.25	17.28	17.28	17.28	17.20		
41	QPSK	50	0	17.20	17.22	17.24	17.24	17.19		
41	QPSK	100	0	17.20	17.25	17.33	17.28	17.19		
41	16QAM	1	40	17.27	17.11	17.20	17.20	17.16		
41	16QAM	1	40	17.15	17.16	17.17	17.21	17.18		
41	16QAM	1	60	17.26	17.18	17.29	17.33	17.28		
41	16QAM	50	0	17.18	17.18	17.21	17.26	17.23		
41	16QAM	50	24	17.27	17.21	17.35	17.33	17.28		
41	16QAM	100	0	17.13	17.26	17.21	17.21	17.12		
41	8QAM	1	0	17.08	17.21	17.29	17.13	17.05		
41	8QAM	1	0	17.15	17.15	17.18	17.19	17.28		
41	8QAM	1	40	17.59	17.02	17.19	17.23	17.08		
41	8QAM	1	60	17.20	17.21	17.24	17.30	17.24		
41	8QAM	50	0	17.07	17.08	17.14	17.19	17.21		
41	8QAM	50	24	17.22	17.08	17.14	17.20	17.14		
41	8QAM	50	50	17.26	17.20	17.31	17.35	17.30		
41	8QAM	100	0	17.10	17.01	17.10	17.20	17.17		
41	256QAM	1	0	17.41	17.27	17.35	17.14	17.28		
41	256QAM	1	40	17.14	17.27	17.25	17.24	17.19		
41	256QAM	1	60	17.20	17.28	17.41	17.27	17.37		
41	256QAM	50	0	17.11	17.15	17.24	17.17	17.12		
41	256QAM	50	24	17.12	17.21	17.21	17.26	17.20		
41	256QAM	50	50	17.08	17.09	17.21	17.11	17.10		
41	256QAM	100	0	17.08	17.10	17.12	16.98	17.04		
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.16	17.16	17.09	17.22	17.17		
15	QPSK	1	0	17.12	17.18	17.20	17.16	17.08		
15	QPSK	1	74	17.12	17.12	17.33	17.21	17.08		
15	QPSK	36	0	17.06	17.08	17.16	17.16	17.06		
15	QPSK	36	0	17.17	17.25	17.21	17.25	17.04		
15	QPSK	36	30	17.07	17.09	17.19	17.08	17.05		
15	QPSK	36	30	17.12	17.21	17.19	17.14	17.14		
15	16QAM	1	0	16.98	16.99	17.20	17.07	17.04		
15	16QAM	1	74	17.07	17.09	17.14	17.18	17.23		
15	16QAM	36	0	17.03	17.11	17.14	17.25	17.09		
15	16QAM	36	0	17.11	17.16	17.21	17.26	17.16		
15	16QAM	36	30							



Band 48 Ant2 DSI2

Row (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Line Middle Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (MHz)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	13.15	13.15	13.12	13.18		
20	QPSK	1	40	13.08	13.03	13.01	13.01	14.4	0
20	QPSK	1	80	13.00	13.00	13.00	13.00		
20	QPSK	50	0	13.07	13.15	13.12	13.11		
20	QPSK	50	24	13.06	13.06	13.06	13.06	14.4	0
20	QPSK	50	50	13.01	13.03	13.04	13.10		
20	QPSK	100	0	12.99	13.05	12.97	13.02		
20	HQAM	1	0	12.78	12.82	12.84	12.78	14.4	0
20	HQAM	1	40	12.80	12.86	12.86	12.77		
20	HQAM	1	80	12.80	13.02	12.93	12.86		
20	HQAM	50	0	12.80	13.01	12.92	12.85	14.4	0
20	HQAM	50	24	12.79	12.91	12.98	12.89		
20	HQAM	50	50	12.85	12.86	12.85	12.82		
20	HQAM	100	0	12.77	13.00	12.83	12.87		
20	HQAM	1	0	12.79	12.88	12.86	12.71	14.4	0
20	HQAM	1	40	12.85	12.79	12.91	12.85		
20	HQAM	1	80	12.86	12.93	12.92	12.87		
20	HQAM	50	0	12.82	12.85	12.84	12.79	14.4	0
20	HQAM	50	24	12.81	12.91	12.85	12.75		
20	HQAM	50	50	12.84	12.94	12.99	12.83		
20	HQAM	100	0	12.80	12.70	12.84	12.71		
20	ZSFGAM	1	0	12.78	12.84	12.86	12.75	14.4	0
20	ZSFGAM	1	40	12.79	12.88	12.90	12.80		
20	ZSFGAM	1	80	12.80	13.00	12.98	12.85		
20	ZSFGAM	50	0	12.88	12.91	12.89	12.80	14.4	0
20	ZSFGAM	50	24	12.74	12.86	12.84	12.81		
20	ZSFGAM	50	50	12.75	12.91	12.85	12.70		
20	ZSFGAM	100	0	12.84	12.85	12.83	12.80		
Channel									
Frequency (MHz)									
15	QPSK	1	0	12.94	13.04	12.96	12.97		
15	QPSK	1	40	12.84	12.90	12.78	12.74	14.4	0
15	QPSK	1	74	12.80	12.81	12.98	12.82		
15	QPSK	36	0	12.85	12.97	12.86	12.88		
15	QPSK	36	20	12.73	12.85	12.94	12.82	14.4	0
15	QPSK	36	50	12.88	12.82	12.80	12.86		
15	QPSK	36	80	12.88	12.81	12.80	12.70		
15	HQAM	1	0	12.87	12.86	12.83	12.70	14.4	0
15	HQAM	1	36	12.87	12.86	12.84	12.70		
15	HQAM	1	74	12.87	12.89	12.84	12.81		
15	HQAM	36	0	12.82	12.88	12.82	12.70	14.4	0
15	HQAM	36	20	12.84	12.88	12.82	12.74		
15	HQAM	36	50	12.77	12.91	12.89	12.72		
15	HQAM	75	0	12.70	12.80	12.80	12.74		
15	HQAM	1	0	12.73	12.85	12.73	12.80	14.4	0
15	HQAM	1	36	12.75	12.74	12.77	12.58		
15	HQAM	1	74	12.78	12.80	12.86	12.80		
15	HQAM	36	0	12.75	12.75	12.87	12.73	14.4	0
15	HQAM	36	20	12.77	12.82	12.72	12.59		
15	HQAM	36	50	12.73	12.81	12.81	12.69		
15	ZSFGAM	1	0	12.69	12.75	12.75	12.70	14.4	0
15	ZSFGAM	1	36	12.70	12.94	12.88	12.55		
15	ZSFGAM	1	74	12.75	12.94	12.94	12.78		
15	ZSFGAM	36	0	12.77	12.86	12.72	12.81	14.4	0
15	ZSFGAM	36	20	12.80	12.87	12.75	12.68		
15	ZSFGAM	36	50	12.70	12.88	12.72	12.63		
15	ZSFGAM	75	0	12.74	12.71	12.73	12.69		
Channel									
Frequency (MHz)									
10	QPSK	1	0	12.91	12.95	12.91	12.94		
10	QPSK	1	25	12.83	12.82	12.77	12.70	14.4	0
10	QPSK	1	50	12.78	12.77	12.88	12.75		
10	QPSK	25	0	12.83	12.85	12.81	12.81		
10	QPSK	25	12	12.82	12.86	12.80	12.70	14.4	0
10	QPSK	25	24	12.87	12.79	12.88	12.80		
10	QPSK	50	0	12.73	12.83	12.73	12.78		
10	HQAM	1	0	12.72	12.85	12.86	12.60	14.4	0
10	HQAM	1	25	12.70	12.88	12.87	12.67		
10	HQAM	1	49	12.75	12.88	12.78	12.62		
10	HQAM	25	0	12.76	12.87	12.79	12.70	14.4	0
10	HQAM	25	12	12.73	12.83	12.91	12.74		
10	HQAM	25	20	12.72	12.89	12.88	12.76		
10	HQAM	25	49	12.85	12.91	12.79	12.63		
10	HQAM	1	0	12.72	12.81	12.74	12.64	14.4	0
10	HQAM	1	25	12.70	12.74	12.76	12.61		
10	HQAM	1	49	12.81	12.89	12.89	12.60		
10	HQAM	25	0	12.78	12.88	12.84	12.71	14.4	0
10	HQAM	25	12	12.72	12.78	12.76	12.60		
10	HQAM	25	25	12.79	12.80	12.91	12.74		
10	HQAM	50	0	12.69	12.86	12.76	12.60	14.4	0
10	ZSFGAM	1	0	12.65	12.81	12.76	12.55		
10	ZSFGAM	1	25	12.70	12.81	12.86	12.70	14.4	0
10	ZSFGAM	1	49	12.74	12.84	12.84	12.70		
10	ZSFGAM	25	0	12.84	12.85	12.71	12.62		
10	ZSFGAM	25	12	12.82	12.84	12.76	12.71	14.4	0
10	ZSFGAM	25	25	12.84	12.87	12.79	12.61		
10	ZSFGAM	50	0	12.74	12.76	12.70	12.67		
Channel									
Frequency (MHz)									
5	QPSK	1	0	13.00	13.01	12.98	12.91		
5	QPSK	1	10	12.85	12.79	12.78	12.70	14.4	0
5	QPSK	1	24	12.80	12.78	12.90	12.77		
5	QPSK	12	0	12.80	12.87	12.86	12.60		
5	QPSK	12	7	12.75	12.89	12.91	12.54	14.4	0
5	QPSK	12	13	12.88	12.80	12.83	12.64		
5	QPSK	25	0	12.71	12.87	12.81	12.60		
5	HQAM	1	0	12.87	12.92	12.86	12.72	14.4	0
5	HQAM	1	12	12.72	12.89	12.87	12.60		
5	HQAM	1	24	12.86	12.92	12.86	12.61		
5	HQAM	12	0	12.85	12.95	12.84	12.70		
5	HQAM	12	7	12.74	12.76	12.84	12.60	14.4	0
5	HQAM	12	13	12.70	12.89	12.87	12.74		
5	HQAM	25	0	12.72	12.90	12.85	12.70		
5	HQAM	1	0	12.72	12.79	12.77	12.61	14.4	0
5	HQAM	1	12	12.81	12.86	12.82	12.53		
5	HQAM	1	24	12.83	12.82	12.92	12.60		
5	HQAM	12	0	12.78	12.87	12.80	12.60	14.4	0
5	HQAM	12	7	12.78	12.79	12.72	12.64		
5	HQAM	12	13	12.74	12.85	12.96	12.72		
5	ZSFGAM	25	0	12.75	12.86	12.72	12.73	14.4	0
5	ZSFGAM	1	0	12.84	12.74	12.80	12.67		
5	ZSFGAM	1	12	12.80	12.76	12.86	12.72		
5	ZSFGAM	1	24	12.74	12.86	12.94	12.71		
5	ZSFGAM	12	0	12.76	12.88	12.78	12.60	14.4	0
5	ZSFGAM	12	7	12.81	12.85	12.81	12.75		
5	ZSFGAM	12	13	12.70	12.79	12.79	12.60		
5	ZSFGAM	25	0	12.72	12.75	12.73	12.60		



Reduced Power Mode for DSS1

GSM900 band		Default		Limit		Limit	
TX Channel	Band Average Power (dBm)	Power	Power	Power	Power	Power	Power
Frequency (MHz)	814.2	814.4	814.8	814.2	814.4	814.8	814.4
GSM 1 Tx limit	32.04	32.75	32.88	33.50	33.64	33.76	33.76
GPRS 1 Tx limit	32.37	32.75	32.88	33.50	33.67	33.76	33.76
GPRS 2 Tx limit	32.00	32.15	32.05	32.80	32.99	32.99	32.99
GPRS 3 Tx limit	29.82	29.81	29.59	29.00	29.34	29.41	29.41
GPRS 4 Tx limit	27.05	27.18	27.15	27.80	28.00	28.18	28.18
EDGE 1 Tx limit	23.05	23.05	23.05	23.00	23.00	23.00	23.00
EDGE 2 Tx limit	23.05	23.12	23.09	23.40	23.40	23.13	23.13
EDGE 3 Tx limit	23.24	23.46	23.48	24.00	24.00	23.36	23.36
EDGE 4 Tx limit	21.82	21.74	21.87	21.00	21.00	21.74	21.74

GSM900 band		DSS1		Limit		Limit	
TX Channel	Band Average Power (dBm)	Power	Power	Power	Power	Power	Power
Frequency (MHz)	814.2	814.4	814.8	814.2	814.4	814.8	814.4
GSM 1 Tx limit	24.14	24.21	24.15	25.20	25.14	25.21	25.21
GPRS 1 Tx limit	23.65	24.10	24.01	25.20	25.09	25.17	25.17
GPRS 2 Tx limit	20.94	21.10	20.92	22.20	22.04	22.10	22.10
GPRS 3 Tx limit	18.17	18.10	18.04	20.20	19.81	19.86	19.86
GPRS 4 Tx limit	15.00	15.00	15.00	15.00	15.00	15.00	15.00
EDGE 1 Tx limit	23.75	23.81	23.79	25.20	24.75	24.81	24.81
EDGE 2 Tx limit	20.79	20.80	20.73	22.20	21.74	21.80	21.80
EDGE 3 Tx limit	19.25	19.25	19.13	20.40	19.79	19.84	19.84
EDGE 4 Tx limit	17.40	17.25	17.87	19.20	18.81	19.81	19.81

HSPA900 band		DSS1		DSS1		Default	
Band	WCDMA-E	WCDMA-E	WCDMA-E	WCDMA-E	WCDMA-E	WCDMA-E	WCDMA-E
TX Channel	810.2	810.0	810.0	810.2	810.0	810.0	810.0
TX Channel	862.0	862.0	862.0	862.0	862.0	862.0	862.0
Frequency (MHz)	142.40	142.30	142.30	142.40	142.40	142.40	142.40
SCPP Mod 0	14.00	14.00	13.97	14.80	14.79	14.79	14.79
SCPP Mod 0	14.07	14.00	14.00	14.80	14.79	14.79	14.79
SCPP Mod 1	13.00	13.10	12.98	13.80	14.11	14.00	14.00
SCPP Mod 1	13.03	13.10	12.93	13.80	14.18	14.24	14.24
SCPP Mod 1	12.90	12.92	12.84	13.30	13.53	13.76	13.76
SCPP Mod 1	12.21	12.10	12.00	13.80	14.26	14.22	14.22
SCPP Mod 1	12.42	12.30	12.56	13.30	13.40	13.46	13.46
SCPP Mod 1	12.32	12.40	12.46	13.30	13.42	13.50	13.50
SCPP Mod 1	12.30	12.40	12.49	13.30	13.44	13.58	13.58
SCPP Mod 1	13.10	13.10	13.01	13.80	14.10	14.21	14.21
SCPP Mod 1	13.10	13.10	13.00	13.80	14.10	14.21	14.21
SCPP Mod 1	12.13	12.08	11.87	12.80	13.19	13.22	13.22
SCPP Mod 1	13.06	13.00	13.15	13.80	14.10	14.20	14.20
SCPP Mod 1	13.06	13.04	12.88	13.80	13.80	14.20	14.20



MINISTRY OF NATIONAL DEFENSE

Band 2 Ant0 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up Time (min)	MFR (dB)	
Channel										
Frequency (MHz)	1	0	1890	1890	1900	1900	1900			
20	QPSK	1	0	13.76	13.76	13.76	13.76			
20	QPSK	1	49	13.80	13.80	13.80	13.80	14.7	0	
20	QPSK	1	99	13.85	13.76	13.81	13.81			
20	QPSK	1	149	13.87	13.87	13.87	13.87			
20	QPSK	50	24	13.80	13.72	13.80	13.80	14.7	0	
20	QPSK	50	50	13.82	13.82	13.82	13.82			
20	QPSK	50	75	13.84	13.84	13.84	13.84			
20	QPSK	50	100	13.85	13.85	13.85	13.85	14.7	0	
20	QPSK	50	125	13.87	13.87	13.87	13.87			
20	QPSK	50	150	13.89	13.89	13.89	13.89			
20	QPSK	50	175	13.91	13.91	13.91	13.91	14.7	0	
20	QPSK	100	0	13.89	13.89	13.89	13.89			
20	QPSK	100	25	13.92	13.92	13.92	13.92	14.7	0	
20	QPSK	100	50	13.93	13.93	13.93	13.93			
20	QPSK	100	75	13.94	13.94	13.94	13.94	14.7	0	
20	QPSK	100	100	13.95	13.95	13.95	13.95			
20	QPSK	100	125	13.96	13.96	13.96	13.96	14.7	0	
20	QPSK	100	150	13.97	13.97	13.97	13.97			
20	QPSK	100	175	13.98	13.98	13.98	13.98	14.7	0	
20	QPSK	100	200	13.99	13.99	13.99	13.99			
20	QPSK	100	225	14.00	14.00	14.00	14.00	14.7	0	
20	QPSK	100	250	14.01	14.01	14.01	14.01			
20	QPSK	100	275	14.02	14.02	14.02	14.02	14.7	0	
20	QPSK	100	300	14.03	14.03	14.03	14.03			
20	QPSK	100	325	14.04	14.04	14.04	14.04	14.7	0	
20	QPSK	100	350	14.05	14.05	14.05	14.05			
20	QPSK	100	375	14.06	14.06	14.06	14.06	14.7	0	
20	QPSK	100	400	14.07	14.07	14.07	14.07			
20	QPSK	100	425	14.08	14.08	14.08	14.08	14.7	0	
20	QPSK	100	450	14.09	14.09	14.09	14.09			
20	QPSK	100	475	14.10	14.10	14.10	14.10	14.7	0	
20	QPSK	100	500	14.11	14.11	14.11	14.11			
20	QPSK	100	525	14.12	14.12	14.12	14.12	14.7	0	
20	QPSK	100	550	14.13	14.13	14.13	14.13			
20	QPSK	100	575	14.14	14.14	14.14	14.14	14.7	0	
20	QPSK	100	600	14.15	14.15	14.15	14.15			
20	QPSK	100	625	14.16	14.16	14.16	14.16	14.7	0	
20	QPSK	100	650	14.17	14.17	14.17	14.17			
20	QPSK	100	675	14.18	14.18	14.18	14.18	14.7	0	
20	QPSK	100	700	14.19	14.19	14.19	14.19			
20	QPSK	100	725	14.20	14.20	14.20	14.20	14.7	0	
20	QPSK	100	750	14.21	14.21	14.21	14.21			
20	QPSK	100	775	14.22	14.22	14.22	14.22	14.7	0	
20	QPSK	100	800	14.23	14.23	14.23	14.23			
20	QPSK	100	825	14.24	14.24	14.24	14.24	14.7	0	
20	QPSK	100	850	14.25	14.25	14.25	14.25			
20	QPSK	100	875	14.26	14.26	14.26	14.26	14.7	0	
20	QPSK	100	900	14.27	14.27	14.27	14.27			
20	QPSK	100	925	14.28	14.28	14.28	14.28	14.7	0	
20	QPSK	100	950	14.29	14.29	14.29	14.29			
20	QPSK	100	975	14.30	14.30	14.30	14.30	14.7	0	
20	QPSK	100	1000	14.31	14.31	14.31	14.31			
20	QPSK	100	1025	14.32	14.32	14.32	14.32	14.7	0	
20	QPSK	100	1050	14.33	14.33	14.33	14.33			
20	QPSK	100	1075	14.34	14.34	14.34	14.34	14.7	0	
20	QPSK	100	1100	14.35	14.35	14.35	14.35			
20	QPSK	100	1125	14.36	14.36	14.36	14.36	14.7	0	
20	QPSK	100	1150	14.37	14.37	14.37	14.37			
20	QPSK	100	1175	14.38	14.38	14.38	14.38	14.7	0	
20	QPSK	100	1200	14.39	14.39	14.39	14.39			
20	QPSK	100	1225	14.40	14.40	14.40	14.40	14.7	0	
20	QPSK	100	1250	14.41	14.41	14.41	14.41			
20	QPSK	100	1275	14.42	14.42	14.42	14.42	14.7	0	
20	QPSK	100	1300	14.43	14.43	14.43	14.43			
20	QPSK	100	1325	14.44	14.44	14.44	14.44	14.7	0	
20	QPSK	100	1350	14.45	14.45	14.45	14.45			
20	QPSK	100	1375	14.46	14.46	14.46	14.46	14.7	0	
20	QPSK	100	1400	14.47	14.47	14.47	14.47			
20	QPSK	100	1425	14.48	14.48	14.48	14.48	14.7	0	
20	QPSK	100	1450	14.49	14.49	14.49	14.49			
20	QPSK	100	1475	14.50	14.50	14.50	14.50	14.7	0	
20	QPSK	100	1500	14.51	14.51	14.51	14.51			
20	QPSK	100	1525	14.52	14.52	14.52	14.52	14.7	0	
20	QPSK	100	1550	14.53	14.53	14.53	14.53			
20	QPSK	100	1575	14.54	14.54	14.54	14.54	14.7	0	
20	QPSK	100	1600	14.55	14.55	14.55	14.55			
20	QPSK	100	1625	14.56	14.56	14.56	14.56	14.7	0	
20	QPSK	100	1650	14.57	14.57	14.57	14.57			
20	QPSK	100	1675	14.58	14.58	14.58	14.58	14.7	0	
20	QPSK	100	1700	14.59	14.59	14.59	14.59			
20	QPSK	100	1725	14.60	14.60	14.60	14.60	14.7	0	
20	QPSK	100	1750	14.61	14.61	14.61	14.61			
20	QPSK	100	1775	14.62	14.62	14.62	14.62	14.7	0	
20	QPSK	100	1800	14.63	14.63	14.63	14.63			
20	QPSK	100	1825	14.64	14.64	14.64	14.64	14.7	0	
20	QPSK	100	1850	14.65	14.65	14.65	14.65			
20	QPSK	100	1875	14.66	14.66	14.66	14.66	14.7	0	
20	QPSK	100	1900	14.67	14.67	14.67	14.67			
20	QPSK	100	1925	14.68	14.68	14.68	14.68	14.7	0	
20	QPSK	100	1950	14.69	14.69	14.69	14.69			
20	QPSK	100	1975	14.70	14.70	14.70	14.70	14.7	0	
20	QPSK	100	2000	14.71	14.71	14.71	14.71			
20	QPSK	100	2025	14.72	14.72	14.72	14.72	14.7	0	
20	QPSK	100	2050	14.73	14.73	14.73	14.73			
20	QPSK	100	2075	14.74	14.74	14.74	14.74	14.7	0	
20	QPSK	100	2100	14.75	14.75	14.75	14.75			
20	QPSK	100	2125	14.76	14.76	14.76	14.76	14.7	0	
20	QPSK	100	2150	14.77	14.77	14.77	14.77			
20	QPSK	100	2175	14.78	14.78	14.78	14.78	14.7	0	
20	QPSK	100	2200	14.79	14.79	14.79	14.79			
20	QPSK	100	2225	14.80	14.80	14.80	14.80	14.7	0	
20	QPSK	100	2250	14.81	14.81	14.81	14.81			
20	QPSK	100	2275	14.82	14.82	14.82	14.82	14.7	0	
20	QPSK	100	2300	14.83	14.83	14.83	14.83			
20	QPSK	100	2325	14.84	14.84	14.84	14.84	14.7	0	
20	QPSK	100	2350	14.85	14.85	14.85	14.85			
20	QPSK	100	2375	14.86	14.86	14.86	14.86	14.7	0	
20	QPSK	100	2400	14.87	14.87	14.87	14.87			
20	QPSK	100	2425	14.88	14.88	14.88	14.88	14.7	0	
20	QPSK	100	2450	14.89	14.89	14.89	14.89			
20	QPSK	100	2475	14.90	14.90	14.90	14.90	14.7	0	
20	QPSK	100	2500	14.91	14.91	14.91	14.91			
20	QPSK	100	2525	14.92	14.92	14.92	14.92	14.7	0	
20	QPSK	100	2550	14.93	14.93	14.93	14.93			
20	QPSK	100	2575	14.94	14.94	14.94	14.94	14.7	0	
20	QPSK	100	2600	14.95	14.95	14.95	14.95			
20	QPSK	100	2625	14.96	14.96	14.96	14.96	14.7	0	
20	QPSK	100	2650	14.97	14.97	14.97	14.97			
20	QPSK	100	2675	14.98	14.98	14.98	14.98	14.7	0	
20	QPSK	100	2700	14.99	14.99	14.99	14.99			
20	QPSK	100	2725	15.00	15.00	15.00	15.00	14.7	0	
20	QPSK	100	2750	15.01	15.01	15.01	15.01			
20	QPSK	100	2775	15.02	15.02	15.02	15.02	14.7	0	
20	QPSK	100	2800	15.03	15.03	15.03	15.03			
20	QPSK	100	2825	15.04	15.04	15.04	15.04	14.7	0	
20	QPSK	100	2850	15.05	15.05	15.05	15.05			
20	QPSK	100	2875	15.06	15.06	15.06	15.06	14.7	0	
20	QPSK	100	2900	15.07	15.07	15.07	15.07			
20	QPSK	100	2925	15.08	15.08	15.08	15.08	14.7	0	
20	QPSK	100	2950	15.09	15.09	15.09	15.09			
20	QPSK	100	2975	15.10	15.10	15.10	15.10			



COMBOS Ant		Default							
TR Channel	TR Channel	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
OPM1 1 Tx Ant	33.88	33.84	33.81	33.80	33.86	33.84	33.81	33.80	33.80
OPM2 2 Tx Ant	35.15	35.20	35.17	35.10	35.16	35.20	35.17	35.10	35.10
OPM3 3 Tx Ant	36.42	36.34	36.34	36.30	36.36	36.40	36.36	36.30	36.30
EDGE 1 Tx Ant	25.82	25.93	25.86	27.00	26.82	26.93	26.86	26.80	26.80
EDGE 2 Tx Ant	29.08	29.13	29.09	29.00	29.08	29.13	29.09	29.00	29.00
EDGE 3 Tx Ant	23.24	23.41	23.27	24.50	23.08	23.15	23.01	23.24	23.24
EDGE 4 Tx Ant	21.08	21.01	21.00	21.00	21.05	21.01	21.00	21.00	21.00

COMBOS Ant		EDGE							
TR Channel	TR Channel	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
OPM1 1 Tx Ant	26.80	26.92	26.92	27.00	27.06	27.02	27.02	27.02	27.02
OPM2 2 Tx Ant	28.85	28.89	28.77	27.00	27.85	27.68	27.77	27.77	27.70
OPM3 3 Tx Ant	23.28	23.86	23.24	24.00	23.00	23.00	23.00	23.00	23.00
OPM4 4 Tx Ant	21.03	21.92	21.92	22.80	17.00	17.00	17.00	17.00	17.00
EDGE 1 Tx Ant	24.00	24.20	24.00	25.00	15.00	15.00	15.00	15.00	15.00
EDGE 2 Tx Ant	21.08	21.21	21.00	24.00	17.00	17.21	17.00	18.00	18.00
EDGE 3 Tx Ant	21.08	21.08	21.00	22.00	17.00	17.00	17.00	18.00	18.00
EDGE 4 Tx Ant	20.08	20.15	20.01	21.00	17.08	17.15	17.01	18.00	18.00

WCDMA II Ant		WCDMA IV Ant				WCDMA V Ant					
TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel		
Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)		
OPM1 1 Tx Ant	15.83	15.87	15.85	15.70	15.20	15.30	15.11	17.20	22.60	22.60	22.60
OPM2 2 Tx Ant	14.85	14.99	14.74	15.00	15.44	15.70	15.45	16.20	21.00	22.00	21.77
OPM3 3 Tx Ant	14.03	14.77	14.77	15.00	15.20	15.40	15.38	16.20	21.00	21.70	22.00
OPM4 4 Tx Ant	14.22	14.34	14.25	15.00	14.83	14.60	14.84	15.00	21.21	21.20	21.10
OPM5 5 Tx Ant	14.00	14.34	14.22	15.00	14.60	14.60	14.60	15.00	21.20	21.20	21.10
OPM6 6 Tx Ant	14.00	14.88	14.68	15.00	15.41	15.41	15.37	16.20	21.00	21.86	21.70
OPM7 7 Tx Ant	14.00	14.32	14.30	15.00	14.40	14.40	14.40	14.70	21.10	21.10	21.00
OPM8 8 Tx Ant	14.17	14.32	14.10	15.00	14.62	14.60	14.76	15.00	21.10	21.10	21.00
OPM9 9 Tx Ant	14.32	14.31	14.27	15.00	14.90	15.00	15.00	15.70	21.10	21.20	21.00
OPM10 10 Tx Ant	14.00	14.68	14.60	15.00	15.00	15.10	15.20	21.00	21.00	21.00	21.00
OPM11 11 Tx Ant	12.80	12.82	12.89	13.00	13.41	13.40	13.30	14.20	19.00	19.80	19.70
OPM12 12 Tx Ant	13.00	13.81	13.74	14.00	14.30	14.40	14.34	15.00	20.00	20.00	20.00
OPM13 13 Tx Ant	12.87	12.71	12.83	13.00	13.20	13.30	13.30	14.20	19.80	19.80	19.70
OPM14 14 Tx Ant	14.04	14.75	14.56	15.00	15.10	15.10	15.00	16.20	21.04	21.70	21.60



Reduced Power Mode for DS16

CDMA2000 1X			Default		
TX Channel	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)
TX Channel	-150	-150	-150	-150	-150
Frequency (MHz)	824.2	824.2	824.2	824.2	824.2
CDMA 1 Tx Limit	32.60	32.76	32.68	33.50	33.76
OPNS 1 Tx Limit	30.51	30.74	30.69	31.50	31.73
OPNS 2 Tx Limit	30.00	30.15	30.05	31.00	31.15
OPNS 3 Tx Limit	28.00	28.07	28.00	29.00	29.07
EDGE 1 Tx Limit	27.00	27.14	27.04	28.00	28.14
EDGE 2 Tx Limit	25.00	25.00	25.00	26.00	26.00
EDGE 3 Tx Limit	23.34	23.42	23.33	24.00	24.08
EDGE 4 Tx Limit	21.00	21.14	21.07	21.00	21.14

CDMA2000 1X			Default		
TX Channel	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)
TX Channel	512	512	512	512	512
Frequency (MHz)	1696.2	1696.2	1696.2	1696.2	1696.2
CDMA 1 Tx Limit	28.00	28.15	28.12	30.00	30.15
OPNS 1 Tx Limit	26.00	26.15	26.08	28.00	28.15
OPNS 2 Tx Limit	25.27	25.35	25.28	26.00	26.07
OPNS 3 Tx Limit	23.71	23.84	23.75	24.00	24.13
EDGE 1 Tx Limit	24.00	24.04	24.00	25.00	25.04
EDGE 2 Tx Limit	22.33	22.38	22.33	23.00	23.04
EDGE 3 Tx Limit	22.33	22.51	22.38	23.00	23.18
EDGE 4 Tx Limit	20.00	20.04	20.00	21.00	21.04

WCDMA II Ass			DSSS			WCDMA IV Ass			Default		
TX Channel	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)	Power Spectral Density (dBm)
TX Channel	5042	5050	5058	18312	18318	18324	4182	4182	4200	18312	18318
Frequency (MHz)	1852.50	1855.00	1857.50	1872.00	1872.00	1872.00	1852.50	1852.50	1852.50	1872.00	1872.00
SCPP Pwr 0	18.24	18.15	18.20	21.00	21.00	21.00	18.24	18.15	18.20	21.00	21.00
SCPP Pwr 1	18.04	18.11	18.08	21.00	21.00	21.00	18.04	18.11	18.08	21.00	21.00
SCPP Pwr 2	18.40	18.05	18.40	21.00	21.00	21.00	18.40	18.05	18.40	21.00	21.00
SCPP Pwr 3	18.40	18.11	18.05	21.00	21.00	21.00	18.40	18.11	18.05	21.00	21.00
SCPP Pwr 4	18.01	18.12	18.08	21.00	21.00	21.00	18.01	18.12	18.08	21.00	21.00
SCPP Pwr 5	18.01	18.08	18.14	21.00	21.00	21.00	18.01	18.08	18.14	21.00	21.00
SCPP Pwr 6	18.33	18.45	18.40	21.00	21.00	21.00	18.33	18.45	18.40	21.00	21.00
SCPP Pwr 7	18.40	18.04	18.00	21.00	21.00	21.00	18.40	18.04	18.00	21.00	21.00
SCPP Pwr 8	18.13	18.12	18.07	21.00	21.00	21.00	18.13	18.12	18.07	21.00	21.00
SCPP Pwr 9	18.14	18.16	18.11	19.00	17.00	17.16	18.00	18.00	18.00	18.00	18.00
SCPP Pwr 10	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
SCPP Pwr 11	17.85	18.04	18.14	19.00	17.00	17.29	17.85	18.00	18.00	18.00	18.00
SCPP Pwr 12	18.00	18.00	18.04	21.00	18.00	18.10	18.00	18.14	18.17	18.00	18.00



Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Peak Ch. Freq., Power, Peak Ch. Freq., Turn-up (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Peak Ch. Freq., Power, Peak Ch. Freq., Turn-up (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Peak Ch. Freq., Power, Peak Ch. Freq., Turn-up (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).



DVB-S2 AXI				Default			
TS Channel	128	160	251	Turn-up Limit	128	160	251
Frequency (MHz)	33.23	33.64	34.04	(dBm)	33.02	33.42	33.82
QPSK 1 Tx Rate	33.08	33.84	33.91	33.00	33.86	33.94	33.91
QPSK 2 Tx Rate	33.24	33.62	33.73	33.00	33.86	33.92	33.77
QPSK 3 Tx Rate	33.31	33.39	33.17	31.00	33.16	34.20	34.17
QPSK 4 Tx Rate	33.00	33.14	33.84	29.00	34.36	34.46	34.36
EDGE 1 Tx Rate	29.00	29.76	29.89	29.00	29.89	29.76	29.89
EDGE 2 Tx Rate	29.02	29.93	29.86	27.00	30.02	30.03	30.00
EDGE 3 Tx Rate	29.04	29.13	29.09	24.00	30.00	30.10	30.00
EDGE 4 Tx Rate	23.24	23.41	23.27	24.00	30.00	30.10	30.01
EDGE 5 Tx Rate	21.04	21.81	21.70	23.00	30.00	30.10	30.00

DVB-S2 AXI				Default			
TS Channel	512	661	810	Turn-up Limit	512	661	810
Frequency (MHz)	100.02	100.06	100.04	(dBm)	100.02	100.06	100.04
QPSK 1 Tx Rate	29.21	29.29	29.24	30.00	29.21	29.29	29.24
QPSK 2 Tx Rate	29.12	29.23	29.15	30.00	29.12	29.23	29.15
QPSK 3 Tx Rate	26.11	26.17	26.09	27.00	26.11	26.17	26.06
QPSK 4 Tx Rate	24.42	24.34	24.41	25.00	24.16	24.28	24.15
QPSK 5 Tx Rate	24.00	24.20	24.70	25.00	23.02	23.20	23.10
EDGE 2 Tx Rate	21.00	21.21	21.00	24.00	17.00	17.21	17.00
EDGE 3 Tx Rate	21.00	21.06	21.00	21.00	17.00	17.06	17.00
EDGE 4 Tx Rate	20.00	20.15	20.01	21.00	17.00	17.15	17.01

WCDMA II AXI				WCDMA IV AXI				WCDMA V AXI			
TS Channel	5024	5030	5036	Turn-up Limit	5012	5018	5024	Turn-up Limit	4134	4230	4326
Frequency (MHz)	1950.4	1950.0	1949.6	(dBm)	1912.4	1912.0	1911.6	(dBm)	4307.4	4307.0	4306.6
SCPP Rate (M)	19.05	19.06	19.02	21.00	19.03	19.03	19.03	20.00	22.00	22.72	22.80
SCPP Rate 0	18.70	18.73	18.69	21.00	18.77	18.76	18.74	20.00	22.73	22.76	22.66
SCPP Rate 1	18.76	18.86	18.69	20.00	18.75	18.69	18.81	19.00	21.53	22.53	21.77
SCPP Rate 2	18.27	18.25	18.25	19.00	18.36	18.11	18.23	19.30	21.31	21.26	21.19
SCPP Rate 3	18.04	18.30	18.28	19.00	18.08	18.37	18.19	19.30	21.20	21.20	21.34
SCPP Rate 4	18.04	18.08	18.02	20.00	18.06	18.06	18.13	19.00	21.00	21.06	21.00
SCPP Rate 5	18.74	18.51	18.73	20.00	18.07	18.58	18.64	19.00	21.71	21.59	21.80
SCPP Rate 6	18.02	18.26	17.99	19.00	18.10	18.10	17.99	19.30	21.19	21.31	21.06
SCPP Rate 7	18.00	18.23	17.99	19.00	18.07	18.20	17.99	19.30	21.10	21.20	21.06
SCPP Rate 8	18.00	18.00	18.00	20.00	18.04	18.00	18.03	19.00	21.00	21.00	21.00
SCPP Rate 9	18.00	18.71	18.78	18.00	18.91	18.73	18.71	17.80	18.21	18.85	18.73
SCPP Rate 10	17.70	17.80	17.81	19.00	17.75	17.68	17.68	18.00	20.00	20.70	20.00
SCPP Rate 11	18.00	18.74	18.00	20.00	18.03	18.03	18.04	17.80	18.00	18.03	18.03
SCPP Rate 12	18.00	18.74	18.81	20.00	18.08	18.63	18.63	18.80	21.04	21.73	21.86



Band 48_FCC Ant2 DSI6

EV (MTC)	Modulation	RB Size	RB Offset	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Tune-up limit (MHz)	MTC (dB)
Channel 56540									
Frequency (MHz)									
20	QPSK	1	0	19.10	19.16	19.13	19.18	20.3	0
20	QPSK	1	49	18.90	19.04	19.04	19.03		
20	QPSK	1	49	18.95	19.00	19.02	19.03		
20	QPSK	50	0	18.80	19.00	19.01	19.06		
20	QPSK	50	34	18.80	18.90	18.95	18.91		
20	QPSK	50	50	18.50	18.98	19.00	18.75		
20	QPSK	100	0	18.80	19.03	19.06	18.85		
20	HQAM	1	0	18.77	18.88	18.92	18.84	20.3	0
20	HQAM	1	49	18.84	18.96	18.99	19.07		
20	HQAM	1	99	18.75	18.98	19.02	18.94		
20	HQAM	50	0	18.85	18.98	18.97	18.93		
20	HQAM	50	34	18.70	19.08	19.09	18.95		
20	HQAM	50	50	18.62	19.06	19.00	18.96		
20	HQAM	100	0	18.87	18.88	18.78	18.79		
20	HQAM	1	0	18.87	18.85	18.82	18.90	20.3	0
20	HQAM	1	49	18.80	18.94	18.94	18.91		
20	HQAM	1	99	18.64	18.01	18.09	18.95		
20	HQAM	50	0	18.77	18.76	18.64	18.75		
20	HQAM	50	34	18.74	18.74	18.72	18.81		
20	HQAM	50	50	18.83	18.80	18.89	18.78		
20	HQAM	100	0	18.83	18.93	18.85	18.90		
20	SSBQAM	1	0	18.18	18.41	18.22	18.37	19	1.3
20	SSBQAM	1	49	18.15	18.19	18.25	18.22		
20	SSBQAM	1	99	18.10	18.38	18.19	18.29		
20	SSBQAM	50	0	17.67	18.13	18.02	18.05		
20	SSBQAM	50	34	17.50	18.00	18.00	17.99		
20	SSBQAM	50	50	18.10	18.28	18.14	18.12		
20	SSBQAM	100	0	17.67	18.30	17.62	18.01		
Channel 56574									
Frequency (MHz)									
15	QPSK	1	0	19.00	19.10	19.02	18.83	20.3	0
15	QPSK	1	47	18.83	19.00	18.95	18.93		
15	QPSK	1	74	18.84	19.04	19.06	18.99		
15	QPSK	36	0	18.81	19.00	18.99	18.96		
15	QPSK	36	30	18.70	18.83	18.81	18.82		
15	QPSK	36	50	18.80	18.80	18.87	18.66		
15	QPSK	36	50	18.77	18.89	18.87	18.74		
15	HQAM	1	0	18.74	18.76	18.79	18.81	20.3	0
15	HQAM	1	37	18.70	18.70	18.70	18.70		
15	HQAM	1	74	18.62	18.87	18.88	18.92		
15	HQAM	36	0	18.70	18.81	18.84	18.89		
15	HQAM	36	30	18.67	18.97	19.00	18.92		
15	HQAM	36	50	18.80	18.98	18.97	18.78		
15	HQAM	75	0	18.81	18.81	18.79	18.89		
15	HQAM	1	0	18.74	18.74	18.70	18.82	20.3	0
15	HQAM	1	37	18.84	18.85	18.51	18.77		
15	HQAM	1	74	18.80	18.90	18.84	18.98		
15	HQAM	36	0	18.62	18.83	18.84	18.71		
15	HQAM	36	30	18.63	18.94	18.60	18.69		
15	HQAM	36	50	18.70	18.92	18.82	18.62		
15	HQAM	75	0	18.69	18.88	18.83	18.74		
15	SSBQAM	1	0	18.11	18.11	18.11	18.22	19	1.3
15	SSBQAM	1	37	18.00	18.00	18.15	18.00		
15	SSBQAM	1	74	18.15	18.25	18.02	18.19		
15	SSBQAM	36	0	17.85	18.96	17.84	17.88		
15	SSBQAM	36	30	17.88	17.92	17.69	17.86		
15	SSBQAM	36	50	18.05	18.16	18.02	18.08		
15	SSBQAM	75	0	17.91	17.92	17.88	17.94		
Channel 56590									
Frequency (MHz)									
10	QPSK	1	0	19.00	19.00	18.99	18.85	20.3	0
10	QPSK	1	25	18.83	18.82	18.80	18.87		
10	QPSK	1	47	18.85	18.97	19.03	18.99		
10	QPSK	25	0	18.70	18.98	18.94	18.87		
10	QPSK	25	12	18.61	18.86	18.80	18.91		
10	QPSK	25	25	18.80	18.80	18.82	18.77		
10	QPSK	50	0	18.78	18.87	18.85	18.78		
10	HQAM	1	0	18.68	18.80	18.85	18.71	20.3	0
10	HQAM	1	26	18.72	18.88	18.80	19.01		
10	HQAM	1	49	18.68	18.87	18.92	18.88		
10	HQAM	25	0	18.70	18.74	18.73	18.90		
10	HQAM	25	12	18.60	18.02	19.00	18.90		
10	HQAM	25	26	18.80	18.01	18.96	18.84		
10	HQAM	50	0	18.75	18.84	18.72	18.84		
10	HQAM	1	0	18.80	18.78	18.76	18.80	20.3	0
10	HQAM	1	26	18.71	18.87	18.88	18.79		
10	HQAM	1	49	18.84	18.88	18.60	18.87		
10	HQAM	25	0	18.72	18.86	18.84	18.81		
10	HQAM	25	12	18.67	18.86	18.62	18.87		
10	HQAM	25	26	18.60	18.87	18.84	18.86		
10	HQAM	50	0	18.70	18.86	18.77	18.74		
10	SSBQAM	1	0	18.00	18.36	18.09	18.32	19	1.3
10	SSBQAM	1	26	18.03	18.16	18.16	18.18		
10	SSBQAM	1	49	18.04	18.93	18.00	18.18		
10	SSBQAM	25	0	17.81	18.84	17.87	17.97		
10	SSBQAM	25	12	17.80	17.99	17.82	17.88		
10	SSBQAM	25	26	17.90	18.23	18.20	18.02		
10	SSBQAM	50	0	17.92	18.05	17.86	17.88		
Channel 56578									
Frequency (MHz)									
5	QPSK	1	0	19.00	19.08	19.00	18.86	20.3	0
5	QPSK	1	12	18.81	19.00	18.85	18.78		
5	QPSK	1	24	18.82	19.00	19.01	18.96		
5	QPSK	12	0	18.70	18.88	18.86	18.88		
5	QPSK	12	7	18.74	18.80	18.81	18.79		
5	QPSK	12	13	18.88	18.89	18.84	18.89		
5	QPSK	25	0	18.71	18.94	18.80	18.75		
5	HQAM	1	0	18.69	18.77	18.79	18.75	20.3	0
5	HQAM	1	12	18.75	18.87	18.80	18.95		
5	HQAM	1	24	18.70	19.00	18.88	18.88		
5	HQAM	12	0	18.70	18.73	18.64	18.87		
5	HQAM	12	7	18.69	18.00	19.00	18.87		
5	HQAM	12	13	18.90	18.90	18.97	18.77		
5	HQAM	25	0	18.70	18.83	18.72	18.88		
5	HQAM	1	0	18.72	18.73	18.73	18.87	20.3	0
5	HQAM	1	12	18.70	18.83	18.81	18.83		
5	HQAM	1	24	18.60	18.88	18.93	18.82		
5	HQAM	12	0	18.62	18.88	18.83	18.84		
5	HQAM	12	7	18.64	18.84	18.82	18.79		
5	HQAM	12	13	18.71	18.70	18.81	18.64		
5	HQAM	25	0	18.70	18.84	18.74	18.78		
5	SSBQAM	1	0	18.11	18.28	18.12	18.31	19	1.3
5	SSBQAM	1	12	18.11	18.00	18.19	18.18		
5	SSBQAM	1	24	18.07	18.34	18.09	18.19		
5	SSBQAM	12	0	17.86	18.00	17.80	17.86		
5	SSBQAM	12	7	17.88	17.92	17.81	17.80		
5	SSBQAM	12	13	17.88	18.23	18.00	17.99		
5	SSBQAM	25	0	17.88	18.00	17.85	17.86		



Uplink CA Power

Ant0 Full Power&DSI2									
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	21.40	23.00	
21100	21298	QPSK	1	99	1	0	21.51	23.00	
21350	21152	QPSK	1	0	1	99	21.46	23.00	

Ant1 Full Power									
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	21.03	23.00	
21100	21298	QPSK	1	99	1	0	21.11	23.00	
21350	21152	QPSK	1	0	1	99	21.07	23.00	

Ant0 Full Power&DSI2									
CA_66C									
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			
132072	132270	QPSK	1	99	1	0	22.01	23.00	
132322	132520	QPSK	1	99	1	0	22.08	23.00	
132572	132374	QPSK	1	0	1	99	22.06	23.00	

Ant1 Full Power									
CA_66C									
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			
132072	132270	QPSK	1	99	1	0	21.27	23.00	
132322	132520	QPSK	1	99	1	0	21.31	23.00	
132572	132374	QPSK	1	0	1	99	21.26	23.00	

Ant0 Full Power&DSI2									
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	23.12	24.00	
40185	40383	QPSK	1	99	1	0	23.2	24.00	
40620	40818	QPSK	1	99	1	0	23.23	24.00	
41055	41253	QPSK	1	99	1	0	23.16	24.00	
41490	41292	QPSK	1	0	1	99	23.09	24.00	

Ant1 Full Power									
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	22.13	23.00	
40185	40383	QPSK	1	99	1	0	22.03	23.00	
40620	40818	QPSK	1	99	1	0	22.16	23.00	
41055	41253	QPSK	1	99	1	0	22	23.00	
41490	41292	QPSK	1	0	1	99	21.97	23.00	

Ant0 Full power									
CA_5B									
Combination 10MHz+10MHz (50RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
20450	20549	QPSK	1	49	1	0	22.66	24.00	
20476	20575	QPSK	1	49	1	0	22.81	24.00	
20600	20501	QPSK	1	0	1	49	22.61	24.00	

Ant1 Full power									
CA_5B									
Combination 10MHz+10MHz (50RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
20450	20549	QPSK	1	49	1	0	22.24	24.00	
20476	20575	QPSK	1	49	1	0	22.35	24.00	
20600	20501	QPSK	1	0	1	49	22.30	24.00	

Ant0 Full power									
CA_66B									
Combination 15MHz+5MHz (75RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	22.86	24.00	
132322	132415	QPSK	1	74	1	0	22.91	24.00	
132597	132504	QPSK	1	0	1	24	22.80	24.00	

Ant1 Full power									
CA_66B									
Combination 15MHz+5MHz (75RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	21.21	23.00	
132322	132415	QPSK	1	74	1	0	21.26	23.00	
132597	132504	QPSK	1	0	1	24	21.18	23.00	

Ant2 Full power									
CA_48C									
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			
55340	55538	QPSK	1	99	1	0	19.89	21.00	
55830	56028	QPSK	1	99	1	0	20.20	21.00	
56442	56640	QPSK	1	99	1	0	19.81	21.00	



Uplink CA Down Power

Ant0 DS13										
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	17.44	18.80		
21100	21298	QPSK	1	99	1	0	17.56	18.80		
21350	21152	QPSK	1	0	1	99	17.49	18.80		

Ant0 DS16										
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	19.32	21.40		
21100	21298	QPSK	1	99	1	0	19.48	21.40		
21350	21152	QPSK	1	0	1	99	19.46	21.40		

Ant0 DS13										
CA_66C										
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				
132072	132270	QPSK	1	99	1	0	14.65	16.10		
132322	132520	QPSK	1	99	1	0	14.72	16.10		
132572	132374	QPSK	1	0	1	99	14.70	16.10		

Ant0 DS16										
CA_66C										
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				
132072	132270	QPSK	1	99	1	0	20.59	21.50		
132322	132520	QPSK	1	99	1	0	20.67	21.50		
132572	132374	QPSK	1	0	1	99	20.51	21.50		

Ant0 DS13										
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	19.69	20.60		
40185	40383	QPSK	1	99	1	0	19.77	20.60		
40620	40818	QPSK	1	99	1	0	19.87	20.60		
41055	41253	QPSK	1	99	1	0	19.82	20.60		
41490	41292	QPSK	1	0	1	99	19.74	20.60		

Ant0 DS16										
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	22.24	23.20		
40185	40383	QPSK	1	99	1	0	22.16	23.20		
40620	40818	QPSK	1	99	1	0	22.27	23.20		
41055	41253	QPSK	1	99	1	0	22.19	23.20		
41490	41292	QPSK	1	0	1	99	22.11	23.20		

Ant1 DS12										
CA_5B										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	20.82	21.80		
20476	20575	QPSK	1	49	1	0	20.85	21.80		
20600	20501	QPSK	1	0	1	49	20.78	21.80		

Ant0 DS13										
CA_5B										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	22.66	23.50		
20476	20575	QPSK	1	49	1	0	22.81	23.50		
20600	20501	QPSK	1	0	1	49	22.61	23.50		

Ant0 DS13										
CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	14.70	16.00		
132322	132415	QPSK	1	74	1	0	14.75	16.00		
132597	132504	QPSK	1	0	1	74	14.68	16.00		

Ant0 DS16										
CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	20.64	22.00		
132322	132415	QPSK	1	74	1	0	20.76	22.00		
132597	132504	QPSK	1	0	1	74	20.70	22.00		

Ant2 DS12										
CA_48C										
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				
55340	55538	QPSK	1	99	1	0	12.98	14.40		
55830	56028	QPSK	1	99	1	0	13.05	14.40		
56442	56640	QPSK	1	99	1	0	12.92	14.40		

Ant2 DS13										
CA_48C										
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				
55340	55538	QPSK	1	99	1	0	13.65	14.80		
55830	56028	QPSK	1	99	1	0	13.78	14.80		
56442	56640	QPSK	1	99	1	0	13.68	14.80		



Ant1 DS12		CA_7C							
		Combination 20MHz+20MHz (100RB+100RB)						Measured Power (dBm)	Tune up Power (dBm)
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	14.32	16.10	
21100	21298	QPSK	1	99	1	0	14.37	16.10	
21350	21152	QPSK	1	0	1	99	14.30	16.10	

Ant1 DS13		CA_7C							
		Combination 20MHz+20MHz (100RB+100RB)						Measured Power (dBm)	Tune up Power (dBm)
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	14.66	15.90	
21100	21298	QPSK	1	99	1	0	14.72	15.90	
21350	21152	QPSK	1	0	1	99	14.63	15.90	

Ant1 DS12		CA_66C							
		Combination 20MHz+20MHz (100RB+100RB)						Measured Power (dBm)	Tune up Power (dBm)
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	15.05	16.40	
132322	132520	QPSK	1	99	1	0	15.24	16.40	
132572	132374	QPSK	1	0	1	99	15.18	16.40	

Ant1 DS13		CA_66C							
		Combination 20MHz+20MHz (100RB+100RB)						Measured Power (dBm)	Tune up Power (dBm)
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	15.94	17.10	
132322	132520	QPSK	1	99	1	0	16.08	17.10	
132572	132374	QPSK	1	0	1	99	16.03	17.10	

Ant1 DS12		CA_41C							
		Combination 20MHz+20MHz (100RB+100RB)						Measured Power (dBm)	Tune up Power (dBm)
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	17.27	18.30	
40185	40383	QPSK	1	99	1	0	17.3	18.30	
40620	40818	QPSK	1	99	1	0	17.35	18.30	
41055	41253	QPSK	1	99	1	0	17.22	18.30	
41490	41292	QPSK	1	0	1	99	17.18	18.30	

Ant1 DS13		CA_41C							
		Combination 20MHz+20MHz (100RB+100RB)						Measured Power (dBm)	Tune up Power (dBm)
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	18.10	19.30	
40185	40383	QPSK	1	99	1	0	18.14	19.30	
40620	40818	QPSK	1	99	1	0	18.21	19.30	
41055	41253	QPSK	1	99	1	0	18.18	19.30	
41490	41292	QPSK	1	0	1	99	18.06	19.30	

Ant1 DS13		CA_5B							
		Combination 10MHz+10MHz (50RB+50RB)						Measured Power (dBm)	Tune up Power (dBm)
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
20450	20549	QPSK	1	49	1	0	22.24	23.40	
20476	20575	QPSK	1	49	1	0	22.35	23.40	
20600	20501	QPSK	1	0	1	49	22.30	23.40	

Ant1 DS12		CA_66B							
		Combination 15MHz+5MHz (75RB+25RB)						Measured Power (dBm)	Tune up Power (dBm)
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	15.28	16.50	
132322	132415	QPSK	1	74	1	0	15.35	16.50	
132597	132504	QPSK	1	0	1	74	15.23	16.50	

Ant1 DS13		CA_66B							
		Combination 15MHz+5MHz (75RB+25RB)						Measured Power (dBm)	Tune up Power (dBm)
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	16.05	17.00	
132322	132415	QPSK	1	74	1	0	16.10	17.00	
132597	132504	QPSK	1	0	1	74	15.98	17.00	

Ant2 DS16		CA_48C							
		Combination 20MHz+20MHz (100RB+100RB)						Measured Power (dBm)	Tune up Power (dBm)
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
55340	55538	QPSK	1	99	1	0	18.88	20.30	
55830	56028	QPSK	1	99	1	0	19.01	20.30	
56442	56640	QPSK	1	99	1	0	18.92	20.30	



Ant1 DS16									
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	19.36	20.70	
21100	21298	QPSK	1	99	1	0	19.48	20.70	
21350	21152	QPSK	1	0	1	99	19.42	20.70	

Ant1 DS16									
CA_66C									
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			
132072	132270	QPSK	1	99	1	0	19.39	20.20	
132322	132520	QPSK	1	99	1	0	19.43	20.20	
132572	132374	QPSK	1	0	1	99	19.30	20.20	

Ant1 DS16									
CA_66B									
Combination 15MHz+5MHz (75RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	19.27	21.00	
132322	132415	QPSK	1	74	1	0	19.41	21.00	
132597	132504	QPSK	1	0	1	74	19.34	21.00	



2CA DL

CA List	PCC									SCC				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Configuratio n	Band	(MHz)	Freq. (MHz)	Channel	Configuratio n	Tx. Power (dBm)	Tx. Power (dBm)
CA_4A-48A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.75	22.81
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.29	21.42
CA_7B	Band 7	Ant0	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	22.68	22.77
	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	21.16	21.29
CA_7A-7A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2688	3425	4x4MIMO	22.67	22.77
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2688	3425	4x4MIMO	21.13	21.29
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.76	22.87
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.32	22.43
CA_41A-41A	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	23.30	23.35
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	22.24	22.39



CA_5A-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.74	22.84
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.84	22.94
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.40	22.48
CA_7A-66A-66A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		21.33	21.39
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.67	22.77
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100		22.79	22.94
CA_14A-66A-66A	Band 66	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	21.18	21.29
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100		21.30	21.39
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.92	23.07
CA_26A-41C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		22.85	22.94
	Band 14	Ant1	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.47	22.64
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		21.32	21.39
CA_41D	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.77	22.87
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.30	22.43
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	23.23	23.35
CA_41A-41C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	22.33	22.39
	Band 41	Ant0	20M	2875.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	23.29	23.35
	Band 41	Ant1	20M	2875.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.30	22.39
CA_66B-48A	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66979	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.88	22.94
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.23	21.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.78	22.94
CA_66A-66A-48A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.28	21.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.88	22.94
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.23	21.39
CA_66A-66B	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.78	22.94
	Band 66	Ant1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	21.26	21.39
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.87	22.94
CA_66A-66C	Band 66	Ant1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	21.31	21.39
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2190	67236	4x4MIMO	22.84	22.94
	Band 66	Ant1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2190	67236	4x4MIMO	21.31	21.39
CA_66C-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.77	22.94
	Band 71	Ant0	20M	683	68786	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.79	22.85
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	21.34	21.39
CA_66A-66A-71A	Band 71	Ant1	20M	683	68786	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.29	22.43
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.81	22.94
	Band 71	Ant0	20M	683	68786	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.72	22.85
CA_66A-66A-71A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	21.23	21.39
	Band 71	Ant1	20M	683	68786	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.29	22.43



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Configure	PCC										SCC1				SCC2				SCC3				SCC4		Power					
	LTE	BW	BW	UL	UL		ULF	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without 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	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)				
CA_2A-2A-5A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.54	22.66				
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.73	22.84				
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 66	5M	2154.3	66879	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	22.81	22.94				
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	21.14	21.25				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.33	22.45				
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	Band 66	5M	2154.3	66879	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	21.31	21.39				
CA_2A-2A-5A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.51	22.66				
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.68	22.84				
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2164.8	66984	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	22.85	22.94				
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	21.16	21.25				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.42	22.48				
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2164.8	66984	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	21.24	21.39				
CA_2A_5B_66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.59	22.66				
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 2	20M	1960	900	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.77	22.84				
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 66	5M	2154.3	66879	Band 2	20M	1960	900	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	22.83	22.94				
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	21.15	21.25				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 2	20M	1960	900	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.31	22.45				
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	Band 66	5M	2154.3	66879	Band 2	20M	1960	900	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	21.29	21.39				
CA_2A_5B_66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.6	22.66				
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 2	20M	1960	900	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.72	22.84				
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2164.8	66984	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 2	20M	1960	900	22.79	22.94				
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	21.16	21.25				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 2	20M	1960	900	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.32	22.45				
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2164.8	66984	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 2	20M	1960	900	21.27	21.39				
CA_5A-7C-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	Band 66	10M	2115	66486	Band 66	20M	1770	67036	Band 66	20M	1770	67036	22.69	22.84
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 7	20M	2554.8	3298	Band 66	10M	2115	66486	Band 66	20M	1770	67036	Band 5	10M	881.5	2525	22.64	22.77				
	Band 66	Ant0	10M	1715	132022	QPSK	1	0	Band 66	20M	1770	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	22.84	22.94				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	Band 66	10M	2115	66486	Band 66	20M	1770	67036	22.38	22.45				
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 7	20M	2554.8	3298	Band 66	10M	2115	66486	Band 66	20M	1770	67036	Band 5	10M	881.5	2525	21.14	21.29				
	Band 66	Ant1	10M	1715	132022	QPSK	1	0	Band 66	20M	1770	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	21.32	21.39				



n2 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								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.96	23.00	22.89		
20	PI2 BPSK	1	53	22.92	22.98	22.82	24.0	0.0
20	PI2 BPSK	1	104	22.83	22.95	22.84		
20	PI2 BPSK	50	0	22.22	22.34	22.28	23.5	0.5
20	PI2 BPSK	50	28	22.80	22.90	22.75	24.0	0.0
20	PI2 BPSK	50	56	22.14	22.27	22.21	23.5	0.5
20	PI2 BPSK	100	0	22.24	22.34	22.28		
20	QPSK	1	1	22.96	23.03	22.92		
20	QPSK	1	53	22.87	22.98	22.83	24.0	0.0
20	QPSK	1	104	22.88	22.92	22.88		
20	QPSK	50	0	21.85	21.92	21.79	23.0	1.0
20	QPSK	50	28	22.93	22.97	22.92	24.0	0.0
20	QPSK	50	56	21.82	21.88	21.71	23.0	1.0
20	QPSK	100	0	21.86	21.89	21.82		
20	16QAM	1	1	21.72	21.78	21.74	23.0	1.0
20	64QAM	1	1	20.38	20.43	20.40	21.5	2.5
20	256QAM	1	1	18.18	18.29	18.24	19.5	4.5
Channel				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
15	QPSK	1	1	22.90	22.88	22.83	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	22.92	22.89	22.78	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.85	22.94	22.84	24.0	0.0

Full Power Mode

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								
Frequency (MHz)				16500	16700	167500		
20	PI2 BPSK	1	1	23.10	23.19	23.09		
20	PI2 BPSK	1	53	22.99	23.06	23.07	24.0	0.0
20	PI2 BPSK	1	104	22.85	22.90	22.75		
20	PI2 BPSK	50	0	22.50	22.63	22.59	23.5	0.5
20	PI2 BPSK	50	28	23.09	23.09	23.11	24.0	0.0
20	PI2 BPSK	50	56	22.51	22.64	22.48	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.69	22.53		
20	QPSK	1	1	23.11	23.23	23.17		
20	QPSK	1	53	22.97	23.14	23.02	24.0	0.0
20	QPSK	1	104	22.92	23.00	22.83		
20	QPSK	50	0	22.94	22.07	21.98	23.0	1.0
20	QPSK	50	28	23.04	23.20	23.16	24.0	0.0
20	QPSK	50	56	22.03	22.05	22.00	23.0	1.0
20	QPSK	100	0	22.11	22.24	22.13		
20	16QAM	1	1	21.87	22.02	21.92	23.0	1.0
20	64QAM	1	1	20.57	20.61	20.44	21.5	2.5
20	256QAM	1	1	18.40	18.51	18.38	19.5	4.5
Channel				165000	167000	167500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.98	23.14	23.06	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.00	23.11	23.07	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.07	23.17	23.06	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								
Frequency (MHz)				2500	2535	2550		
40	PI2 BPSK	1	1	22.82	22.89	22.86		
40	PI2 BPSK	1	108	22.85	22.74	22.69	24.0	0.0
40	PI2 BPSK	1	214	22.81	22.91	22.74		
40	PI2 BPSK	108	0	22.38	22.44	22.39	23.5	0.5
40	PI2 BPSK	108	54	22.82	22.90	22.73	24.0	0.0
40	PI2 BPSK	108	108	22.27	22.45	22.32	23.5	0.5
40	PI2 BPSK	216	0	22.25	22.41	22.42		
40	QPSK	1	1	22.98	22.98	22.82		
40	QPSK	1	108	22.79	22.88	22.87	24.0	0.0
40	QPSK	1	214	22.72	22.89	22.81		
40	QPSK	108	0	21.82	21.99	21.87	23.0	1.0
40	QPSK	108	54	22.73	22.91	22.88	24.0	0.0
40	QPSK	108	108	21.74	21.91	21.78	23.0	1.0
40	QPSK	216	0	21.88	21.95	21.82		
40	16QAM	1	1	22.09	22.31	22.19	23.0	1.0
40	64QAM	1	1	20.26	20.22	20.18	21.5	2.5
40	256QAM	1	1	18.19	18.32	18.29	19.5	4.5
Channel				50000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.73	22.84	22.76	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	22.74	22.89	22.71	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.74	22.85	22.68	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	22.82	22.78	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.77	22.90	22.69	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	22.73	22.87	22.68	24.0	0.0



n14 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									
Frequency (MHz)									
10	PI2 BPSK	1	1	23.01	22.96	23.01	24.0	0.0	
10	PI2 BPSK	1	26	22.96	22.96	22.96	24.0	0.0	
10	PI2 BPSK	1	50	22.96	22.96	22.96	24.0	0.0	
10	PI2 BPSK	25	0	22.49	22.49	22.49	23.5	0.5	
10	PI2 BPSK	25	14	22.95	22.95	22.95	24.0	0.0	
10	PI2 BPSK	25	27	22.47	22.47	22.47	23.5	0.5	
10	PI2 BPSK	50	0	22.53	22.53	22.53	24.0	0.0	
10	QPSK	1	1	23.05	23.05	23.05	24.0	0.0	
10	QPSK	1	26	23.00	23.00	23.00	24.0	0.0	
10	QPSK	1	50	22.95	22.95	22.95	24.0	0.0	
10	QPSK	25	0	21.97	21.97	21.97	23.0	1.0	
10	QPSK	25	14	22.98	22.98	22.98	24.0	0.0	
10	QPSK	25	27	21.97	21.97	21.97	23.0	1.0	
10	QPSK	50	0	22.04	22.04	22.04	23.0	1.0	
10	16QAM	1	1	22.29	22.29	22.29	23.0	1.0	
10	64QAM	1	1	20.72	20.72	20.72	21.5	2.5	
10	256QAM	1	1	18.30	18.30	18.30	19.5	4.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.98	22.99	22.91	24.0	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									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.90	22.87	22.87	24.0	0.0	
40	PI2 BPSK	1	108	22.87	22.99	22.87	24.0	0.0	
40	PI2 BPSK	1	214	22.87	22.93	22.85	24.0	0.0	
40	PI2 BPSK	108	0	22.36	22.44	22.37	23.5	0.5	
40	PI2 BPSK	108	54	22.83	22.91	22.82	24.0	0.0	
40	PI2 BPSK	108	108	22.36	22.49	22.40	23.5	0.5	
40	PI2 BPSK	216	0	22.40	22.55	22.43	24.0	0.0	
40	QPSK	1	1	22.96	23.10	22.94	24.0	0.0	
40	QPSK	1	108	22.93	23.06	22.88	24.0	0.0	
40	QPSK	1	214	22.88	23.00	22.90	24.0	0.0	
40	QPSK	108	0	21.92	21.99	21.96	23.0	1.0	
40	QPSK	108	54	22.91	22.93	22.90	24.0	0.0	
40	QPSK	108	108	21.90	22.02	21.88	23.0	1.0	
40	QPSK	216	0	22.03	22.06	22.02	23.0	1.0	
40	16QAM	1	1	21.66	21.79	21.67	23.0	1.0	
40	64QAM	1	1	20.45	20.55	20.45	21.5	2.5	
40	256QAM	1	1	18.19	18.31	18.21	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.88	23.03	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.92	22.97	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.84	22.99	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.92	22.96	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.84	23.00	22.83	24.0	0.0	

n71 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									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.03	23.06	23.00	24.0	0.0	
20	PI2 BPSK	1	53	22.92	23.02	22.91	24.0	0.0	
20	PI2 BPSK	1	104	22.94	22.97	22.83	24.0	0.0	
20	PI2 BPSK	50	0	22.44	22.48	22.30	23.5	0.5	
20	PI2 BPSK	50	28	22.91	23.01	22.88	24.0	0.0	
20	PI2 BPSK	50	56	22.30	22.41	22.29	23.5	0.5	
20	PI2 BPSK	100	0	22.35	22.49	22.42	24.0	0.0	
20	QPSK	1	1	23.05	23.11	23.07	24.0	0.0	
20	QPSK	1	53	23.02	23.07	23.03	24.0	0.0	
20	QPSK	1	104	22.91	22.95	22.88	24.0	0.0	
20	QPSK	50	0	21.98	22.04	21.92	23.0	1.0	
20	QPSK	50	28	22.99	23.05	22.93	24.0	0.0	
20	QPSK	50	56	21.92	21.96	21.88	23.0	1.0	
20	QPSK	100	0	21.98	22.02	21.89	23.0	1.0	
20	16QAM	1	1	22.25	22.39	22.28	23.0	1.0	
20	64QAM	1	1	20.27	20.39	20.31	21.5	2.5	
20	256QAM	1	1	18.63	18.74	18.69	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.01	23.05	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.91	23.07	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.91	22.98	22.95	24.0	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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.46	22.47	22.51			
100	PI2 BPSK	1	137	22.39	22.51	22.55	24.0	0.0	
100	PI2 BPSK	1	271	22.54	22.50	22.42			
100	PI2 BPSK	135	0	21.85	21.93	21.85	23.5	0.5	
100	PI2 BPSK	135	69	22.50	22.53	22.44	24.0	0.0	
100	PI2 BPSK	135	138	21.74	21.98	21.88	23.5	0.5	
100	PI2 BPSK	270	0	22.00	21.93	21.82			
100	QPSK	1	1	22.59	22.63	22.47			
100	QPSK	1	137	22.37	22.43	22.36	24.0	0.0	
100	QPSK	1	271	22.51	22.58	22.50			
100	QPSK	135	0	21.32	21.35	21.26	23.0	1.0	
100	QPSK	135	69	22.52	22.61	22.45	24.0	0.0	
100	QPSK	135	138	21.36	21.41	21.28	23.0	1.0	
100	QPSK	270	0	21.33	21.40	21.31			
100	16QAM	1	1	21.39	21.40	21.31	23.0	1.0	
100	16QAM	1	1	19.92	19.81	19.71	21.5	2.5	
100	256QAM	1	1	18.21	18.16	18.19	19.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.52	22.51	22.38	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.53	22.59	22.36	24.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	24.0	0.0	
70	QPSK	1	1	22.54	22.57	22.36	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.48	22.54	22.43	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.45	22.48	22.39	24.0	0.0	
Channel				502002	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.52	22.50	22.38	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	22.52	22.49	22.44	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.51	22.55	22.35	24.0	0.0	

n41 PC2 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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.45	25.53	25.47			
100	PI2 BPSK	1	137	25.37	25.49	25.36	26.0	0.0	
100	PI2 BPSK	1	271	25.30	25.44	25.32			
100	PI2 BPSK	135	0	24.92	24.97	24.85	25.5	0.5	
100	PI2 BPSK	135	69	25.37	25.47	25.38	26.0	0.0	
100	PI2 BPSK	135	138	24.95	25.05	25.00	25.5	0.5	
100	PI2 BPSK	270	0	24.98	25.09	24.88			
100	QPSK	1	1	25.48	25.57	25.53			
100	QPSK	1	137	25.43	25.52	25.43	26.0	0.0	
100	QPSK	1	271	25.41	25.46	25.41			
100	QPSK	135	0	24.46	24.51	24.37	25.0	1.0	
100	QPSK	135	69	25.43	25.54	25.40	26.0	0.0	
100	QPSK	135	138	24.37	24.45	24.42	25.0	1.0	
100	QPSK	270	0	24.39	24.52	24.48			
100	16QAM	1	1	24.21	24.25	24.21	25.0	1.0	
100	16QAM	1	1	21.73	21.85	21.80	23.5	2.5	
100	256QAM	1	1	19.60	19.64	19.51	21.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	25.43	25.48	25.41	26.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	25.43	25.47	25.46	26.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	24.0	0.0	
70	QPSK	1	1	25.34	25.53	25.46	26.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	25.38	25.46	25.43	26.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	25.38	25.49	25.48	26.0	0.0	
Channel				502002	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	25.36	25.43	25.38	26.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	25.42	25.44	25.41	26.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	25.44	25.52	25.38	26.0	0.0	



n2 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				372000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	22.86	22.86	22.77		
20	PI2 BPSK	1	53	22.81	22.86	22.83	24.0	0.0
20	PI2 BPSK	1	104	22.71	22.82	22.76		
20	PI2 BPSK	50	0	22.20	22.35	22.30	23.5	0.5
20	PI2 BPSK	50	28	22.72	22.80	22.75	24.0	0.0
20	PI2 BPSK	50	58	22.30	22.31	22.19	23.5	0.5
20	PI2 BPSK	100	0	22.19	22.38	22.33		
20	QPSK	1	1	22.86	22.84	22.88		
20	QPSK	1	53	22.81	22.85	22.76	24.0	0.0
20	QPSK	1	104	22.79	22.90	22.72		
20	QPSK	50	0	21.78	21.93	21.82	23.0	1.0
20	QPSK	50	28	22.82	22.87	22.71	24.0	0.0
20	QPSK	50	58	21.72	21.76	21.74	23.0	1.0
20	QPSK	100	0	21.78	21.85	21.81		
20	16QAM	1	1	22.09	22.17	22.06	23.0	1.0
20	16QAM	1	1	20.29	20.25	20.22	21.5	2.5
20	256QAM	1	1	18.51	18.58	18.48	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1857.5	1860	1902.5		
15	QPSK	1	1	22.74	22.85	22.74	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	22.76	22.90	22.81	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	22.78	22.88	22.83	24.0	0.0

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		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.11	23.20	23.04		
20	PI2 BPSK	1	53	23.04	23.19	23.03	24.0	0.0
20	PI2 BPSK	1	104	22.97	23.09	22.97		
20	PI2 BPSK	50	0	22.86	22.76	22.85	23.5	0.5
20	PI2 BPSK	50	28	23.06	23.13	23.07	24.0	0.0
20	PI2 BPSK	50	58	22.61	22.87	22.59	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.70	22.67		
20	QPSK	1	1	23.13	23.22	23.16		
20	QPSK	1	53	23.11	23.12	23.13	24.0	0.0
20	QPSK	1	104	23.01	23.11	23.01		
20	QPSK	50	0	22.16	22.19	22.00	23.0	1.0
20	QPSK	50	28	23.12	23.19	23.15	24.0	0.0
20	QPSK	50	58	22.08	22.18	22.01	23.0	1.0
20	QPSK	100	0	22.18	22.21	22.12		
20	16QAM	1	1	22.05	22.13	22.07	23.0	1.0
20	16QAM	1	1	20.75	20.74	20.73	21.5	2.5
20	256QAM	1	1	18.41	18.48	18.44	19.5	4.5
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.04	23.17	23.06	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.10	23.07	23.01	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.03	23.14	23.04	24.0	0.0

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				504500	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	22.89	22.79	22.77		
40	PI2 BPSK	1	108	22.67	22.76	22.72	24.0	0.0
40	PI2 BPSK	1	214	22.58	22.67	22.65		
40	PI2 BPSK	108	0	22.12	22.26	22.19	23.5	0.5
40	PI2 BPSK	108	54	22.64	22.73	22.82	24.0	0.0
40	PI2 BPSK	108	108	22.13	22.28	22.23	23.5	0.5
40	PI2 BPSK	216	0	22.23	22.31	22.18		
40	QPSK	1	1	22.84	22.87	22.79		
40	QPSK	1	108	22.71	22.81	22.70	24.0	0.0
40	QPSK	1	214	22.72	22.77	22.84		
40	QPSK	108	0	21.89	21.81	21.69	23.0	1.0
40	QPSK	108	54	22.62	22.77	22.70	24.0	0.0
40	QPSK	108	108	21.72	21.79	21.74	23.0	1.0
40	QPSK	216	0	21.77	21.83	21.72		
40	16QAM	1	1	21.86	21.72	21.67	23.0	1.0
40	16QAM	1	1	20.27	20.34	20.25	21.5	2.5
40	256QAM	1	1	17.80	17.91	17.83	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.71	22.79	22.85	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.72	22.82	22.73	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.73	22.75	22.71	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.78	22.84	22.86	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.81	22.72	22.71	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.75	22.85	22.76	24.0	0.0



n66 Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	22.82	22.91	22.79	
40	PI2 BPSK	1	168	22.77	22.86	22.74	
40	PI2 BPSK	1	214	22.89	22.92	22.79	24.0
40	PI2 BPSK	108	0	22.28	22.31	22.20	23.5
40	PI2 BPSK	108	54	22.85	22.89	22.79	24.0
40	PI2 BPSK	108	108	22.32	22.43	22.34	23.5
40	PI2 BPSK	216	0	22.39	22.48	22.34	
40	QPSK	1	1	22.94	22.94	22.92	
40	QPSK	1	108	22.76	22.90	22.87	24.0
40	QPSK	1	214	22.66	22.81	22.68	
40	QPSK	108	0	21.75	21.85	21.73	23.0
40	QPSK	108	54	22.71	22.86	22.83	24.0
40	QPSK	108	108	21.82	21.93	21.91	23.0
40	QPSK	216	0	21.96	22.01	21.91	23.0
40	16QAM	1	1	21.59	21.73	21.59	23.0
40	64QAM	1	1	20.25	20.35	20.27	21.5
40	256QAM	1	1	18.01	18.11	17.88	19.5
Channel				345000	349000	353000	Tune-up limit (dB) MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.71	22.82	22.84	24.0
Channel				344000	348000	352000	Tune-up limit MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.75	22.85	22.84	24.0
Channel				343500	349000	354500	Tune-up limit MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	22.71	22.88	22.83	24.0
Channel				343000	349000	355000	Tune-up limit MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.72	22.90	22.88	24.0
Channel				342500	349000	355500	Tune-up limit MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.70	22.87	22.88	24.0

n71 Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				134500	138100	137600	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	22.96	23.08	23.05	
20	PI2 BPSK	1	53	22.97	23.02	22.92	24.0
20	PI2 BPSK	1	104	22.76	22.91	22.83	
20	PI2 BPSK	50	0	22.46	22.52	22.47	23.5
20	PI2 BPSK	50	28	22.94	23.03	22.97	24.0
20	PI2 BPSK	50	56	22.41	22.45	22.34	23.5
20	PI2 BPSK	100	0	22.47	22.53	22.47	
20	QPSK	1	1	23.03	23.13	23.09	
20	QPSK	1	53	22.96	23.09	23.02	24.0
20	QPSK	1	104	22.90	22.97	22.91	
20	QPSK	50	0	21.91	22.05	21.94	23.0
20	QPSK	50	28	22.98	23.06	22.93	24.0
20	QPSK	50	56	21.92	22.01	21.87	23.0
20	QPSK	100	0	21.93	22.07	21.97	
20	16QAM	1	1	21.77	21.87	21.83	23.0
20	64QAM	1	1	20.25	20.34	20.21	21.5
20	256QAM	1	1	18.53	18.83	18.58	19.5
Channel				134100	138100	138100	Tune-up limit MPR
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.91	23.02	22.97	24.0
Channel				133600	138100	138600	Tune-up limit MPR
Frequency (MHz)				668	680.5	692	
10	QPSK	1	1	22.99	23.00	23.02	24.0
Channel				133100	138100	139100	Tune-up limit MPR
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.96	23.00	22.99	24.0



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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.77	22.87	22.75			
100	PI2 BPSK	1	137	22.76	22.75	22.70	24.0	0.0	
100	PI2 BPSK	1	271	22.85	22.75	22.86			
100	PI2 BPSK	135	0	22.15	22.31	22.11	23.5	0.5	
100	PI2 BPSK	135	69	22.73	22.82	22.62	24.0	0.0	
100	PI2 BPSK	135	138	22.18	22.28	22.21	23.5	0.5	
100	PI2 BPSK	270	0	22.27	22.31	22.24			
100	QPSK	1	1	22.89	22.91	22.80			
100	QPSK	1	137	22.79	22.87	22.73	24.0	0.0	
100	QPSK	1	271	22.83	22.82	22.70			
100	QPSK	135	0	21.64	21.75	21.74	23.0	1.0	
100	QPSK	135	69	22.72	22.67	22.76	24.0	0.0	
100	QPSK	135	138	21.72	21.78	21.72	23.0	1.0	
100	QPSK	270	0	21.77	21.83	21.82			
100	16QAM	1	1	21.98	22.01	21.88	23.0	1.0	
100	16QAM	1	1	20.26	20.34	20.24	21.5	2.5	
100	256QAM	1	1	18.30	18.38	18.29	19.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.84	22.78	22.67	24.0	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2640.99			
80	QPSK	1	1	22.75	22.77	22.69	24.0	0.0	
Channel				502002	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	22.74	22.80	22.66	24.0	0.0	
Channel				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	22.79	22.81	22.69	24.0	0.0	
Channel				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.83	22.87	22.77	24.0	0.0	
Channel				502002	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.82	22.86	22.65	24.0	0.0	
Channel				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	22.70	22.87	22.73	24.0	0.0	
Channel				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.80	22.77	22.72	24.0	0.0	

n41 PC2 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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.81	25.89	25.84			
100	PI2 BPSK	1	137	25.77	25.81	25.70	27.0	0.0	
100	PI2 BPSK	1	271	25.84	25.72	25.82			
100	PI2 BPSK	135	0	25.08	25.22	25.11	26.5	0.5	
100	PI2 BPSK	135	69	25.82	25.77	25.87	27.0	0.0	
100	PI2 BPSK	135	138	24.97	25.01	24.97	26.5	0.5	
100	PI2 BPSK	270	0	25.05	25.19	25.15			
100	QPSK	1	1	25.98	25.94	25.83			
100	QPSK	1	137	25.84	25.88	25.76	27.0	0.0	
100	QPSK	1	271	25.73	25.76	25.66			
100	QPSK	135	0	24.76	24.83	24.74	26.0	1.0	
100	QPSK	135	69	25.85	25.88	25.73	27.0	0.0	
100	QPSK	135	138	24.42	24.44	24.51	26.0	1.0	
100	QPSK	270	0	24.54	24.65	24.54			
100	16QAM	1	1	24.74	24.84	24.75	26.0	1.0	
100	16QAM	1	1	23.20	23.26	23.13	24.5	2.5	
100	256QAM	1	1	20.97	21.03	20.91	22.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.83	25.85	25.71	27.0	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2640.99			
80	QPSK	1	1	25.77	25.80	25.75	27.0	0.0	
Channel				502002	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	25.82	25.86	25.79	27.0	0.0	
Channel				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	25.81	25.86	25.75	27.0	0.0	
Channel				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.81	25.83	25.78	27.0	0.0	
Channel				502002	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.75	25.85	25.73	27.0	0.0	
Channel				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	25.84	25.89	25.76	27.0	0.0	
Channel				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.74	25.83	25.70	27.0	0.0	



n41 Ant2

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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.74	22.79	22.87		
100	PI2 BPSK	1	137	22.61	22.74	22.84	24.0	0.0
100	PI2 BPSK	1	271	22.60	22.70	22.80		
100	PI2 BPSK	135	0	22.08	22.14	22.00	23.5	0.5
100	PI2 BPSK	135	69	22.56	22.67	22.54	24.0	0.0
100	PI2 BPSK	135	138	22.09	22.16	22.04	23.5	0.5
100	PI2 BPSK	270	0	22.14	22.28	22.13		
100	QPSK	1	1	22.77	22.81	22.72		
100	QPSK	1	137	22.59	22.70	22.59	24.0	0.0
100	QPSK	1	271	22.86	22.76	22.83		
100	QPSK	135	0	21.56	21.62	21.49	23.0	1.0
100	QPSK	135	69	22.82	22.74	22.83	24.0	0.0
100	QPSK	135	138	21.66	21.71	21.58	23.0	1.0
100	QPSK	270	0	21.70	21.77	21.82		
100	16QAM	1	1	21.58	21.66	21.55	23.0	1.0
100	64QAM	1	1	19.74	19.85	19.74	21.5	2.5
100	256QAM	1	1	17.83	17.82	17.78	19.5	4.5
Channel								
Frequency (MHz)				50200	51898	53596		
90	QPSK	1	1	22.84	22.73	22.89	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
90	QPSK	1	1	22.87	22.69	22.80	24.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	25.31.01	25.92.99	26.65	24.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	22.70	22.66	22.81	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	22.71	22.63	22.84	24.0	0.0
Channel								
Frequency (MHz)				503202	518598	533000		
40	QPSK	1	1	22.85	22.70	22.87	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	22.11	22.25	22.33	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	22.67	22.77	22.85	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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.70	25.76	25.71		
100	PI2 BPSK	1	137	25.57	25.76	25.66	26.0	0.0
100	PI2 BPSK	1	271	25.60	25.76	25.66		
100	PI2 BPSK	135	0	25.08	25.15	25.03	25.5	0.5
100	PI2 BPSK	135	69	25.61	25.65	25.58	26.0	0.0
100	PI2 BPSK	135	138	25.04	25.14	24.99	25.5	0.5
100	PI2 BPSK	270	0	25.13	25.25	25.08		
100	QPSK	1	1	25.72	25.70	25.70		
100	QPSK	1	137	25.58	25.72	25.57	26.0	0.0
100	QPSK	1	271	25.82	25.78	25.60		
100	QPSK	135	0	24.56	24.66	24.49	25.0	1.0
100	QPSK	135	69	25.59	25.63	25.61	26.0	0.0
100	QPSK	135	138	24.66	24.76	24.64	25.0	1.0
100	QPSK	270	0	24.72	24.76	24.66		
100	16QAM	1	1	24.58	24.65	24.49	25.0	1.0
100	64QAM	1	1	22.77	22.81	22.72	23.5	2.5
100	256QAM	1	1	20.91	20.95	20.88	21.5	4.5
Channel								
Frequency (MHz)				503200	518598	535998		
90	QPSK	1	1	25.70	25.74	25.60	26.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	25.82	25.75	25.84	26.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	25.84	25.72	25.58	26.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	25.70	25.73	25.59	26.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	25.65	25.70	25.57	26.0	0.0
Channel								
Frequency (MHz)				503202	518598	533000		
40	QPSK	1	1	25.67	25.72	25.61	26.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	25.11	25.22	25.33	26.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	25.68	25.68	25.67	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								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	23.08	23.13	23.04		
40	PI2 BPSK	1	53	22.98	23.10	22.96	24.0	0.0
40	PI2 BPSK	1	104	23.07	23.11	22.98		
40	PI2 BPSK	50	0	22.83	22.72	22.65	23.5	0.5
40	PI2 BPSK	50	26	23.01	23.11	23.02	24.0	0.0
40	PI2 BPSK	50	56	22.51	22.58	22.53	23.5	0.5
40	PI2 BPSK	100	0	22.52	22.64	22.52		
40	QPSK	1	1	23.06	23.17	23.06		
40	QPSK	1	53	23.05	23.09	22.95	24.0	0.0
40	QPSK	1	104	22.95	23.07	23.01		
40	QPSK	50	0	22.10	22.18	22.11	23.0	1.0
40	QPSK	50	26	23.06	23.15	23.10	24.0	0.0
40	QPSK	50	56	22.02	22.07	21.88	23.0	1.0
40	QPSK	100	0	22.00	22.12	21.99		
40	16QAM	1	1	21.86	21.96	21.89	23.0	1.0
40	64QAM	1	1	20.83	20.67	20.57	21.5	2.5
40	256QAM	1	1	18.37	18.48	18.36	19.5	4.5
Channel								
Frequency (MHz)				637334	641666	646000		
20	QPSK	1	1	23.03	23.04	22.94	24.0	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								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	137	22.34	22.44	22.42	24.0	0.0
100	PI2 BPSK	1	271	22.44	22.48	22.41		
100	PI2 BPSK	135	0	21.88	21.97	21.92	23.5	0.5
100	PI2 BPSK	135	69	22.44	22.62	22.46	24.0	0.0
100	PI2 BPSK	135	138	21.87	22.00	21.97	23.5	0.5
100	PI2 BPSK	270	0	21.99	22.03	21.90		
100	QPSK	1	1	22.32	22.37	22.47		
100	QPSK	1	137	22.44	22.55	22.43	24.0	0.0
100	QPSK	1	271	22.35	22.46	22.38		
100	QPSK	135	0	21.38	21.48	21.38	23.0	1.0
100	QPSK	135	69	22.47	22.51	22.46	24.0	0.0
100	QPSK	135	138	21.37	21.44	21.33	23.0	1.0
100	QPSK	270	0	21.34	21.47	21.41		
100	16QAM	1	1	21.62	21.66	21.54	23.0	1.0
100	16QAM	1	1	19.59	19.73	19.62	21.5	2.5
100	256QAM	1	1	17.53	17.60	17.58	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3840	3935.01	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.42	22.46	22.43	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.48	22.53	22.42	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.41	22.50	22.43	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.43	22.54	22.38	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.42	22.49	22.35	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.43	22.52	22.40	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.42	22.45	22.38	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.43	22.47	22.40	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.47	22.55	22.36	24.0	0.0

Part270 n77 PC2 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.42	25.50	25.46		
100	PI2 BPSK	1	137	25.33	25.43	25.33	27.0	0.0
100	PI2 BPSK	1	271	25.37	25.48	25.40		
100	PI2 BPSK	135	0	24.94	24.98	24.87	26.5	0.5
100	PI2 BPSK	135	69	25.42	25.48	25.39	27.0	0.0
100	PI2 BPSK	135	138	24.82	24.93	24.90	26.5	0.5
100	PI2 BPSK	270	0	24.89	24.99	24.85		
100	QPSK	1	1	25.46	25.54	25.51		
100	QPSK	1	137	25.40	25.53	25.40	27.0	0.0
100	QPSK	1	271	25.37	25.47	25.42		
100	QPSK	135	0	24.41	24.47	24.41	26.0	1.0
100	QPSK	135	69	25.32	25.45	25.35	27.0	0.0
100	QPSK	135	138	24.37	24.45	24.32	26.0	1.0
100	QPSK	270	0	24.41	24.48	24.42		
100	16QAM	1	1	24.46	24.52	24.42	26.0	1.0
100	16QAM	1	1	22.73	22.87	22.82	24.5	2.5
100	256QAM	1	1	20.53	20.61	20.58	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.38	25.42	25.36	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.35	25.52	25.42	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.39	25.40	25.41	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.42	25.45	25.49	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.42	25.49	25.44	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.46	25.48	25.46	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.45	25.49	25.47	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.44	25.41	25.38	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.34	25.51	25.40	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.42	25.39	25.40	27.0	0.0

Part27Q 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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		22.83		24.0	0.0
100	PI2 BPSK	1	271		22.78			
100	PI2 BPSK	135	0		22.40		23.5	0.5
100	PI2 BPSK	135	69		22.86		24.0	0.0
100	PI2 BPSK	135	138		22.33		23.5	0.5
100	PI2 BPSK	270	0		22.39			
100	QPSK	1	1		22.94			
100	QPSK	1	137		22.89		24.0	0.0
100	QPSK	1	271		22.91			
100	QPSK	135	0		21.87		23.0	1.0
100	QPSK	135	69		22.90		24.0	0.0
100	QPSK	135	138		21.79		23.0	1.0
100	QPSK	270	0		21.81			
100	16QAM	1	1		21.64		23.0	1.0
100	16QAM	1	1		20.31		21.5	2.5
100	256QAM	1	1		18.26		19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3500.01	3505.02	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.80	22.80	22.82	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.86	22.81	22.89	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.88	22.90	22.84	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.83	22.87	22.83	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.84	22.83	22.81	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.82	22.83	22.89	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.84	22.89	22.86	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.87	22.86	22.89	24.0	0.0



Part27Q n77 PC2 Ant 2

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequency channels.

Part27O n78 Ant 2

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequency channels.

Part27Q n78 Ant 2

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequency channels.



Part27Q n77 PC2 Ant 4

Table with 10 columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequencies and power levels.

Part27O n78 Ant 4

Table with 10 columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequencies and power levels.

Part27Q n78 Ant 4

Table with 10 columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequencies and power levels.



Part270 n77 Ant 5

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.46	22.52	22.41	24.0	0.0
100	PI2 BPSK	1	137	22.29	22.38	22.28		
100	PI2 BPSK	1	271	22.28	22.31	22.22		
100	PI2 BPSK	135	0	21.76	21.84	21.70	23.5	0.5
100	PI2 BPSK	135	69	22.31	22.39	22.30	24.0	0.0
100	PI2 BPSK	135	138	21.87	21.95	21.84	23.5	0.5
100	PI2 BPSK	270	0	21.80	21.92	21.85	24.0	0.0
100	QPSK	1	1	22.46	22.56	22.53		
100	QPSK	1	137	22.32	22.42	22.30		
100	QPSK	1	271	22.32	22.42	22.35	23.0	1.0
100	QPSK	135	0	21.28	21.34	21.25		
100	QPSK	135	69	22.44	22.51	22.39		
100	QPSK	135	138	21.34	21.40	21.36	23.0	1.0
100	QPSK	270	0	21.41	21.49	21.37	23.0	1.0
100	16QAM	1	1	21.58	21.69	21.84		
100	16QAM	1	1	19.87	19.95	19.83		
100	256QAM	1	1	17.84	17.95	17.90	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.34	22.53	22.47	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.33	22.49	22.45	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.35	22.52	22.43	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.37	22.50	22.49	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.38	22.43	22.47	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.34	22.51	22.43	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.43	22.44	22.39	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.40	22.53	22.48	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.40	22.45	22.40	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.42	22.49	22.39	24.0	0.0

Part270 n77 PC2 Ant 5

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.46	25.53	25.44	27.0	0.0
100	PI2 BPSK	1	137	25.28	25.40	25.32		
100	PI2 BPSK	1	271	25.27	25.37	25.25		
100	PI2 BPSK	135	0	24.76	24.85	24.74	26.5	0.5
100	PI2 BPSK	135	69	25.26	25.37	25.31	27.0	0.0
100	PI2 BPSK	135	138	24.91	24.91	24.86	26.5	0.5
100	PI2 BPSK	270	0	24.78	24.88	24.81	27.0	0.0
100	QPSK	1	1	25.49	25.61	25.57		
100	QPSK	1	137	25.33	25.40	25.32		
100	QPSK	1	271	25.34	25.39	25.41	26.0	1.0
100	QPSK	135	0	24.24	24.41	24.29		
100	QPSK	135	69	25.50	25.51	25.41		
100	QPSK	135	138	24.31	24.36	24.36	26.0	1.0
100	QPSK	270	0	24.38	24.48	24.41	26.0	1.0
100	16QAM	1	1	24.57	24.65	24.68		
100	16QAM	1	1	22.94	23.09	23.01		
100	256QAM	1	1	20.86	20.97	20.94	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.44	25.49	25.50	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.43	25.54	25.44	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.37	25.47	25.46	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.46	25.56	25.50	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.36	25.49	25.43	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.35	25.50	25.48	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.38	25.45	25.53	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.39	25.55	25.48	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.35	25.47	25.50	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.37	25.53	25.50	27.0	0.0

Part27Q n77 Ant 5

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								
Frequency (MHz)								
100	PI2 BPSK	1	1				24.0	0.0
100	PI2 BPSK	1	137					
100	PI2 BPSK	1	271					
100	PI2 BPSK	135	0				23.5	0.5
100	PI2 BPSK	135	69				24.0	0.0
100	PI2 BPSK	135	138				23.5	0.5
100	PI2 BPSK	270	0				24.0	0.0
100	QPSK	1	1					
100	QPSK	1	137					
100	QPSK	1	271				23.0	1.0
100	QPSK	135	0					
100	QPSK	135	69					
100	QPSK	135	138				23.0	1.0
100	QPSK	270	0				23.0	1.0
100	16QAM	1	1					
100	16QAM	1	1					
100	256QAM	1	1				19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1				24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1				24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 52602	Power Middle Ch. / Freq. 51858	Power High Ch. / Freq. 52600	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	2546.01	2592.99	2640		
100	PI2 BPSK	1	137	22.53	22.58	22.47	24.0	0.0
100	PI2 BPSK	1	271	22.27	22.40	22.27		
100	PI2 BPSK	135	0	21.82	21.95	21.80	23.5	0.5
100	PI2 BPSK	135	69	22.33	22.45	22.34	24.0	0.0
100	PI2 BPSK	135	138	21.86	21.97	21.90	23.5	0.5
100	PI2 BPSK	270	0	21.98	22.02	21.93		
100	QPSK	1	1	22.50	22.61	22.52		
100	QPSK	1	137	22.38	22.53	22.49	24.0	0.0
100	QPSK	1	271	22.38	22.46	22.37		
100	QPSK	135	0	21.38	21.44	21.34	23.0	1.0
100	QPSK	135	69	22.45	22.56	22.48	24.0	0.0
100	QPSK	135	138	21.34	21.41	21.34	23.0	1.0
100	QPSK	270	0	21.40	21.46	21.37		
100	16QAM	1	1	21.40	21.54	21.42	23.0	1.0
100	16QAM	1	1	19.82	19.93	19.80	21.5	2.5
100	256QAM	1	1	18.04	18.18	18.12	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	2541	2592.99	2644.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.41	22.49	22.42	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.44	22.50	22.41	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.44	22.53	22.39	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.47	22.51	22.40	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.40	22.48	22.41	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.43	22.53	22.34	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.46	22.50	22.38	24.0	0.0

n41 PC2 Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 52602	Power Middle Ch. / Freq. 51858	Power High Ch. / Freq. 52600	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	2546.01	2592.99	2640		
100	PI2 BPSK	1	137	25.53	25.58	25.49		
100	PI2 BPSK	1	271	25.40	25.54	25.42	27.0	0.0
100	PI2 BPSK	135	0	24.71	24.85	24.75	26.5	0.5
100	PI2 BPSK	135	69	25.36	25.47	25.41	27.0	0.0
100	PI2 BPSK	135	138	24.74	24.83	24.72	26.5	0.5
100	PI2 BPSK	270	0	24.77	24.90	24.80		
100	QPSK	1	1	25.53	25.65	25.60		
100	QPSK	1	137	25.55	25.61	25.50	27.0	0.0
100	QPSK	1	271	25.48	25.56	25.44		
100	QPSK	135	0	24.44	24.49	24.39	26.0	1.0
100	QPSK	135	69	25.45	25.59	25.48	27.0	0.0
100	QPSK	135	138	24.38	24.41	24.27	26.0	1.0
100	QPSK	270	0	24.35	24.45	24.34		
100	16QAM	1	1	24.48	24.52	24.39	26.0	1.0
100	16QAM	1	1	22.56	22.56	22.65	24.5	2.5
100	256QAM	1	1	20.54	20.56	20.54	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	2541	2592.99	2644.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.49	25.55	25.48	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.48	25.52	25.48	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.44	25.56	25.49	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.41	25.51	25.52	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.41	25.50	25.55	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.50	25.61	25.52	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.48	25.58	25.49	27.0	0.0

Part270 n77 Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	1	22.78	22.84	22.84		
100	PI2 BPSK	1	137	22.75	22.80	22.70	24.0	0.0
100	PI2 BPSK	1	271	22.75	22.77	22.80		
100	PI2 BPSK	135	0	21.93	22.14	22.14	23.5	0.5
100	PI2 BPSK	135	69	22.51	22.54	22.48	24.0	0.0
100	PI2 BPSK	135	138	22.13	22.21	22.00	23.5	0.5
100	PI2 BPSK	270	0	22.07	22.23	22.09		
100	QPSK	1	1	22.71	22.86	22.75		
100	QPSK	1	137	22.68	22.69	22.63	24.0	0.0
100	QPSK	1	271	22.49	22.73	22.75		
100	QPSK	135	0	21.87	21.86	21.77	23.0	1.0
100	QPSK	135	69	22.69	22.77	22.63	24.0	0.0
100	QPSK	135	138	21.50	21.46	21.39	23.0	1.0
100	QPSK	270	0	21.57	21.65	21.48		
100	16QAM	1	1	21.84	21.84	21.89	23.0	1.0
100	16QAM	1	1	20.22	20.16	20.16	21.5	2.5
100	256QAM	1	1	17.78	17.77	17.72	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3840	3935.01		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.68	22.72	22.71	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.68	22.75	22.67	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.68	22.72	22.67	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.63	22.79	22.68	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.65	22.81	22.63	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.72	22.76	22.69	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.73	22.73	22.67	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.67	22.75	22.68	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.70	22.78	22.68	24.0	0.0



Part270 n78 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				3750	3750	3750			
100	PI2 BPSK	1	1		22.83				
100	PI2 BPSK	1	137		22.70			24.0	0.0
100	PI2 BPSK	1	271		22.71				
100	PI2 BPSK	135	0		22.11			23.5	0.5
100	PI2 BPSK	135	69		22.52			24.0	0.0
100	PI2 BPSK	135	138		21.93			23.5	0.5
100	PI2 BPSK	270	0		22.05				
100	QPSK	1	1		22.38				
100	QPSK	1	137		22.56			24.0	0.0
100	QPSK	1	271		22.86				
100	QPSK	135	0		21.85			23.0	1.0
100	QPSK	135	69		22.81			24.0	0.0
100	QPSK	135	138		21.44			23.0	1.0
100	QPSK	270	0		21.55				
100	16QAM	1	1		21.83			23.0	1.0
100	16QAM	1	1		20.06			21.5	2.5
100	256QAM	1	1		17.63			19.5	4.5
Channel									
				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
90	QPSK	1	1		22.77	22.80	22.78	24.0	0.0
Channel									
				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3750	3760.02			
80	QPSK	1	1		22.76	22.70	22.85	24.0	0.0
Channel									
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
				3735	3750	3765			
70	QPSK	1	1		22.82	22.83	22.76	24.0	0.0
Channel									
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
				3730.02	3750	3770.01			
60	QPSK	1	1		22.76	22.79	22.82	24.0	0.0
Channel									
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
				3725.01	3750	3775.02			
50	QPSK	1	1		22.84	22.85	22.75	24.0	0.0
Channel									
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
				3720	3750	3780			
40	QPSK	1	1		22.73	22.82	22.74	24.0	0.0
Channel									
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
				3715.02	3750	3765.01			
30	QPSK	1	1		22.81	22.73	22.81	24.0	0.0
Channel									
				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
				3710.01	3750	3790.02			
20	QPSK	1	1		22.76	22.75	22.83	24.0	0.0
Channel									
				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
				3707.53	3750	3792.51			
15	QPSK	1	1		22.84	22.80	22.78	24.0	0.0
Channel									
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
				3705	3750	3795			
10	QPSK	1	1		22.80	22.77	22.73	24.0	0.0

Part27Q n78 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63300	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				3500.01					
100	PI2 BPSK	1	1		23.09				
100	PI2 BPSK	1	137		22.94			24.0	0.0
100	PI2 BPSK	1	271		22.93				
100	PI2 BPSK	135	0		22.58			23.5	0.5
100	PI2 BPSK	135	69		23.08			24.0	0.0
100	PI2 BPSK	135	138		22.46			23.5	0.5
100	PI2 BPSK	270	0		22.49				
100	QPSK	1	1		23.11				
100	QPSK	1	137		23.05			24.0	0.0
100	QPSK	1	271		22.94				
100	QPSK	135	0		22.00			23.0	1.0
100	QPSK	135	69		22.99			24.0	0.0
100	QPSK	135	138		21.96			23.0	1.0
100	QPSK	270	0		22.07				
100	16QAM	1	1		22.08			23.0	1.0
100	16QAM	1	1		20.58			21.5	2.5
100	256QAM	1	1		18.42			19.5	4.5
Channel									
				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3505.02			
90	QPSK	1	1		23.01	23.07	23.08	24.0	0.0
Channel									
				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3500.01	3510			
80	QPSK	1	1		22.96	23.00	22.89	24.0	0.0
Channel									
				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3500.01	3515.01			
70	QPSK	1	1		23.05	22.99	23.08	24.0	0.0
Channel									
				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
				3480	3500.01	3520.02			
60	QPSK	1	1		22.98	22.97	23.00	24.0	0.0
Channel									
				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525			
50	QPSK	1	1		22.98	23.08	23.03	24.0	0.0
Channel									
				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3500.01	3530.01			
40	QPSK	1	1		23.07	23.00	23.07	24.0	0.0
Channel									
				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
				3465	3500.01	3535.02			
30	QPSK	1	1		23.03	23.07	22.89	24.0	0.0
Channel									
				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
				3460.02	3500.01	3540			
20	QPSK	1	1		23.04	23.04	23.04	24.0	0.0
Channel									
				630500	633334	636368	Tune-up limit (dBm)	MPR (dB)	
				3457.5	3500.01	3542.52			
15	QPSK	1	1		23.05	23.01	23.02	24.0	0.0
Channel									
				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
				3455.01	3500.01	3545.01			
10	QPSK	1	1		22.98	23.02	23.08	24.0	0.0



Reduced Power Mode for DSI2

n2 Ant0 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.96	23.00	22.89	24.0	0.0
20	PI2 BPSK	1	53	22.92	22.98	22.82		
20	PI2 BPSK	1	104	22.83	22.95	22.84		
20	PI2 BPSK	50	0	22.22	22.24	22.26	23.5	0.5
20	PI2 BPSK	50	28	22.80	22.80	22.75	24.0	0.0
20	PI2 BPSK	50	56	22.14	22.27	22.21	23.5	0.5
20	PI2 BPSK	100	0	22.24	22.24	22.28		
20	QPSK	1	1	22.85	23.03	22.92	24.0	0.0
20	QPSK	1	53	22.87	22.96	22.83		
20	QPSK	1	104	22.88	22.92	22.88		
20	QPSK	50	0	21.85	21.92	21.79	23.0	1.0
20	QPSK	50	28	22.93	22.97	22.92	24.0	0.0
20	QPSK	50	56	21.82	21.86	21.71	23.0	1.0
20	QPSK	100	0	21.86	21.89	21.82		
20	16QAM	1	1	21.72	21.78	21.74	23.0	1.0
20	64QAM	1	1	20.38	20.43	20.40	21.5	2.5
20	256QAM	1	1	18.18	18.29	18.24	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.90	22.88	22.83	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.92	22.99	22.78	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.85	22.94	22.84	24.0	0.0

n5 Ant0 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
Channel				166800	167200	167600		
Frequency (MHz)				834	835.5	838		
20	PI2 BPSK	1	1	23.10	23.19	23.09	24.0	0.0
20	PI2 BPSK	1	53	22.99	23.06	23.07		
20	PI2 BPSK	1	104	22.85	22.90	22.75		
20	PI2 BPSK	50	0	22.50	22.63	22.59	23.5	0.5
20	PI2 BPSK	50	28	23.08	23.08	23.11	24.0	0.0
20	PI2 BPSK	50	56	22.51	22.64	22.48	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.69	22.53		
20	QPSK	1	1	23.11	23.23	23.17	24.0	0.0
20	QPSK	1	53	22.97	23.14	23.02		
20	QPSK	1	104	22.92	23.00	22.83		
20	QPSK	50	0	22.04	22.07	21.98	23.0	1.0
20	QPSK	50	28	23.04	23.20	23.16	24.0	0.0
20	QPSK	50	56	22.03	22.05	22.00	23.0	1.0
20	QPSK	100	0	22.11	22.24	22.13		
20	16QAM	1	1	21.87	22.02	21.92	23.0	1.0
20	64QAM	1	1	20.57	20.61	20.44	21.5	2.5
20	256QAM	1	1	18.40	18.51	18.38	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	835.5	841.5		
15	QPSK	1	1	22.98	23.14	23.06	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.00	23.11	23.07	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.07	23.17	23.08	24.0	0.0

n7 Ant0 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	22.82	22.89	22.86	24.0	0.0
40	PI2 BPSK	1	108	22.65	22.74	22.69		
40	PI2 BPSK	1	214	22.81	22.91	22.74		
40	PI2 BPSK	108	0	22.39	22.44	22.38	23.5	0.5
40	PI2 BPSK	108	54	22.82	22.90	22.73	24.0	0.0
40	PI2 BPSK	108	108	22.27	22.45	22.32	23.5	0.5
40	PI2 BPSK	216	0	22.25	22.41	22.42		
40	QPSK	1	1	22.88	22.95	22.82	24.0	0.0
40	QPSK	1	108	22.79	22.88	22.87		
40	QPSK	1	214	22.72	22.89	22.81		
40	QPSK	108	0	21.82	21.99	21.87	23.0	1.0
40	QPSK	108	54	22.73	22.91	22.88	24.0	0.0
40	QPSK	108	108	21.74	21.91	21.78	23.0	1.0
40	QPSK	216	0	21.86	21.96	21.82		
40	16QAM	1	1	22.09	22.31	22.19	23.0	1.0
40	64QAM	1	1	20.26	20.22	20.18	21.5	2.5
40	256QAM	1	1	18.19	18.32	18.29	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.73	22.84	22.76	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	22.74	22.89	22.71	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.74	22.85	22.68	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	22.92	22.78	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.77	22.90	22.89	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	22.73	22.87	22.68	24.0	0.0



n14 Ant0 DSI2

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				158600				
Frequency (MHz)				158600	1793			
10	PI2 BPSK	1	1	23.01			24.0	0.0
10	PI2 BPSK	1	26	22.96				
10	PI2 BPSK	1	50	22.89				
10	PI2 BPSK	25	0	22.49			23.5	0.5
10	PI2 BPSK	25	14	22.95			24.0	0.0
10	PI2 BPSK	50	27	22.47			23.5	0.5
10	PI2 BPSK	50	0	22.53				
10	QPSK	1	1	23.05			24.0	0.0
10	QPSK	1	26	23.00				
10	QPSK	1	50	22.95				
10	QPSK	25	0	21.97			23.0	1.0
10	QPSK	25	14	22.58			24.0	0.0
10	QPSK	25	27	21.97			23.0	1.0
10	QPSK	50	0	22.04			23.0	1.0
10	16QAM	1	1	22.23			23.0	1.0
10	64QAM	1	1	20.72			21.5	2.5
10	256QAM	1	1	18.36			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				158100	1793	1793.5	24.0	0.0
5	QPSK	1	1	22.98	22.99	22.91	24.0	0.0

n66 Ant0 DSI2

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				
Frequency (MHz)				346000	346000	350000		
40	PI2 BPSK	1	1	22.90	23.07	23.04	24.0	0.0
40	PI2 BPSK	1	108	22.87	22.99	22.87		
40	PI2 BPSK	1	214	22.87	22.93	22.85		
40	PI2 BPSK	108	0	22.36	22.44	22.37	23.5	0.5
40	PI2 BPSK	108	54	22.83	22.91	22.82	24.0	0.0
40	PI2 BPSK	108	108	22.36	22.49	22.40	23.5	0.5
40	PI2 BPSK	216	0	22.40	22.55	22.43		
40	QPSK	1	1	22.96	23.10	22.94	24.0	0.0
40	QPSK	1	108	22.83	23.06	22.86		
40	QPSK	1	214	22.88	23.00	22.90		
40	QPSK	108	0	21.82	21.99	21.96	23.0	1.0
40	QPSK	108	54	22.91	22.93	22.90	24.0	0.0
40	QPSK	108	108	21.80	22.02	21.88	23.0	1.0
40	QPSK	216	0	22.03	22.06	22.02		
40	16QAM	1	1	21.66	21.79	21.67	23.0	1.0
40	64QAM	1	1	20.45	20.55	20.45	21.5	2.5
40	256QAM	1	1	18.19	18.31	18.21	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				345000	3745	3762	24.0	0.0
30	QPSK	1	1	22.88	23.03	22.82	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				344000	1745	1770		
20	QPSK	1	1	22.82	22.97	22.82	24.0	0.0
Channel				343000	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				343000	1745	1772.5		
15	QPSK	1	1	22.84	22.99	22.88	24.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				343000	1745	1775		
10	QPSK	1	1	22.82	22.98	22.80	24.0	0.0
Channel				342500	349000	350500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				342500	1745	1777.5		
5	QPSK	1	1	22.84	23.00	22.83	24.0	0.0

n71 Ant0 DSI2

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				134600				
Frequency (MHz)				134600	136100	137600		
20	PI2 BPSK	1	1	23.03	23.06	23.00	24.0	0.0
20	PI2 BPSK	1	53	22.92	23.02	22.91		
20	PI2 BPSK	1	104	22.94	22.97	22.83		
20	PI2 BPSK	50	0	22.44	22.49	22.36	23.5	0.5
20	PI2 BPSK	50	28	22.91	23.01	22.88	24.0	0.0
20	PI2 BPSK	50	56	22.30	22.41	22.29	23.5	0.5
20	PI2 BPSK	100	0	22.35	22.49	22.42		
20	QPSK	1	1	23.05	23.11	23.07	24.0	0.0
20	QPSK	1	53	23.02	23.07	23.03		
20	QPSK	1	104	22.91	22.95	22.88		
20	QPSK	50	0	21.96	22.04	21.92	23.0	1.0
20	QPSK	50	28	22.99	23.05	22.93	24.0	0.0
20	QPSK	50	56	21.92	21.96	21.88	23.0	1.0
20	QPSK	100	0	21.96	22.02	21.89		
20	16QAM	1	1	22.25	22.36	22.23	23.0	1.0
20	64QAM	1	1	20.27	20.39	20.31	21.5	2.5
20	256QAM	1	1	18.63	18.74	18.69	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				134100	660.5	660.5	24.0	0.0
15	QPSK	1	1	23.01	23.05	22.93	24.0	0.0
Channel				133800	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				133800	668	693		
10	QPSK	1	1	22.91	23.07	22.94	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				133100	695.5	695.5	24.0	0.0
5	QPSK	1	1	22.91	22.98	22.95	24.0	0.0



n41 PC3 Ant0 DSI2									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.46	22.47	22.51			
100	PI2 BPSK	1	137	22.39	22.51	22.55	24.0	0.0	
100	PI2 BPSK	1	271	22.54	22.50	22.42			
100	PI2 BPSK	135	0	21.85	21.93	21.85	23.5	0.5	
100	PI2 BPSK	135	69	22.50	22.53	22.44	24.0	0.0	
100	PI2 BPSK	135	138	21.74	21.98	21.88	23.5	0.5	
100	PI2 BPSK	270	0	22.00	21.83	21.82			
100	QPSK	1	1	22.59	22.63	22.47			
100	QPSK	1	137	22.37	22.43	22.36	24.0	0.0	
100	QPSK	1	271	22.51	22.58	22.50			
100	QPSK	135	0	21.32	21.35	21.26	23.0	1.0	
100	QPSK	135	69	22.52	22.61	22.45	24.0	0.0	
100	QPSK	135	138	21.36	21.41	21.28	23.0	1.0	
100	QPSK	270	0	21.33	21.40	21.31			
100	16QAM	1	1	21.39	21.40	21.31	23.0	1.0	
100	16QAM	1	1	19.92	19.81	19.71	21.5	2.5	
100	256QAM	1	1	18.21	18.16	18.19	19.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.52	22.51	22.38	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.53	22.59	22.36	24.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	24.0	0.0	
70	QPSK	1	1	22.54	22.57	22.36	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.48	22.54	22.43	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.45	22.48	22.39	24.0	0.0	
Channel				502002	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.52	22.50	22.38	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	22.52	22.49	22.44	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.51	22.55	22.35	24.0	0.0	

n41 PC2 Ant0 DSI2									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.45	25.53	25.47			
100	PI2 BPSK	1	137	25.37	25.49	25.36	26.0	0.0	
100	PI2 BPSK	1	271	25.30	25.44	25.32			
100	PI2 BPSK	135	0	24.92	24.97	24.85	25.5	0.5	
100	PI2 BPSK	135	69	25.37	25.47	25.38	26.0	0.0	
100	PI2 BPSK	135	138	24.95	25.05	25.00	25.5	0.5	
100	PI2 BPSK	270	0	24.98	25.09	24.88			
100	QPSK	1	1	25.48	25.57	25.53			
100	QPSK	1	137	25.43	25.52	25.43	26.0	0.0	
100	QPSK	1	271	25.41	25.46	25.41			
100	QPSK	135	0	24.46	24.51	24.37	25.0	1.0	
100	QPSK	135	69	25.43	25.54	25.40	26.0	0.0	
100	QPSK	135	138	24.37	24.45	24.42	25.0	1.0	
100	QPSK	270	0	24.39	24.52	24.48			
100	16QAM	1	1	24.21	24.25	24.21	25.0	1.0	
100	16QAM	1	1	21.73	21.85	21.80	23.5	2.5	
100	256QAM	1	1	19.60	19.64	19.51	21.5	4.5	
Channel				502000	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	25.43	25.48	25.41	26.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	25.43	25.47	25.46	26.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	24.0	0.0	
70	QPSK	1	1	25.34	25.53	25.46	26.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	25.38	25.46	25.43	26.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	25.38	25.49	25.48	26.0	0.0	
Channel				502002	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	25.36	25.43	25.38	26.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	25.42	25.44	25.41	26.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	25.44	25.52	25.38	26.0	0.0	



n2 Ant1 DSI2

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								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	15.37	15.45	15.41		
20	PI2 BPSK	1	53	15.19	15.34	15.20	16.8	0.0
20	PI2 BPSK	1	104	15.31	15.37	15.22		
20	PI2 BPSK	50	0	15.24	15.34	15.30	16.8	0.0
20	PI2 BPSK	50	28	15.32	15.39	15.29	16.8	0.0
20	PI2 BPSK	50	58	15.15	15.24	15.11	16.8	0.0
20	PI2 BPSK	100	0	15.25	15.29	15.18		
20	QPSK	1	1	15.41	15.50	15.36		
20	QPSK	1	53	15.36	15.39	15.25	16.8	0.0
20	QPSK	1	104	15.25	15.34	15.27		
20	QPSK	50	0	15.29	15.38	15.35	16.8	0.0
20	QPSK	50	28	15.36	15.42	15.33	16.8	0.0
20	QPSK	50	58	15.21	15.32	15.20	16.8	0.0
20	QPSK	100	0	15.24	15.35	15.26		
20	16QAM	1	1	15.25	15.33	15.21	16.8	0.0
20	16QAM	1	1	15.29	15.35	15.30	16.8	0.0
20	256QAM	1	1	15.23	15.37	15.25	16.8	0.0
Channel								
Frequency (MHz)				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.26	15.42	15.26	16.8	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.33	15.45	15.23	16.8	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	1852.5	1860	1907.5	16.8	0.0

n5 Ant1 DSI2

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								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	20.04	20.23	20.14		
20	PI2 BPSK	1	53	20.10	20.15	20.10	21.3	0.0
20	PI2 BPSK	1	104	20.02	20.15	20.04		
20	PI2 BPSK	50	0	20.11	20.20	20.09	21.3	0.0
20	PI2 BPSK	50	28	20.09	20.13	19.99	21.3	0.0
20	PI2 BPSK	50	58	19.98	20.08	19.93	21.3	0.0
20	PI2 BPSK	100	0	20.06	20.10	19.99		
20	QPSK	1	1	20.15	20.26	20.18		
20	QPSK	1	53	20.03	20.17	20.07	21.3	0.0
20	QPSK	1	104	20.15	20.19	20.07		
20	QPSK	50	0	19.96	20.10	20.03	21.3	0.0
20	QPSK	50	28	20.12	20.17	20.11	21.3	0.0
20	QPSK	50	58	19.92	20.06	19.95	21.3	0.0
20	QPSK	100	0	19.98	20.11	19.97		
20	16QAM	1	1	19.98	20.06	19.95	21.3	0.0
20	16QAM	1	1	19.96	20.02	19.88	21.3	0.0
20	256QAM	1	1	18.41	18.48	18.44	19.5	1.8
Channel								
Frequency (MHz)				165300	167000	168500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.04	20.23	20.14	21.3	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.08	20.16	20.04	21.3	0.0
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.08	20.19	20.12	21.3	0.0

n7 Ant1 DSI2

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								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	14.81	14.88	14.75		
40	PI2 BPSK	1	108	14.67	14.80	14.70	15.9	0.0
40	PI2 BPSK	1	214	14.80	14.73	14.81		
40	PI2 BPSK	108	0	14.73	14.81	14.74	15.9	0.0
40	PI2 BPSK	108	54	14.82	14.87	14.80	15.9	0.0
40	PI2 BPSK	108	108	14.68	14.78	14.70	15.9	0.0
40	PI2 BPSK	216	0	14.73	14.82	14.73		
40	QPSK	1	1	14.87	14.93	14.82		
40	QPSK	1	108	14.79	14.85	14.70	15.9	0.0
40	QPSK	1	214	14.74	14.87	14.76		
40	QPSK	108	0	14.82	14.88	14.80	15.9	0.0
40	QPSK	108	54	14.87	14.91	14.80	15.9	0.0
40	QPSK	108	108	14.71	14.73	14.80	15.9	0.0
40	QPSK	216	0	14.69	14.75	14.66		
40	16QAM	1	1	14.82	14.70	14.57	15.9	0.0
40	16QAM	1	1	14.80	14.88	14.59	15.9	0.0
40	256QAM	1	1	14.58	14.66	14.82	15.9	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.75	14.81	14.75	15.9	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	2512.5	2535	2557.5	15.9	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	14.84	14.90	14.68	15.9	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.83	14.89	14.72	15.9	0.0
Channel								
Frequency (MHz)				2905	2935	2965	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.81	14.86	14.87	15.9	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	2502.5	2535	2567.5	15.9	0.0



n66 Ant1 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	16.48	16.56	16.53	
40	PI2 BPSK	1	168	16.37	16.53	16.38	0.0
40	PI2 BPSK	1	214	16.43	16.52	16.32	
40	PI2 BPSK	108	0	16.40	16.47	16.41	17.5 0.0
40	PI2 BPSK	108	54	16.46	16.49	16.40	17.5 0.0
40	PI2 BPSK	108	108	16.25	16.34	16.33	17.5 0.0
40	PI2 BPSK	216	0	16.30	16.37	16.37	
40	QPSK	1	1	16.57	16.64	16.48	
40	QPSK	1	108	16.47	16.60	16.46	17.5 0.0
40	QPSK	1	214	16.38	16.48	16.33	
40	QPSK	108	0	16.44	16.45	16.35	17.5 0.0
40	QPSK	108	54	16.45	16.56	16.43	17.5 0.0
40	QPSK	108	108	16.44	16.47	16.38	
40	QPSK	216	0	16.47	16.51	16.48	17.5 0.0
40	16QAM	1	1	16.23	16.33	16.29	17.5 0.0
40	64QAM	1	1	16.45	16.49	16.37	17.5 0.0
40	256QAM	1	1	16.39	16.50	16.42	17.5 0.0
Channel				345000	349000	353000	Tune-up limit (dBm) MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	16.46	16.54	16.38	17.5 0.0
Channel				344000	349000	354000	Tune-up limit (dB) MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	16.47	16.51	16.37	17.5 0.0
Channel				343500	349000	354500	Tune-up limit (dB) MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	16.50	16.57	16.42	17.5 0.0
Channel				343000	349000	355000	Tune-up limit (dB) MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	16.47	16.56	16.37	17.5 0.0
Channel				342500	349000	355500	Tune-up limit (dB) MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	16.49	16.59	16.38	17.5 0.0

n71 Ant1 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				136000	136100	136200	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	20.54	20.59	20.50	
20	PI2 BPSK	1	53	20.43	20.52	20.37	21.7 0.0
20	PI2 BPSK	1	104	20.40	20.48	20.34	
20	PI2 BPSK	50	0	20.54	20.67	20.61	21.7 0.0
20	PI2 BPSK	50	28	20.55	20.61	20.52	21.7 0.0
20	PI2 BPSK	50	56	20.48	20.54	20.43	21.7 0.0
20	PI2 BPSK	100	0	20.46	20.55	20.44	
20	QPSK	1	1	20.54	20.76	20.66	
20	QPSK	1	53	20.47	20.56	20.42	21.7 0.0
20	QPSK	1	104	20.46	20.51	20.39	
20	QPSK	50	0	20.56	20.62	20.49	21.7 0.0
20	QPSK	50	28	20.59	20.63	20.55	21.7 0.0
20	QPSK	50	56	20.47	20.51	20.44	
20	QPSK	100	0	20.53	20.58	20.44	21.7 0.0
20	16QAM	1	1	20.50	20.53	20.47	21.7 0.0
20	64QAM	1	1	20.25	20.34	20.21	21.5 0.2
20	256QAM	1	1	18.53	18.83	18.58	19.5 2.2
Channel				134100	136100	138100	Tune-up limit (dBm) MPR
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	20.53	20.59	20.60	21.7 0.0
Channel				133600	136100	138600	Tune-up limit (dB) MPR
Frequency (MHz)				668	680.5	692	
10	QPSK	1	1	20.51	20.62	20.54	21.7 0.0
Channel				133100	136100	139100	Tune-up limit (dB) MPR
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	20.57	20.65	20.57	21.7 0.0



n41 Ant1 PC3 DSI2									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	14.38	14.50	14.22			
100	PI2 BPSK	1	137	14.30	14.37	14.15	15.7	0.0	
100	PI2 BPSK	1	271	14.08	14.34	14.31			
100	PI2 BPSK	135	0	14.38	14.44	14.30	15.7	0.0	
100	PI2 BPSK	135	69	14.25	14.38	14.23	15.7	0.0	
100	PI2 BPSK	135	138	14.12	14.25	14.23	15.7	0.0	
100	PI2 BPSK	270	0	14.38	14.49	14.24			
100	QPSK	1	1	14.43	14.55	14.35			
100	QPSK	1	137	14.38	14.43	14.28	15.7	0.0	
100	QPSK	1	271	14.18	14.38	14.34			
100	QPSK	135	0	14.39	14.33	14.30	15.7	0.0	
100	QPSK	135	69	14.40	14.48	14.33	15.7	0.0	
100	QPSK	135	138	14.07	14.29	14.32	15.7	0.0	
100	QPSK	270	0	14.38	14.45	14.22			
100	16QAM	1	1	14.35	14.38	14.19	15.7	0.0	
100	16QAM	1	1	14.12	14.27	14.25	15.7	0.0	
100	256QAM	1	1	14.15	14.34	14.31	15.7	0.0	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.34	14.43	14.19	15.7	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	14.20	14.40	14.20	15.7	0.0	
Channel				503202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	14.35	14.39	14.24	15.7	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	14.37	14.47	14.26	15.7	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.33	14.45	14.23	15.7	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.38	14.51	14.27	15.7	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	14.27	14.44	14.26	15.7	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.31	14.43	14.23	15.7	0.0	

n41 Ant 1 PC2 DSI2									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.38	17.46	17.16			
100	PI2 BPSK	1	137	17.33	17.38	17.11	18.7	0.0	
100	PI2 BPSK	1	271	17.07	17.33	17.34			
100	PI2 BPSK	135	0	17.33	17.45	17.33	18.7	0.0	
100	PI2 BPSK	135	69	17.23	17.33	17.19	18.7	0.0	
100	PI2 BPSK	135	138	17.14	17.24	17.23	18.7	0.0	
100	PI2 BPSK	270	0	17.33	17.45	17.29			
100	QPSK	1	1	17.45	17.51	17.36			
100	QPSK	1	137	17.32	17.45	17.25	18.7	0.0	
100	QPSK	1	271	17.22	17.40	17.28			
100	QPSK	135	0	17.38	17.35	17.32	18.7	0.0	
100	QPSK	135	69	17.44	17.47	17.38	18.7	0.0	
100	QPSK	135	138	17.07	17.23	17.27	18.7	0.0	
100	QPSK	270	0	17.37	17.49	17.21			
100	16QAM	1	1	17.40	17.38	17.15	18.7	0.0	
100	16QAM	1	1	17.07	17.32	17.29	18.7	0.0	
100	256QAM	1	1	17.16	17.35	17.33	18.7	0.0	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.37	17.40	17.27	18.7	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	17.27	17.43	17.20	18.7	0.0	
Channel				503202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	17.35	17.42	17.22	18.7	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	17.40	17.43	17.17	18.7	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.35	17.43	17.17	18.7	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.34	17.38	17.22	18.7	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	17.24	17.42	17.22	18.7	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.41	17.45	17.19	18.7	0.0	



n41 PC3 Ant2 DSI2

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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	16.31	16.34	16.28		
100	PI2 BPSK	1	137	16.04	16.24	16.09	17.4	0.0
100	PI2 BPSK	1	271	16.27	16.29	16.17		
100	PI2 BPSK	135	0	16.29	16.44	16.29	17.4	0.0
100	PI2 BPSK	135	69	16.04	16.30	16.16	17.4	0.0
100	PI2 BPSK	135	138	16.26	16.36	16.14	17.4	0.0
100	PI2 BPSK	270	0	16.22	16.30	16.08		
100	QPSK	1	1	16.37	16.47	16.33		
100	QPSK	1	137	16.15	16.32	16.21	17.4	0.0
100	QPSK	1	271	16.32	16.41	16.21		
100	QPSK	135	0	16.15	16.28	16.11	17.4	0.0
100	QPSK	135	69	16.27	16.33	16.26	17.4	0.0
100	QPSK	135	138	16.24	16.31	16.13	17.4	0.0
100	QPSK	270	0	16.18	16.25	16.07		
100	16QAM	1	1	16.27	16.41	16.24	17.4	0.0
100	16QAM	1	1	16.06	16.28	16.16	17.4	0.0
100	256QAM	1	1	16.26	16.34	16.07	17.4	0.0
Channel								
Frequency (MHz)				50320	51858	53396		
90	QPSK	1	1	16.32	16.41	16.19	17.4	0.0
Channel								
Frequency (MHz)				507204	518598	529986		
80	QPSK	1	1	16.27	16.40	16.18	17.4	0.0
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	16.26	16.41	16.25	17.4	0.0
Channel								
Frequency (MHz)				505200	518598	531996		
60	QPSK	1	1	16.29	16.34	16.28	17.4	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	16.30	16.41	16.21	17.4	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.30	16.35	16.22	17.4	0.0
Channel								
Frequency (MHz)				502200	518598	534996		
30	QPSK	1	1	16.31	16.43	16.23	17.4	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	16.31	16.43	16.19	17.4	0.0

n41 PC2 Ant2 DSI2

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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.19	19.28	19.11		
100	PI2 BPSK	1	137	18.91	19.10	19.01	20.4	0.0
100	PI2 BPSK	1	271	19.13	19.16	19.03		
100	PI2 BPSK	135	0	19.24	19.34	19.18	20.4	0.0
100	PI2 BPSK	135	69	18.92	19.25	19.07	20.4	0.0
100	PI2 BPSK	135	138	19.16	19.23	19.03	20.4	0.0
100	PI2 BPSK	270	0	19.13	19.19	18.95		
100	QPSK	1	1	19.22	19.46	19.18		
100	QPSK	1	137	19.11	19.27	19.08	20.4	0.0
100	QPSK	1	271	19.23	19.31	19.09		
100	QPSK	135	0	19.03	19.20	18.98	20.4	0.0
100	QPSK	135	69	19.21	19.27	19.21	20.4	0.0
100	QPSK	135	138	19.06	19.22	19.06	20.4	0.0
100	QPSK	270	0	19.04	19.05	18.96		
100	16QAM	1	1	19.14	19.33	19.09	20.4	0.0
100	16QAM	1	1	18.97	19.23	19.02	20.4	0.0
100	256QAM	1	1	19.19	19.28	18.99	20.4	0.0
Channel								
Frequency (MHz)				505200	518598	533996		
90	QPSK	1	1	19.04	19.27	18.99	20.4	0.0
Channel								
Frequency (MHz)				507204	518598	529986		
80	QPSK	1	1	19.07	19.27	19.01	20.4	0.0
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	19.02	19.19	19.07	20.4	0.0
Channel								
Frequency (MHz)				505200	518598	531996		
60	QPSK	1	1	19.11	19.23	19.04	20.4	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	19.10	19.25	19.07	20.4	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.08	19.25	19.05	20.4	0.0
Channel								
Frequency (MHz)				502200	518598	534996		
30	QPSK	1	1	19.02	19.20	18.99	20.4	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	19.09	19.19	19.04	20.4	0.0

n48 Part96 Ant2 DSI2

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								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	12.64	12.70	12.53		
40	PI2 BPSK	1	53	12.46	12.64	12.49	13.8	0.0
40	PI2 BPSK	1	104	12.51	12.57	12.46		
40	PI2 BPSK	50	0	12.55	12.68	12.46	13.8	0.0
40	PI2 BPSK	50	28	12.59	12.68	12.56	13.8	0.0
40	PI2 BPSK	50	56	12.47	12.59	12.47	13.8	0.0
40	PI2 BPSK	100	0	12.49	12.66	12.55		
40	QPSK	1	1	12.73	12.78	12.68		
40	QPSK	1	53	12.58	12.72	12.53	13.8	0.0
40	QPSK	1	104	12.61	12.70	12.61		
40	QPSK	50	0	12.58	12.59	12.40	13.8	0.0
40	QPSK	50	28	12.61	12.76	12.64	13.8	0.0
40	QPSK	50	56	12.50	12.59	12.54	13.8	0.0
40	QPSK	100	0	12.43	12.56	12.47		
40	16QAM	1	1	12.62	12.68	12.50	13.8	0.0
40	16QAM	1	1	12.61	12.55	12.49	13.8	0.0
40	256QAM	1	1	12.46	12.48	12.49	13.8	0.0
Channel								
Frequency (MHz)				637334	641666	646000		
30	QPSK	1	1	12.68	12.63	12.57	13.8	0.0
Channel								
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	12.67	12.70	12.54	13.8	0.0



Part270 n77 PC3 Ant2 DSI2

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)								
100	PI2 BPSK	1	1	3760	3840	3930		
100	PI2 BPSK	1	137	12.85	12.59	12.50	13.3	0.0
100	PI2 BPSK	1	271	12.45	12.61	12.45		
100	PI2 BPSK	135	0	12.50	12.50	12.51	13.3	0.0
100	PI2 BPSK	135	69	12.44	12.44	12.44	13.3	0.0
100	PI2 BPSK	135	138	12.51	12.53	12.48	13.3	0.0
100	PI2 BPSK	270	0	12.50	12.56	12.49		
100	QPSK	1	1	12.85	12.68	12.89		
100	QPSK	1	137	12.47	12.53	12.48	13.3	0.0
100	QPSK	1	271	12.49	12.46	12.33		
100	QPSK	135	0	12.34	12.52	12.38	13.3	0.0
100	QPSK	135	69	12.56	12.64	12.55	13.3	0.0
100	QPSK	135	138	12.29	12.42	12.42	13.3	0.0
100	QPSK	270	0	12.43	12.45	12.35		
100	16QAM	1	1	12.36	12.55	12.52	13.3	0.0
100	16QAM	1	1	12.34	12.44	12.42	13.3	0.0
100	256QAM	1	1	12.25	12.38	12.30	13.3	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.02	3840	3935.01		
80	QPSK	1	1	12.59	12.62	12.53	13.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.57	12.60	12.49	13.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3735	3840	3945		
40	QPSK	1	1	12.58	12.61	12.49	13.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.85	12.55	12.54	13.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	3725.01	3840	3955.02		
10	QPSK	1	1	12.61	12.54	12.55	13.3	0.0

Part270 n77 PC2 Ant2 DSI2

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)								
100	PI2 BPSK	1	1	3760	3840	3930		
100	PI2 BPSK	1	137	15.65	15.54	15.54	16.3	0.0
100	PI2 BPSK	1	271	15.47	15.49	15.44		
100	PI2 BPSK	135	0	15.57	15.47	15.46	16.3	0.0
100	PI2 BPSK	135	69	15.42	15.48	15.43	16.3	0.0
100	PI2 BPSK	135	138	15.47	15.52	15.45	16.3	0.0
100	PI2 BPSK	270	0	15.47	15.62	15.46		
100	QPSK	1	1	15.61	15.65	15.56		
100	QPSK	1	137	15.49	15.51	15.44	16.3	0.0
100	QPSK	1	271	15.61	15.45	15.31		
100	QPSK	135	0	15.29	15.57	15.43	16.3	0.0
100	QPSK	135	69	15.52	15.58	15.56	16.3	0.0
100	QPSK	135	138	15.27	15.40	15.47	16.3	0.0
100	QPSK	270	0	15.42	15.54	15.34		
100	16QAM	1	1	15.38	15.62	15.50	16.3	0.0
100	16QAM	1	1	15.39	15.47	15.44	16.3	0.0
100	256QAM	1	1	15.22	15.39	15.28	16.3	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3749.01	3840	3940.02		
80	QPSK	1	1	15.47	15.57	15.50	16.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3735	3840	3945		
60	QPSK	1	1	15.48	15.57	15.46	16.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3729.02	3840	3950.01		
40	QPSK	1	1	15.65	15.54	15.45	16.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3725.01	3840	3955.02		
20	QPSK	1	1	15.48	15.55	15.47	16.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	3720	3840	3960		
10	QPSK	1	1	15.48	15.61	15.46	16.3	0.0

Part27Q n77 PC3 Ant2 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 630000	Power High Ch. / Freq. 630000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01				
100	PI2 BPSK	1	137	12.84			13.3	0.0
100	PI2 BPSK	1	271	12.80				
100	PI2 BPSK	135	0	12.73			13.3	0.0
100	PI2 BPSK	135	69	12.67			13.3	0.0
100	PI2 BPSK	135	138	12.69			13.3	0.0
100	PI2 BPSK	270	0	12.83				
100	QPSK	1	1	12.89				
100	QPSK	1	137	12.74			13.3	0.0
100	QPSK	1	271	12.72				
100	QPSK	135	0	12.76			13.3	0.0
100	QPSK	135	69	12.83			13.3	0.0
100	QPSK	135	138	12.85			13.3	0.0
100	QPSK	270	0	12.84				
100	16QAM	1	1	12.81			13.3	0.0
100	16QAM	1	1	12.83			13.3	0.0
100	256QAM	1	1	12.61			13.3	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3500.01	3505.02		
80	QPSK	1	1	12.76	12.83	12.84	13.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3485.01	3500.01	3515.01		
60	QPSK	1	1	12.88	12.85	12.85	13.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3480	3500.01	3505.02		
40	QPSK	1	1	12.80	12.76	12.84	13.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3475.02	3500.01	3525		
20	QPSK	1	1	12.76	12.79	12.85	13.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	3470.01	3500.01	3530.01		
10	QPSK	1	1	12.78	12.79	12.79	13.3	0.0



Part27Q n77 PC2 Ant2 DSI2

Table with 10 columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across different RB sizes and power levels.

Part27O n78 Ant2 DSI2

Table with 10 columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across different RB sizes and power levels.

Part27Q n78 Ant2 DSI2

Table with 10 columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across different RB sizes and power levels.



Part270 n77 PC3 Ant4 DSI2

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.09	14.15	14.06		
100	PI2 BPSK	1	137	13.99	14.06	14.01	15.2	0.0
100	PI2 BPSK	1	271	14.03	14.12	13.97		
100	PI2 BPSK	135	0	14.09	14.09	13.92	15.2	0.0
100	PI2 BPSK	135	69	13.91	13.92	13.82	15.2	0.0
100	PI2 BPSK	135	138	13.94	14.03	13.91	15.2	0.0
100	PI2 BPSK	270	0	14.06	14.14	13.93		
100	QPSK	1	1	14.10	14.18	14.05		
100	QPSK	1	137	13.99	14.12	14.08	15.2	0.0
100	QPSK	1	271	13.84	13.85	13.87		
100	QPSK	135	0	13.96	14.07	13.97	15.2	0.0
100	QPSK	135	69	13.96	14.04	14.00	15.2	0.0
100	QPSK	135	138	13.83	13.91	13.92	15.2	0.0
100	QPSK	270	0	13.93	13.96	13.84		
100	16QAM	1	1	13.89	13.99	13.87	15.2	0.0
100	16QAM	1	1	13.80	13.93	13.84	15.2	0.0
100	256QAM	1	1	13.72	13.86	13.92	15.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.01	14.09	13.96	15.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.99	14.13	13.96	15.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.04	14.06	13.99	15.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.00	14.05	13.99	15.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.96	14.09	14.00	15.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.98	14.11	14.00	15.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.03	14.14	13.91	15.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.99	14.03	14.01	15.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.04	14.12	14.00	15.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.00	14.08	13.92	15.2	0.0

Part270 n77 PC2 Ant4 DSI2

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.08	17.16	17.13		
100	PI2 BPSK	1	137	17.02	17.10	17.06	18.2	0.0
100	PI2 BPSK	1	271	17.00	17.08	16.98		
100	PI2 BPSK	135	0	17.14	17.08	16.92	18.2	0.0
100	PI2 BPSK	135	69	16.98	16.90	16.85	18.2	0.0
100	PI2 BPSK	135	138	16.95	17.05	16.92	18.2	0.0
100	PI2 BPSK	270	0	17.15	17.09	16.92		
100	QPSK	1	1	17.11	17.24	17.02		
100	QPSK	1	137	16.96	17.12	17.08	18.2	0.0
100	QPSK	1	271	16.90	16.97	16.88		
100	QPSK	135	0	16.96	17.05	16.93	18.2	0.0
100	QPSK	135	69	16.94	17.10	17.06	18.2	0.0
100	QPSK	135	138	16.84	16.91	16.82	18.2	0.0
100	QPSK	270	0	16.92	16.94	16.89		
100	16QAM	1	1	16.88	16.98	16.83	18.2	0.0
100	16QAM	1	1	16.77	16.99	16.85	18.2	0.0
100	256QAM	1	1	16.73	16.82	16.89	18.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.05	17.10	16.94	18.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.07	17.15	16.99	18.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.99	17.20	16.93	18.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.03	17.10	16.99	18.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.05	17.17	16.94	18.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.01	17.13	16.92	18.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.07	17.19	16.97	18.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.08	17.20	16.94	18.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.05	17.15	16.94	18.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.99	17.10	16.87	18.2	0.0

Part27Q n77 PC3 Ant4 DSI2

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								
Frequency (MHz)								
100	PI2 BPSK	1	1			14.09		
100	PI2 BPSK	1	137			14.01	15.2	0.0
100	PI2 BPSK	1	271			13.92		
100	PI2 BPSK	135	0			14.06	15.2	0.0
100	PI2 BPSK	135	69			13.94	15.2	0.0
100	PI2 BPSK	135	138			13.85	15.2	0.0
100	PI2 BPSK	270	0			14.06		
100	QPSK	1	1			14.11		
100	QPSK	1	137			13.99	15.2	0.0
100	QPSK	1	271			13.82		
100	QPSK	135	0			13.89	15.2	0.0
100	QPSK	135	69			13.95	15.2	0.0
100	QPSK	135	138			13.77	15.2	0.0
100	QPSK	270	0			13.90		
100	16QAM	1	1			13.85	15.2	0.0
100	16QAM	1	1			13.81	15.2	0.0
100	256QAM	1	1			13.76	15.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.97	14.05	13.98	15.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.01	13.96	14.05	15.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.99	14.00	13.95	15.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.03	14.05	13.97	15.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.00	14.02	14.05	15.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.97	13.99	13.97	15.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.07	13.98	14.03	15.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.08	14.02	14.04	15.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.03	14.04	14.02	15.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.02	14.07	14.03	15.2	0.0



Part27O n77 PC3 Ant5 DS12

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	137	13.28	13.41	13.33		
100	PI2 BPSK	1	137	13.29	13.36	13.33	14.5	0.0
100	PI2 BPSK	1	271	13.09	13.23	13.07		
100	PI2 BPSK	135	0	13.36	13.40	13.37	14.5	0.0
100	PI2 BPSK	135	69	13.30	13.33	13.34	14.5	0.0
100	PI2 BPSK	135	138	13.27	13.35	13.27	14.5	0.0
100	PI2 BPSK	270	0	13.27	13.46	13.27		
100	QPSK	1	1	13.42	13.50	13.34		
100	QPSK	1	137	13.30	13.37	13.31	14.5	0.0
100	QPSK	1	271	13.07	13.29	13.14		
100	QPSK	135	0	13.28	13.34	13.35	14.5	0.0
100	QPSK	135	69	13.37	13.43	13.32	14.5	0.0
100	QPSK	135	138	13.21	13.30	13.35	14.5	0.0
100	QPSK	270	0	13.29	13.32	13.26		
100	16QAM	1	1	13.28	13.27	13.27	14.5	0.0
100	16QAM	1	1	13.19	13.28	13.24	14.5	0.0
100	256QAM	1	1	13.25	13.32	13.24	14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	645998	650000	662834	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.31	13.44	13.27	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.29	13.42	13.19	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.33	13.39	13.29	14.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	13.30	13.37	13.31	14.5	0.0

Part27O n77 PC2 Ant5 DS12

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.26	16.37	16.35		
100	PI2 BPSK	1	137	16.33	16.37	16.36	17.5	0.0
100	PI2 BPSK	1	271	16.06	16.29	16.08		
100	PI2 BPSK	135	0	16.33	16.40	16.44	17.5	0.0
100	PI2 BPSK	135	69	16.26	16.34	16.34	17.5	0.0
100	PI2 BPSK	135	138	16.26	16.34	16.28	17.5	0.0
100	PI2 BPSK	270	0	16.28	16.49	16.25		
100	QPSK	1	1	16.39	16.58	16.34		
100	QPSK	1	137	16.35	16.44	16.27	17.5	0.0
100	QPSK	1	271	16.13	16.30	16.10		
100	QPSK	135	0	16.34	16.34	16.39	17.5	0.0
100	QPSK	135	69	16.37	16.44	16.36	17.5	0.0
100	QPSK	135	138	16.22	16.26	16.34	17.5	0.0
100	QPSK	270	0	16.27	16.51	16.23		
100	16QAM	1	1	16.27	16.23	16.28	17.5	0.0
100	16QAM	1	1	16.21	16.32	16.24	17.5	0.0
100	256QAM	1	1	16.28	16.32	16.20	17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	648668	650000	662834	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.29	16.40	16.27	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.29	16.52	16.29	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648334	650000	663000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.35	16.42	16.19	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.30	16.45	16.20	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.35	16.47	16.21	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.30	16.46	16.25	17.5	0.0

Part27Q n77 PC3 Ant5 DS12

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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		13.59			
100	PI2 BPSK	1	137		13.55		14.5	0.0
100	PI2 BPSK	1	271		13.50			
100	PI2 BPSK	135	0		13.50		14.5	0.0
100	PI2 BPSK	135	69		13.59		14.5	0.0
100	PI2 BPSK	135	138		13.44		14.5	0.0
100	PI2 BPSK	270	0		13.60			
100	QPSK	1	1		13.71			
100	QPSK	1	137		13.57		14.5	0.0
100	QPSK	1	271		13.50			
100	QPSK	135	0		13.46		14.5	0.0
100	QPSK	135	69		13.62		14.5	0.0
100	QPSK	135	138		13.46		14.5	0.0
100	QPSK	270	0		13.54			
100	16QAM	1	1		13.50		14.5	0.0
100	16QAM	1	1		13.34		14.5	0.0
100	256QAM	1	1		13.41		14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	638000	633334	638888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495.02	3500.01	3510.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.57	13.59	13.63	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	638334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	3475.02	3500.01	3525.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.56	13.57	13.53	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	638334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.58	13.59	13.64	14.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	638334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	13.66	13.65	13.62	14.5	0.0



Part27Q n77 PC2 Ant5 DSI2

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								
Frequency (MHz)								
				3500.01				
100	Pi2 BPSK	1	1	16.64				
100	Pi2 BPSK	1	137	16.52			17.5	0.0
100	Pi2 BPSK	1	271	16.52				
100	Pi2 BPSK	135	0	16.47			17.5	0.0
100	Pi2 BPSK	135	69	16.57			17.5	0.0
100	Pi2 BPSK	135	138	16.41			17.5	0.0
100	Pi2 BPSK	270	0	16.67				
100	QPSK	1	1	16.69			17.5	0.0
100	QPSK	1	137	16.57				
100	QPSK	1	271	16.49			17.5	0.0
100	QPSK	135	0	16.42			17.5	0.0
100	QPSK	135	69	16.65			17.5	0.0
100	QPSK	135	138	16.42			17.5	0.0
100	QPSK	270	0	16.50				
100	16QAM	1	1	16.56			17.5	0.0
100	64QAM	1	1	16.30			17.5	0.0
100	256QAM	1	1	16.45			17.5	0.0
Channel								
Frequency (MHz)								
				633000	633334	633668		
90	QPSK	1	1	3495	3500.01	3505.02		
Channel								
Frequency (MHz)								
				632668	633334	634000		
80	QPSK	1	1	3462.02	3500.01	3510		
Channel								
Frequency (MHz)								
				632334	633334	634334		
70	QPSK	1	1	3465.01	3500.01	3515.01		
Channel								
Frequency (MHz)								
				631668	633334	635000		
60	QPSK	1	1	3475.02	3500.01	3525		
Channel								
Frequency (MHz)								
				631000	633334	634668		
50	QPSK	1	1	3470.01	3500.01	3530.01		
Channel								
Frequency (MHz)								
				630334	633334	633000		
40	QPSK	1	1	3465.02	3500.01	3540		
Channel								
Frequency (MHz)								
				629668	633334	632000		
30	QPSK	1	1	3460.02	3500.01	3540		
Channel								
Frequency (MHz)								
				629000	633334	631668		
20	QPSK	1	1	3455.01	3500.01	3545.01		
Channel								
Frequency (MHz)								
				628334	633334	631334		
15	QPSK	1	1	3450.01	3500.01	3545.01		
Channel								
Frequency (MHz)								
				627668	633334	631000		
10	QPSK	1	1	3445.01	3500.01	3545.01		

Part27O n78 Ant5 DSI2

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								
Frequency (MHz)								
				3750	3750	3750		
100	Pi2 BPSK	1	1	13.46				
100	Pi2 BPSK	1	137	13.42			14.5	0.0
100	Pi2 BPSK	1	271	13.35				
100	Pi2 BPSK	135	0	13.33			14.5	0.0
100	Pi2 BPSK	135	69	13.37			14.5	0.0
100	Pi2 BPSK	135	138	13.31			14.5	0.0
100	Pi2 BPSK	270	0	13.41				
100	QPSK	1	1	13.52			14.5	0.0
100	QPSK	1	137	13.47				
100	QPSK	1	271	13.32			14.5	0.0
100	QPSK	135	0	13.35			14.5	0.0
100	QPSK	135	69	13.49			14.5	0.0
100	QPSK	135	138	13.40			14.5	0.0
100	QPSK	270	0	13.44				
100	16QAM	1	1	13.33			14.5	0.0
100	64QAM	1	1	13.29			14.5	0.0
100	256QAM	1	1	13.25			14.5	0.0
Channel								
Frequency (MHz)								
				649668	650000	650334		
90	QPSK	1	1	3745.02	3750	3755.01		
Channel								
Frequency (MHz)								
				649334	650000	650668		
80	QPSK	1	1	3740.01	3750	3760.02		
Channel								
Frequency (MHz)								
				649000	650000	651000		
70	QPSK	1	1	3735	3750	3765		
Channel								
Frequency (MHz)								
				648668	650000	651334		
60	QPSK	1	1	3730.02	3750	3770.01		
Channel								
Frequency (MHz)								
				648334	650000	651668		
50	QPSK	1	1	3725.01	3750	3775.02		
Channel								
Frequency (MHz)								
				648000	650000	652000		
40	QPSK	1	1	3720	3750	3780		
Channel								
Frequency (MHz)								
				647668	650000	652334		
30	QPSK	1	1	3715.02	3750	3785.01		
Channel								
Frequency (MHz)								
				647334	650000	652668		
20	QPSK	1	1	3710.01	3750	3790.02		
Channel								
Frequency (MHz)								
				647000	650000	653000		
15	QPSK	1	1	3705	3750	3795		
Channel								
Frequency (MHz)								
				646668	650000	653334		
10	QPSK	1	1	3700	3750	3800		

Part27Q n78 Ant5 DSI2

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								
Frequency (MHz)								
				3500.01				
100	Pi2 BPSK	1	1	13.61				
100	Pi2 BPSK	1	137	13.55			14.5	0.0
100	Pi2 BPSK	1	271	13.42				
100	Pi2 BPSK	135	0	13.43			14.5	0.0
100	Pi2 BPSK	135	69	13.50			14.5	0.0
100	Pi2 BPSK	135	138	13.44			14.5	0.0
100	Pi2 BPSK	270	0	13.47				
100	QPSK	1	1	13.66			14.5	0.0
100	QPSK	1	137	13.63				
100	QPSK	1	271	13.48			14.5	0.0
100	QPSK	135	0	13.41			14.5	0.0
100	QPSK	135	69	13.56			14.5	0.0
100	QPSK	135	138	13.53			14.5	0.0
100	QPSK	270	0	13.58				
100	16QAM	1	1	13.47			14.5	0.0
100	64QAM	1	1	13.35			14.5	0.0
100	256QAM	1	1	13.41			14.5	0.0
Channel								
Frequency (MHz)								
				633000	633334	633668		
90	QPSK	1	1	3495	3500.01	3505.02		
Channel								
Frequency (MHz)								
				632668	633334	634000		
80	QPSK	1	1	3462.02	3500.01	3510		
Channel								
Frequency (MHz)								
				632334	633334	634334		
70	QPSK	1	1	3465.01	3500.01	3515.01		
Channel								
Frequency (MHz)								
				632000	633334	634668		
60	QPSK	1	1	3460.02	3500.01	3520.02		
Channel								
Frequency (MHz)								
				631668	633334	635000		
50	QPSK	1	1	3475.02	3500.01	3525		
Channel								
Frequency (MHz)								
				631334	633334	635334		
40	QPSK	1	1	3470.01	3500.01	3530.01		
Channel								
Frequency (MHz)								
				631000	633334	635668		
30	QPSK	1	1	3475.02	3500.01	3535.02		
Channel								
Frequency (MHz)								
				630668	633334	636000		
20	QPSK	1	1	3460.02	3500.01	3540		
Channel								
Frequency (MHz)								
				630334	633334	636334		
15	QPSK	1	1	3455.01	3500.01	3545.01		
Channel								
Frequency (MHz)								
				630000	633334	636668		
10	QPSK	1	1	3450.01	3500.01	3545.01		



n41 PC3 Ant7 DS12

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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.53	22.58	22.47	24.0	0.0
100	PI2 BPSK	1	137	22.44	22.49	22.41		
100	PI2 BPSK	1	271	22.27	22.40	22.27		
100	PI2 BPSK	135	0	21.82	21.96	21.80	23.5	0.5
100	PI2 BPSK	135	69	22.33	22.45	22.34	24.0	0.0
100	PI2 BPSK	135	138	21.86	21.97	21.90	23.5	0.5
100	PI2 BPSK	270	0	21.98	22.02	21.93		
100	QPSK	1	1	22.50	22.61	22.52		
100	QPSK	1	137	22.38	22.53	22.49	24.0	0.0
100	QPSK	1	271	22.38	22.46	22.37		
100	QPSK	135	0	21.38	21.44	21.34	23.0	1.0
100	QPSK	135	69	22.45	22.56	22.48	24.0	0.0
100	QPSK	135	138	21.34	21.41	21.34	23.0	1.0
100	QPSK	270	0	21.40	21.46	21.37		
100	16QAM	1	1	21.40	21.54	21.42	23.0	1.0
100	16QAM	1	1	19.82	19.93	19.80	21.5	2.5
100	256QAM	1	1	18.04	18.18	18.12	19.5	4.5
Channel								
Frequency (MHz)				30300	31898	33698		
90	QPSK	1	1	22.41	22.49	22.42	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	22.45	22.57	22.42	24.0	0.0
Channel								
Frequency (MHz)				509202	518598	531000		
70	QPSK	1	1	22.44	22.50	22.41	24.0	0.0
Channel								
Frequency (MHz)				503200	518598	531998		
60	QPSK	1	1	22.44	22.53	22.39	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	22.47	22.51	22.40	24.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.40	22.48	22.41	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	22.43	22.55	22.34	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	22.46	22.50	22.38	24.0	0.0

n41 PC2 Ant7 DS12

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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.53	25.58	25.46		
100	PI2 BPSK	1	137	25.40	25.54	25.42		
100	PI2 BPSK	1	271	25.36	25.48	25.45		
100	PI2 BPSK	135	0	24.71	24.85	24.75	26.5	0.5
100	PI2 BPSK	135	69	25.36	25.47	25.41	27.0	0.0
100	PI2 BPSK	135	138	24.74	24.83	24.72	26.5	0.5
100	PI2 BPSK	270	0	24.77	24.90	24.80		
100	QPSK	1	1	25.53	25.68	25.60		
100	QPSK	1	137	25.55	25.61	25.50	27.0	0.0
100	QPSK	1	271	25.48	25.56	25.44		
100	QPSK	135	0	24.44	24.49	24.39	26.0	1.0
100	QPSK	135	69	25.45	25.59	25.48	27.0	0.0
100	QPSK	135	138	24.38	24.41	24.37	26.0	1.0
100	QPSK	270	0	24.35	24.45	24.34		
100	16QAM	1	1	24.48	24.52	24.39	26.0	1.0
100	16QAM	1	1	22.56	22.56	22.65	24.5	2.5
100	256QAM	1	1	20.54	20.56	20.54	22.5	4.5
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.45	25.56	25.51	27.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	25.49	25.55	25.48	27.0	0.0
Channel								
Frequency (MHz)				509202	518598	531000		
70	QPSK	1	1	25.46	25.52	25.48	27.0	0.0
Channel								
Frequency (MHz)				503200	518598	531998		
60	QPSK	1	1	25.44	25.56	25.49	27.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	25.41	25.51	25.52	27.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.41	25.50	25.55	27.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	25.50	25.61	25.52	27.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	25.48	25.58	25.49	27.0	0.0

Part270 n77 PC3 Ant7 DS12

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								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.78	22.84	22.80		
100	PI2 BPSK	1	137	22.75	22.80	22.70		
100	PI2 BPSK	1	271	22.75	22.77	22.80		
100	PI2 BPSK	135	0	21.93	22.14	22.14	23.5	0.5
100	PI2 BPSK	135	69	22.51	22.54	22.48	24.0	0.0
100	PI2 BPSK	135	138	22.13	22.21	22.00	23.5	0.5
100	PI2 BPSK	270	0	22.07	22.23	22.09		
100	QPSK	1	1	22.77	22.86	22.75		
100	QPSK	1	137	22.68	22.69	22.63	24.0	0.0
100	QPSK	1	271	22.49	22.73	22.75		
100	QPSK	135	0	21.87	21.86	21.77	23.0	1.0
100	QPSK	135	69	22.69	22.77	22.63	24.0	0.0
100	QPSK	135	138	21.50	21.46	21.39	23.0	1.0
100	QPSK	270	0	21.57	21.65	21.48		
100	16QAM	1	1	21.84	21.84	21.89	23.0	1.0
100	16QAM	1	1	20.22	20.16	20.16	21.5	2.5
100	256QAM	1	1	17.78	17.77	17.72	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334		
90	QPSK	1	1	22.68	22.72	22.71	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	649668		
80	QPSK	1	1	22.73	22.80	22.71	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	649334		
70	QPSK	1	1	22.68	22.75	22.67	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	648334		
60	QPSK	1	1	22.68	22.72	22.67	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	648668		
50	QPSK	1	1	22.63	22.79	22.68	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.65	22.81	22.63	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	648334		
30	QPSK	1	1	22.72	22.76	22.69	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	646668		
20	QPSK	1	1	22.73	22.73	22.67	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	646334		
15	QPSK	1	1	22.67	22.75	22.68	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	646000		
10	QPSK	1	1	22.70	22.78	22.68	24.0	0.0



Part270 n77 PC2 Ant7 DSI2

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.73	25.88	25.85		
100	PI2 BPSK	1	137	25.71	25.76	25.75	27.0	0.0
100	PI2 BPSK	1	271	25.52	25.74	25.63		
100	PI2 BPSK	135	0	25.02	25.10	25.16	26.5	0.5
100	PI2 BPSK	135	69	25.50	25.62	25.58	27.0	0.0
100	PI2 BPSK	135	138	24.88	24.98	24.96	26.5	0.5
100	PI2 BPSK	270	0	24.96	25.24	25.15		
100	QPSK	1	1	25.76	25.91	25.81		
100	QPSK	1	137	25.55	25.83	25.64	27.0	0.0
100	QPSK	1	271	25.66	25.82	25.52		
100	QPSK	135	0	24.61	24.71	24.65	26.0	1.0
100	QPSK	135	69	25.76	25.82	25.75	27.0	0.0
100	QPSK	135	138	24.48	24.52	24.37	26.0	1.0
100	QPSK	270	0	24.82	24.72	24.55		
100	16QAM	1	1	24.66	24.84	24.75	26.0	1.0
100	16QAM	1	1	23.10	23.23	23.27	24.5	2.5
100	256QAM	1	1	20.80	21.11	20.89	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.61	25.80	25.68	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.72	25.77	25.67	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.61	25.79	25.76	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.72	25.83	25.71	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.65	25.80	25.74	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.68	25.83	25.73	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.69	25.86	25.79	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.68	25.84	25.73	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.64	25.81	25.77	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.71	25.80	25.77	27.0	0.0

Part27Q N77 PC3 Ant7 DSI2

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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		23.33		24.0	0.0
100	PI2 BPSK	1	271		23.34			
100	PI2 BPSK	135	0		22.84		23.5	0.5
100	PI2 BPSK	135	69		23.31		24.0	0.0
100	PI2 BPSK	135	138		22.81		23.5	0.5
100	PI2 BPSK	270	0		22.90			
100	QPSK	1	1		23.36			
100	QPSK	1	137		23.27		24.0	0.0
100	QPSK	1	271		23.31			
100	QPSK	135	0		22.38		23.0	1.0
100	QPSK	135	69		23.33		24.0	0.0
100	QPSK	135	138		22.27		23.0	1.0
100	QPSK	270	0		22.31			
100	16QAM	1	1		22.24		23.0	1.0
100	16QAM	1	1		20.85		21.5	2.5
100	256QAM	1	1		18.74		19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.27	23.36	23.29	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.32	23.35	23.33	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.27	23.34	23.30	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.30	23.32	23.25	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.30	23.25	23.24	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.33	23.28	23.30	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.36	23.33	23.29	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.29	23.24	23.32	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.30	23.27	23.31	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.27	23.35	23.27	24.0	0.0

Part27Q n77 PC2 Ant7 DSI2

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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		26.41		27.0	0.0
100	PI2 BPSK	1	271		26.32			
100	PI2 BPSK	135	0		25.91		26.5	0.5
100	PI2 BPSK	135	69		26.34		27.0	0.0
100	PI2 BPSK	135	138		25.84		26.5	0.5
100	PI2 BPSK	270	0		26.90			
100	QPSK	1	1		26.46			
100	QPSK	1	137		26.41		27.0	0.0
100	QPSK	1	271		26.31			
100	QPSK	135	0		25.50		26.0	1.0
100	QPSK	135	69		26.38		27.0	0.0
100	QPSK	135	138		25.40		26.0	1.0
100	QPSK	270	0		25.48			
100	16QAM	1	1		25.21		26.0	1.0
100	16QAM	1	1		23.94		24.5	2.5
100	256QAM	1	1		21.80		22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	26.39	26.42	26.34	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.35	26.41	26.36	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	26.38	26.38	26.35	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	26.39	26.33	26.42	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.34	26.45	26.35	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.35	26.38	26.40	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.39	26.34	26.36	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.40	26.44	26.45	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.43	26.42	26.34	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.44	26.37	26.35	27.0	0.0



Part27O n78 Ant 7 DSI2									
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	PI2 BPSK	1	1		22.83				
100	PI2 BPSK	1	137		22.70			0.0	
100	PI2 BPSK	1	271		22.71				
100	PI2 BPSK	135	0		22.11		23.5	0.5	
100	PI2 BPSK	135	69		22.52		24.0	0.0	
100	PI2 BPSK	135	138		21.93		23.5	0.5	
100	PI2 BPSK	270	0		22.05				
100	QPSK	1	1		22.38				
100	QPSK	1	137		22.56		24.0	0.0	
100	QPSK	1	271		22.86				
100	QPSK	135	0		21.85		23.0	1.0	
100	QPSK	135	69		22.81		24.0	0.0	
100	QPSK	135	138		21.44		23.0	1.0	
100	QPSK	270	0		21.55				
100	16QAM	1	1		21.83		23.0	1.0	
100	64QAM	1	1		20.06		21.5	2.5	
100	256QAM	1	1		17.63		19.5	4.5	
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.77	22.80	22.78	24.0	0.0
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.76	22.70	22.85	24.0	0.0
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.82	22.83	22.76	24.0	0.0
Channel									
Frequency (MHz)				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3750.01			
60	QPSK	1	1		22.76	22.79	22.82	24.0	0.0
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3755.02			
50	QPSK	1	1		22.84	22.85	22.75	24.0	0.0
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.73	22.82	22.74	24.0	0.0
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		22.81	22.73	22.81	24.0	0.0
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		22.76	22.75	22.83	24.0	0.0
Channel									
Frequency (MHz)				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3795.01			
15	QPSK	1	1		22.84	22.80	22.76	24.0	0.0
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.80	22.77	22.73	24.0	0.0

Part27Q n78 Ant7 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)						3500.01			
100	PI2 BPSK	1	1			23.09			
100	PI2 BPSK	1	137			22.94		0.0	
100	PI2 BPSK	1	271			22.93			
100	PI2 BPSK	135	0			22.58		23.5	0.5
100	PI2 BPSK	135	69			23.08		24.0	0.0
100	PI2 BPSK	135	138			22.46		23.5	0.5
100	PI2 BPSK	270	0			22.49			
100	QPSK	1	1			23.11			
100	QPSK	1	137			23.05		24.0	0.0
100	QPSK	1	271			22.94			
100	QPSK	135	0			22.00		23.0	1.0
100	QPSK	135	69			22.99		24.0	0.0
100	QPSK	135	138			21.96		23.0	1.0
100	QPSK	270	0			22.07			
100	16QAM	1	1			22.08		23.0	1.0
100	64QAM	1	1			20.58		21.5	2.5
100	256QAM	1	1			18.42		19.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	1		23.01	23.07	23.08	24.0	0.0
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		22.96	23.00	22.99	24.0	0.0
Channel									
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		23.05	22.99	23.08	24.0	0.0
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		22.98	22.97	23.00	24.0	0.0
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		22.98	23.08	23.03	24.0	0.0
Channel									
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		23.07	23.00	23.07	24.0	0.0
Channel									
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		23.03	23.07	22.99	24.0	0.0
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		23.04	23.04	23.04	24.0	0.0
Channel									
Frequency (MHz)				630500	633334	636368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.02	3500.01	3545.02			
15	QPSK	1	1		23.05	23.01	23.02	24.0	0.0
Channel									
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		22.98	23.02	23.08	24.0	0.0



n2 Ant0 DSI3

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								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	14.33	14.43	14.30		
20	PI2 BPSK	1	53	14.26	14.39	14.32	15.7	0.0
20	PI2 BPSK	1	104	14.22	14.34	14.22		
20	PI2 BPSK	50	0	14.21	14.31	14.17	15.7	0.0
20	PI2 BPSK	50	28	14.36	14.40	14.26	15.7	0.0
20	PI2 BPSK	50	56	14.28	14.38	14.25		
20	PI2 BPSK	100	0	14.29	14.42	14.34	15.7	0.0
20	QPSK	1	1	14.35	14.46	14.40		
20	QPSK	1	53	14.30	14.42	14.35	15.7	0.0
20	QPSK	1	104	14.32	14.38	14.23		
20	QPSK	50	0	14.30	14.40	14.32	15.7	0.0
20	QPSK	50	28	14.29	14.44	14.38	15.7	0.0
20	QPSK	50	56	14.27	14.34	14.21		
20	QPSK	100	0	14.27	14.41	14.38	15.7	0.0
20	16QAM	1	1	14.22	14.31	14.16	15.7	0.0
20	64QAM	1	1	14.17	14.23	14.18	15.7	0.0
20	256QAM	1	1	14.13	14.16	14.07	15.7	0.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	14.18	14.37	14.42	15.7	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	14.21	14.44	14.25	15.7	0.0
Channel								
Frequency (MHz)				376000	376000	381500	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	14.22	14.42	14.38	15.7	0.0

Reduced Power Mode for DSI3

n5 Ant0 Default

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								
Frequency (MHz)				16800	16700	16700		
20	PI2 BPSK	1	1	23.10	23.19	23.09		
20	PI2 BPSK	1	53	22.99	23.06	23.07	24.0	0.0
20	PI2 BPSK	1	104	22.85	22.90	22.75		
20	PI2 BPSK	50	0	22.50	22.83	22.59	23.5	0.5
20	PI2 BPSK	50	28	23.09	23.09	23.11	24.0	0.0
20	PI2 BPSK	50	56	22.51	22.64	22.48		
20	PI2 BPSK	100	0	22.67	22.89	22.53	23.5	0.5
20	QPSK	1	1	23.11	23.23	23.17		
20	QPSK	1	53	22.97	23.14	23.02	24.0	0.0
20	QPSK	1	104	22.92	23.00	22.83		
20	QPSK	50	0	22.04	22.07	21.98	23.0	1.0
20	QPSK	50	28	23.04	23.20	23.16	24.0	0.0
20	QPSK	50	56	22.03	22.05	22.00		
20	QPSK	100	0	22.11	22.24	22.13	23.0	1.0
20	16QAM	1	1	21.87	22.02	21.92	23.0	1.0
20	64QAM	1	1	20.57	20.61	20.44	21.5	2.5
20	256QAM	1	1	18.40	18.51	18.38	19.5	4.5
Channel								
Frequency (MHz)				168000	167000	168000	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	22.98	23.14	23.06	24.0	0.0
Channel								
Frequency (MHz)				168000	167000	168000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	23.00	23.11	23.07	24.0	0.0
Channel								
Frequency (MHz)				168000	167000	169000	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	23.07	23.17	23.06	24.0	0.0

n7 Ant0 DSI3

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								
Frequency (MHz)				2500	2535	2550		
40	PI2 BPSK	1	1	18.30	18.35	18.22		
40	PI2 BPSK	1	108	18.12	18.25	18.19	19.6	0.0
40	PI2 BPSK	1	214	18.18	18.23	18.15		
40	PI2 BPSK	108	0	18.05	18.17	18.14	19.6	0.0
40	PI2 BPSK	108	54	18.18	18.25	18.20	19.6	0.0
40	PI2 BPSK	108	108	18.13	18.20	18.15		
40	PI2 BPSK	216	0	18.22	18.25	18.18	19.6	0.0
40	QPSK	1	1	18.33	18.39	18.28		
40	QPSK	1	108	18.19	18.31	18.28	19.6	0.0
40	QPSK	1	214	18.17	18.28	18.20		
40	QPSK	108	0	18.13	18.22	18.17	19.6	0.0
40	QPSK	108	54	18.28	18.32	18.18	19.6	0.0
40	QPSK	108	108	18.12	18.26	18.20		
40	QPSK	216	0	18.21	18.30	18.16	19.6	0.0
40	16QAM	1	1	18.15	18.19	18.13	19.6	0.0
40	64QAM	1	1	18.17	18.24	18.21	19.6	0.0
40	256QAM	1	1	17.88	18.11	18.08	19.5	0.1
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	18.24	18.31	18.15	19.6	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dB)	MPR (dB)
25	QPSK	1	1	18.22	18.26	18.17	19.6	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
20	PI2 BPSK	1	1	18.29	18.33	18.12	19.6	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	18.23	18.35	18.17	19.6	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	18.27	18.28	18.16	19.6	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	18.29	18.24	18.17	19.6	0.0



n14 Ant0 Default

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				158900				
Frequency (MHz)				793				
10	PI2 BPSK	1	1	23.01			24.0	0.0
10	PI2 BPSK	1	26	22.96				
10	PI2 BPSK	1	50	22.89			23.5	0.5
10	PI2 BPSK	25	0	22.49				
10	PI2 BPSK	25	14	22.95			24.0	0.0
10	PI2 BPSK	25	27	22.47			23.5	0.5
10	PI2 BPSK	50	0	22.53				
10	QPSK	1	1	23.05			24.0	0.0
10	QPSK	1	26	23.00				
10	QPSK	1	50	22.95			23.0	1.0
10	QPSK	25	0	21.97			24.0	0.0
10	QPSK	25	14	22.98			23.0	1.0
10	QPSK	25	27	21.97			23.0	1.0
10	QPSK	50	0	22.04				
10	16QAM	1	1	22.29			23.0	1.0
10	64QAM	1	1	20.72			21.5	2.5
10	256QAM	1	1	18.30			19.5	4.5
Channel				158100	158300	159100		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.98	22.99	22.91	24.0	0.0

n66 Ant0 DS13

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				
Frequency (MHz)				1730				
40	PI2 BPSK	1	1	13.91	13.98	13.87		
40	PI2 BPSK	1	108	13.88	13.95	13.81	15.5	0.0
40	PI2 BPSK	1	214	13.74	13.83	13.74		
40	PI2 BPSK	108	0	13.82	13.86	13.78	15.5	0.0
40	PI2 BPSK	108	54	13.87	13.93	13.82	15.5	0.0
40	PI2 BPSK	108	108	13.70	13.80	13.71	15.5	0.0
40	PI2 BPSK	216	0	13.82	13.91	13.77		
40	QPSK	1	1	13.92	14.02	13.98		
40	QPSK	1	108	13.86	13.97	13.82	15.5	0.0
40	QPSK	1	214	13.83	13.88	13.86		
40	QPSK	108	0	13.89	13.80	13.73	15.5	0.0
40	QPSK	108	54	13.91	14.00	13.96	15.5	0.0
40	QPSK	108	108	13.73	13.83	13.81	15.5	0.0
40	QPSK	216	0	13.74	13.86	13.74		
40	16QAM	1	1	13.77	13.85	13.81	15.5	0.0
40	64QAM	1	1	13.69	13.77	13.67	15.5	0.0
40	256QAM	1	1	13.70	13.81	13.73	15.5	0.0
Channel				342500	343000	343500		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	13.87	13.97	13.94	15.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	13.83	13.96	13.86	15.5	0.0
Channel				342500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	13.83	13.92	13.94	15.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	13.88	13.93	13.85	15.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	13.84	13.95	13.86	15.5	0.0

n71 Ant0 Default

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				134600				
Frequency (MHz)				673				
20	PI2 BPSK	1	1	23.03	23.06	23.00		
20	PI2 BPSK	1	53	22.82	23.02	22.91	24.0	0.0
20	PI2 BPSK	1	104	22.94	22.97	22.83		
20	PI2 BPSK	50	0	22.44	22.48	22.36	23.5	0.5
20	PI2 BPSK	50	28	22.91	23.01	22.88	24.0	0.0
20	PI2 BPSK	50	56	22.30	22.41	22.29	23.5	0.5
20	PI2 BPSK	100	0	22.35	22.49	22.42		
20	QPSK	1	1	23.05	23.11	23.07		
20	QPSK	1	53	23.02	23.07	23.03	24.0	0.0
20	QPSK	1	104	22.91	22.95	22.88		
20	QPSK	50	0	21.98	22.04	21.92	23.0	1.0
20	QPSK	50	28	22.99	23.05	22.93	24.0	0.0
20	QPSK	50	56	21.92	21.96	21.88	23.0	1.0
20	QPSK	100	0	21.98	22.02	21.89		
20	16QAM	1	1	22.25	22.39	22.28	23.0	1.0
20	64QAM	1	1	20.27	20.39	20.31	21.5	2.5
20	256QAM	1	1	18.63	18.74	18.69	19.5	4.5
Channel				134100	134700	135300		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.01	23.05	22.93	24.0	0.0
Channel				133600	136100	138600		
Frequency (MHz)				663	680.5	693		
10	QPSK	1	1	22.91	23.07	22.94	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.91	22.98	22.95	24.0	0.0



n41 Ant0									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.87	18.93	18.91			
100	PI2 BPSK	1	137	18.86	18.93	18.94	19.9	0.0	
100	PI2 BPSK	1	271	18.87	18.97	18.99			
100	PI2 BPSK	135	0	18.73	18.82	18.76	19.9	0.0	
100	PI2 BPSK	135	69	18.79	19.03	18.73	19.9	0.0	
100	PI2 BPSK	135	138	18.53	18.91	18.79	19.9	0.0	
100	PI2 BPSK	270	0	18.99	18.85	18.89			
100	QPSK	1	1	18.90	19.19	18.87			
100	QPSK	1	137	18.74	18.73	18.85	19.9	0.0	
100	QPSK	1	271	18.79	18.87	18.86			
100	QPSK	135	0	18.63	18.64	18.75	19.9	0.0	
100	QPSK	135	69	18.82	18.18	18.76	19.9	0.0	
100	QPSK	135	138	18.84	18.79	18.68	19.9	0.0	
100	QPSK	270	0	18.74	18.98	18.74			
100	16QAM	1	1	18.71	18.74	18.66	19.9	0.0	
100	16QAM	1	1	18.93	18.68	18.69	19.9	0.0	
100	256QAM	1	1	18.21	18.16	18.19	19.5	0.4	
Channel				50200	51898	52999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.86	19.14	18.84	19.9	0.0	
Channel				507204	51898	52999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	18.79	19.09	18.76	19.9	0.0	
Channel				509202	51898	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	18.80	19.14	18.73	19.9	0.0	
Channel				505200	51898	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2529	2592.99	2639.98			
60	QPSK	1	1	18.80	19.13	18.77	19.9	0.0	
Channel				504204	51898	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.80	19.08	18.77	19.9	0.0	
Channel				503202	51898	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2670			
40	QPSK	1	1	18.85	19.15	18.73	19.9	0.0	
Channel				502200	51898	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.81	19.15	18.83	19.9	0.0	
Channel				501204	51898	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.76	19.16	18.84	19.9	0.0	

n41 PC2 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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.81	22.02	21.76			
100	PI2 BPSK	1	137	21.78	21.85	21.83	22.9	0.0	
100	PI2 BPSK	1	271	21.77	21.90	21.81			
100	PI2 BPSK	135	0	21.75	21.87	21.83	22.9	0.0	
100	PI2 BPSK	135	69	21.81	21.93	21.81	22.9	0.0	
100	PI2 BPSK	135	138	21.85	21.86	21.85	22.9	0.0	
100	PI2 BPSK	270	0	21.93	22.10	21.81			
100	QPSK	1	1	21.85	22.17	21.90			
100	QPSK	1	137	21.92	21.97	21.73	22.9	0.0	
100	QPSK	1	271	21.73	21.81	21.76			
100	QPSK	135	0	21.95	21.99	21.86	22.9	0.0	
100	QPSK	135	69	21.82	22.11	21.80	22.9	0.0	
100	QPSK	135	138	21.86	21.87	21.73	22.9	0.0	
100	QPSK	270	0	21.82	22.08	21.85			
100	16QAM	1	1	21.70	21.70	21.50	22.9	0.0	
100	16QAM	1	1	21.74	21.70	21.74	22.9	0.0	
100	256QAM	1	1	19.60	19.64	19.51	21.5	1.4	
Channel				50200	51898	52999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.75	22.14	21.77	22.9	0.0	
Channel				507204	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	21.77	22.12	21.86	22.9	0.0	
Channel				509202	51898	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	21.78	22.10	21.85	22.9	0.0	
Channel				505200	51898	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2529	2592.99	2639.98			
60	QPSK	1	1	21.74	22.13	21.84	22.9	0.0	
Channel				504204	51898	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.73	22.15	21.88	22.9	0.0	
Channel				503202	51898	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2670			
40	QPSK	1	1	21.75	22.15	21.80	22.9	0.0	
Channel				502200	51898	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.73	22.13	21.78	22.9	0.0	
Channel				501204	51898	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.71	22.15	21.77	22.9	0.0	



n2 Ant1 DSI3

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								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	16.83	16.89	16.78		
20	PI2 BPSK	1	53	16.76	16.80	16.80	17.8	0.0
20	PI2 BPSK	1	104	16.84	16.78	16.74		
20	PI2 BPSK	50	0	16.74	16.79	16.74	17.8	0.0
20	PI2 BPSK	50	28	16.78	16.83	16.80	17.8	0.0
20	PI2 BPSK	50	58	16.58	16.68	16.65	17.8	0.0
20	PI2 BPSK	100	0	16.79	16.86	16.77		
20	QPSK	1	1	16.90	16.93	16.89		
20	QPSK	1	53	16.81	16.86	16.77	17.8	0.0
20	QPSK	1	104	16.70	16.79	16.68		
20	QPSK	50	0	16.57	16.65	16.58	17.8	0.0
20	QPSK	50	28	16.73	16.80	16.81	17.8	0.0
20	QPSK	50	58	16.70	16.78	16.68	17.8	0.0
20	QPSK	100	0	16.71	16.80	16.73	17.8	0.0
20	16QAM	1	1	16.59	16.73	16.60	17.8	0.0
20	16QAM	1	1	16.55	16.65	16.58	17.8	0.0
20	256QAM	1	1	16.50	16.68	16.60	17.8	0.0
Channel								
Frequency (MHz)				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.73	16.80	16.75	17.8	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.79	16.84	16.72	17.8	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.82	16.80	16.75	17.8	0.0

n5 Ant1 Default

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								
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.11	23.20	23.04		
20	PI2 BPSK	1	53	23.04	23.19	23.03	24.0	0.0
20	PI2 BPSK	1	104	22.97	23.09	22.97		
20	PI2 BPSK	50	0	22.86	22.76	22.85	23.5	0.5
20	PI2 BPSK	50	28	23.06	23.13	23.07	24.0	0.0
20	PI2 BPSK	50	58	22.61	22.87	22.59	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.70	22.67		
20	QPSK	1	1	23.13	23.22	23.16		
20	QPSK	1	53	23.11	23.12	23.13	24.0	0.0
20	QPSK	1	104	23.01	23.11	23.01		
20	QPSK	50	0	22.16	22.19	22.00	23.0	1.0
20	QPSK	50	28	23.12	23.19	23.15	24.0	0.0
20	QPSK	50	58	22.08	22.18	22.01	23.0	1.0
20	QPSK	100	0	22.18	22.21	22.12		
20	16QAM	1	1	22.05	22.13	22.07	23.0	1.0
20	16QAM	1	1	20.75	20.74	20.73	21.5	2.5
20	256QAM	1	1	18.41	18.48	18.44	19.5	4.5
Channel								
Frequency (MHz)				165300	167000	168500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.04	23.17	23.06	24.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.10	23.07	23.01	24.0	0.0
Channel								
Frequency (MHz)				165300	167000	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.03	23.14	23.04	24.0	0.0

n7 Ant1 DSI3

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								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	15.31	15.37	15.28		
40	PI2 BPSK	1	108	15.25	15.33	15.21	16.3	0.0
40	PI2 BPSK	1	214	15.20	15.35	15.30		
40	PI2 BPSK	108	0	15.22	15.30	15.24	16.3	0.0
40	PI2 BPSK	108	54	15.24	15.29	15.26	16.3	0.0
40	PI2 BPSK	108	108	15.08	15.18	15.15	16.3	0.0
40	PI2 BPSK	216	0	15.28	15.40	15.30		
40	QPSK	1	1	15.38	15.46	15.43		
40	QPSK	1	108	15.31	15.38	15.23	16.3	0.0
40	QPSK	1	214	15.20	15.36	15.24		
40	QPSK	108	0	15.07	15.14	15.08	16.3	0.0
40	QPSK	108	54	15.27	15.36	15.30	16.3	0.0
40	QPSK	108	108	15.18	15.32	15.26	16.3	0.0
40	QPSK	216	0	15.27	15.32	15.22		
40	16QAM	1	1	15.11	15.29	15.06	16.3	0.0
40	16QAM	1	1	15.01	15.10	15.10	16.3	0.0
40	256QAM	1	1	15.04	15.20	15.11	16.3	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.21	15.28	15.25	16.3	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.18	15.27	15.10	16.3	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	15.23	15.34	15.16	16.3	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.28	15.31	15.21	16.3	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.19	15.23	15.20	16.3	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.22	15.28	15.23	16.3	0.0



n66 Ant1 DSI3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	15.99	16.03	15.94	
40	PI2 BPSK	1	168	15.89	15.99	15.90	0.0
40	PI2 BPSK	1	214	15.91	15.97	15.90	
40	PI2 BPSK	108	0	15.84	15.89	15.82	17.0 0.0
40	PI2 BPSK	108	54	15.89	15.97	15.94	17.0 0.0
40	PI2 BPSK	108	108	15.83	15.96	15.87	17.0 0.0
40	PI2 BPSK	216	0	15.88	16.01	15.92	
40	QPSK	1	1	16.06	16.08	16.00	
40	QPSK	1	108	15.91	16.04	15.90	17.0 0.0
40	QPSK	1	214	15.89	15.96	15.92	
40	QPSK	108	0	15.82	15.91	15.76	17.0 0.0
40	QPSK	108	54	15.95	16.03	15.98	17.0 0.0
40	QPSK	108	108	15.79	15.85	15.78	17.0 0.0
40	QPSK	216	0	15.85	15.91	15.81	17.0 0.0
40	16QAM	1	1	15.79	15.87	15.75	17.0 0.0
40	64QAM	1	1	15.80	15.86	15.81	17.0 0.0
40	256QAM	1	1	15.77	15.89	15.77	17.0 0.0
Channel				345000	349000	353000	Tune-up limit (dBm) MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	15.85	15.91	15.90	17.0 0.0
Channel				344000	349000	354000	Tune-up limit (dB) MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	15.87	15.95	15.86	17.0 0.0
Channel				343500	349000	354500	Tune-up limit (dB) MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	15.90	15.96	15.95	17.0 0.0
Channel				343000	349000	355000	Tune-up limit (dB) MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	15.89	15.99	15.90	17.0 0.0
Channel				342500	349000	355500	Tune-up limit (dB) MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	15.84	15.99	15.88	17.0 0.0

n71 Ant1 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				134500	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	22.96	23.08	23.05	
20	PI2 BPSK	1	53	22.97	23.02	22.92	24.0 0.0
20	PI2 BPSK	1	104	22.76	22.91	22.83	
20	PI2 BPSK	50	0	22.46	22.52	22.47	23.5 0.5
20	PI2 BPSK	50	28	22.94	23.03	22.97	24.0 0.0
20	PI2 BPSK	50	56	22.41	22.45	22.34	23.5 0.5
20	PI2 BPSK	100	0	22.47	22.53	22.47	
20	QPSK	1	1	23.03	23.13	23.09	
20	QPSK	1	53	22.96	23.09	23.02	24.0 0.0
20	QPSK	1	104	22.90	22.97	22.91	
20	QPSK	50	0	21.91	22.05	21.94	23.0 1.0
20	QPSK	50	28	22.98	23.06	22.93	24.0 0.0
20	QPSK	50	56	21.92	22.01	21.87	23.0 1.0
20	QPSK	100	0	21.93	22.07	21.97	
20	16QAM	1	1	21.77	21.87	21.83	23.0 1.0
20	64QAM	1	1	20.25	20.34	20.21	21.5 2.5
20	256QAM	1	1	18.53	18.83	18.58	19.5 4.5
Channel				134100	136100	138100	Tune-up limit (dB) MPR
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.91	23.02	22.97	24.0 0.0
Channel				133600	136100	138600	Tune-up limit (dB) MPR
Frequency (MHz)				668	680.5	692	
10	QPSK	1	1	22.99	23.00	23.02	24.0 0.0
Channel				133100	136100	139100	Tune-up limit (dB) MPR
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.96	23.00	22.99	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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	15.37	15.43	15.31			
100	PI2 BPSK	1	137	15.42	15.48	15.40	16.4	0.0	
100	PI2 BPSK	1	271	15.21	15.38	15.30			
100	PI2 BPSK	135	0	15.24	15.40	15.16	16.4	0.0	
100	PI2 BPSK	135	69	15.16	15.34	15.18	16.4	0.0	
100	PI2 BPSK	135	138	15.23	15.40	15.30	16.4	0.0	
100	PI2 BPSK	270	0	15.44	15.43	15.33			
100	QPSK	1	1	15.48	15.32	15.44			
100	QPSK	1	137	15.33	15.44	15.32	16.4	0.0	
100	QPSK	1	271	15.27	15.42	15.30			
100	QPSK	135	0	15.38	15.49	15.37	16.4	0.0	
100	QPSK	135	69	15.41	15.48	15.31	16.4	0.0	
100	QPSK	135	138	15.24	15.41	15.21	16.4	0.0	
100	QPSK	270	0	15.18	15.32	15.21			
100	16QAM	1	1	15.17	15.31	15.22	16.4	0.0	
100	16QAM	1	1	15.21	15.32	15.21	16.4	0.0	
100	256QAM	1	1	15.39	15.43	15.41	16.4	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.38	15.43	15.34	16.4	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	15.37	15.39	15.28	16.4	0.0	
Channel				509202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	15.43	15.43	15.39	16.4	0.0	
Channel				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	15.38	15.38	15.37	16.4	0.0	
Channel				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.35	15.38	15.29	16.4	0.0	
Channel				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.43	15.43	15.40	16.4	0.0	
Channel				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.35	15.38	15.31	16.4	0.0	
Channel				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.44	15.38	15.35	16.4	0.0	

n41 PC2 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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	15.35	15.43	15.29			
100	PI2 BPSK	1	137	15.45	15.48	15.45	19.4	0.0	
100	PI2 BPSK	1	271	15.24	15.37	15.24			
100	PI2 BPSK	135	0	15.19	15.38	15.19	19.4	0.0	
100	PI2 BPSK	135	69	15.12	15.39	15.19	19.4	0.0	
100	PI2 BPSK	135	138	15.23	15.45	15.31	19.4	0.0	
100	PI2 BPSK	270	0	15.40	15.46	15.34			
100	QPSK	1	1	15.50	15.35	15.47			
100	QPSK	1	137	15.27	15.39	15.31	19.4	0.0	
100	QPSK	1	271	15.21	15.46	15.26			
100	QPSK	135	0	15.39	15.45	15.40	19.4	0.0	
100	QPSK	135	69	15.44	15.46	15.32	19.4	0.0	
100	QPSK	135	138	15.18	15.27	15.16	19.4	0.0	
100	QPSK	270	0	15.14	15.34	15.22			
100	16QAM	1	1	15.14	15.27	15.26	19.4	0.0	
100	16QAM	1	1	15.21	15.33	15.25	19.4	0.0	
100	256QAM	1	1	15.43	15.41	15.37	19.4	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.45	15.41	15.42	19.4	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	15.37	15.45	15.40	19.4	0.0	
Channel				509202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	15.41	15.35	15.43	19.4	0.0	
Channel				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	15.44	15.37	15.35	19.4	0.0	
Channel				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.41	15.33	15.37	19.4	0.0	
Channel				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.46	15.45	15.42	19.4	0.0	
Channel				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.44	15.47	15.33	19.4	0.0	
Channel				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.46	15.45	15.32	19.4	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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	15.57	15.58	15.46		
100	PI2 BPSK	1	137	15.42	15.53	15.61	17.2	0.0
100	PI2 BPSK	1	271	15.58	15.88	15.80		
100	PI2 BPSK	135	0	15.46	15.51	15.28	17.2	0.0
100	PI2 BPSK	135	69	15.35	15.69	15.37	17.2	0.0
100	PI2 BPSK	135	138	15.50	15.47	15.34	17.2	0.0
100	PI2 BPSK	270	0	15.63	15.65	15.44		
100	QPSK	1	1	15.75	15.81	15.56		
100	QPSK	1	137	15.56	15.69	15.44	17.2	0.0
100	QPSK	1	271	15.80	15.66	15.48		
100	QPSK	135	0	15.36	15.45	15.42	17.2	0.0
100	QPSK	135	69	15.43	15.79	15.56	17.2	0.0
100	QPSK	135	138	15.45	15.64	15.56	17.2	0.0
100	QPSK	270	0	15.57	15.61	15.44		
100	16QAM	1	1	15.52	15.53	15.40	17.2	0.0
100	16QAM	1	1	15.24	15.21	15.27	17.2	0.0
100	256QAM	1	1	15.31	15.31	15.22	17.2	0.0
Channel								
Frequency (MHz)				500200	516398	532596		
90	QPSK	1	1	15.54	15.52	15.42	17.2	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
90	QPSK	1	1	15.47	15.71	15.30	17.2	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	15.49	15.61	15.35	17.2	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	15.50	15.64	15.45	17.2	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	15.58	15.49	15.24	17.2	0.0
Channel								
Frequency (MHz)				503202	518598	533000		
40	QPSK	1	1	15.54	15.71	15.30	17.2	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	15.66	15.65	15.37	17.2	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	15.57	15.61	15.25	17.2	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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	18.46	18.44	18.30		
100	PI2 BPSK	1	137	18.23	18.46	18.48	20.2	0.0
100	PI2 BPSK	1	271	18.58	18.58	18.42		
100	PI2 BPSK	135	0	18.35	18.48	18.28	20.2	0.0
100	PI2 BPSK	135	69	18.23	18.70	18.30	20.2	0.0
100	PI2 BPSK	135	138	18.42	18.44	18.32	20.2	0.0
100	PI2 BPSK	270	0	18.61	18.44	18.44		
100	QPSK	1	1	18.58	18.70	18.46		
100	QPSK	1	137	18.43	18.54	18.31	20.2	0.0
100	QPSK	1	271	18.51	18.58	18.37		
100	QPSK	135	0	18.38	18.44	18.28	20.2	0.0
100	QPSK	135	69	18.41	18.71	18.48	20.2	0.0
100	QPSK	135	138	18.30	18.64	18.51	20.2	0.0
100	QPSK	270	0	18.41	18.57	18.32		
100	16QAM	1	1	18.47	18.36	18.30	20.2	0.0
100	16QAM	1	1	18.26	18.28	18.34	20.2	0.0
100	256QAM	1	1	18.32	18.31	18.21	20.2	0.0
Channel								
Frequency (MHz)				500200	518598	532596		
90	QPSK	1	1	18.32	18.48	18.30	20.2	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
90	QPSK	1	1	18.32	18.52	18.31	20.2	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	18.31	18.51	18.38	20.2	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	18.30	18.61	18.30	20.2	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	18.36	18.42	18.24	20.2	0.0
Channel								
Frequency (MHz)				503202	518598	533000		
40	QPSK	1	1	18.31	18.56	18.28	20.2	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	18.37	18.45	18.32	20.2	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	18.32	18.57	18.28	20.2	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								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	11.73	11.81	11.77		
40	PI2 BPSK	1	53	11.75	11.78	11.68	12.9	0.0
40	PI2 BPSK	1	104	11.83	11.74	11.61		
40	PI2 BPSK	50	0	11.56	11.70	11.67	12.9	0.0
40	PI2 BPSK	50	28	11.73	11.79	11.74	12.9	0.0
40	PI2 BPSK	50	56	11.85	11.72	11.67	12.9	0.0
40	PI2 BPSK	100	0	11.87	11.75	11.64		
40	QPSK	1	1	11.80	11.67	11.78		
40	QPSK	1	53	11.73	11.85	11.75	12.9	0.0
40	QPSK	1	104	11.70	11.77	11.74		
40	QPSK	50	0	11.62	11.74	11.67	12.9	0.0
40	QPSK	50	28	11.70	11.83	11.71	12.9	0.0
40	QPSK	50	56	11.56	11.68	11.63	12.9	0.0
40	QPSK	100	0	11.85	11.76	11.62		
40	16QAM	1	1	11.64	11.70	11.55	12.9	0.0
40	16QAM	1	1	11.54	11.65	11.52	12.9	0.0
40	256QAM	1	1	11.52	11.59	11.53	12.9	0.0
Channel								
Frequency (MHz)				637668	641666	645664		
30	QPSK	1	1	11.70	11.79	11.65	12.9	0.0
Channel								
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	11.87	11.82	11.67	12.9	0.0



Part270 n77 Ant2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 65000	Power Middle Ch./Freq. 65000	Power High Ch./Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	11.55	11.59	11.53		
100	PI2 BPSK	1	137	11.53	11.64	11.54	12.9	0.0
100	PI2 BPSK	1	271	11.46	11.59	11.44		
100	PI2 BPSK	135	0	11.41	11.55	11.43	12.9	0.0
100	PI2 BPSK	135	69	11.57	11.65	11.61	12.9	0.0
100	PI2 BPSK	135	138	11.51	11.50	11.47	12.9	0.0
100	PI2 BPSK	270	0	11.47	11.54	11.48		
100	QPSK	1	1	11.50	11.67	11.57		
100	QPSK	1	137	11.58	11.66	11.53	12.9	0.0
100	QPSK	1	271	11.52	11.61	11.54		
100	QPSK	135	0	11.41	11.60	11.44	12.9	0.0
100	QPSK	135	69	11.57	11.63	11.49	12.9	0.0
100	QPSK	135	138	11.54	11.53	11.40	12.9	0.0
100	QPSK	270	0	11.48	11.59	11.42		
100	16QAM	1	1	11.48	11.50	11.38	12.9	0.0
100	16QAM	1	1	11.39	11.50	11.46	12.9	0.0
100	256QAM	1	1	11.40	11.43	11.38	12.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	11.52	11.58	11.48	12.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	11.49	11.53	11.53	12.9	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	11.46	11.61	11.46	12.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	11.50	11.58	11.45	12.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.55	11.54	11.48	12.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	11.54	11.53	11.46	12.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	11.52	11.54	11.45	12.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.45	11.60	11.54	12.9	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	11.45	11.58	11.49	12.9	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	11.50	11.63	11.48	12.9	0.0

Part270 n77 PC2 Ant2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 65000	Power Middle Ch./Freq. 65000	Power High Ch./Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.43	14.52	14.46		
100	PI2 BPSK	1	137	14.45	14.45	14.43	15.9	0.0
100	PI2 BPSK	1	271	14.39	14.50	14.38		
100	PI2 BPSK	135	0	14.26	14.42	14.33	15.9	0.0
100	PI2 BPSK	135	69	14.43	14.51	14.44	15.9	0.0
100	PI2 BPSK	135	138	14.30	14.44	14.40	15.9	0.0
100	PI2 BPSK	270	0	14.36	14.43	14.35		
100	QPSK	1	1	14.50	14.61	14.47		
100	QPSK	1	137	14.48	14.59	14.51	15.9	0.0
100	QPSK	1	271	14.39	14.51	14.48		
100	QPSK	135	0	14.34	14.47	14.37	15.9	0.0
100	QPSK	135	69	14.46	14.57	14.40	15.9	0.0
100	QPSK	135	138	14.30	14.40	14.23	15.9	0.0
100	QPSK	270	0	14.34	14.47	14.39		
100	16QAM	1	1	14.36	14.47	14.24	15.9	0.0
100	16QAM	1	1	14.32	14.31	14.37	15.9	0.0
100	256QAM	1	1	14.30	14.26	14.23	15.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.41	14.50	14.43	15.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.35	14.57	14.43	15.9	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.42	14.48	14.40	15.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.42	14.46	14.35	15.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.45	14.55	14.33	15.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.47	14.58	14.36	15.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.43	14.49	14.42	15.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.46	14.51	14.39	15.9	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.43	14.49	14.42	15.9	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.42	14.55	14.41	15.9	0.0

Part27Q n77 Ant2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 63300	Power Middle Ch./Freq. 63334	Power High Ch./Freq. 63334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1			3500.01		
100	PI2 BPSK	1	137			11.77		
100	PI2 BPSK	1	271			11.70	12.9	0.0
100	PI2 BPSK	135	0			11.56	12.9	0.0
100	PI2 BPSK	135	69			11.74	12.9	0.0
100	PI2 BPSK	135	138			11.61	12.9	0.0
100	PI2 BPSK	270	0			11.89		
100	QPSK	1	1			11.82		
100	QPSK	1	137			11.78	12.9	0.0
100	QPSK	1	271			11.74		
100	QPSK	135	0			11.60	12.9	0.0
100	QPSK	135	69			11.71	12.9	0.0
100	QPSK	135	138			11.65	12.9	0.0
100	QPSK	270	0			11.69		
100	16QAM	1	1			11.58	12.9	0.0
100	16QAM	1	1			11.51	12.9	0.0
100	256QAM	1	1			11.45	12.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)



Part27Q n77 PC2 Ant2 DSI3

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								
Frequency (MHz)								
				3500.01				
100	PI2 BPSK	1	1	14.75	14.64	14.75	15.9	0.0
100	PI2 BPSK	1	137	14.64	14.64	14.75	15.9	0.0
100	PI2 BPSK	1	271	14.66	14.66	14.75	15.9	0.0
100	PI2 BPSK	135	69	14.62	14.62	14.75	15.9	0.0
100	PI2 BPSK	135	69	14.73	14.73	14.75	15.9	0.0
100	PI2 BPSK	135	138	14.67	14.67	14.75	15.9	0.0
100	PI2 BPSK	270	0	14.66	14.66	14.75	15.9	0.0
100	QPSK	1	1	14.69	14.69	14.75	15.9	0.0
100	QPSK	1	137	14.73	14.73	14.75	15.9	0.0
100	QPSK	1	271	14.77	14.77	14.75	15.9	0.0
100	QPSK	135	69	14.63	14.63	14.75	15.9	0.0
100	QPSK	135	69	14.75	14.75	14.75	15.9	0.0
100	QPSK	135	138	14.66	14.66	14.75	15.9	0.0
100	QPSK	270	0	14.71	14.71	14.75	15.9	0.0
100	16QAM	1	1	14.80	14.80	14.80	15.9	0.0
100	16QAM	1	1	14.57	14.57	14.57	15.9	0.0
100	256QAM	1	1	14.48	14.48	14.48	15.9	0.0
Channel								
Frequency (MHz)								
				633000				
90	QPSK	1	1	14.66	14.74	14.70	15.9	0.0
Channel								
Frequency (MHz)								
				3495.02				
80	QPSK	1	1	14.74	14.70	14.75	15.9	0.0
Channel								
Frequency (MHz)								
				3485.01				
70	QPSK	1	1	14.69	14.71	14.76	15.9	0.0
Channel								
Frequency (MHz)								
				633000				
60	QPSK	1	1	14.67	14.66	14.70	15.9	0.0
Channel								
Frequency (MHz)								
				3475.02				
50	QPSK	1	1	14.74	14.72	14.75	15.9	0.0
Channel								
Frequency (MHz)								
				3470.01				
40	QPSK	1	1	14.70	14.67	14.67	15.9	0.0
Channel								
Frequency (MHz)								
				631000				
30	QPSK	1	1	14.73	14.67	14.69	15.9	0.0
Channel								
Frequency (MHz)								
				3460.02				
20	QPSK	1	1	14.76	14.67	14.74	15.9	0.0
Channel								
Frequency (MHz)								
				632000				
15	QPSK	1	1	14.76	14.71	14.72	15.9	0.0
Channel								
Frequency (MHz)								
				3455.01				
10	QPSK	1	1	14.76	14.69	14.69	15.9	0.0

Part27O n78 Ant2 DSI3

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								
Frequency (MHz)								
				3750				
100	PI2 BPSK	1	1	11.83	11.77	11.83	12.9	0.0
100	PI2 BPSK	1	137	11.80	11.80	11.83	12.9	0.0
100	PI2 BPSK	135	69	11.81	11.81	11.83	12.9	0.0
100	PI2 BPSK	135	69	11.81	11.81	11.83	12.9	0.0
100	PI2 BPSK	135	138	11.71	11.71	11.83	12.9	0.0
100	PI2 BPSK	270	0	11.74	11.74	11.83	12.9	0.0
100	QPSK	1	1	11.88	11.88	11.83	12.9	0.0
100	QPSK	1	137	11.80	11.80	11.83	12.9	0.0
100	QPSK	1	271	11.82	11.82	11.83	12.9	0.0
100	QPSK	135	69	11.76	11.76	11.83	12.9	0.0
100	QPSK	135	69	11.79	11.79	11.83	12.9	0.0
100	QPSK	135	138	11.78	11.78	11.83	12.9	0.0
100	QPSK	270	0	11.82	11.82	11.83	12.9	0.0
100	16QAM	1	1	11.64	11.64	11.83	12.9	0.0
100	16QAM	1	1	11.81	11.81	11.83	12.9	0.0
100	256QAM	1	1	11.51	11.51	11.83	12.9	0.0
Channel								
Frequency (MHz)								
				640868				
90	QPSK	1	1	11.73	11.84	11.82	12.9	0.0
Channel								
Frequency (MHz)								
				649334				
80	QPSK	1	1	11.81	11.85	11.70	12.9	0.0
Channel								
Frequency (MHz)								
				649000				
70	QPSK	1	1	11.73	11.75	11.77	12.9	0.0
Channel								
Frequency (MHz)								
				648688				
60	QPSK	1	1	11.80	11.79	11.78	12.9	0.0
Channel								
Frequency (MHz)								
				648334				
50	QPSK	1	1	11.80	11.83	11.80	12.9	0.0
Channel								
Frequency (MHz)								
				3720				
40	QPSK	1	1	11.79	11.74	11.76	12.9	0.0
Channel								
Frequency (MHz)								
				647688				
30	QPSK	1	1	11.75	11.79	11.74	12.9	0.0
Channel								
Frequency (MHz)								
				3710.01				
20	QPSK	1	1	11.84	11.84	11.79	12.9	0.0
Channel								
Frequency (MHz)								
				647188				
15	QPSK	1	1	11.73	11.81	11.82	12.9	0.0
Channel								
Frequency (MHz)								
				3705				
10	QPSK	1	1	11.77	11.80	11.75	12.9	0.0

Part27Q n78 Ant2 DSI3

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								
Frequency (MHz)								
				3500.01				
100	PI2 BPSK	1	1	11.86	11.86	11.86	12.9	0.0
100	PI2 BPSK	1	137	11.84	11.84	11.86	12.9	0.0
100	PI2 BPSK	1	271	11.89	11.89	11.86	12.9	0.0
100	PI2 BPSK	135	69	11.81	11.81	11.86	12.9	0.0
100	PI2 BPSK	135	69	11.73	11.73	11.86	12.9	0.0
100	PI2 BPSK	135	138	11.87	11.87	11.86	12.9	0.0
100	PI2 BPSK	270	0	11.84	11.84	11.86	12.9	0.0
100	QPSK	1	1	11.76	11.76	11.86	12.9	0.0
100	QPSK	1	137	11.87	11.87	11.86	12.9	0.0
100	QPSK	1	271	11.72	11.72	11.86	12.9	0.0
100	QPSK	135	69	11.83	11.83	11.86	12.9	0.0
100	QPSK	135	69	11.76	11.76	11.86	12.9	0.0
100	QPSK	135	138	11.70	11.70	11.86	12.9	0.0
100	QPSK	270	0	11.72	11.72	11.86	12.9	0.0
100	16QAM	1	1	11.54	11.54	11.86	12.9	0.0
100	16QAM	1	1	11.53	11.53	11.86	12.9	0.0
100	256QAM	1	1	11.41	11.41	11.86	12.9	0.0
Channel								
Frequency (MHz)								
				633000				
90	QPSK	1	1	11.73	11.74	11.70	12.9	0.0
Channel								
Frequency (MHz)								
				632688				
80	QPSK	1	1	11.65	11.71	11.60	12.9	0.0
Channel								
Frequency (MHz)								
				632334				
70	QPSK	1	1	11.74	11.74	11.71	12.9	0.0
Channel								
Frequency (MHz)								
				632000				
60	QPSK	1	1	11.68	11.63	11.65	12.9	0.0
Channel								
Frequency (MHz)								
				631688				
50	QPSK	1	1	11.68	11.70	11.63	12.9	0.0
Channel								
Frequency (MHz)								
				631334				
40	QPSK	1	1	11.71	11.66	11.66	12.9	0.0
Channel								
Frequency (MHz)								
				631000				
30	QPSK	1	1	11.69	11.76	11.72	12.9	0.0
Channel								
Frequency (MHz)								
				630688				
20	QPSK	1	1	11.72	11.71	11.63	12.9	0.0
Channel								
Frequency (MHz)								
				630300				
15	QPSK	1	1	11.84	11.84	11.72	12.9	0.0
Channel								
Frequency (MHz)								
				630334				
10	QPSK	1	1	11.70	11.71	11.69	12.9	0.0



Part270 n77 Ant4 DSI3

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.59	15.63	15.53		
100	PI2 BPSK	1	137	15.55	15.62	15.50	16.6	0.0
100	PI2 BPSK	1	271	15.47	15.56	15.46		
100	PI2 BPSK	135	0	15.41	15.54	15.43	16.6	0.0
100	PI2 BPSK	135	69	15.53	15.59	15.47	16.6	0.0
100	PI2 BPSK	135	138	15.49	15.53	15.45	16.6	0.0
100	PI2 BPSK	270	0	15.47	15.56	15.43		
100	QPSK	1	1	15.62	15.71	15.58		
100	QPSK	1	137	15.47	15.62	15.56	16.6	0.0
100	QPSK	1	271	15.44	15.59	15.47		
100	QPSK	135	0	15.43	15.52	15.39	16.6	0.0
100	QPSK	135	69	15.55	15.67	15.57	16.6	0.0
100	QPSK	135	138	15.44	15.55	15.43		
100	QPSK	270	0	15.49	15.62	15.56	16.6	0.0
100	16QAM	1	1	15.42	15.46	15.40	16.6	0.0
100	16QAM	1	1	15.33	15.47	15.42	16.6	0.0
100	256QAM	1	1	15.38	15.51	15.45	16.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.55	15.60	15.48	16.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.49	15.62	15.59	16.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.55	15.56	15.45	16.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.55	15.59	15.46	16.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.55	15.62	15.55	16.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.56	15.61	15.53	16.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.51	15.64	15.49	16.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.58	15.66	15.52	16.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.49	15.57	15.45	16.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.52	15.62	15.53	16.6	0.0

Part270 n77 PC2 Ant4 DSI3

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.52	18.56	18.40		
100	PI2 BPSK	1	137	18.45	18.54	18.39	19.6	0.0
100	PI2 BPSK	1	271	18.33	18.50	18.32		
100	PI2 BPSK	135	0	18.29	18.48	18.34	19.6	0.0
100	PI2 BPSK	135	69	18.44	18.51	18.33	19.6	0.0
100	PI2 BPSK	135	138	18.42	18.48	18.37	19.6	0.0
100	PI2 BPSK	270	0	18.32	18.47	18.30		
100	QPSK	1	1	18.57	18.60	18.51		
100	QPSK	1	137	18.35	18.53	18.50	19.6	0.0
100	QPSK	1	271	18.30	18.45	18.33		
100	QPSK	135	0	18.38	18.39	18.35	19.6	0.0
100	QPSK	135	69	18.49	18.56	18.44	19.6	0.0
100	QPSK	135	138	18.38	18.51	18.29		
100	QPSK	270	0	18.38	18.52	18.38	19.6	0.0
100	16QAM	1	1	18.32	18.37	18.31	19.6	0.0
100	16QAM	1	1	18.25	18.35	18.30	19.6	0.0
100	256QAM	1	1	18.34	18.42	18.30	19.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.47	18.52	18.46	19.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.44	18.49	18.39	19.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.50	18.45	18.46	19.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.43	18.54	18.37	19.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.44	18.50	18.40	19.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.51	18.46	18.48	19.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.48	18.48	18.39	19.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.48	18.49	18.44	19.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.45	18.55	18.41	19.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.46	18.49	18.41	19.6	0.0

Part270 n77 Ant4 DSI3

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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		3500.01		16.6	0.0
100	PI2 BPSK	1	271		3500.01			
100	PI2 BPSK	135	0		3500.01		16.6	0.0
100	PI2 BPSK	135	69		3500.01		16.6	0.0
100	PI2 BPSK	135	138		3500.01		16.6	0.0
100	PI2 BPSK	270	0		3500.01			
100	QPSK	1	1		3500.01			
100	QPSK	1	137		3500.01		16.6	0.0
100	QPSK	1	271		3500.01			
100	QPSK	135	0		3500.01		16.6	0.0
100	QPSK	135	69		3500.01		16.6	0.0
100	QPSK	135	138		3500.01		16.6	0.0
100	QPSK	270	0		3500.01		16.6	0.0
100	16QAM	1	1		3500.01		16.6	0.0
100	16QAM	1	1		3500.01		16.6	0.0
100	256QAM	1	1		3500.01		16.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.41	15.49	15.45	16.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.44	15.51	15.43	16.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.43	15.48	15.47	16.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.51	15.40	15.41	16.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.50	15.48	15.40	16.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.39	15.42	15.51	16.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.40	15.45	15.41	16.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.44	15.44	15.41	16.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.42	15.41	15.50	16.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.49	15.49	15.42	16.6	0.0



Part27Q n77 PC2 Ant4 DSI3

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different RB sizes and offsets.

Part27O n78 Ant4 DSI3

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different RB sizes and offsets.

Part27Q n78 Ant4 DSI3

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different RB sizes and offsets.



Part270 n77 Ant5 DSI3

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)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	137	16.03	16.17	16.07	17.2	0.0
100	PI2 BPSK	1	271	15.97	16.05	15.92		
100	PI2 BPSK	135	0	15.83	15.99	15.90	17.2	0.0
100	PI2 BPSK	135	69	16.09	16.13	16.01	17.2	0.0
100	PI2 BPSK	135	138	15.98	16.09	15.97	17.2	0.0
100	PI2 BPSK	270	0	15.96	16.08	15.96		
100	QPSK	1	1	16.07	16.20	16.14		
100	QPSK	1	137	16.02	16.13	16.07	17.2	0.0
100	QPSK	1	271	16.00	16.15	15.98		
100	QPSK	135	0	15.95	16.07	15.84	17.2	0.0
100	QPSK	135	69	16.11	16.17	16.13	17.2	0.0
100	QPSK	135	138	16.01	16.11	15.94	17.2	0.0
100	QPSK	270	0	15.96	16.13	16.07		
100	16QAM	1	1	15.97	15.98	15.92	17.2	0.0
100	16QAM	1	1	15.79	15.97	15.90	17.2	0.0
100	256QAM	1	1	15.93	16.01	15.86	17.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3743.01	3840	3940.02		
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3735	3840	3945		
Channel								
Frequency (MHz)								
50	QPSK	1	1	648668	656000	663668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)								
30	QPSK	1	1	647688	656000	664334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3713.02	3840	3950.01		
Channel								
Frequency (MHz)								
15	QPSK	1	1	647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	3707.53	3840	3972.51		

Part270 n77 PC2 Ant5 DSI3

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)								
100	PI2 BPSK	1	1	19.01	19.03	19.01		
100	PI2 BPSK	1	137	18.96	19.07	18.85	20.2	0.0
100	PI2 BPSK	1	271	18.92	19.01	18.79		
100	PI2 BPSK	135	0	18.83	18.95	18.84	20.2	0.0
100	PI2 BPSK	135	69	18.95	19.00	18.94	20.2	0.0
100	PI2 BPSK	135	138	18.88	19.05	18.84	20.2	0.0
100	PI2 BPSK	270	0	18.86	19.00	18.82		
100	QPSK	1	1	19.01	19.13	19.07		
100	QPSK	1	137	18.97	19.05	19.03	20.2	0.0
100	QPSK	1	271	18.86	19.10	18.87		
100	QPSK	135	0	18.92	18.98	18.80	20.2	0.0
100	QPSK	135	69	19.00	19.09	19.07	20.2	0.0
100	QPSK	135	138	18.87	19.06	18.81	20.2	0.0
100	QPSK	270	0	18.95	19.07	18.97		
100	16QAM	1	1	18.86	18.82	18.81	20.2	0.0
100	16QAM	1	1	18.70	18.83	18.80	20.2	0.0
100	256QAM	1	1	18.84	18.91	18.83	20.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	647688	656000	662668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)								
70	QPSK	1	1	647000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3735	3840	3945		
Channel								
Frequency (MHz)								
50	QPSK	1	1	646668	656000	663668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)								
30	QPSK	1	1	645668	656000	664000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3710.01	3840	3970.02		
Channel								
Frequency (MHz)								
15	QPSK	1	1	644668	656000	664668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	3705	3840	3975		

Part27Q n77 Ant5 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 653334	Power Middle Ch./Freq. 653334	Power High Ch./Freq. 653334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3500.01								
100	PI2 BPSK	1	1			16.20		
100	PI2 BPSK	1	137			16.13	17.2	0.0
100	PI2 BPSK	1	271			16.10		
100	PI2 BPSK	135	0			16.11	17.2	0.0
100	PI2 BPSK	135	69			16.13	17.2	0.0
100	PI2 BPSK	135	138			16.09	17.2	0.0
100	PI2 BPSK	270	0			16.10		
100	QPSK	1	1			16.26		
100	QPSK	1	137			16.12	17.2	0.0
100	QPSK	1	271			16.23		
100	QPSK	135	0			16.04	17.2	0.0
100	QPSK	135	69			16.17	17.2	0.0
100	QPSK	135	138			16.10	17.2	0.0
100	QPSK	270	0			16.15		
100	16QAM	1	1			15.88	17.2	0.0
100	16QAM	1	1			15.96	17.2	0.0
100	256QAM	1	1			15.97	17.2	0.0
Channel								
Frequency (MHz)								
633000								
90	QPSK	1	1	633668	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3482.02	3500.01	3510		
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3485.01	3500.01	3515.01		
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3475.02	3500.01	3525		
Channel								
Frequency (MHz)								
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3470.01	3500.01	3530.01		
Channel								
Frequency (MHz)								
15	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	3465.01	3500.01	3545.01		



Part27Q n77 PC2 Ant5 DSI3

Table with columns: 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). Contains multiple rows for different modulation schemes like Pi2 BPSK and QPSK across various RB sizes and power levels.

Part27O n78 Ant5 DSI3

Table with columns: 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). Contains multiple rows for different modulation schemes like Pi2 BPSK and QPSK across various RB sizes and power levels.

Part27Q n78 Ant5 DSI3

Table with columns: 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). Contains multiple rows for different modulation schemes like Pi2 BPSK and QPSK across various RB sizes and power levels.



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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								
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl2 BPSK	1	1	19.07	19.13	19.02		
100	Pl2 BPSK	1	137	18.92	19.08	18.90	20.3	0.0
100	Pl2 BPSK	1	271	18.71	18.97	18.72		
100	Pl2 BPSK	135	0	18.89	19.04	18.74	20.3	0.0
100	Pl2 BPSK	135	69	18.90	18.90	18.94	20.3	0.0
100	Pl2 BPSK	135	138	18.96	18.88	18.99	20.3	0.0
100	Pl2 BPSK	270	0	19.09	19.13	18.90		
100	QPSK	1	1	19.04	19.21	19.11		
100	QPSK	1	137	18.84	18.99	18.91	20.3	0.0
100	QPSK	1	271	18.93	19.01	18.90		
100	QPSK	135	0	18.98	18.91	18.73	20.3	0.0
100	QPSK	135	69	18.84	18.19	19.04	20.3	0.0
100	QPSK	135	138	18.95	18.79	18.86	20.3	0.0
100	QPSK	270	0	18.82	19.04	18.92		
100	16QAM	1	1	18.84	19.00	18.86	20.3	0.0
100	16QAM	1	1	18.89	19.01	18.71	20.3	0.0
100	256QAM	1	1	18.04	18.18	18.12	18.5	1.8
Channel								
Frequency (MHz)				5032.00	5189.99	5349.99		
90	QPSK	1	1	18.82	19.11	18.84	20.3	0.0
Channel								
Frequency (MHz)				5072.04	5189.98	5299.98		
80	QPSK	1	1	23.32	23.22	23.43	20.3	0.0
Channel								
Frequency (MHz)				5302.02	5189.98	5310.00		
70	QPSK	1	1	23.31	23.22	23.55	20.3	0.0
Channel								
Frequency (MHz)				5052.00	5189.98	5319.98		
60	QPSK	1	1	18.91	18.95	18.90	20.3	0.0
Channel								
Frequency (MHz)				5042.04	5189.98	5339.98		
50	QPSK	1	1	25.12	25.92	26.64	20.3	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.78	18.99	18.80	20.3	0.0
Channel								
Frequency (MHz)				5022.00	5189.98	5349.98		
30	QPSK	1	1	23.11	23.22	23.43	20.3	0.0
Channel								
Frequency (MHz)				5012.04	5189.98	5359.98		
20	QPSK	1	1	23.02	23.22	23.79	20.3	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								
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl2 BPSK	1	1	22.08	22.01	21.94		
100	Pl2 BPSK	1	137	21.89	22.06	21.83	23.3	0.0
100	Pl2 BPSK	1	271	21.74	22.11	21.94		
100	Pl2 BPSK	135	0	21.80	21.92	21.82	23.3	0.0
100	Pl2 BPSK	135	69	21.98	22.05	21.96	23.3	0.0
100	Pl2 BPSK	135	138	21.68	21.94	21.70	23.3	0.0
100	Pl2 BPSK	270	0	21.89	21.91	21.71		
100	QPSK	1	1	21.97	22.24	22.03		
100	QPSK	1	137	22.05	22.02	22.00	23.3	0.0
100	QPSK	1	271	22.06	22.13	21.86		
100	QPSK	135	0	21.95	21.96	21.83	23.3	0.0
100	QPSK	135	69	22.05	22.11	21.88	23.3	0.0
100	QPSK	135	138	21.84	21.89	21.96	23.3	0.0
100	QPSK	270	0	21.85	21.95	21.78		
100	16QAM	1	1	21.86	21.96	21.97	23.3	0.0
100	16QAM	1	1	21.57	21.56	21.46	23.3	0.0
100	256QAM	1	1	20.13	20.19	20.07	21.5	1.8
Channel								
Frequency (MHz)				5032.00	5189.98	5339.99		
90	QPSK	1	1	21.70	22.10	21.78	23.3	0.0
Channel								
Frequency (MHz)				5072.04	5189.98	5299.98		
80	QPSK	1	1	21.82	22.11	21.93	23.3	0.0
Channel								
Frequency (MHz)				5302.02	5189.98	5310.00		
70	QPSK	1	1	21.85	22.03	21.92	23.3	0.0
Channel								
Frequency (MHz)				5052.00	5189.98	5319.98		
60	QPSK	1	1	21.80	22.15	21.88	23.3	0.0
Channel								
Frequency (MHz)				5042.04	5189.98	5339.98		
50	QPSK	1	1	25.12	25.92	26.64	23.3	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.67	21.96	21.82	23.3	0.0
Channel								
Frequency (MHz)				5022.00	5189.98	5349.98		
30	QPSK	1	1	23.11	23.22	23.43	23.3	0.0
Channel								
Frequency (MHz)				5012.04	5189.98	5359.98		
20	QPSK	1	1	21.83	22.05	21.76	23.3	0.0

Part270 n77 Ant7 DSI3

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								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	17.71	17.76	17.65		
100	Pl2 BPSK	1	137	17.53	17.53	17.51	19.5	0.0
100	Pl2 BPSK	1	271	17.55	17.59	17.51		
100	Pl2 BPSK	135	0	17.55	17.52	17.57	19.5	0.0
100	Pl2 BPSK	135	69	17.58	17.68	17.60	19.5	0.0
100	Pl2 BPSK	135	138	17.58	17.61	17.52	19.5	0.0
100	Pl2 BPSK	270	0	17.51	17.57	17.55		
100	QPSK	1	1	17.83	17.78	17.72		
100	QPSK	1	137	17.59	17.67	17.59	19.5	0.0
100	QPSK	1	271	17.61	17.65	17.57		
100	QPSK	135	0	17.53	17.58	17.59	19.5	0.0
100	QPSK	135	69	17.87	17.71	17.68	19.5	0.0
100	QPSK	135	138	17.52	17.53	17.69	19.5	0.0
100	QPSK	270	0	17.58	17.68	17.57		
100	16QAM	1	1	17.53	17.54	17.53	19.5	0.0
100	16QAM	1	1	17.54	17.59	17.53	19.5	0.0
100	256QAM	1	1	17.75	17.74	17.70	19.5	0.0
Channel								
Frequency (MHz)				6490.98	6590.99	6690.99		
90	QPSK	1	1	17.59	17.58	17.51	19.5	0.0
Channel								
Frequency (MHz)				6493.34	6590.99	6626.68		
80	QPSK	1	1	17.55	17.55	17.51	19.5	0.0
Channel								
Frequency (MHz)				6490.98	6590.99	6630.00		
70	QPSK	1	1	17.58	17.58	17.54	19.5	0.0
Channel								
Frequency (MHz)				6486.68	6590.99	6633.34		
60	QPSK	1	1	17.57	17.58	17.52	19.5	0.0
Channel								
Frequency (MHz)				6483.34	6590.99	6636.68		
50	QPSK	1	1	17.55	17.59	17.57	19.5	0.0
Channel								
Frequency (MHz)				3720	3840	3930		
40	QPSK	1	1	17.59	17.59	17.55	19.5	0.0
Channel								
Frequency (MHz)				6476.68	6590.99	6643.34		
30	QPSK	1	1	17.53	17.52	17.57	19.5	0.0
Channel								
Frequency (MHz)				6473.34	6590.99	6646.68		
20	QPSK	1	1	17.51	17.57	17.58	19.5	0.0
Channel								
Frequency (MHz)				6471.68	6590.99	6646.68		
15	QPSK	1	1	17.52	17.51	17.57	19.5	0.0
Channel								
Frequency (MHz)				6470.00	6590.99	6650.00		
10	QPSK	1	1	17.59	17.58	17.55	19.5	0.0



Part270 n77 PC2 Ant7 DSI3

Table with columns: 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). Contains multiple rows for different modulation types like QPSK and Pi2 BPSK across various frequency channels.

Part27Q n77 Ant7 DSI3

Table with columns: 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). Contains multiple rows for different modulation types like QPSK and Pi2 BPSK across various frequency channels.

Part27Q n77 PC2 Ant7 DSI3

Table with columns: 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). Contains multiple rows for different modulation types like QPSK and Pi2 BPSK across various frequency channels.



Part270 n78 Ant7 DSI3									
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)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		17.94				0.0
100	PI2 BPSK	1	271		17.81				
100	PI2 BPSK	135	0		17.85			19.5	0.0
100	PI2 BPSK	135	69		17.94			19.5	0.0
100	PI2 BPSK	135	138		17.85			19.5	0.0
100	PI2 BPSK	270	0		17.90			19.5	0.0
100	QPSK	1	1		18.07			19.5	0.0
100	QPSK	1	137		17.93				
100	QPSK	1	271		17.98				
100	QPSK	135	0		17.74			19.5	0.0
100	QPSK	135	69		17.94			19.5	0.0
100	QPSK	135	138		17.78			19.5	0.0
100	QPSK	270	0		17.83			19.5	0.0
100	16QAM	1	1		17.79			19.5	0.0
100	64QAM	1	1		17.73			19.5	0.0
100	256QAM	1	1		17.70			19.5	0.0
Channel									
Frequency (MHz)									
648668				650000	650334				
3745.02				3750	3755.01				
90	QPSK	1	1	17.95	17.99	17.92	19.5	0.0	
Channel									
Frequency (MHz)									
649334				650000	650668				
3740.01				3750	3759.02				
80	QPSK	1	1	17.95	18.00	17.93	19.5	0.0	
Channel									
Frequency (MHz)									
649000				650000	651000				
3735				3750	3765				
70	QPSK	1	1	17.97	18.00	17.90	19.5	0.0	
Channel									
Frequency (MHz)									
648668				650000	651334				
3730.02				3750	3770.01				
60	QPSK	1	1	17.96	17.92	17.89	19.5	0.0	
Channel									
Frequency (MHz)									
648334				650000	651668				
3725.01				3750	3775.02				
50	QPSK	1	1	17.89	17.93	17.87	19.5	0.0	
Channel									
Frequency (MHz)									
648000				650000	652000				
3720				3750	3780				
40	QPSK	1	1	18.00	17.97	17.86	19.5	0.0	
Channel									
Frequency (MHz)									
647668				650000	652334				
3715.02				3750	3785.01				
30	QPSK	1	1	17.94	18.02	17.89	19.5	0.0	
Channel									
Frequency (MHz)									
647334				650000	652668				
3710.01				3750	3790.02				
20	QPSK	1	1	17.90	18.02	17.93	19.5	0.0	
Channel									
Frequency (MHz)									
647168				650000	652934				
3707.53				3750	3792.51				
15	QPSK	1	1	17.94	18.00	17.88	19.5	0.0	
Channel									
Frequency (MHz)									
647000				650000	653000				
3705				3750	3795				
10	QPSK	1	1	17.88	17.96	17.86	19.5	0.0	

Part27Q n78 Ant7 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		18.10				
100	PI2 BPSK	1	271		18.00			19.5	0.0
100	PI2 BPSK	135	0		17.86			19.5	0.0
100	PI2 BPSK	135	69		17.99			19.5	0.0
100	PI2 BPSK	135	138		18.02			19.5	0.0
100	PI2 BPSK	270	0		17.95			19.5	0.0
100	PI2 BPSK	270	0		17.99			19.5	0.0
100	QPSK	1	1		18.16			19.5	0.0
100	QPSK	1	137		18.01				
100	QPSK	1	271		18.08				
100	QPSK	135	0		18.01			19.5	0.0
100	QPSK	135	69		18.05			19.5	0.0
100	QPSK	135	138		17.93			19.5	0.0
100	QPSK	270	0		18.00			19.5	0.0
100	16QAM	1	1		17.93			19.5	0.0
100	64QAM	1	1		17.90			19.5	0.0
100	256QAM	1	1		17.88			19.5	0.0
Channel									
Frequency (MHz)									
633000				633334	633668				
3495				3500.01	3505.02				
90	QPSK	1	1	17.94	18.00	17.98	19.5	0.0	
Channel									
Frequency (MHz)									
632668				633334	634000				
3490.02				3500.01	3510				
80	QPSK	1	1	18.02	18.01	17.91	19.5	0.0	
Channel									
Frequency (MHz)									
632334				633334	634334				
3485.01				3500.01	3515.01				
70	QPSK	1	1	18.00	18.00	17.90	19.5	0.0	
Channel									
Frequency (MHz)									
632000				633334	634668				
3480				3500.01	3520.02				
60	QPSK	1	1	17.99	17.99	17.97	19.5	0.0	
Channel									
Frequency (MHz)									
631668				633334	635000				
3475.02				3500.01	3525				
50	QPSK	1	1	18.01	18.04	17.94	19.5	0.0	
Channel									
Frequency (MHz)									
631334				633334	635334				
3470.01				3500.01	3530.01				
40	QPSK	1	1	17.94	18.04	17.98	19.5	0.0	
Channel									
Frequency (MHz)									
631000				633334	635668				
3465				3500.01	3535.02				
30	QPSK	1	1	17.94	18.05	17.92	19.5	0.0	
Channel									
Frequency (MHz)									
630668				633334	636000				
3460.02				3500.01	3540				
20	QPSK	1	1	18.05	18.03	17.94	19.5	0.0	
Channel									
Frequency (MHz)									
630500				633334	636368				
3457.5				3500.01	3542.52				
15	QPSK	1	1	17.96	18.00	17.95	19.5	0.0	
Channel									
Frequency (MHz)									
630334				633334	636334				
3455.01				3500.01	3545.01				
10	QPSK	1	1	18.03	18.02	17.98	19.5	0.0	



Reduced Power Mode for DSI 4

Part270 n77 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 662000		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.58	19.84	19.53		
100	PI2 BPSK	1	137	19.52	19.60	19.54	20.7	0.0
100	PI2 BPSK	1	271	19.51	19.59	19.50		
100	PI2 BPSK	135	0	19.55	19.60	19.46	20.7	0.0
100	PI2 BPSK	135	69	19.40	19.46	19.37	20.7	0.0
100	PI2 BPSK	135	138	19.48	19.51	19.44	20.7	0.0
100	PI2 BPSK	270	0	19.54	19.59	19.45		
100	QPSK	1	1	19.63	19.67	19.59		
100	QPSK	1	137	19.44	19.58	19.53	20.7	0.0
100	QPSK	1	271	19.32	19.46	19.41		
100	QPSK	135	0	19.48	19.54	19.42	20.7	0.0
100	QPSK	135	69	19.43	19.56	19.47	20.7	0.0
100	QPSK	135	138	19.30	19.44	19.31	20.7	0.0
100	QPSK	270	0	19.37	19.47	19.36		
100	16QAM	1	1	19.42	19.50	19.38	20.7	0.0
100	64QAM	1	1	19.27	19.40	19.35	20.7	0.0
100	256QAM	1	1	18.98	19.03	18.93	20.0	0.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.55	19.59	19.51	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.53	19.61	19.47	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.56	19.56	19.48	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.51	19.59	19.50	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.49	19.61	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.49	19.60	19.46	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.48	19.58	19.45	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.48	19.60	19.51	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.52	19.55	19.50	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.57	19.56	19.54	20.7	0.0

Part270 n77 PC2 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 662000		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.80	22.82	22.59		
100	PI2 BPSK	1	137	22.54	22.61	22.58	23.7	0.0
100	PI2 BPSK	1	271	22.48	22.64	22.57		
100	PI2 BPSK	135	0	22.58	22.80	22.43	23.7	0.0
100	PI2 BPSK	135	69	22.47	22.46	22.36	23.7	0.0
100	PI2 BPSK	135	138	22.55	22.54	22.51	23.7	0.0
100	PI2 BPSK	270	0	22.53	22.57	22.49		
100	QPSK	1	1	22.61	22.67	22.59		
100	QPSK	1	137	22.44	22.58	22.59	23.7	0.0
100	QPSK	1	271	22.28	22.41	22.37		
100	QPSK	135	0	22.54	22.60	22.40	23.7	0.0
100	QPSK	135	69	22.43	22.53	22.48	23.7	0.0
100	QPSK	135	138	22.35	22.44	22.37	23.7	0.0
100	QPSK	270	0	22.43	22.53	22.38		
100	16QAM	1	1	22.45	22.55	22.34	23.7	0.0
100	64QAM	1	1	22.31	22.36	22.35	23.7	0.0
100	256QAM	1	1	21.21	21.26	21.22	22.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.57	22.63	22.49	23.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.49	22.56	22.50	23.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.47	22.54	22.47	23.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.58	22.80	22.50	23.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.46	22.54	22.54	23.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.58	22.61	22.51	23.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.48	22.62	22.45	23.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.50	22.52	22.52	23.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.53	22.83	22.44	23.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.54	22.60	22.51	23.7	0.0

Part27Q n77 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 633000	Middle Ch. / Freq. 633334	High Ch. / Freq. 633668		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.57	19.57	19.57		
100	PI2 BPSK	1	137	19.51	19.51	19.51	20.7	0.0
100	PI2 BPSK	1	271	19.45	19.45	19.45		
100	PI2 BPSK	135	0	19.55	19.55	19.45	20.7	0.0
100	PI2 BPSK	135	69	19.40	19.40	19.40	20.7	0.0
100	PI2 BPSK	135	138	19.48	19.48	19.48	20.7	0.0
100	PI2 BPSK	270	0	19.53	19.53	19.53		
100	QPSK	1	1	19.58	19.58	19.58		
100	QPSK	1	137	19.53	19.53	19.53	20.7	0.0
100	QPSK	1	271	19.35	19.35	19.35		
100	QPSK	135	0	19.38	19.38	19.38	20.7	0.0
100	QPSK	135	69	19.48	19.48	19.48	20.7	0.0
100	QPSK	135	138	19.30	19.30	19.30	20.7	0.0
100	QPSK	270	0	19.38	19.38	19.38		
100	16QAM	1	1	19.37	19.37	19.37	20.7	0.0
100	64QAM	1	1	19.05	19.05	19.05	20.7	0.0
100	256QAM	1	1	18.05	18.05	18.05	19.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.51	19.55	19.52	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.48	19.52	19.52	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.54	19.47	19.46	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.54	19.49	19.46	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.51	19.44	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.47	19.47	19.51	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.45	19.47	19.49	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.44	19.50	19.47	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.49	19.55	19.49	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.52	19.52	19.48	20.7	0.0



Part27Q n77 PC2 Ant4 Sensor off DSI4

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								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.54	3500.01	633334		
100	Pi2 BPSK	1	137	22.52	3500.01	633334	23.7	0.0
100	Pi2 BPSK	1	271	22.52	3500.01	633334		
100	Pi2 BPSK	135	0	22.54	3500.01	633334	23.7	0.0
100	Pi2 BPSK	135	69	22.41	3500.01	633334	23.7	0.0
100	Pi2 BPSK	135	138	22.40	3500.01	633334	23.7	0.0
100	Pi2 BPSK	270	0	22.49	3500.01	633334	23.7	0.0
100	QPSK	1	1	22.59	3500.01	633334		
100	QPSK	1	137	22.47	3500.01	633334	23.7	0.0
100	QPSK	1	271	22.49	3500.01	633334		
100	QPSK	135	0	22.37	3500.01	633334	23.7	0.0
100	QPSK	135	69	22.47	3500.01	633334	23.7	0.0
100	QPSK	135	138	22.37	3500.01	633334	23.7	0.0
100	QPSK	270	0	22.43	3500.01	633334	23.7	0.0
100	16QAM	1	1	22.49	3500.01	633334	23.7	0.0
100	64QAM	1	1	22.30	3500.01	633334	23.7	0.0
100	256QAM	1	1	21.82	3500.01	633334	22.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.48	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.47	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.50	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.48	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.53	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.48	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.55	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.50	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.53	3500.01	633334	23.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.48	3500.01	633334	23.7	0.0

Part27Q n78 Ant4 Sensor off DSI4

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								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.61	3750	650000		
100	Pi2 BPSK	1	137	19.49	3750	650000	20.7	0.0
100	Pi2 BPSK	1	271	19.44	3750	650000		
100	Pi2 BPSK	135	0	19.52	3750	650000	20.7	0.0
100	Pi2 BPSK	135	69	19.41	3750	650000	20.7	0.0
100	Pi2 BPSK	135	138	19.40	3750	650000	20.7	0.0
100	Pi2 BPSK	270	0	19.52	3750	650000	20.7	0.0
100	QPSK	1	1	19.64	3750	650000		
100	QPSK	1	137	19.51	3750	650000	20.7	0.0
100	QPSK	1	271	19.38	3750	650000		
100	QPSK	135	0	19.51	3750	650000	20.7	0.0
100	QPSK	135	69	19.53	3750	650000	20.7	0.0
100	QPSK	135	138	19.33	3750	650000	20.7	0.0
100	QPSK	270	0	19.42	3750	650000	20.7	0.0
100	16QAM	1	1	19.38	3750	650000	20.7	0.0
100	64QAM	1	1	19.33	3750	650000	20.7	0.0
100	256QAM	1	1	18.96	3750	650000	20.0	0.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.58	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.59	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.80	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.58	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.51	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.58	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.54	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.54	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.55	650000	650334	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.54	650000	650334	20.7	0.0

Part27Q n78 Ant4 Sensor off DSI4

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								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.71	630000	633334		
100	Pi2 BPSK	1	137	19.59	630000	633334	20.7	0.0
100	Pi2 BPSK	1	271	19.49	630000	633334		
100	Pi2 BPSK	135	0	19.67	630000	633334	20.7	0.0
100	Pi2 BPSK	135	69	19.47	630000	633334	20.7	0.0
100	Pi2 BPSK	135	138	19.46	630000	633334	20.7	0.0
100	Pi2 BPSK	270	0	19.67	630000	633334	20.7	0.0
100	QPSK	1	1	19.90	630000	633334		
100	QPSK	1	137	19.64	630000	633334	20.7	0.0
100	QPSK	1	271	19.50	630000	633334		
100	QPSK	135	0	19.83	630000	633334	20.7	0.0
100	QPSK	135	69	19.66	630000	633334	20.7	0.0
100	QPSK	135	138	19.44	630000	633334	20.7	0.0
100	QPSK	270	0	19.54	630000	633334	20.7	0.0
100	16QAM	1	1	19.50	630000	633334	20.7	0.0
100	64QAM	1	1	19.41	630000	633334	20.7	0.0
100	256QAM	1	1	19.19	630000	633334	20.0	0.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.70	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.72	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.67	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.77	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.69	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.73	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.67	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.89	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.67	630000	633334	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.70	630000	633334	20.7	0.0



n41 Ant7 Sensor off DSI4

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.07	19.13	19.21		
100	PI2 BPSK	1	137	18.92	19.08	19.90		0.0
100	PI2 BPSK	1	271	18.71	18.97	18.72		
100	PI2 BPSK	135	0	18.89	19.04	18.74	20.3	0.0
100	PI2 BPSK	135	69	18.90	18.90	18.94	20.3	0.0
100	PI2 BPSK	135	138	18.96	18.88	18.99	20.3	0.0
100	PI2 BPSK	270	0	19.09	18.13	18.90		
100	QPSK	1	1	19.04	19.21	19.11		
100	QPSK	1	137	18.94	18.99	18.91	20.3	0.0
100	QPSK	1	271	18.93	19.01	18.90		
100	QPSK	135	0	18.98	18.91	18.73	20.3	0.0
100	QPSK	135	69	18.84	18.19	19.04	20.3	0.0
100	QPSK	135	138	18.95	18.79	18.88	20.3	0.0
100	QPSK	270	0	18.82	18.04	18.92		
100	16QAM	1	1	18.84	19.00	18.86	20.3	0.0
100	16QAM	1	1	18.89	19.01	18.71	20.3	0.0
100	256QAM	1	1	18.04	18.18	18.12	18.5	1.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.82	19.11	18.84	20.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.99	19.03	18.90	20.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.80	19.10	18.93	20.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.91	18.95	18.90	20.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.89	19.00	18.90	20.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.78	18.99	18.80	20.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.88	18.90	18.90	20.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.95	18.90	19.03	20.3	0.0

n41 PC2 Ant7 Sensor off DSI4

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.08	22.01	21.94		
100	PI2 BPSK	1	137	21.89	22.06	21.83	23.3	0.0
100	PI2 BPSK	1	271	21.74	22.11	21.94		
100	PI2 BPSK	135	0	21.80	21.82	21.82	23.3	0.0
100	PI2 BPSK	135	69	21.98	22.05	21.96	23.3	0.0
100	PI2 BPSK	135	138	21.68	21.94	21.70	23.3	0.0
100	PI2 BPSK	270	0	21.89	21.91	21.71		
100	QPSK	1	1	21.97	22.24	22.03		
100	QPSK	1	137	22.06	22.02	22.00	23.3	0.0
100	QPSK	1	271	22.06	22.13	21.86		
100	QPSK	135	0	21.95	21.96	21.83	23.3	0.0
100	QPSK	135	69	22.06	22.11	21.98	23.3	0.0
100	QPSK	135	138	21.84	21.89	21.96	23.3	0.0
100	QPSK	270	0	21.86	21.96	21.79		
100	16QAM	1	1	21.86	21.96	21.97	23.3	0.0
100	16QAM	1	1	21.57	21.56	21.46	23.3	0.0
100	256QAM	1	1	20.13	20.19	20.07	21.5	1.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.70	22.10	21.78	23.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.82	22.11	21.93	23.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.85	22.03	21.92	23.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.80	22.15	21.88	23.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.73	22.01	21.77	23.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.67	21.96	21.82	23.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.78	21.97	21.80	23.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.83	22.05	21.76	23.3	0.0

Part270 n77 Ant7 Sensor off DSI4

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.36	18.44	18.41		
100	PI2 BPSK	1	137	18.31	18.35	18.31	20.3	0.0
100	PI2 BPSK	1	271	18.39	18.34	18.33		
100	PI2 BPSK	135	0	18.39	18.32	18.32	20.3	0.0
100	PI2 BPSK	135	69	18.32	18.35	18.39	20.3	0.0
100	PI2 BPSK	135	138	18.38	18.39	18.32	20.3	0.0
100	PI2 BPSK	270	0	18.37	18.33	18.36		
100	QPSK	1	1	18.49	18.52	18.45		
100	QPSK	1	137	18.32	18.35	18.33	20.3	0.0
100	QPSK	1	271	18.34	18.40	18.32		
100	QPSK	135	0	18.38	18.38	18.34	20.3	0.0
100	QPSK	135	69	18.38	18.39	18.38	20.3	0.0
100	QPSK	135	138	18.34	18.36	18.31	20.3	0.0
100	QPSK	270	0	18.35	18.36	18.33		
100	16QAM	1	1	18.32	18.39	18.32	20.3	0.0
100	16QAM	1	1	18.32	18.35	18.36	20.3	0.0
100	256QAM	1	1	17.95	18.08	17.93	19.5	0.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.35	18.41	18.33	20.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.35	18.39	18.32	20.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.34	18.33	18.33	20.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.36	18.36	18.36	20.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.33	18.38	18.39	20.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.39	18.37	18.34	20.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.33	18.39	18.34	20.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.33	18.31	18.36	20.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.39	18.36	18.36	20.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.39	18.32	18.37	20.3	0.0



Part270 n78 Ant7 Sensor off DSI4									
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	PI2 BPSK	1	1		18.35				
100	PI2 BPSK	1	137		18.40			20.3	0.0
100	PI2 BPSK	1	271		18.34				
100	PI2 BPSK	135	0		18.32			20.3	0.0
100	PI2 BPSK	135	69		18.31			20.3	0.0
100	PI2 BPSK	135	138		18.39			20.3	0.0
100	PI2 BPSK	270	0		18.38				
100	QPSK	1	1		18.43			20.3	0.0
100	QPSK	1	137		18.38				
100	QPSK	1	271		18.38				
100	QPSK	135	0		18.33			20.3	0.0
100	QPSK	135	69		18.41			20.3	0.0
100	QPSK	135	138		18.34			20.3	0.0
100	QPSK	270	0		18.35				
100	16QAM	1	1		18.32			20.3	0.0
100	64QAM	1	1		18.38			20.3	0.0
100	256QAM	1	1		17.55		19.5	0.8	
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	20.3	0.0	
90	QPSK	1	1		18.38	18.37	18.34	20.3	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	20.3	0.0	
80	QPSK	1	1		18.40	18.39	18.38	20.3	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	20.3	0.0	
70	QPSK	1	1		18.38	18.40	18.39	20.3	0.0
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	20.3	0.0	
60	QPSK	1	1		18.39	18.38	18.34	20.3	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	20.3	0.0	
50	QPSK	1	1		18.33	18.34	18.38	20.3	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	20.3	0.0	
40	QPSK	1	1		18.39	18.40	18.38	20.3	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	20.3	0.0	
30	QPSK	1	1		18.39	18.35	18.37	20.3	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	20.3	0.0	
20	QPSK	1	1		18.36	18.38	18.32	20.3	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3795.01	20.3	0.0	
15	QPSK	1	1		18.35	18.37	18.34	20.3	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	20.3	0.0	
10	QPSK	1	1		18.33	18.37	18.39	20.3	0.0

Part27Q n78 Ant7 Sensor off DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)					3500.01				
100	PI2 BPSK	1	1		18.60				
100	PI2 BPSK	1	137		18.57			20.3	0.0
100	PI2 BPSK	1	271		18.46				
100	PI2 BPSK	135	0		18.41			20.3	0.0
100	PI2 BPSK	135	69		18.57			20.3	0.0
100	PI2 BPSK	135	138		18.35			20.3	0.0
100	PI2 BPSK	270	0		18.45				
100	QPSK	1	1		18.74			20.3	0.0
100	QPSK	1	137		18.67				
100	QPSK	1	271		18.58				
100	QPSK	135	0		18.56			20.3	0.0
100	QPSK	135	69		18.68			20.3	0.0
100	QPSK	135	138		18.46			20.3	0.0
100	QPSK	270	0		18.46				
100	16QAM	1	1		18.47			20.3	0.0
100	64QAM	1	1		18.39			20.3	0.0
100	256QAM	1	1		18.45		19.5	0.8	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	20.3	0.0	
90	QPSK	1	1		18.64	18.71	18.62	20.3	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	20.3	0.0	
80	QPSK	1	1		18.65	18.68	18.60	20.3	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	20.3	0.0	
70	QPSK	1	1		18.64	18.68	18.58	20.3	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	20.3	0.0	
60	QPSK	1	1		18.62	18.65	18.59	20.3	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	20.3	0.0	
50	QPSK	1	1		18.66	18.68	18.60	20.3	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	20.3	0.0	
40	QPSK	1	1		18.67	18.69	18.61	20.3	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	20.3	0.0	
30	QPSK	1	1		18.60	18.70	18.60	20.3	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	20.3	0.0	
20	QPSK	1	1		18.60	18.65	18.64	20.3	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.02	3500.01	3545.02	20.3	0.0	
15	QPSK	1	1		18.63	18.69	18.60	20.3	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	20.3	0.0	
10	QPSK	1	1		18.60	18.70	18.64	20.3	0.0



Reduced Power Mode for DSI 6

n2 Ant0 DSI6									
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				372000	376000	380000			
Frequency (MHz)				1850	1850	1850			
20	PI2 BPSK	1	1	20.89	20.93	20.94			
20	PI2 BPSK	1	53	20.83	20.86	20.82	21.8	0.0	
20	PI2 BPSK	1	104	20.79	20.87	20.78			
20	PI2 BPSK	50	0	20.84	20.91	20.79	21.8	0.0	
20	PI2 BPSK	50	28	20.85	20.89	20.83	21.8	0.0	
20	PI2 BPSK	50	56	20.81	20.85	20.70	21.8	0.0	
20	PI2 BPSK	100	0	20.77	20.91	20.81			
20	QPSK	1	1	20.86	20.96	20.91			
20	QPSK	1	53	20.73	20.84	20.72	21.8	0.0	
20	QPSK	1	104	20.69	20.76	20.68			
20	QPSK	50	0	20.80	20.90	20.77	21.8	0.0	
20	QPSK	50	28	20.89	20.92	20.86	21.8	0.0	
20	QPSK	50	56	20.83	20.87	20.76	21.8	0.0	
20	QPSK	100	0	20.84	20.89	20.80			
20	16QAM	1	1	20.66	20.82	20.77	21.8	0.0	
20	64QAM	1	1	20.38	20.43	20.40	21.5	0.3	
20	256QAM	1	1	18.18	18.29	18.24	19.5	2.3	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1850	1852.5	21.8	0.0	
15	QPSK	1	1	20.75	20.89	20.77	21.8	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1850	1905	21.8	0.0	
10	QPSK	1	1	20.78	20.90	20.81	21.8	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1850	1897.5	21.8	0.0	
5	QPSK	1	1	20.82	20.92	20.83	21.8	0.0	

n5 Ant0 Default									
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)				834	838.5	842			
20	PI2 BPSK	1	1	23.10	23.19	23.09			
20	PI2 BPSK	1	53	22.99	23.06	23.07	24.0	0.0	
20	PI2 BPSK	1	104	22.85	22.90	22.75			
20	PI2 BPSK	50	0	22.50	22.63	22.59	23.5	0.5	
20	PI2 BPSK	50	28	23.09	23.08	23.11	24.0	0.0	
20	PI2 BPSK	50	56	22.51	22.64	22.49	23.5	0.5	
20	PI2 BPSK	100	0	22.67	22.69	22.53			
20	QPSK	1	1	23.11	23.23	23.17			
20	QPSK	1	53	22.97	23.14	23.02	24.0	0.0	
20	QPSK	1	104	22.92	23.00	22.83			
20	QPSK	50	0	22.04	22.07	21.98	23.0	1.0	
20	QPSK	50	28	23.04	23.20	23.16	24.0	0.0	
20	QPSK	50	56	22.03	22.05	22.00	23.0	1.0	
20	QPSK	100	0	22.11	22.24	22.13			
20	16QAM	1	1	21.87	22.02	21.92	23.0	1.0	
20	64QAM	1	1	20.57	20.61	20.44	21.5	2.5	
20	256QAM	1	1	18.40	18.51	18.38	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	22.98	23.14	23.06	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	24.0	0.0	
10	QPSK	1	1	23.00	23.11	23.07	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	838.5	846.5	24.0	0.0	
5	QPSK	1	1	23.07	23.17	23.06	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	2550			
40	PI2 BPSK	1	1	20.96	20.95	20.92			
40	PI2 BPSK	1	108	20.91	20.90	20.94	21.9	0.0	
40	PI2 BPSK	1	214	20.78	20.91	20.81			
40	PI2 BPSK	108	0	20.90	20.94	20.87	21.9	0.0	
40	PI2 BPSK	108	54	20.87	20.91	20.83	21.9	0.0	
40	PI2 BPSK	108	108	20.81	20.94	20.94	21.9	0.0	
40	PI2 BPSK	216	0	20.83	20.95	20.79			
40	QPSK	1	1	20.99	21.02	20.87			
40	QPSK	1	108	20.93	20.97	21.00	21.9	0.0	
40	QPSK	1	214	20.86	21.01	20.92			
40	QPSK	108	0	20.83	20.87	20.82	21.9	0.0	
40	QPSK	108	54	20.91	20.95	20.75	21.9	0.0	
40	QPSK	108	108	20.82	20.84	20.81	21.9	0.0	
40	QPSK	216	0	20.76	20.89	20.84			
40	16QAM	1	1	20.94	20.96	20.81	21.9	0.0	
40	64QAM	1	1	20.88	20.86	20.82	21.9	0.0	
40	256QAM	1	1	18.19	18.32	18.29	19.5	2.4	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	21.9	0.0	
30	QPSK	1	1	20.98	20.95	20.77	21.9	0.0	
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	20.93	20.99	20.81	21.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	21.9	0.0	
20	PI2 BPSK	1	1	20.91	20.98	20.84	21.9	0.0	
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	20.86	20.92	20.74	21.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	21.9	0.0	
10	QPSK	1	1	20.95	20.96	20.83	21.9	0.0	
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	20.92	20.90	20.85	21.9	0.0	



n14 Ant0 Default

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				158000				
Frequency (MHz)				793				
10	PI2 BPSK	1	1	23.01			24.0	0.0
10	PI2 BPSK	1	26	22.96				
10	PI2 BPSK	1	50	22.89				
10	PI2 BPSK	25	0	22.49			23.5	0.5
10	PI2 BPSK	25	14	22.96			24.0	0.0
10	PI2 BPSK	25	27	22.47			23.5	0.5
10	PI2 BPSK	50	0	22.53				
10	QPSK	1	1	23.05			24.0	0.0
10	QPSK	1	26	23.00				
10	QPSK	1	50	22.96				
10	QPSK	25	0	21.97			23.0	1.0
10	QPSK	25	14	22.98			24.0	0.0
10	QPSK	25	27	21.97			23.0	1.0
10	QPSK	50	0	22.04				
10	16QAM	1	1	22.29			23.0	1.0
10	64QAM	1	1	20.72			21.5	2.5
10	256QAM	1	1	18.36			19.5	4.5
Channel				158100	158600	159100		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.98	22.99	22.91	24.0	0.0

n66 Ant0 DS16

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				
Frequency (MHz)				1730				
40	PI2 BPSK	1	1	20.17	20.35	20.30		
40	PI2 BPSK	1	108	20.22	20.21	20.28	21.4	0.0
40	PI2 BPSK	1	214	20.14	20.34	20.28		
40	PI2 BPSK	108	0	20.13	20.20	20.19	21.4	0.0
40	PI2 BPSK	108	54	20.21	20.33	20.34	21.4	0.0
40	PI2 BPSK	108	108	20.23	20.36	20.31	21.4	0.0
40	PI2 BPSK	216	0	20.28	20.39	20.32		
40	QPSK	1	1	20.43	20.46	20.39		
40	QPSK	1	108	20.30	20.42	20.38	21.4	0.0
40	QPSK	1	214	20.24	20.35	20.22		
40	QPSK	108	0	20.31	20.38	20.25	21.4	0.0
40	QPSK	108	54	20.37	20.43	20.39	21.4	0.0
40	QPSK	108	108	20.26	20.36	20.22	21.4	0.0
40	QPSK	216	0	20.30	20.40	20.27		
40	16QAM	1	1	20.21	20.34	20.22	21.4	0.0
40	64QAM	1	1	20.23	20.23	20.24	21.4	0.0
40	256QAM	1	1	18.19	18.31	18.21	19.5	1.9
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.33	20.44	20.32	21.4	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.31	20.40	20.35	21.4	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.40	20.35	20.27	21.4	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.34	20.39	20.29	21.4	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.35	20.35	20.29	21.4	0.0

n71 Ant0 Default

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				134600				
Frequency (MHz)				673				
20	PI2 BPSK	1	1	23.03	23.06	23.00		
20	PI2 BPSK	1	53	22.92	23.02	22.91	24.0	0.0
20	PI2 BPSK	1	104	22.94	22.97	22.83		
20	PI2 BPSK	50	0	22.44	22.49	22.36	23.5	0.5
20	PI2 BPSK	50	25	22.91	23.01	22.98	24.0	0.0
20	PI2 BPSK	50	56	22.30	22.41	22.29	23.5	0.5
20	PI2 BPSK	100	0	22.35	22.49	22.42		
20	QPSK	1	1	23.05	23.11	23.07		
20	QPSK	1	53	23.02	23.07	23.03	24.0	0.0
20	QPSK	1	104	22.91	22.95	22.86		
20	QPSK	50	0	21.98	22.04	21.92	23.0	1.0
20	QPSK	50	28	22.99	23.05	22.93	24.0	0.0
20	QPSK	50	56	21.92	21.96	21.88	23.0	1.0
20	QPSK	100	0	21.98	22.02	21.89		
20	16QAM	1	1	22.25	22.39	22.28	23.0	1.0
20	64QAM	1	1	20.27	20.36	20.31	21.5	2.5
20	256QAM	1	1	18.83	18.74	18.69	19.5	4.5
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.01	23.05	22.93	24.0	0.0
Channel				133500	136100	138600		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.91	23.07	22.94	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.91	22.98	22.95	24.0	0.0



n41 Ant0 DS16									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.01	21.08	21.12			
100	PI2 BPSK	1	137	20.95	20.87	20.99	22.1	0.0	
100	PI2 BPSK	1	271	20.98	20.94	20.96			
100	PI2 BPSK	135	0	20.81	21.05	20.92	22.1	0.0	
100	PI2 BPSK	135	69	20.95	21.06	20.97	22.1	0.0	
100	PI2 BPSK	135	138	20.67	20.87	20.78	22.1	0.0	
100	PI2 BPSK	270	0	21.06	20.82	20.86			
100	QPSK	1	1	21.01	21.10	20.96			
100	QPSK	1	137	20.83	20.98	20.79	22.1	0.0	
100	QPSK	1	271	21.06	21.03	21.01			
100	QPSK	135	0	20.80	20.88	20.80	22.1	0.0	
100	QPSK	135	69	20.90	21.18	20.93	22.1	0.0	
100	QPSK	135	138	20.91	20.84	20.72	22.1	0.0	
100	QPSK	270	0	20.81	20.87	20.74	22.1	0.0	
100	16QAM	1	1	20.78	20.87	20.83	22.1	0.0	
100	16QAM	1	1	19.92	19.81	19.71	21.5	0.6	
100	256QAM	1	1	18.21	18.16	18.19	19.5	2.6	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.90	21.10	20.79	22.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.00	21.11	20.72	22.1	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	20.94	21.14	20.74	22.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	20.85	21.04	20.81	22.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.90	21.13	20.75	22.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.88	21.06	20.73	22.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	20.87	21.15	20.71	22.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.88	21.03	20.82	22.1	0.0	

n41 PC2 Ant 0 DS16									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.93	23.99	23.93			
100	PI2 BPSK	1	137	23.85	23.96	23.79	25.1	0.0	
100	PI2 BPSK	1	271	23.81	24.02	23.81			
100	PI2 BPSK	135	0	23.87	24.03	23.93	25.1	0.0	
100	PI2 BPSK	135	69	23.83	23.92	23.96	25.1	0.0	
100	PI2 BPSK	135	138	23.98	24.07	24.11	25.1	0.0	
100	PI2 BPSK	270	0	23.95	24.03	24.06			
100	QPSK	1	1	23.93	24.19	24.12			
100	QPSK	1	137	23.95	23.95	24.01	25.1	0.0	
100	QPSK	1	271	23.83	24.00	23.84			
100	QPSK	135	0	23.85	24.05	24.04	25.0	0.1	
100	QPSK	135	69	23.91	24.15	24.03	25.1	0.0	
100	QPSK	135	138	23.80	24.05	23.97	25.0	0.1	
100	QPSK	270	0	23.77	24.07	24.02			
100	16QAM	1	1	23.88	24.11	24.03	25.0	0.1	
100	16QAM	1	1	21.73	21.85	21.80	23.5	1.6	
100	256QAM	1	1	19.60	19.64	19.51	21.5	3.6	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.85	24.07	24.03	25.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.85	24.05	24.03	25.1	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	23.80	24.06	23.98	25.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	23.79	24.13	24.04	25.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.87	24.09	23.99	25.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.86	24.13	24.00	25.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	23.81	24.11	23.97	25.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.89	24.05	24.06	25.1	0.0	



n2 Ant1 DSI6								
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				37000	37000	38000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	20.84	20.89	20.78		
20	PI2 BPSK	1	53	20.81	20.87	20.75	21.9	0.0
20	PI2 BPSK	1	104	20.73	20.81	20.70		
20	PI2 BPSK	50	0	20.77	20.90	20.81	21.9	0.0
20	PI2 BPSK	50	28	20.74	20.84	20.77	21.9	0.0
20	PI2 BPSK	50	58	20.68	20.77	20.70	21.9	0.0
20	PI2 BPSK	100	0	20.76	20.82	20.70		
20	QPSK	1	1	20.87	20.94	20.81		
20	QPSK	1	53	20.73	20.85	20.78	21.9	0.0
20	QPSK	1	104	20.73	20.82	20.75		
20	QPSK	50	0	20.79	20.86	20.77	21.9	0.0
20	QPSK	50	28	20.76	20.89	20.78	21.9	0.0
20	QPSK	50	58	20.72	20.81	20.75	21.9	0.0
20	QPSK	100	0	20.71	20.84	20.80		
20	16QAM	1	1	20.66	20.80	20.69	21.9	0.0
20	16QAM	1	1	20.29	20.25	20.22	21.5	0.4
20	256QAM	1	1	18.51	18.58	18.48	19.5	2.4
Channel				37150	37000	38000	Tune-up limit	MPR
Frequency (MHz)				1867.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	20.74	20.91	20.68	21.9	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1860	1905	(dBm)	(dB)
10	QPSK	1	1	20.78	20.86	20.74	21.9	0.0
Channel				375500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1860	1907.5	(dBm)	(dB)
5	QPSK	1	1	20.79	20.88	20.69	21.9	0.0

n5 Ant1 Default								
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)				834	836.5	839		
20	PI2 BPSK	1	1	23.11	23.20	23.04		
20	PI2 BPSK	1	53	23.04	23.19	23.03	24.0	0.0
20	PI2 BPSK	1	104	22.97	23.09	22.97		
20	PI2 BPSK	50	0	22.86	22.76	22.85	23.5	0.5
20	PI2 BPSK	50	28	23.06	23.13	23.07	24.0	0.0
20	PI2 BPSK	50	58	22.61	22.87	22.59	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.70	22.67		
20	QPSK	1	1	23.13	23.22	23.16		
20	QPSK	1	53	23.11	23.12	23.13	24.0	0.0
20	QPSK	1	104	23.01	23.11	23.01		
20	QPSK	50	0	22.16	22.19	22.00	23.0	1.0
20	QPSK	50	28	23.12	23.19	23.15	24.0	0.0
20	QPSK	50	58	22.08	22.18	22.01	23.0	1.0
20	QPSK	100	0	22.18	22.21	22.12		
20	16QAM	1	1	22.05	22.13	22.07	23.0	1.0
20	16QAM	1	1	20.75	20.74	20.73	21.5	2.5
20	256QAM	1	1	18.41	18.48	18.44	19.5	4.5
Channel				165300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	23.04	23.17	23.06	24.0	0.0
Channel				166800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				830	836.5	844	(dBm)	(dB)
10	QPSK	1	1	23.10	23.07	23.01	24.0	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	23.03	23.14	23.04	24.0	0.0

n7 Ant1 DSI6								
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	19.35	19.38	19.27		
40	PI2 BPSK	1	108	19.28	19.35	19.29	20.7	0.0
40	PI2 BPSK	1	214	19.15	19.27	19.16		
40	PI2 BPSK	108	0	19.21	19.32	19.24	20.7	0.0
40	PI2 BPSK	108	54	19.19	19.34	19.20	20.7	0.0
40	PI2 BPSK	108	108	19.13	19.27	19.19	20.7	0.0
40	PI2 BPSK	216	0	19.28	19.31	19.21		
40	QPSK	1	1	19.34	19.42	19.31		
40	QPSK	1	108	19.35	19.36	19.25	20.7	0.0
40	QPSK	1	214	19.25	19.31	19.23		
40	QPSK	108	0	19.30	19.33	19.21	20.7	0.0
40	QPSK	108	54	19.33	19.37	19.24	20.7	0.0
40	QPSK	108	108	19.13	19.24	19.14	20.7	0.0
40	QPSK	216	0	19.17	19.28	19.19		
40	16QAM	1	1	19.19	19.24	19.14	20.7	0.0
40	16QAM	1	1	19.09	19.21	19.09	20.7	0.0
40	256QAM	1	1	17.80	17.91	17.83	19.5	1.2
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	19.22	19.37	19.28	20.7	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	1	19.20	19.32	19.20	20.7	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	PI2 BPSK	1	1	19.22	19.28	19.21	20.7	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	19.22	19.38	19.23	20.7	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	19.24	19.31	19.20	20.7	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	19.30	19.29	19.20	20.7	0.0



n66 Ant1 DSI6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	21.43	21.55	21.50	
40	PI2 BPSK	1	168	21.38	21.48	21.34	
40	PI2 BPSK	1	214	21.38	21.52	21.48	22.7
40	PI2 BPSK	108	0	21.38	21.47	21.39	0.0
40	PI2 BPSK	108	54	21.47	21.50	21.39	22.7
40	PI2 BPSK	108	108	21.29	21.38	21.27	0.0
40	PI2 BPSK	108	108	21.29	21.38	21.27	22.7
40	PI2 BPSK	216	0	21.28	21.42	21.38	
40	QPSK	1	1	21.51	21.58	21.48	
40	QPSK	1	108	21.41	21.55	21.44	22.7
40	QPSK	1	214	21.33	21.46	21.33	
40	QPSK	108	0	21.40	21.49	21.39	22.7
40	QPSK	108	54	21.43	21.54	21.42	22.7
40	QPSK	108	108	21.41	21.47	21.34	22.7
40	QPSK	216	0	21.47	21.51	21.46	0.0
40	16QAM	1	1	21.22	21.36	21.25	22.7
40	64QAM	1	1	20.25	20.35	20.27	21.5
40	256QAM	1	1	18.01	18.11	17.88	19.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	21.44	21.53	21.40	22.7
Channel				344000	348000	352000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	21.39	21.50	21.34	22.7
Channel				343000	347000	351000	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	21.40	21.43	21.43	22.7
Channel				342000	346000	350000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	21.37	21.53	21.43	22.7
Channel				342500	346500	350500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	21.44	21.47	21.37	22.7

n71 Ant1 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				134500	138100	137600	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	22.96	23.08	23.05	
20	PI2 BPSK	1	53	22.97	23.02	22.92	24.0
20	PI2 BPSK	1	104	22.78	22.91	22.83	0.0
20	PI2 BPSK	50	0	22.46	22.52	22.47	23.5
20	PI2 BPSK	50	28	22.94	23.03	22.97	24.0
20	PI2 BPSK	50	56	22.41	22.45	22.34	0.0
20	PI2 BPSK	100	0	22.47	22.53	22.47	23.5
20	QPSK	1	1	23.03	23.13	23.09	
20	QPSK	1	53	22.96	23.09	23.02	24.0
20	QPSK	1	104	22.90	22.97	22.91	
20	QPSK	50	0	21.91	22.05	21.94	23.0
20	QPSK	50	28	22.98	23.06	22.93	24.0
20	QPSK	50	56	21.92	22.01	21.87	23.0
20	QPSK	100	0	21.93	22.07	21.87	1.0
20	16QAM	1	1	21.77	21.87	21.83	23.0
20	64QAM	1	1	20.25	20.34	20.21	21.5
20	256QAM	1	1	18.53	18.83	18.58	19.5
Channel				134100	138100	138100	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.91	23.02	22.97	24.0
Channel				133600	138100	138600	
Frequency (MHz)				668	680.5	692	
10	QPSK	1	1	22.99	23.00	23.02	24.0
Channel				133100	138100	139100	
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.96	23.00	22.99	24.0



n41 Ant 1 DS16									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.73	19.90	19.77			
100	PI2 BPSK	1	137	19.88	19.84	19.59	21.1	0.0	
100	PI2 BPSK	1	271	19.58	19.80	19.77			
100	PI2 BPSK	135	0	19.76	19.90	19.58	21.1	0.0	
100	PI2 BPSK	135	69	19.70	19.93	19.53	21.1	0.0	
100	PI2 BPSK	135	138	19.73	19.83	19.79	21.1	0.0	
100	PI2 BPSK	270	0	19.84	19.78	19.84			
100	QPSK	1	1	19.88	19.85	19.98			
100	QPSK	1	137	19.69	19.80	19.83	21.1	0.0	
100	QPSK	1	271	19.52	19.77	19.80			
100	QPSK	135	0	19.76	19.70	19.75	21.1	0.0	
100	QPSK	135	69	19.79	19.81	19.82	21.1	0.0	
100	QPSK	135	138	19.89	19.67	19.83	21.1	0.0	
100	QPSK	270	0	19.73	19.90	19.87			
100	16QAM	1	1	19.85	19.89	19.90	21.1	0.0	
100	16QAM	1	1	19.78	19.83	19.87	21.1	0.0	
100	256QAM	1	1	18.30	18.38	18.29	19.5	1.6	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.75	19.66	19.77	21.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.75	19.80	19.55	21.1	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	19.73	19.72	19.74	21.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	19.67	19.82	19.75	21.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.64	19.63	19.64	21.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.69	19.75	19.71	21.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	19.61	19.84	19.73	21.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.68	19.68	19.63	21.1	0.0	

n41 PC2 Ant 1 DS16									
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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.85	22.91	22.83			
100	PI2 BPSK	1	137	22.73	22.91	22.81	24.1	0.0	
100	PI2 BPSK	1	271	22.71	22.85	22.86			
100	PI2 BPSK	135	0	22.49	22.73	22.81	24.1	0.0	
100	PI2 BPSK	135	69	22.89	22.71	22.77	24.1	0.0	
100	PI2 BPSK	135	138	22.43	22.58	22.45	24.1	0.0	
100	PI2 BPSK	270	0	22.59	22.71	22.80			
100	QPSK	1	1	22.85	22.88	22.91			
100	QPSK	1	137	22.85	22.84	22.85	24.1	0.0	
100	QPSK	1	271	22.81	22.64	22.57			
100	QPSK	135	0	22.64	22.75	22.85	24.1	0.0	
100	QPSK	135	69	22.93	22.85	22.82	24.1	0.0	
100	QPSK	135	138	22.45	22.80	22.53	24.1	0.0	
100	QPSK	270	0	22.51	22.80	22.48			
100	16QAM	1	1	22.85	22.85	22.72	24.1	0.0	
100	16QAM	1	1	22.63	22.83	22.67	24.1	0.0	
100	256QAM	1	1	20.97	21.03	20.91	22.5	1.6	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.88	22.84	22.79	24.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.81	22.82	22.70	24.1	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	22.64	22.82	22.77	24.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	22.88	22.83	22.65	24.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.55	22.83	22.80	24.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.76	22.88	22.86	24.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	22.57	22.80	22.79	24.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.63	22.68	22.65	24.1	0.0	



n41 Ant2 DSI6

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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.77	19.83	19.74		
100	PI2 BPSK	1	137	19.53	19.67	19.76	21.0	0.0
100	PI2 BPSK	1	271	19.86	19.76	19.86		
100	PI2 BPSK	135	0	19.52	19.69	19.42	21.0	0.0
100	PI2 BPSK	135	69	19.49	19.73	19.52	21.0	0.0
100	PI2 BPSK	135	138	19.80	19.71	19.60	21.0	0.0
100	PI2 BPSK	270	0	19.75	19.76	19.71		
100	QPSK	1	1	19.86	19.88	19.84		
100	QPSK	1	137	19.81	19.82	19.84	21.0	0.0
100	QPSK	1	271	19.81	19.71	19.70		
100	QPSK	135	0	19.48	19.67	19.38	21.0	0.0
100	QPSK	135	69	19.54	19.71	19.68	21.0	0.0
100	QPSK	135	138	19.86	19.84	19.87	21.0	0.0
100	QPSK	270	0	19.86	19.81	19.51		
100	16QAM	1	1	19.68	19.71	19.55	21.0	0.0
100	16QAM	1	1	19.18	19.41	19.27	21.0	0.0
100	256QAM	1	1	17.83	17.82	17.78	19.5	1.5
Channel								
Frequency (MHz)				50300	51858	53998		
90	QPSK	1	1	19.74	19.79	19.49	21.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	19.59	19.65	19.41	21.0	0.0
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	19.87	19.72	19.41	21.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	19.84	19.72	19.48	21.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	19.72	19.66	19.55	21.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000		
40	QPSK	1	1	19.57	19.68	19.39	21.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	19.57	19.70	19.51	21.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	19.87	19.81	19.48	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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.65	22.65	22.71		
100	PI2 BPSK	1	137	22.52	22.66	22.56	24.0	0.0
100	PI2 BPSK	1	271	22.71	22.83	22.73		
100	PI2 BPSK	135	0	22.82	22.53	22.44	24.0	0.0
100	PI2 BPSK	135	69	22.55	22.75	22.49	24.0	0.0
100	PI2 BPSK	135	138	22.59	22.73	22.43	24.0	0.0
100	PI2 BPSK	270	0	22.55	22.75	22.67		
100	QPSK	1	1	22.81	22.84	22.79		
100	QPSK	1	137	22.50	22.85	22.51	24.0	0.0
100	QPSK	1	271	22.72	22.89	22.48		
100	QPSK	135	0	22.55	22.68	22.38	24.0	0.0
100	QPSK	135	69	22.54	22.80	22.60	24.0	0.0
100	QPSK	135	138	22.89	22.66	22.38	24.0	0.0
100	QPSK	270	0	22.87	22.74	22.67		
100	16QAM	1	1	22.55	22.77	22.48	24.0	0.0
100	16QAM	1	1	22.77	22.81	22.72	23.5	0.5
100	256QAM	1	1	20.91	20.95	20.88	21.5	2.5
Channel								
Frequency (MHz)				50300	518598	53998		
90	QPSK	1	1	22.33	22.64	22.64	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	22.39	22.73	22.60	24.0	0.0
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	22.52	22.52	22.55	24.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	22.41	22.59	22.49	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	22.48	22.84	22.51	24.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000		
40	QPSK	1	1	22.30	22.61	22.65	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	22.47	22.64	22.62	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	22.44	22.75	22.60	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								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	16.12	16.15	16.06		
40	PI2 BPSK	1	53	15.96	16.09	15.98	17.4	0.0
40	PI2 BPSK	1	104	15.97	16.06	15.98		
40	PI2 BPSK	50	0	16.00	16.13	15.98	17.4	0.0
40	PI2 BPSK	50	28	16.12	16.21	16.06	17.4	0.0
40	PI2 BPSK	50	56	16.02	16.07	16.01	17.4	0.0
40	PI2 BPSK	100	0	15.97	16.11	16.04		
40	QPSK	1	1	16.22	16.27	16.18		
40	QPSK	1	53	16.12	16.22	16.16	17.4	0.0
40	QPSK	1	104	16.15	16.19	16.09		
40	QPSK	50	0	16.01	16.08	15.93	17.4	0.0
40	QPSK	50	28	16.13	16.19	16.14	17.4	0.0
40	QPSK	50	56	15.93	16.04	16.01	17.4	0.0
40	QPSK	100	0	15.93	16.07	16.00		
40	16QAM	1	1	16.08	16.16	16.02	17.4	0.0
40	16QAM	1	1	16.04	16.09	16.03	17.4	0.0
40	256QAM	1	1	15.94	16.02	15.97	17.4	0.0
Channel								
Frequency (MHz)				637334	641666	646000		
30	QPSK	1	1	16.15	16.14	16.08	17.4	0.0
Channel								
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	16.07	16.16	16.11	17.4	0.0



Part270 n77 Ant2 DSI6

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								
Frequency (MHz)								
100	PV2 BPSK	1	1	16.58	16.01	16.51	17.6	0.0
100	PV2 BPSK	1	137	16.60	16.64	16.50		
100	PV2 BPSK	1	271	16.43	16.56	16.47		
100	PV2 BPSK	135	0	16.50	16.54	16.44		
100	PV2 BPSK	135	69	16.43	16.48	16.45		
100	PV2 BPSK	135	138	16.47	16.53	16.43		
100	PV2 BPSK	270	0	16.51	16.56	16.51		
100	QPSK	1	1	16.80	16.66	16.83		
100	QPSK	1	137	16.47	16.54	16.45		
100	QPSK	1	271	16.44	16.47	16.34		
100	QPSK	135	0	16.39	16.50	16.39	17.6	0.0
100	QPSK	135	69	16.53	16.59	16.52	17.6	0.0
100	QPSK	135	138	16.34	16.40	16.36	17.6	0.0
100	QPSK	270	0	16.44	16.48	16.37	17.6	0.0
100	16QAM	1	1	16.40	16.53	16.48	17.6	0.0
100	64QAM	1	1	16.33	16.43	16.37	17.6	0.0
100	256QAM	1	1	16.21	16.36	16.25	17.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.51	16.56	16.54	17.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.52	16.54	16.51	17.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.55	16.65	16.56	17.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.48	16.63	16.52	17.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.53	16.60	16.52	17.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.48	16.65	16.54	17.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.57	16.55	16.54	17.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.49	16.53	16.49	17.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.54	16.61	16.50	17.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.50	16.64	16.59	17.6	0.0

Part270 n77 PC2 Ant2 DSI6

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								
Frequency (MHz)								
100	PV2 BPSK	1	1	19.61	19.65	19.54	20.6	0.0
100	PV2 BPSK	1	137	19.59	19.67	19.59		
100	PV2 BPSK	1	271	19.52	19.61	19.53		
100	PV2 BPSK	135	0	19.48	19.61	19.48		
100	PV2 BPSK	135	69	19.36	19.46	19.40		
100	PV2 BPSK	135	138	19.37	19.51	19.47		
100	PV2 BPSK	270	0	19.41	19.54	19.49		
100	QPSK	1	1	19.63	19.72	19.57		
100	QPSK	1	137	19.43	19.48	19.43		
100	QPSK	1	271	19.44	19.48	19.34		
100	QPSK	135	0	19.45	19.55	19.42	20.6	0.0
100	QPSK	135	69	19.47	19.59	19.54	20.6	0.0
100	QPSK	135	138	19.35	19.42	19.33	20.6	0.0
100	QPSK	270	0	19.37	19.45	19.40	20.6	0.0
100	16QAM	1	1	19.42	19.50	19.44	20.6	0.0
100	64QAM	1	1	19.34	19.47	19.36	20.6	0.0
100	256QAM	1	1	19.39	19.43	19.32	20.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.60	19.62	19.51	20.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.57	19.54	19.49	20.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.53	19.66	19.45	20.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.59	19.65	19.50	20.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.49	19.59	19.50	20.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.58	19.62	19.43	20.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.50	19.59	19.43	20.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.59	19.59	19.49	20.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.49	19.60	19.46	20.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.49	19.58	19.46	20.6	0.0

Part27Q n77 Ant2 DSI6

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								
Frequency (MHz)								
100	PV2 BPSK	1	1	16.81			17.6	0.0
100	PV2 BPSK	1	137	16.84				
100	PV2 BPSK	1	271	16.74				
100	PV2 BPSK	135	0	16.71				
100	PV2 BPSK	135	69	16.69				
100	PV2 BPSK	135	138	16.72				
100	PV2 BPSK	270	0	16.78				
100	QPSK	1	1	16.86				
100	QPSK	1	137	16.78				
100	QPSK	1	271	16.66				
100	QPSK	135	0	16.74			17.6	0.0
100	QPSK	135	69	16.84			17.6	0.0
100	QPSK	135	138	16.80			17.6	0.0
100	QPSK	270	0	16.84			17.6	0.0
100	16QAM	1	1	16.75			17.6	0.0
100	64QAM	1	1	16.59			17.6	0.0
100	256QAM	1	1	16.63			17.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.76	16.78	16.74	17.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.70	16.75	16.81	17.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.74	16.73	16.83	17.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.82	16.82	16.72	17.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.73	16.76	16.74	17.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.74	16.83	16.79	17.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.77	16.79	16.75	17.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.74	16.81	16.83	17.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.73	16.80	16.76	17.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.82	16.78	16.78	17.6	0.0



Part27Q n77 PC2 Ant2 DSI6

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequency channels.

Part27O n78 Ant2 DSI6

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequency channels.

Part27Q n78 Ant2 DSI6

Table with columns: 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). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequency channels.



Part270 n77 Ant4 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.58	19.64	19.53		
100	PI2 BPSK	1	137	19.52	19.60	19.54	20.7	0.0
100	PI2 BPSK	1	271	19.51	19.59	19.50		
100	PI2 BPSK	135	0	19.55	19.60	19.46	20.7	0.0
100	PI2 BPSK	135	69	19.40	19.46	19.37	20.7	0.0
100	PI2 BPSK	135	138	19.48	19.51	19.44	20.7	0.0
100	PI2 BPSK	270	0	19.54	19.59	19.45		
100	QPSK	1	1	19.63	19.67	19.59		
100	QPSK	1	137	19.44	19.58	19.53	20.7	0.0
100	QPSK	1	271	19.32	19.48	19.41		
100	QPSK	135	0	19.49	19.54	19.42	20.7	0.0
100	QPSK	135	69	19.43	19.28	19.47	20.7	0.0
100	QPSK	135	138	19.30	19.44	19.31	20.7	0.0
100	QPSK	270	0	19.37	19.47	19.36		
100	16QAM	1	1	19.42	19.50	19.38	20.7	0.0
100	16QAM	1	1	19.27	19.40	19.35	20.7	0.0
100	256QAM	1	1	19.68	19.03	19.68	19.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.55	19.58	19.51	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.53	19.61	19.47	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.56	19.56	19.48	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.51	19.59	19.52	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.40	19.61	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.49	19.60	19.48	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.45	19.58	19.45	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.48	19.59	19.51	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.52	19.55	19.50	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.57	19.58	19.54	20.7	0.0

Part270 n77 PC2 Ant4 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.60	22.62	22.59		
100	PI2 BPSK	1	137	22.54	22.61	22.58	23.7	0.0
100	PI2 BPSK	1	271	22.48	22.64	22.57		
100	PI2 BPSK	135	0	22.58	22.60	22.43	23.7	0.0
100	PI2 BPSK	135	69	22.47	22.46	22.36	23.7	0.0
100	PI2 BPSK	135	138	22.55	22.54	22.51	23.7	0.0
100	PI2 BPSK	270	0	22.53	22.57	22.49		
100	QPSK	1	1	22.61	22.67	22.59		
100	QPSK	1	137	22.44	22.58	22.59	23.7	0.0
100	QPSK	1	271	22.29	22.41	22.37		
100	QPSK	135	0	22.54	22.60	22.40	23.7	0.0
100	QPSK	135	69	22.43	22.53	22.48	23.7	0.0
100	QPSK	135	138	22.35	22.44	22.37	23.7	0.0
100	QPSK	270	0	22.43	22.53	22.39		
100	16QAM	1	1	22.45	22.55	22.34	23.7	0.0
100	16QAM	1	1	22.31	22.36	22.38	23.7	0.0
100	256QAM	1	1	21.21	21.26	21.22	22.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.57	22.63	22.49	23.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.49	22.56	22.50	23.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.47	22.54	22.47	23.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.58	22.60	22.50	23.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.46	22.54	22.54	23.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.58	22.61	22.51	23.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.48	22.62	22.45	23.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.50	22.52	22.58	23.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.53	22.63	22.44	23.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.54	22.60	22.51	23.7	0.0

Part270 n77 Ant4 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		19.57		20.7	0.0
100	PI2 BPSK	1	271		19.45			
100	PI2 BPSK	135	0		19.55		20.7	0.0
100	PI2 BPSK	135	69		19.40		20.7	0.0
100	PI2 BPSK	135	138		19.40		20.7	0.0
100	PI2 BPSK	270	0		19.53			
100	QPSK	1	1		19.58			
100	QPSK	1	137		19.53		20.7	0.0
100	QPSK	1	271		19.35			
100	QPSK	135	0		19.39		20.7	0.0
100	QPSK	135	69		19.46		20.7	0.0
100	QPSK	135	138		19.30		20.7	0.0
100	QPSK	270	0		19.38			
100	16QAM	1	1		19.37		20.7	0.0
100	16QAM	1	1		19.30		20.7	0.0
100	256QAM	1	1		19.05		19.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.51	19.55	19.52	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.48	19.52	19.52	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.54	19.47	19.46	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.54	19.48	19.48	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.51	19.44	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.47	19.47	19.51	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.45	19.47	19.49	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.44	19.50	19.47	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.49	19.55	19.49	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.52	19.52	19.48	20.7	0.0



Part27Q n77 PC2 Ant4 DSI6									
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									
Frequency (MHz)									
100	PlZ BPSK	1	1		22.54				
100	PlZ BPSK	1	137		22.52		23.7	0.0	
100	PlZ BPSK	1	271		22.52				
100	PlZ BPSK	135	0		22.54		23.7	0.0	
100	PlZ BPSK	135	69		22.41		23.7	0.0	
100	PlZ BPSK	135	138		22.48		23.7	0.0	
100	PlZ BPSK	270	0		22.49				
100	QPSK	1	1		22.59				
100	QPSK	1	137		22.47		23.7	0.0	
100	QPSK	1	271		22.29				
100	QPSK	135	0		22.39		23.7	0.0	
100	QPSK	135	69		22.47		23.7	0.0	
100	QPSK	135	138		22.37		23.7	0.0	
100	QPSK	270	0		22.43		23.7	0.0	
100	16QAM	1	1		22.49		23.7	0.0	
100	64QAM	1	1		22.30		23.7	0.0	
100	256QAM	1	1		21.62		23.5	1.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.46	22.56	22.49	23.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.47	22.44	22.48	23.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.50	22.53	22.54	23.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.48	22.54	22.52	23.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.53	22.53	22.50	23.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.48	22.51	22.49	23.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.55	22.55	22.55	23.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.50	22.47	22.54	23.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.53	22.50	22.49	23.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.45	22.48	22.45	23.7	0.0	

Part27O n78 Ant4 DSI6									
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									
Frequency (MHz)									
100	PlZ BPSK	1	1		19.61				
100	PlZ BPSK	1	137		19.49		20.7	0.0	
100	PlZ BPSK	1	271		19.44				
100	PlZ BPSK	135	0		19.52		20.7	0.0	
100	PlZ BPSK	135	69		19.41		20.7	0.0	
100	PlZ BPSK	135	138		19.40		20.7	0.0	
100	PlZ BPSK	270	0		19.52				
100	QPSK	1	1		19.64				
100	QPSK	1	137		19.51		20.7	0.0	
100	QPSK	1	271		19.39				
100	QPSK	135	0		19.51		20.7	0.0	
100	QPSK	135	69		19.53		20.7	0.0	
100	QPSK	135	138		19.33		20.7	0.0	
100	QPSK	270	0		19.42		20.7	0.0	
100	16QAM	1	1		19.39		20.7	0.0	
100	64QAM	1	1		19.33		20.7	0.0	
100	256QAM	1	1		19.06		20.0	0.7	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.56	19.60	19.53	20.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.59	19.58	19.54	20.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.60	19.59	19.51	20.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.58	19.55	19.59	20.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.51	19.56	19.59	20.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.56	19.58	19.59	20.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.54	19.51	19.50	20.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.54	19.57	19.53	20.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.55	19.58	19.55	20.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.54	19.52	19.51	20.7	0.0	

Part27Q n78 Ant4 DSI6									
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									
Frequency (MHz)									
100	PlZ BPSK	1	1		19.71				
100	PlZ BPSK	1	137		19.59		20.7	0.0	
100	PlZ BPSK	1	271		19.49				
100	PlZ BPSK	135	0		19.67		20.7	0.0	
100	PlZ BPSK	135	69		19.47		20.7	0.0	
100	PlZ BPSK	135	138		19.48		20.7	0.0	
100	PlZ BPSK	270	0		19.67				
100	QPSK	1	1		19.80				
100	QPSK	1	137		19.64		20.7	0.0	
100	QPSK	1	271		19.50				
100	QPSK	135	0		19.63		20.7	0.0	
100	QPSK	135	69		19.66		20.7	0.0	
100	QPSK	135	138		19.44		20.7	0.0	
100	QPSK	270	0		19.54		20.7	0.0	
100	16QAM	1	1		19.50		20.7	0.0	
100	64QAM	1	1		19.41		20.7	0.0	
100	256QAM	1	1		19.19		20.0	0.7	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.70	19.74	19.67	20.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.72	19.76	19.75	20.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.67	19.70	19.72	20.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.77	19.78	19.70	20.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.69	19.77	19.73	20.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.73	19.67	19.72	20.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.67	19.72	19.76	20.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.69	19.78	19.65	20.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.67	19.65	19.68	20.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.70	19.70	19.70	20.7	0.0	



Part270 n77 Ant5 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.31	19.42	19.37		
100	PI2 BPSK	1	137	19.27	19.38	19.25	20.5	0.0
100	PI2 BPSK	1	271	19.26	19.21	19.08		
100	PI2 BPSK	135	0	19.30	19.44	19.36	20.5	0.0
100	PI2 BPSK	135	69	19.29	19.35	19.28	20.5	0.0
100	PI2 BPSK	135	138	19.27	19.31	19.24	20.5	0.0
100	PI2 BPSK	270	0	19.28	19.40	19.30		
100	QPSK	1	1	19.37	19.45	19.33		
100	QPSK	1	137	19.28	19.39	19.34	20.5	0.0
100	QPSK	1	271	19.11	19.25	19.18		
100	QPSK	135	0	19.28	19.36	19.31	20.5	0.0
100	QPSK	135	69	19.32	19.41	19.27	20.5	0.0
100	QPSK	135	138	19.21	19.33	19.29	20.5	0.0
100	QPSK	270	0	19.32	19.36	19.27	20.5	0.0
100	16QAM	1	1	19.25	19.31	19.24	20.5	0.0
100	16QAM	1	1	19.19	19.27	19.20	20.5	0.0
100	256QAM	1	1	17.84	17.86	17.80	19.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.26	19.36	19.25	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.31	19.34	19.19	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.33	19.31	19.29	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.27	19.38	19.21	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.26	19.35	19.21	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.23	19.40	19.18	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.28	19.33	19.20	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.33	19.39	19.24	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.31	19.42	19.25	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.27	19.30	19.28	20.5	0.0

Part270 n77 PC2 Ant5 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.34	22.44	22.40		
100	PI2 BPSK	1	137	22.30	22.39	22.25	23.5	0.0
100	PI2 BPSK	1	271	22.30	22.34	22.21		
100	PI2 BPSK	135	0	22.24	22.30	22.24	23.5	0.0
100	PI2 BPSK	135	69	22.27	22.42	22.28	23.5	0.0
100	PI2 BPSK	135	138	22.20	22.31	22.18	23.5	0.0
100	PI2 BPSK	270	0	22.27	22.39	22.29		
100	QPSK	1	1	22.36	22.48	22.41		
100	QPSK	1	137	22.30	22.45	22.38	23.5	0.0
100	QPSK	1	271	22.23	22.37	22.33		
100	QPSK	135	0	22.35	22.39	22.33	23.5	0.0
100	QPSK	135	69	22.39	22.43	22.39	23.5	0.0
100	QPSK	135	138	22.21	22.28	22.24	23.5	0.0
100	QPSK	270	0	22.30	22.35	22.29	23.5	0.0
100	16QAM	1	1	22.36	22.41	22.37	23.5	0.0
100	16QAM	1	1	22.20	22.34	22.27	23.5	0.0
100	256QAM	1	1	20.88	20.97	20.94	22.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.25	22.40	22.34	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.31	22.37	22.35	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.30	22.37	22.29	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.29	22.35	22.29	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.27	22.44	22.29	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.30	22.33	22.33	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.27	22.34	22.35	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.26	22.38	22.28	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.23	22.39	22.38	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.32	22.33	22.33	23.5	0.0

Part27Q n77 Ant5 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		19.56		20.5	0.0
100	PI2 BPSK	1	271		19.48			
100	PI2 BPSK	135	0		19.53		20.5	0.0
100	PI2 BPSK	135	69		19.56		20.5	0.0
100	PI2 BPSK	135	138		19.47		20.5	0.0
100	PI2 BPSK	270	0		19.54			
100	QPSK	1	1		19.58			
100	QPSK	1	137		19.61		20.5	0.0
100	QPSK	1	271		19.55			
100	QPSK	135	0		19.51		20.5	0.0
100	QPSK	135	69		19.59		20.5	0.0
100	QPSK	135	138		19.44		20.5	0.0
100	QPSK	270	0		19.52			
100	16QAM	1	1		19.50		20.5	0.0
100	16QAM	1	1		19.28		20.5	0.0
100	256QAM	1	1		19.12		19.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633800	633334	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	630000	633334	636668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	629668	633334	637000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	629000	633334	637668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	628668	633334	638334	Tune-up limit (dBm)	MPR (dB)



Part27Q n77 PC2 Ant5 DSI6

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									
Frequency (MHz)									
				3500.01					
100	PI2 BPSK	1	1		22.77				
100	PI2 BPSK	1	137		22.73			0.0	
100	PI2 BPSK	1	271		22.60				
100	PI2 BPSK	135	0		22.57		23.5	0.0	
100	PI2 BPSK	135	69		22.74		23.5	0.0	
100	PI2 BPSK	135	138		22.44		23.5	0.0	
100	PI2 BPSK	270	0		22.50				
100	QPSK	1	1		22.34		23.5	0.0	
100	QPSK	1	137		22.70				
100	QPSK	1	271		22.68				
100	QPSK	135	0		22.64		23.5	0.0	
100	QPSK	135	69		22.76		23.5	0.0	
100	QPSK	135	138		22.56		23.5	0.0	
100	QPSK	270	0		22.63				
100	16QAM	1	1		22.58		23.5	0.0	
100	64QAM	1	1		22.54		23.5	0.0	
100	256QAM	1	1		20.85		22.5	1.0	
Channel									
Frequency (MHz)									
				6330.00	63333.4	63366.8			
90	QPSK	1	1		22.75	22.78	22.71	23.5	0.0
Channel									
Frequency (MHz)									
				3450.02	3500.01	3550.02			
80	QPSK	1	1		22.76	22.70	22.74	23.5	0.0
Channel									
Frequency (MHz)									
				63233.4	63333.4	63433.4			
70	QPSK	1	1		22.73	22.75	22.75	23.5	0.0
Channel									
Frequency (MHz)									
				63200.0	63333.4	63466.8			
60	QPSK	1	1		22.78	22.70	22.71	23.5	0.0
Channel									
Frequency (MHz)									
				63166.8	63333.4	63500.0			
50	QPSK	1	1		22.81	22.73	22.73	23.5	0.0
Channel									
Frequency (MHz)									
				63133.4	63333.4	63533.4			
40	QPSK	1	1		22.74	22.77	22.73	23.5	0.0
Channel									
Frequency (MHz)									
				63100.0	63333.4	63566.8			
30	QPSK	1	1		22.72	22.74	22.77	23.5	0.0
Channel									
Frequency (MHz)									
				63066.8	63333.4	63600.0			
20	QPSK	1	1		22.76	22.81	22.80	23.5	0.0
Channel									
Frequency (MHz)									
				63033.4	63333.4	63633.4			
15	QPSK	1	1		22.74	22.72	22.73	23.5	0.0
Channel									
Frequency (MHz)									
				63000.0	63333.4	63666.8			
10	QPSK	1	1		22.76	22.78	22.79	23.5	0.0

Part27O n78 Ant5 DSI6

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									
Frequency (MHz)									
				3750	3750	3750			
100	PI2 BPSK	1	1		19.46				
100	PI2 BPSK	1	137		19.43		20.5	0.0	
100	PI2 BPSK	1	271		19.30				
100	PI2 BPSK	135	0		19.37		20.5	0.0	
100	PI2 BPSK	135	69		19.42		20.5	0.0	
100	PI2 BPSK	135	138		19.34		20.5	0.0	
100	PI2 BPSK	270	0		19.40				
100	QPSK	1	1		19.52		20.5	0.0	
100	QPSK	1	137		19.46				
100	QPSK	1	271		19.34				
100	QPSK	135	0		19.38		20.5	0.0	
100	QPSK	135	69		19.45		20.5	0.0	
100	QPSK	135	138		19.33		20.5	0.0	
100	QPSK	270	0		19.42				
100	16QAM	1	1		19.22		20.5	0.0	
100	64QAM	1	1		19.15		20.5	0.0	
100	256QAM	1	1		17.92		19.5	1.0	
Channel									
Frequency (MHz)									
				64066.8	65000.0	65933.4			
90	QPSK	1	1		19.39	19.46	19.42	20.5	0.0
Channel									
Frequency (MHz)									
				64033.4	65000.0	65966.8			
80	QPSK	1	1		19.47	19.40	19.39	20.5	0.0
Channel									
Frequency (MHz)									
				64000.0	65000.0	65100.0			
70	QPSK	1	1		19.46	19.38	19.41	20.5	0.0
Channel									
Frequency (MHz)									
				64066.8	65000.0	65133.4			
60	QPSK	1	1		19.45	19.44	19.41	20.5	0.0
Channel									
Frequency (MHz)									
				64033.4	65000.0	65166.8			
50	QPSK	1	1		19.42	19.40	19.45	20.5	0.0
Channel									
Frequency (MHz)									
				64000.0	65000.0	65200.0			
40	QPSK	1	1		19.45	19.39	19.45	20.5	0.0
Channel									
Frequency (MHz)									
				64066.8	65000.0	65233.4			
30	QPSK	1	1		19.43	19.43	19.39	20.5	0.0
Channel									
Frequency (MHz)									
				64033.4	65000.0	65266.8			
20	QPSK	1	1		19.45	19.47	19.44	20.5	0.0
Channel									
Frequency (MHz)									
				64000.0	65000.0	65300.0			
15	QPSK	1	1		19.47	19.42	19.40	20.5	0.0
Channel									
Frequency (MHz)									
				64000.0	65000.0	65300.0			
10	QPSK	1	1		19.44	19.48	19.38	20.5	0.0

Part27Q n78 Ant5 DSI6

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									
Frequency (MHz)									
				3500.01					
100	PI2 BPSK	1	1		19.56				
100	PI2 BPSK	1	137		19.52		20.5	0.0	
100	PI2 BPSK	1	271		19.46				
100	PI2 BPSK	135	0		19.54		20.5	0.0	
100	PI2 BPSK	135	69		19.47		20.5	0.0	
100	PI2 BPSK	135	138		19.44		20.5	0.0	
100	PI2 BPSK	270	0		19.52				
100	QPSK	1	1		19.62		20.5	0.0	
100	QPSK	1	137		19.58				
100	QPSK	1	271		19.44				
100	QPSK	135	0		19.51		20.5	0.0	
100	QPSK	135	69		19.56		20.5	0.0	
100	QPSK	135	138		19.47		20.5	0.0	
100	QPSK	270	0		19.53				
100	16QAM	1	1		19.53		20.5	0.0	
100	64QAM	1	1		19.46		20.5	0.0	
100	256QAM	1	1		18.08		19.5	1.0	
Channel									
Frequency (MHz)									
				63300.0	63333.4	63366.8			
90	QPSK	1	1		19.50	19.59	19.49	20.5	0.0
Channel									
Frequency (MHz)									
				63266.8	63333.4	63400.0			
80	QPSK	1	1		19.59	19.58	19.49	20.5	0.0
Channel									
Frequency (MHz)									
				63233.4	63333.4	63433.4			
70	QPSK	1	1		19.55	19.59	19.57	20.5	0.0
Channel									
Frequency (MHz)									
				63200.0	63333.4	63466.8			
60	QPSK	1	1		19.50	19.48	19.58	20.5	0.0
Channel									
Frequency (MHz)									
				63166.8	63333.4	63500.0			
50	QPSK	1	1		19.47	19.51	19.50	20.5	0.0
Channel									
Frequency (MHz)									
				63133.4	63333.4	63533.4			
40	QPSK	1	1		19.50	19.52	19.56	20.5	0.0
Channel									
Frequency (MHz)									
				63100.0	63333.4	63566.8			
30	QPSK	1	1		19.57	19.53	19.57	20.5	0.0
Channel									
Frequency (MHz)									
				63066.8	63333.4	63600.0			
20	QPSK	1	1		19.50	19.52	19.56	20.5	0.0
Channel									
Frequency (MHz)									
				63033.4	63333.4	63633.4			
15	QPSK	1	1		19.49	19.57	19.50	20.5	0.0
Channel									
Frequency (MHz)									
				63000.0	63333.4	63666.8			
10	QPSK	1	1		19.58	19.53	19.54	20.5	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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.07	19.13	19.02		
100	PI2 BPSK	1	137	18.92	19.08	18.90	20.3	0.0
100	PI2 BPSK	1	271	18.71	18.97	18.72		
100	PI2 BPSK	135	0	18.89	19.04	18.74	20.3	0.0
100	PI2 BPSK	135	69	18.90	18.90	18.94	20.3	0.0
100	PI2 BPSK	135	138	18.96	18.88	18.99	20.3	0.0
100	PI2 BPSK	270	0	19.09	19.13	18.90		
100	QPSK	1	1	19.04	19.21	19.11		
100	QPSK	1	137	18.94	18.99	19.91	20.3	0.0
100	QPSK	1	271	18.93	19.01	18.90		
100	QPSK	135	0	18.98	18.91	18.73	20.3	0.0
100	QPSK	135	69	18.84	18.19	19.04	20.3	0.0
100	QPSK	135	138	18.85	18.79	18.86	20.3	0.0
100	QPSK	270	0	18.82	19.04	18.92		
100	16QAM	1	1	18.84	19.00	18.86	20.3	0.0
100	16QAM	1	1	18.89	19.01	18.71	20.3	0.0
100	256QAM	1	1	18.04	18.18	18.12	18.5	1.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.82	19.11	18.84	20.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.83	19.03	18.96	20.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.80	19.10	18.93	20.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.91	18.95	18.90	20.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.89	19.00	18.90	20.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.78	18.99	18.80	20.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.89	18.90	18.90	20.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.95	18.90	19.03	20.3	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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.08	22.01	21.94		
100	PI2 BPSK	1	137	21.89	22.06	21.83	23.3	0.0
100	PI2 BPSK	1	271	21.74	22.11	21.94		
100	PI2 BPSK	135	0	21.80	21.92	21.82	23.3	0.0
100	PI2 BPSK	135	69	21.98	22.05	21.98	23.3	0.0
100	PI2 BPSK	135	138	21.68	21.94	21.70	23.3	0.0
100	PI2 BPSK	270	0	21.89	21.61	21.71		
100	QPSK	1	1	21.97	22.24	22.03		
100	QPSK	1	137	22.06	22.02	22.00	23.3	0.0
100	QPSK	1	271	22.06	22.13	21.86		
100	QPSK	135	0	21.95	21.98	21.83	23.3	0.0
100	QPSK	135	69	22.06	22.11	21.98	23.3	0.0
100	QPSK	135	138	21.84	21.89	21.96	23.3	0.0
100	QPSK	270	0	21.86	21.99	21.79		
100	16QAM	1	1	21.86	21.96	21.97	23.3	0.0
100	16QAM	1	1	21.57	21.58	21.46	23.3	0.0
100	256QAM	1	1	20.13	20.19	20.07	21.5	1.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.70	22.10	21.78	23.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.82	22.11	21.93	23.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.85	22.03	21.92	23.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.80	22.15	21.88	23.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.73	22.01	21.77	23.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.67	21.96	21.82	23.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.70	21.97	21.88	23.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.83	22.05	21.76	23.3	0.0

Part270 n77 Ant7 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.36	18.44	18.41		
100	PI2 BPSK	1	137	18.31	18.35	18.31	20.3	0.0
100	PI2 BPSK	1	271	18.39	18.34	18.33		
100	PI2 BPSK	135	0	18.39	18.32	18.32	20.3	0.0
100	PI2 BPSK	135	69	18.32	18.35	18.39	20.3	0.0
100	PI2 BPSK	135	138	18.38	18.39	18.32	20.3	0.0
100	PI2 BPSK	270	0	18.37	18.33	18.36		
100	QPSK	1	1	18.49	18.52	18.45		
100	QPSK	1	137	18.32	18.35	18.33	20.3	0.0
100	QPSK	1	271	18.34	18.40	18.32		
100	QPSK	135	0	18.38	18.38	18.34	20.3	0.0
100	QPSK	135	69	18.38	18.39	18.38	20.3	0.0
100	QPSK	135	138	18.34	18.36	18.31	20.3	0.0
100	QPSK	270	0	18.35	18.35	18.33		
100	16QAM	1	1	18.32	18.39	18.32	20.3	0.0
100	16QAM	1	1	18.32	18.35	18.36	20.3	0.0
100	256QAM	1	1	17.95	18.08	17.93	19.5	0.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.35	18.41	18.33	20.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.35	18.39	18.32	20.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.34	18.33	18.33	20.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.36	18.36	18.36	20.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.33	18.38	18.39	20.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.39	18.37	18.34	20.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.33	18.39	18.34	20.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.33	18.31	18.36	20.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.39	18.36	18.36	20.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.39	18.32	18.37	20.3	0.0



Part270 n77 PC2 Ant7 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.37	21.43	21.34		
100	PI2 BPSK	1	137	21.39	21.39	21.31		
100	PI2 BPSK	1	271	21.38	21.33	21.35		
100	PI2 BPSK	138	0	21.38	21.34	21.32	23.3	0.0
100	PI2 BPSK	138	69	21.38	21.41	21.40	23.3	0.0
100	PI2 BPSK	138	138	21.40	21.36	21.33	23.3	0.0
100	PI2 BPSK	270	0	21.34	21.40	21.37		
100	QPSK	1	1	21.40	21.33	21.47		
100	QPSK	1	137	21.39	21.38	21.31	23.3	0.0
100	QPSK	1	271	21.33	21.44	21.33		
100	QPSK	138	0	21.37	21.37	21.37	23.3	0.0
100	QPSK	138	69	21.31	21.46	21.45	23.3	0.0
100	QPSK	138	138	21.35	21.39	21.38	23.3	0.0
100	QPSK	270	0	21.33	21.42	21.34		
100	16QAM	1	1	21.33	21.33	21.35	23.3	0.0
100	16QAM	1	1	21.33	21.39	21.31	23.3	0.0
100	256QAM	1	1	20.89	20.95	20.92	22.5	0.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.40	21.41	21.33	23.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.34	21.40	21.30	23.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.35	21.42	21.37	23.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.37	21.45	21.39	23.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.37	21.39	21.42	23.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.33	21.46	21.39	23.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.35	21.39	21.32	23.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.38	21.41	21.37	23.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.32	21.44	21.39	23.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.35	21.39	21.44	23.3	0.0

Part27Q n77 Ant7 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		18.78			
100	PI2 BPSK	1	271		18.88		20.3	0.0
100	PI2 BPSK	138	0		18.70		20.3	0.0
100	PI2 BPSK	138	69		18.73		20.3	0.0
100	PI2 BPSK	138	138		18.74		20.3	0.0
100	PI2 BPSK	270	0		18.87		20.3	0.0
100	QPSK	1	1		18.97		20.3	0.0
100	QPSK	1	137		18.79			
100	QPSK	1	271		18.78			
100	QPSK	138	0		18.77		20.3	0.0
100	QPSK	138	69		18.83		20.3	0.0
100	QPSK	138	138		18.70		20.3	0.0
100	QPSK	270	0		18.76			
100	16QAM	1	1		18.73		20.3	0.0
100	16QAM	1	1		18.85		20.3	0.0
100	256QAM	1	1		17.95		19.5	0.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.75	18.78	18.77	20.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.75	18.80	18.70	20.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.79	18.80	18.83	20.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.74	18.82	18.77	20.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.75	18.82	18.70	20.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.72	18.83	18.70	20.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.82	18.83	18.74	20.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.74	18.82	18.75	20.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.75	18.78	18.72	20.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.77	18.82	18.79	20.3	0.0

Part27Q n77 PC2 Ant7 DSI6

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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		22.00			
100	PI2 BPSK	1	271		21.96		23.3	0.0
100	PI2 BPSK	138	0		21.97		23.3	0.0
100	PI2 BPSK	138	69		21.88		23.3	0.0
100	PI2 BPSK	138	138		21.94		23.3	0.0
100	PI2 BPSK	270	0		21.79		23.3	0.0
100	QPSK	1	1		21.95			
100	QPSK	1	137		22.07		23.3	0.0
100	QPSK	1	271		21.98			
100	QPSK	138	0		21.75		23.3	0.0
100	QPSK	138	69		21.96		23.3	0.0
100	QPSK	138	138		21.87		23.3	0.0
100	QPSK	270	0		21.90			
100	16QAM	1	1		21.70		23.3	0.0
100	16QAM	1	1		21.84		23.3	0.0
100	256QAM	1	1		21.33		22.5	0.8
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.96	22.00	21.92	23.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.97	21.98	21.90	23.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.00	21.94	21.93	23.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.98	22.00	22.03	23.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.02	21.95	21.94	23.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.93	21.98	21.92	23.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.98	22.03	21.97	23.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.93	21.96	21.95	23.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.98	22.03	22.00	23.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.99	22.01	21.93	23.3	0.0



Part270 n78 Ant7 DS16									
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	PI2 BPSK	1	1		18.35				
100	PI2 BPSK	1	137		18.40			0.0	
100	PI2 BPSK	1	271		18.34				
100	PI2 BPSK	135	0		18.32		20.3	0.0	
100	PI2 BPSK	135	69		18.31		20.3	0.0	
100	PI2 BPSK	135	138		18.39		20.3	0.0	
100	PI2 BPSK	270	0		18.38				
100	QPSK	1	1		18.33		20.3	0.0	
100	QPSK	1	137		18.38				
100	QPSK	1	271		18.38				
100	QPSK	135	0		18.33		20.3	0.0	
100	QPSK	135	69		18.41		20.3	0.0	
100	QPSK	135	138		18.34		20.3	0.0	
100	QPSK	270	0		18.35				
100	16QAM	1	1		18.32		20.3	0.0	
100	64QAM	1	1		18.38		20.3	0.0	
100	256QAM	1	1		17.55		19.5	0.8	
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		18.38	18.37	18.34	20.3	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.40	18.39	18.38	20.3	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		18.38	18.40	18.39	20.3	0.0
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		18.39	18.38	18.34	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		18.33	18.34	18.38	20.3	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.39	18.40	18.36	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		18.39	18.35	18.37	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		18.36	18.38	18.32	20.3	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3795.01			
15	QPSK	1	1		18.35	18.37	18.34	20.3	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		18.33	18.37	18.39	20.3	0.0

Part27Q n78 Ant7 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)						3500.01			
100	PI2 BPSK	1	1			18.60			
100	PI2 BPSK	1	137			18.57		0.0	
100	PI2 BPSK	1	271			18.46			
100	PI2 BPSK	135	0			18.41		20.3	0.0
100	PI2 BPSK	135	69			18.57		20.3	0.0
100	PI2 BPSK	135	138			18.35		20.3	0.0
100	PI2 BPSK	270	0			18.45			
100	QPSK	1	1			18.74			
100	QPSK	1	137			18.67		20.3	0.0
100	QPSK	1	271			18.58			
100	QPSK	135	0			18.56		20.3	0.0
100	QPSK	135	69			18.68		20.3	0.0
100	QPSK	135	138			18.46		20.3	0.0
100	QPSK	270	0			18.46			
100	16QAM	1	1			18.47		20.3	0.0
100	64QAM	1	1			18.39		20.3	0.0
100	256QAM	1	1			18.45		19.5	0.8
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		18.64	18.71	18.62	20.3	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		18.65	18.68	18.60	20.3	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		18.64	18.68	18.58	20.3	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		18.62	18.65	18.59	20.3	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		18.66	18.68	18.60	20.3	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		18.67	18.69	18.61	20.3	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	1		18.60	18.70	18.60	20.3	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		18.60	18.65	18.64	20.3	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.02	3500.01	3542.52			
15	QPSK	1	1		18.63	18.69	18.60	20.3	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		18.60	18.70	18.64	20.3	0.0



Mode	Channel	Frequency (MHz)	Full Power			Head for Standalone		Head for Simultaneous W/W/No-CBS		Head for Simultaneous W/W/No-CBS		Head for Simultaneous W/W/No-CBS		Head for Simultaneous W/W/No-CBS		Body worn for Standalone		Body worn for Standalone		Body worn for Simultaneous W/W/No-CBS		Body worn for Simultaneous W/W/No-CBS		Extremity for Standalone W/W/No-CBS		Extremity for Standalone W/W/No-CBS		Duty Cycle %
			Average power (dBm)	Time-Up Limit	Power Spectral Density	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	
SIGH WLAN	802.11a-WRPA	149	5745	19.06	21.00	17	16.00	14.00	11.00	8.00	17.00	18.95	20.50	17.40	19.00	15.50	12.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	99.23
		157	5765	19.45	21.00	17	16.00	14.00	11.00	8.00	17.00	18.75	20.50	17.38	19.00	15.50	12.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	
		159	5825	19.50	21.00	17	16.00	14.00	11.00	8.00	17.00	19.80	20.50	17.38	19.00	15.50	12.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	
	802.11a-WT20 MCS0	149	5745	19.35	20.50	17	16.00	14.00	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	100.00	
		157	5765	19.16	20.50	17	16.00	14.00	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	100.00	
		159	5825	19.24	20.50	17	16.00	14.00	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	100.00	
	802.11a-WT45 MCS0	151	5755	17.29	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00	
		159	5795	17.07	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00	
		149	5745	19.40	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00	
	802.11a-WHT20 MCS0	149	5745	19.15	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00	
		151	5755	19.30	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00	
		159	5795	17.34	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00	
802.11a-WHT45 MCS0	151	5755	17.24	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00		
	159	5795	17.11	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00		
	155	5775	17.08	18.50	15	14.80	16.00	12.63	14.00	9.27	11.00	8.81	8.00	15.71	17.00	18.50	15.50	14.16	15.50	10.94	12.50	14.96	16.50	11.96	13.00	95.30		
802.11a-WE20 MCS0	149	5745	19.45	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00		
	157	5765	19.24	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00		
	159	5825	19.35	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	100.00		
802.11a-WE45 MCS0	151	5755	17.45	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	99.38		
	159	5795	17.19	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	99.38		
	155	5775	17.12	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	15.50	Not Required	15.50	Not Required	12.50	16.50	Not Required	16.50	13.00	16.50	13.00	99.15		

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit
BR/EDR	CH 50	2402	11.23	10.13
		2441	10.95	10.13
		2480	10.44	7.39
		Time-up Limit	11.90	

Mode	Channel	Frequency (MHz)	Average power (dBm)	Daily cycle (PDF Factor)
LE	CH 50	2402	10.48	SAR Exceed
		2441	10.48	
		2480	7.34	
		Time-up Limit	11.90	

Mode	Channel	Frequency (MHz)	Average power (dBm)	Daily cycle (PDF Factor)
LE	CH 50	2402	10.19	SAR Exceed
		2441	10.24	
		2480	7.71	
		Time-up Limit	11.90	

Mode	Channel	Frequency (MHz)	Average power (dBm)	Daily cycle (PDF Factor)
BR/EDR	CH 50	2402	8.97	SAR Exceed
		2441	8.80	
		2480	6.67	
		Time-up Limit	10.90	

Mode	Channel	Frequency (MHz)	Average power (dBm)	Daily cycle (PDF Factor)
LE	CH 50	2402	8.83	SAR Exceed
		2441	8.88	
		2480	9.25	
		Time-up Limit	10.90	

Mode	Channel	Frequency (MHz)	Average power (dBm)	Daily cycle (PDF Factor)
LE	CH 50	2402	8.19	SAR Exceed
		2441	9.00	
		2480	8.36	
		Time-up Limit	10.90	