



Band 38 Ant1 DS19										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37485	38600	38150				
Frequency (MHz)				27475	27475	27475				
20	QPSK	1	0	16.36	16.33	16.33	17	0		
20	QPSK	1	49	16.33	16.19	16.19				
20	QPSK	1	99	16.33	16.17	16.17	17	0		
20	QPSK	50	0	16.32	16.37	16.32				
20	QPSK	50	24	16.34	16.28	16.32	17	0		
20	QPSK	50	49	16.27	16.38	16.29				
20	QPSK	100	0	16.34	16.36	16.33	17	0		
20	16QAM	1	0	16.18	16.33	16.19				
20	16QAM	1	49	16.33	16.25	16.25	17	0		
20	16QAM	1	99	16.33	16.33	16.19				
20	16QAM	50	0	16.30	16.31	16.23	17	0		
20	16QAM	50	24	16.21	16.21	16.24				
20	16QAM	50	49	16.18	16.23	16.16	17	0		
20	16QAM	100	0	16.17	16.24	16.24				
20	16QAM	100	1	16.17	16.33	16.24	17	0		
20	16QAM	50	0	16.22	16.27	16.30				
20	16QAM	50	24	16.28	16.25	16.30	17	0		
20	16QAM	50	49	16.31	16.31	16.31				
20	16QAM	100	0	16.36	16.36	16.26	17	0		
20	16QAM	100	1	16.34	16.31	16.14				
20	256QAM	1	49	16.24	16.31	16.24	17	0		
20	256QAM	1	99	16.24	16.33	16.33				
20	256QAM	50	24	16.36	16.29	16.27	17	0		
20	256QAM	50	49	16.30	16.32	16.25				
20	256QAM	100	0	16.16	16.23	16.21	17	0		
20	256QAM	100	1	16.20	16.32	16.25				
Channel				37455	38600	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				27475	27475	27475				
15	QPSK	1	0	16.25	16.33	16.33	17	0		
15	QPSK	1	37	16.33	16.09	16.10				
15	QPSK	1	74	16.10	16.27	16.04	17	0		
15	QPSK	36	0	16.22	16.16	16.21				
15	QPSK	36	20	16.17	16.23	16.28	17	0		
15	QPSK	36	36	16.27	16.28	16.29				
15	QPSK	75	0	16.25	16.31	16.25	17	0		
15	16QAM	1	0	16.04	16.23	16.17				
15	16QAM	1	37	16.02	16.15	16.25	17	0		
15	16QAM	1	74	16.29	16.15	16.16				
15	16QAM	36	0	16.18	16.14	16.12	17	0		
15	16QAM	36	36	16.29	16.29	16.29				
15	16QAM	75	0	16.12	16.04	16.12	17	0		
15	16QAM	75	0	16.02	16.23	16.21				
15	16QAM	1	37	16.22	16.24	16.24	17	0		
15	16QAM	36	74	16.25	16.29	16.16				
15	16QAM	36	0	16.13	16.16	16.14	17	0		
15	16QAM	36	36	16.14	16.09	16.15				
15	16QAM	75	0	16.19	16.15	16.24	17	0		
15	16QAM	75	0	16.03	16.27	16.10				
15	256QAM	1	0	16.03	16.27	16.10	17	0		
15	256QAM	36	0	15.99	16.21	16.12				
15	256QAM	36	20	16.02	16.25	16.22	17	0		
15	256QAM	36	36	16.04	16.26	16.14				
15	256QAM	75	0	16.16	16.21	16.20	17	0		
Channel				37455	38600	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				27475	27475	27475				
10	QPSK	1	0	16.29	16.17	16.17	17	0		
10	QPSK	1	25	16.24	16.17	16.08				
10	QPSK	1	49	16.07	16.12	16.05	17	0		
10	QPSK	25	0	16.17	16.23	16.26				
10	QPSK	25	12	16.15	16.24	16.26	17	0		
10	QPSK	25	25	16.10	16.25	16.26				
10	QPSK	50	0	16.06	16.26	16.26	17	0		
10	16QAM	1	0	16.13	16.14	16.13				
10	16QAM	1	25	16.08	16.16	16.23	17	0		
10	16QAM	1	49	16.18	16.24	16.07				
10	16QAM	25	0	16.11	16.22	16.13	17	0		
10	16QAM	25	12	16.14	16.02	16.02				
10	16QAM	50	0	16.16	16.16	16.13	17	0		
10	16QAM	50	0	16.16	16.01	16.17				
10	16QAM	25	25	16.08	16.15	16.15	17	0		
10	16QAM	25	49	16.08	16.16	16.08				
10	16QAM	50	0	16.15	16.27	16.15	17	0		
10	16QAM	50	0	16.16	16.12	16.14				
10	16QAM	1	25	16.08	16.15	16.15	17	0		
10	16QAM	1	49	16.08	16.16	16.08				
10	16QAM	25	12	16.24	16.17	16.14	17	0		
10	16QAM	25	25	16.30	16.12	16.26				
10	16QAM	50	0	16.28	16.15	16.27	17	0		
10	16QAM	50	0	16.31	16.26	16.26				
10	256QAM	1	0	16.12	16.26	16.22	17	0		
10	256QAM	1	49	16.08	16.14	16.27				
10	256QAM	25	0	16.08	16.07	16.08	17	0		
10	256QAM	25	12	16.26	16.29	16.26				
10	256QAM	25	25	16.06	16.15	16.15	17	0		
10	256QAM	25	49	16.06	16.15	16.15				
10	256QAM	50	0	16.32	16.17	16.17	17	0		
Channel				37475	38600	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				27475	27475	27475				
5	QPSK	1	0	16.37	16.34	16.34	17	0		
5	QPSK	1	12	16.23	15.99	16.01				
5	QPSK	1	24	16.20	16.29	16.12	17	0		
5	QPSK	12	0	16.29	16.24	16.32				
5	QPSK	12	7	16.25	16.24	16.22	17	0		
5	QPSK	12	13	16.18	16.12	16.29				
5	QPSK	25	0	16.06	16.17	16.15	17	0		
5	16QAM	1	0	16.08	16.26	16.15				
5	16QAM	1	12	16.17	16.15	16.05	17	0		
5	16QAM	1	24	16.26	16.29	16.10				
5	16QAM	12	0	16.11	16.29	16.17	17	0		
5	16QAM	12	7	16.09	16.04	16.07				
5	16QAM	12	13	16.15	16.09	16.16	17	0		
5	16QAM	25	0	16.07	16.07	16.06				
5	16QAM	25	0	16.08	16.31	16.13	17	0		
5	16QAM	1	12	16.24	16.19	16.10				
5	16QAM	1	24	16.24	16.25	16.12	17	0		
5	16QAM	12	0	16.02	16.23	16.32				
5	16QAM	12	7	16.19	16.05	16.17	17	0		
5	16QAM	12	13	16.16	16.29	16.16				
5	16QAM	25	0	16.16	16.25	16.14	17	0		



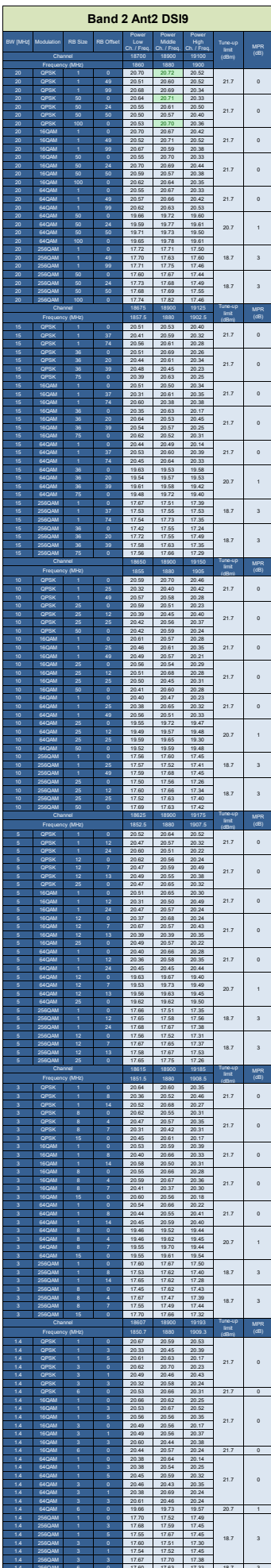
Band 42 FCC Part27Q Ant1 DS19										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				42190	42590	42990				
20	QPSK	1	0	14.90	15.00	14.95	16	0		
20	QPSK	1	49	14.99	14.89	14.93				
20	QPSK	1	99	14.87	15.00	14.91				
20	QPSK	50	0	14.95	15.03	14.98				
20	QPSK	50	24	14.88	15.02	14.93				
20	QPSK	50	39	14.90	14.99	14.95	16	0		
20	16QAM	1	0	14.90	15.03	14.95				
20	16QAM	1	49	14.90	15.01	14.98				
20	16QAM	50	0	14.90	14.94	14.91				
20	16QAM	50	24	14.84	14.98	14.93				
20	16QAM	50	39	14.86	14.99	14.96	16	0		
20	16QAM	100	0	14.93	14.98	14.96				
20	64QAM	1	49	14.81	15.00	14.96				
20	64QAM	1	99	15.01	14.86	14.96				
20	64QAM	50	0	14.94	14.96	14.96				
20	64QAM	50	24	14.81	14.97	14.84	16	0		
20	64QAM	100	0	14.90	14.95	14.93				
20	256QAM	1	0	14.88	15.00	14.94				
20	256QAM	1	49	14.90	15.00	14.99				
20	256QAM	1	99	14.81	14.86	14.92				
20	256QAM	50	0	14.86	14.86	14.78	16	0		
20	256QAM	50	24	14.95	15.01	14.93				
20	256QAM	50	50	14.80	14.85	14.92				
20	256QAM	100	0	14.80	14.85	14.92				
Channel				42195	42595	42915			Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)				14.7	15.0	14.7				
15	QPSK	1	0	14.80	14.80	14.80	16	0		
15	QPSK	1	37	14.84	14.73	14.79				
15	QPSK	1	74	14.74	14.80	14.89				
15	QPSK	36	0	14.84	14.83	14.91				
15	QPSK	36	20	14.69	14.96	14.73				
15	QPSK	75	0	14.87	14.78	14.72	16	0		
15	16QAM	1	0	14.81	14.90	14.79				
15	16QAM	1	74	14.85	14.88	14.84				
15	16QAM	36	0	14.80	14.90	14.81				
15	16QAM	36	39	14.84	14.86	14.87				
15	16QAM	75	0	14.72	14.89	14.89	16	0		
15	64QAM	1	0	14.70	14.78	14.78				
15	64QAM	1	37	14.80	14.90	14.83				
15	64QAM	74	0	14.80	14.77	14.85				
15	64QAM	36	0	14.86	14.81	14.77				
15	64QAM	36	20	14.72	14.87	14.83	16	0		
15	64QAM	75	0	14.82	14.82	14.88				
15	64QAM	75	0	14.82	14.81	14.81				
15	256QAM	1	0	14.82	14.86	14.78				
15	256QAM	1	74	14.77	14.66	14.91				
15	256QAM	36	0	14.89	14.88	14.87	16	0		
15	256QAM	36	39	14.80	14.90	14.74				
15	256QAM	36	39	14.80	14.81	14.92				
15	256QAM	75	0	14.79	14.85	14.84				
Channel				42140	42590	42940	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				14.0	14.9	14.7				
10	QPSK	1	0	14.81	14.89	14.89	16	0		
10	QPSK	1	25	14.96	14.82	14.74				
10	QPSK	1	49	14.74	14.87	14.89				
10	QPSK	25	0	14.80	14.82	14.85				
10	QPSK	25	12	14.83	14.97	14.89				
10	QPSK	50	0	14.91	14.97	14.93	16	0		
10	16QAM	1	0	14.80	14.86	14.85				
10	16QAM	1	25	14.82	14.89	14.88				
10	16QAM	1	49	14.81	14.92	14.88				
10	16QAM	25	0	14.90	14.87	14.87				
10	16QAM	25	12	14.85	14.76	14.77	16	0		
10	16QAM	25	25	14.87	14.96	14.93				
10	16QAM	50	0	14.85	14.84	14.84				
10	64QAM	1	0	14.74	14.87	14.81				
10	64QAM	1	25	14.68	14.86	14.88				
10	64QAM	1	49	14.91	14.88	14.77	16	0		
10	64QAM	25	0	14.77	14.83	14.84				
10	64QAM	25	12	14.68	14.88	14.77				
10	64QAM	25	25	14.63	14.94	14.83				
10	64QAM	50	0	14.91	14.74	14.83				
10	256QAM	1	0	14.91	14.99	14.95	16	0		
10	256QAM	1	25	15.00	14.84	14.92				
10	256QAM	1	49	14.76	14.81	14.79				
10	256QAM	25	0	14.99	14.77	14.83				
10	256QAM	25	12	14.97	15.01	14.79				
10	256QAM	25	25	14.64	14.76	14.77	16	0		
10	256QAM	50	0	14.88	14.79	14.83				
Channel				42115	42595	42995	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				14.0	14.9	14.7				
5	QPSK	1	0	14.89	14.89	14.89	16	0		
5	QPSK	1	12	14.81	14.84	14.91				
5	QPSK	1	24	14.72	14.85	14.79				
5	QPSK	12	0	14.82	14.99	14.89				
5	QPSK	12	7	14.83	14.85	14.76				
5	QPSK	12	19	14.71	14.86	14.76	16	0		
5	QPSK	25	0	14.87	14.86	14.76				
5	16QAM	1	0	14.85	14.92	14.78				
5	16QAM	1	12	14.87	14.83	14.83				
5	16QAM	1	24	14.87	14.87	14.91				
5	16QAM	12	0	14.73	14.92	14.76	16	0		
5	16QAM	12	7	14.80	14.87	14.85				
5	16QAM	12	13	14.74	14.90	14.83				
5	16QAM	25	0	14.90	14.80	14.70				
5	16QAM	25	0	14.76	14.82	14.82				
5	64QAM	1	12	14.79	14.90	14.81	16	0		
5	64QAM	1	24	15.02	14.82	14.90				
5	64QAM	12	0	14.79	14.86	14.85				
5	64QAM	12	13	14.77	14.84	14.78				
5	64QAM	25	0	14.77	14.80	14.76				
5	256QAM	1	0	14.91	14.89	14.77	16	0		
5	256QAM	1	12	15.02	14.89	14.85				
5	256QAM	1	24	14.66	14.82	14.79				
5	256QAM	12	0	14.86	14.80	14.83				
5	256QAM	12	7	14.86	14.97	14.82				
5	256QAM	12	13	14.72	14.76	14.83	16	0		
5	256QAM	25	0	14.85	14.92	14.81				

Band 43_FCC Ant1 Default											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)			
Channel				44190	44500	44900					
Frequency (MHz)				3610	3650	3690					
20	QPSK	1	0	20.83	20.83	20.83	22	0			
20	QPSK	1	49	20.91	21.00	20.87					
20	QPSK	1	99	20.89	20.90	20.90					
20	QPSK	1	149	20.91	20.92	20.92					
20	QPSK	52	24	20.93	20.16	20.98	21	1			
20	QPSK	50	50	20.94	20.15	20.97					
20	QPSK	100	75	20.93	20.17	20.97					
20	16QAM	1	0	20.91	20.12	20.91					
20	16QAM	1	49	20.90	20.06	20.90					
20	16QAM	1	99	19.97	19.02	19.98					
20	16QAM	50	0	19.92	19.11	19.93					
20	16QAM	50	50	19.93	19.03	19.98					
20	16QAM	50	80	19.94	19.07	19.91	20	2			
20	16QAM	100	0	18.92	19.02	18.99					
20	16QAM	1	49	18.78	18.61	18.97	20	2			
20	64QAM	1	49	18.78	18.62	18.97					
20	64QAM	1	99	18.77	18.76	18.77					
20	64QAM	1	0	18.77	18.92	18.76					
20	64QAM	50	24	18.95	18.14	18.94	19	3			
20	64QAM	50	50	18.16	18.14	18.14					
20	64QAM	100	0	18.92	18.11	18.92					
20	256QAM	1	0	16.64	16.78	16.68					
20	256QAM	1	49	16.63	16.75	16.72	17	5			
20	256QAM	1	99	16.64	16.70	16.71					
20	256QAM	1	0	16.61	16.71	16.63					
20	256QAM	50	0	16.62	16.67	16.58	17	5			
20	256QAM	50	50	16.63	16.67	16.64					
20	256QAM	100	0	16.63	16.67	16.64					
Channel				44195 <th>44505<th>44915<th>Turn-up limit (dBm)</th><th>MPR (dB)</th><th colspan="2"></th></th></th>	44505 <th>44915<th>Turn-up limit (dBm)</th><th>MPR (dB)</th><th colspan="2"></th></th>	44915 <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3615 <th>3655<th>3695<th></th><th></th><th colspan="2"></th></th></th>	3655 <th>3695<th></th><th></th><th colspan="2"></th></th>	3695 <th></th> <th></th> <th colspan="2"></th>					
15	QPSK	1	0	20.87	20.88	20.78					
15	QPSK	1	37	20.79	20.83	20.83	22	0			
15	QPSK	1	74	20.79	20.80	20.80					
15	QPSK	1	111	20.82	20.81	20.89					
15	QPSK	36	20	19.89	20.01	20.05	21	1			
15	QPSK	36	56	19.96	20.04	19.98					
15	16QAM	1	0	19.88	19.87	19.88					
15	16QAM	1	37	19.89	19.90	19.87	21	1			
15	16QAM	1	74	19.92	19.94	19.78					
15	16QAM	36	0	18.93	19.90	18.95					
15	16QAM	36	36	18.93	18.93	18.93	20	2			
15	16QAM	75	0	18.88	18.90	18.79					
15	64QAM	1	37	18.73	18.74	18.71	20	2			
15	64QAM	1	74	18.73	18.74	18.73					
15	64QAM	36	0	18.13	18.13	18.08					
15	64QAM	36	36	17.65	18.08	17.94	19	3			
15	64QAM	75	0	17.63	17.65	17.68					
15	64QAM	75	0	17.63	17.60	17.62					
15	256QAM	1	0	16.55	16.74	16.63					
15	256QAM	1	36	16.56	16.68	16.47	17	5			
15	256QAM	1	74	16.50	16.50	16.47					
15	256QAM	36	0	16.55	16.52	16.47					
15	256QAM	36	36	16.42	16.42	16.42	17	5			
15	256QAM	36	74	16.53	16.57	16.47					
15	256QAM	75	0	16.49	16.52	16.50					
Channel				44140	44500	44940	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				0 <th>20.99<th>21.00<th>20.83<th></th><th></th><th colspan="2"></th></th></th></th>	20.99 <th>21.00<th>20.83<th></th><th></th><th colspan="2"></th></th></th>	21.00 <th>20.83<th></th><th></th><th colspan="2"></th></th>	20.83 <th></th> <th></th> <th colspan="2"></th>				
10	QPSK	1	25	20.83	20.91	20.84	22	0			
10	QPSK	1	49	20.85	20.90	20.81					
10	QPSK	1	73	20.91	20.91	20.91					
10	QPSK	25	12	19.88	20.10	20.11	21	1			
10	QPSK	25	37	20.21	20.21	20.37					
10	16QAM	1	0	19.99	20.00	19.95					
10	16QAM	1	0	19.89	19.87	19.83					
10	16QAM	1	49	19.88	19.92	19.79	21	1			
10	16QAM	25	0	18.97	19.01	18.94					
10	16QAM	25	12	18.79	18.95	18.80					
10	16QAM	25	37	18.85	19.02	18.95	20	2			
10	64QAM	1	0	18.71	18.85	18.75					
10	64QAM	1	25	18.72	18.75	18.72	20	2			
10	64QAM	1	49	18.64	18.84	18.63					
10	64QAM	25	0	18.07	18.17	18.00					
10	64QAM	25	12	17.96	18.00	18.00	19	3			
10	64QAM	25	37	18.01	18.15	18.07					
10	64QAM	50	0	17.95	17.99	17.87					
10	256QAM	1	0	16.57	16.66	16.64					
10	256QAM	1	49	16.57	16.63	16.51	17	5			
10	256QAM	1	99	16.60	16.60	16.53					
10	256QAM	25	12	16.36	16.51	16.44	17	5			
10	256QAM	25	37	16.51	16.52	16.47					
10	256QAM	50	0	16.51	16.52	16.47					
Channel				44115 <th>44500</th> <th>44965</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>	44500	44965	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				0 <th>20.95<th>20.90<th>20.75<th></th><th></th><th colspan="2"></th></th></th></th>	20.95 <th>20.90<th>20.75<th></th><th></th><th colspan="2"></th></th></th>	20.90 <th>20.75<th></th><th></th><th colspan="2"></th></th>	20.75 <th></th> <th></th> <th colspan="2"></th>				
5	QPSK	1	12	20.85	20.80	20.75	22	0			
5	QPSK	1	25	20.90	20.90	20.77					
5	QPSK	12	0	20.91	20.15	20.92					
5	QPSK	12	7	19.88	20.11	19.98	21	1			
5	QPSK	12	19	19.88	19.88	19.90					
5	16QAM	1	0	20.03	20.01	19.92					
5	16QAM	1	0	19.93	20.04	19.92	21	1			
5	16QAM	12	12	19.19	19.98	19.95					
5	16QAM	1	24	19.93	19.96	19.75					
5	16QAM	12	0	18.87	19.97	18.85					
5	16QAM	12	13	18.79	18.93	18.94					
5	64QAM	1	26	18.78	18.92	18.75					
5	64QAM	1	0	18.75	18.77	18.73	20	2			
5	64QAM	1	12	18.70	18.74	18.67					
5	64QAM	1	13	18.71	18.74	18.61					
5	64QAM	12	13	18.01	18.15	18.04	19	3			
5	256QAM	1	0	17.87	18.08	17.85					
5	256QAM	1	12	16.54	16.62	16.57	17	5			
5	256QAM	1	24	16.57	16.60	16.51					
5	256QAM	12	12	16.57	16.58	16.58					
5	256QAM	12	7	16.40	16.40	16.43	17	5			
5	256QAM	12	13	16.59	16.63	16.49					



GSM1900 AHD Default								
TX Channel	Baseband Power (dBm)			Turn-up Limit	Power-Average Power (dBm)			Turn-up Limit
	19.2	19.1	19.0		19.2	19.1	19.0	
Frequency (MHz)	1905.2	1910	1905.8	(dBm)	1905.2	1910	1905.8	(dBm)
GSM 1 TX min	30.24	30.26	30.07	30.30	21.24	21.28	21.07	21.07
GSM 1 TX max	30.27	30.30	30.09	30.30	21.27	21.30	21.09	21.50
GPRS 1 TX min	28.30	28.29	28.29	28.30	22.36	22.29	22.29	23.50
GPRS 1 TX max	28.80	28.82	28.78	28.80	22.86	22.90	22.83	23.74
GPRS 4 TX min	24.43	24.47	24.52	25.50	21.43	21.47	21.52	22.50
EDGE 1 TX min	25.70	25.74	25.67	26.30	18.70	18.74	18.67	19.50
EDGE 2 TX min	24.23	24.26	24.28	25.00	18.23	18.26	18.28	19.50
EDGE 3 TX min	23.95	23.97	23.97	24.30	18.79	18.80	18.79	19.50
EDGE 4 TX min	21.17	21.18	21.14	22.00	18.17	18.18	18.14	19.50

Total TX Channel	WCDMA II AHD DSB			Turn-up Limit (dBm)	WCDMA IV AHD DSB			Turn-up Limit (dBm)
	9452	9460	9538		1812	1818	1818	
Frequency (MHz)	9452.4	9460	9538	(dBm)	1812.2	1818	1818	(dBm)
SCPP Rel 99	19.91	19.98	19.95	21.40	20.31	20.38	20.30	21.00
SCPP Rel 99	19.91	20.01	19.87	21.40	20.43	20.40	20.37	21.00
SCPP Rel 6	19.00	19.02	18.84	20.40	18.84	18.87	18.80	20.00
SCPP Rel 6	18.90	18.90	18.67	19.30	18.29	18.29	18.27	20.00
SCPP Rel 6	18.80	18.80	18.67	19.30	18.29	18.29	18.27	20.00
SCPP Rel 6	18.70	18.72	18.64	19.30	18.07	18.23	18.08	20.00
SCPP Rel 6	18.71	18.75	18.55	20.40	18.70	18.81	18.48	20.00
SCPP Rel 6	18.10	18.38	18.18	20.40	18.43	18.69	18.53	20.00
SCPP Rel 6	18.10	18.41	18.10	19.30	18.85	18.75	18.76	20.00
SCPP Rel 6	18.60	18.48	18.64	19.30	18.34	18.04	18.04	20.00
SCPP Rel 6	18.00	18.50	18.00	20.40	18.37	18.04	18.53	20.00
SCPP Rel 6	18.07	17.04	17.05	18.40	17.06	17.75	17.09	18.00
SCPP Rel 6	18.10	18.17	17.86	19.40	18.71	18.71	18.49	19.00
SCPP Rel 6	18.80	17.17	18.48	18.40	17.23	17.24	17.81	18.00
SCPP Rel 6	18.12	18.01	18.08	20.40	18.81	18.64	18.65	20.00



Band 4 Ant2 DS19												
RF (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power Ch. 19500	Power Ch. 20175	Power Ch. 20850	Power Ch. 21525	Turn-on time (s)	Agmt. (dB)		
Channel												
20	QPSK	1	0	20.05	20.07	20.03						
20	QPSK	1	49	19.93	19.95	19.82			21	0		
20	QPSK	50	24	19.97	19.94	19.84						
20	QPSK	50	50	19.97	19.95	19.82			21	0		
20	QPSK	100	0	20.00	20.00	20.00						
20	HQAM	1	0	19.93	19.96	19.89						
20	HQAM	1	49	19.84	19.93	19.82			21	0		
20	HQAM	50	24	19.94	19.93	19.82						
20	HQAM	50	50	19.94	19.93	19.82						
20	HQAM	100	0	19.96	19.94	19.74						
20	HQAM	100	0	19.90	19.85	19.80						
20	HQAM	1	49	19.85	19.85	19.03			21	0		
20	HQAM	1	99	19.87	19.94	19.81						
20	HQAM	50	24	19.92	19.92	19.82						
20	HQAM	50	24	19.90	19.91	19.73						
20	HQAM	50	50	19.94	19.90	19.80						
20	HQAM	50	50	19.84	19.84	19.70						
20	HQAM	100	0	19.86	19.80	19.78						
20	HQAM	100	0	19.78	19.80	19.72			19.5			
20	HQAM	1	99	19.74	19.72	19.78						
20	HQAM	50	0	17.80	17.74	17.78						
20	HQAM	50	0	17.72	17.68	17.72						
20	HQAM	50	0	17.67	17.67	18.14			19.5			
20	HQAM	100	0	17.67	17.50	18.03						
Frequency (MHz)												
15	QPSK	1	0	19.96	19.98	19.93						
15	QPSK	1	49	19.87	19.90	19.83			21	0		
15	QPSK	1	99	19.82	19.86	19.80						
15	QPSK	36	0	19.81	19.89	19.80						
15	QPSK	36	0	19.72	19.82	19.75						
15	QPSK	36	0	19.63	19.80	19.75			21	0		
15	QPSK	72	0	19.63	19.80	19.75						
15	HQAM	1	0	19.90	19.93	19.86						
15	HQAM	1	49	19.85	19.78	19.74						
15	HQAM	1	99	19.84	19.77	19.77						
15	HQAM	36	0	19.78	19.78	19.75			21	0		
15	HQAM	36	0	19.68	19.74	19.75						
15	HQAM	36	0	19.55	19.60	19.60						
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	1	0	19.73	19.91	19.71						
15	HQAM	1	49	19.76	19.86	19.76			21	0		
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.69	19.82	19.69						
15	HQAM	36	0	19.64	19.84	19.64			21	0		
15	HQAM	36	0	19.54	19.80	19.70						
15	HQAM	72	0	19.54	19.80	19.70						
15	HQAM	1	0	19.81	19.90	19.85						
15	HQAM	1	49	19.76	19.85	19.80			21	0		
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19.52	19.80	19.85						
15	HQAM	100	0	19.74	19.85	19.83						
15	HQAM	100	0	19.61	19.80	19.85			21	0		
15	HQAM	100	0	19.52	19.80	19.85						
15	HQAM	1	49	19.76	19.86	19.76						
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19.52	19.80	19.85						
15	HQAM	100	0	19.74	19.85	19.83						
15	HQAM	100	0	19.61	19.80	19.85			21	0		
15	HQAM	100	0	19.52	19.80	19.85						
15	HQAM	1	49	19.76	19.86	19.76						
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19.52	19.80	19.85						
15	HQAM	100	0	19.74	19.85	19.83						
15	HQAM	100	0	19.61	19.80	19.85			21	0		
15	HQAM	100	0	19.52	19.80	19.85						
15	HQAM	1	49	19.76	19.86	19.76						
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19.52	19.80	19.85						
15	HQAM	100	0	19.74	19.85	19.83						
15	HQAM	100	0	19.61	19.80	19.85			21	0		
15	HQAM	100	0	19.52	19.80	19.85						
15	HQAM	1	49	19.76	19.86	19.76						
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19.52	19.80	19.85						
15	HQAM	100	0	19.74	19.85	19.83						
15	HQAM	100	0	19.61	19.80	19.85			21	0		
15	HQAM	100	0	19.52	19.80	19.85						
15	HQAM	1	49	19.76	19.86	19.76						
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19.52	19.80	19.85						
15	HQAM	100	0	19.74	19.85	19.83						
15	HQAM	100	0	19.61	19.80	19.85			21	0		
15	HQAM	100	0	19.52	19.80	19.85						
15	HQAM	1	49	19.76	19.86	19.76						
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19.52	19.80	19.85						
15	HQAM	100	0	19.74	19.85	19.83						
15	HQAM	100	0	19.61	19.80	19.85			21	0		
15	HQAM	100	0	19.52	19.80	19.85						
15	HQAM	1	49	19.76	19.86	19.76						
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19.52	19.80	19.85						
15	HQAM	100	0	19.74	19.85	19.83						
15	HQAM	100	0	19.61	19.80	19.85			21	0		
15	HQAM	100	0	19.52	19.80	19.85						
15	HQAM	1	49	19.76	19.86	19.76						
15	HQAM	1	99	19.72	19.77	19.72						
15	HQAM	36	0	19.63	19.80	19.75						
15	HQAM	36	0	19.54	19.80	19.70			21	0		
15	HQAM	36	0	19.46	19.56	19.57						
15	HQAM	50	0	19.74	19.85	19.83						
15	HQAM	50	0	19.61	19.80	19.85						
15	HQAM	50	0	19								

Band 7 Ant2 DS19										
RF (MHz)	Modulation	File Size	RF Offset	Power Low dBm	Power Med dBm	Power High dBm	Turn-up Rate (dB/s)	Agmt (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.46	20.55	20.60				
20	QPSK	1	48	20.27	20.55	20.57		21.2	0	
20	QPSK	15	0	20.33	20.44	20.46				
20	QPSK	50	0	20.38	20.55	20.58				
20	QPSK	50	24	20.33	20.56	20.47		21.2	0	
20	QPSK	50	48	20.35	20.55	20.57				
20	QPSK	100	0	20.35	20.53	20.61				
20	16QAM	1	0	20.28	20.50	20.56		21.2	0	
20	16QAM	15	0	20.32	20.50	20.56				
20	16QAM	1	96	20.29	20.62	20.52				
20	16QAM	15	0	20.28	20.55	20.57				
20	16QAM	50	0	20.35	20.55	20.58		21.2	0	
20	16QAM	50	24	20.26	20.51	20.59				
20	16QAM	100	0	20.47	20.87	20.49				
20	16QAM	1	0	20.37	20.48	20.58				
20	64QAM	1	48	20.47	20.51	20.57		21.2	0	
20	64QAM	1	96	20.48	20.58	20.54				
20	64QAM	15	0	20.38	20.50	20.52				
20	64QAM	50	24	20.30	20.61	20.59		21.2	0	
20	64QAM	50	48	20.39	20.58	20.60				
20	64QAM	100	0	20.52	20.61	20.62				
20	256QAM	1	0	18.54	18.86	18.74		19.2		
20	256QAM	15	0	18.52	18.87	18.75				
20	256QAM	1	96	18.36	18.65	18.68		19.2		
20	256QAM	50	0	18.48	18.68	18.73				
20	256QAM	50	24	18.35	18.65	18.68				
20	256QAM	50	48	18.38	18.65	18.68				
20	256QAM	100	0	18.54	18.88	18.59				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.29	20.62	20.55	Turn-up Rate (dB/s)	Agmt (dB)		
15	QPSK	1	48	20.22	20.34	20.38		21.2	0	
15	QPSK	15	0	20.33	20.44	20.46				
15	QPSK	50	0	20.17	20.52	20.49				
15	QPSK	50	24	20.12	20.51	20.52		21.2	0	
15	QPSK	50	48	20.34	20.61	20.49				
15	QPSK	75	0	20.30	20.58	20.45				
15	QPSK	100	0	20.35	20.56	20.52				
15	16QAM	1	37	20.23	20.55	20.45		21.2	0	
15	16QAM	1	74	20.18	20.43	20.48				
15	16QAM	15	0	20.35	20.46	20.53				
15	16QAM	50	20	20.08	20.34	20.54		21.2	0	
15	16QAM	50	36	20.09	20.40	20.33				
15	16QAM	50	72	20.10	20.45	20.51				
15	16QAM	1	0	20.20	20.55	20.43		21.2	0	
15	16QAM	1	37	20.30	20.48	20.51				
15	16QAM	15	0	20.44	20.44	20.44				
15	16QAM	36	0	20.20	20.54	20.49				
15	16QAM	36	20	20.20	20.50	20.59		21.2	0	
15	16QAM	36	20	20.20	20.50	20.59				
15	16QAM	75	0	20.23	20.41	20.57				
15	16QAM	100	0	20.28	20.47	20.53				
15	256QAM	1	0	18.36	18.67	18.68		19.2	2	
15	256QAM	15	0	18.35	18.68	18.71				
15	256QAM	1	96	18.34	18.65	18.68		19.2	2	
15	256QAM	50	0	18.48	18.68	18.73				
15	256QAM	50	24	18.35	18.65	18.68				
15	256QAM	50	48	18.38	18.65	18.68				
15	256QAM	100	0	18.52	18.86	18.60				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.29	20.62	20.55	Turn-up Rate (dB/s)	Agmt (dB)		
10	QPSK	1	48	20.22	20.35	20.46		21.2	0	
10	QPSK	15	0	20.33	20.44	20.46				
10	QPSK	25	0	20.36	20.57	20.49				
10	QPSK	25	12	20.33	20.56	20.47		21.2	0	
10	QPSK	25	25	20.32	20.51	20.51				
10	QPSK	50	0	20.25	20.55	20.41				
10	QPSK	50	12	20.17	20.48	20.48		21.2	0	
10	16QAM	1	25	20.05	20.32	20.50				
10	16QAM	1	50	20.06	20.33	20.49		21.2	0	
10	16QAM	25	0	20.19	20.48	20.40				
10	16QAM	25	12	20.19	20.41	20.53		21.2	0	
10	16QAM	25	37	20.16	20.46	20.61				
10	16QAM	50	0	20.29	20.58	20.43				
10	16QAM	1	0	20.33	20.62	20.50		21.2	0	
10	16QAM	1	25	20.48	20.47	20.53				
10	16QAM	1	49	20.33	20.59	20.48				
10	16QAM	25	0	20.17	20.47	20.41				
10	16QAM	25	12	20.16	20.46	20.61		21.2	0	
10	16QAM	25	25	20.30	20.59	20.50				
10	16QAM	50	0	20.18	20.58	20.46				
10	256QAM	1	26	18.36	18.64	18.59		19.2	2	
10	256QAM	1	49	18.27	18.63	18.62				
10	256QAM	25	0	18.42	18.63	18.52				
10	256QAM	25	12	18.35	18.59	18.60		19.2	2	
10	256QAM	25	25	18.39	18.46	18.66				
10	256QAM	50	0	18.52	18.50	18.40				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.29	20.62	20.55	Turn-up Rate (dB/s)	Agmt (dB)		
5	QPSK	1	12	20.25	20.44	20.47		21.2	0	
5	QPSK	1	34	20.33	20.47	20.53				
5	QPSK	12	0	20.34	20.52	20.48				
5	QPSK	12	7	20.21	20.52	20.51		21.2	0	
5	QPSK	12	13	20.25	20.45	20.44				
5	QPSK	25	0	20.24	20.52	20.38				
5	16QAM	1	0	20.18	20.42	20.42		21.2	0	
5	16QAM	1	12	20.10	20.41	20.42				
5	16QAM	1	24	20.20	20.44	20.44				
5	16QAM	12	7	20.18	20.52	20.48		21.2	0	
5	16QAM	12	13	20.18	20.35	20.48				
5	16QAM	25	0	20.38	20.62	20.34				
5	16QAM	25	12	20.35	20.49	20.50		21.2	0	
5	16QAM	1	12	20.36	20.45	20.40				
5	16QAM	1	34	20.31	20.48	20.50				
5	16QAM	12	0	20.51	20.52	20.41		21.2	0	
5	16QAM	12	7	20.27	20.51	20.48				
5	16QAM	12	13	20.38	20.39	20.49				
5	16QAM	25	0	20.29	20.45	20.41				
5	256QAM	1	0	18.45	18.62	18.61		19.2	2	
5	256QAM	1	12	18.28	18.63	18.67				
5	256QAM	12	0	18.42	18.60	18.53				
5	256QAM	12	7	18.28	18.58	18.60		19.2	2	
5	256QAM	12	13	18.18	18.51	18.59				
5	256QAM	25	0	18.41	18.52	18.50				

Band 25 Ant2 DS19														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 18040	Power Middle Ch / Freq. 18075	Power High Ch / Freq. 18090	Time-up (ms)	MPR (dB)						
Channel														
18055 18080 18097.5														
20	QPSK	1	0	20.84	21.00	20.75	21.7	0	21	0				
20	QPSK	1	49	20.84	20.83	20.83								
20	QPSK	1	99	20.83	20.79	20.81								
20	QPSK	50	0	20.92	20.95	20.83	21.7	0	21	0				
20	QPSK	50	24	20.90	20.72	20.89								
20	QPSK	50	50	20.89	20.77	20.77								
20	QPSK	100	0	20.75	20.90	20.85	21.7	0	21	0				
20	16QAM	1	0	20.81	20.86	20.84								
20	16QAM	1	49	20.82	20.79	20.86								
20	16QAM	1	99	20.85	20.53	20.87	21.7	0	21	0				
20	16QAM	50	0	20.51	20.70	20.89								
20	16QAM	50	24	20.52	20.70	20.80								
20	16QAM	50	50	20.76	20.72	20.85	21.7	0	21	0				
20	16QAM	100	0	20.91	20.89	20.55								
20	16QAM	1	0	20.71	20.65	20.58								
20	16QAM	1	49	20.79	20.88	20.81	21.7	0	21	0				
20	16QAM	1	99	20.71	20.84	20.81								
20	16QAM	50	0	19.72	19.60	19.83								
20	16QAM	50	24	19.78	19.81	19.80	20.7	1	21	0				
20	16QAM	50	50	19.71	19.77	19.55								
20	16QAM	100	0	19.76	19.80	19.60								
20	256QAM	1	49	17.78	17.83	17.88	18.7	3	19.5	1.5				
20	256QAM	1	99	17.71	17.80	17.48								
20	256QAM	1	199	17.68	17.50	17.59								
20	256QAM	50	24	17.94	17.78	17.78	18.7	3	19.5	1.5				
20	256QAM	50	50	17.69	17.80	17.87								
20	256QAM	100	0	17.75	17.70	17.48								
Channel														
18055 18080 18097.5														
15	QPSK	1	0	20.81	20.73	20.56	21.7	0	21	0				
15	QPSK	1	37	20.87	20.81	20.58								
15	QPSK	1	74	20.82	20.80	20.40								
15	QPSK	36	0	20.76	20.80	20.43	21.7	0	21	0				
15	QPSK	36	20	20.84	20.77	20.44								
15	QPSK	36	39	20.59	20.71	20.47								
15	QPSK	75	0	20.76	20.76	20.81	21.7	0	21	0				
15	16QAM	1	1	20.76	20.76	20.81								
15	16QAM	1	37	20.55	20.82	20.84								
15	16QAM	1	74	20.82	20.80	20.50	21.7	0	21	0				
15	16QAM	36	0	20.49	20.82	20.44								
15	16QAM	36	20	20.81	20.73	20.57								
15	16QAM	36	39	20.79	20.73	20.58	21.7	0	21	0				
15	16QAM	75	0	20.79	20.73	20.58								
15	16QAM	1	0	20.84	20.69	20.83								
15	16QAM	1	37	20.86	20.84	20.84	21.7	0	21	0				
15	16QAM	1	74	20.75	20.50	20.47								
15	16QAM	36	0	19.83	19.75	19.83								
15	16QAM	36	20	19.75	19.84	19.74	20.7	1	21	0				
15	16QAM	36	39	19.82	19.84	19.84								
15	16QAM	75	0	19.82	19.84	19.84								
15	16QAM	75	0	19.88	19.86	19.88	20.7	1	21	0				
15	16QAM	1	0	19.80	19.84	19.84								
15	16QAM	1	37	17.69	17.57	17.70								
15	256QAM	1	37	17.69	17.57	17.70	18.7	3	19.5	1.5				
15	256QAM	1	74	17.85	17.87	17.82								
15	256QAM	1	111	17.81	17.85	17.85								
15	256QAM	36	20	17.89	17.82	17.87	18.7	3	19.5	1.5				
15	256QAM	36	39	17.75	17.80	17.85								
15	256QAM	75	0	17.75	17.80	17.80								
Channel														
18090 18094 18096														
10	QPSK	1	0	20.87	20.77	20.79	21.7	0	21	0				
10	QPSK	1	25	20.55	20.80	20.42								
10	QPSK	1	49	20.70	20.70	20.40								
10	QPSK	25	0	20.76	20.80	20.80	21.7	0	21	0				
10	QPSK	25	12	20.68	20.89	20.82								
10	QPSK	25	25	20.61	20.73	20.43								
10	16QAM	1	0	20.82	20.75	20.87	21.7	0	21	0				
10	16QAM	1	0	20.74	20.69	20.50								
10	16QAM	1	25	20.47	20.83	20.51								
10	16QAM	1	49	20.81	20.80	20.84	21.7	0	21	0				
10	16QAM	25	0	20.85	20.80	20.48								
10	16QAM	25	12	20.79	20.71	20.82								
10	16QAM	25	25	20.84	20.70	20.40	21.7	0	21	0				
10	16QAM	50	0	20.73	20.84	20.52								
10	16QAM	1	0	20.87	20.84	20.71								
10	16QAM	1	0	20.82	20.75	20.87	21.7	0	21	0				
10	16QAM	1	25	20.82	20.75	20.87								
10	16QAM	1	49	20.58	20.81	20.83								
10	16QAM	25	0	19.91	19.79	19.70	20.7	1	21	0				
10	16QAM	25	12	19.78	19.71	19.89								
10	16QAM	25	25	19.74	19.84	19.87								
10	16QAM	50	0	19.77	19.88	19.88	20.7	1	21	0				
10	256QAM	1	0	17.85	17.77	17.82								
10	256QAM	1	25	17.87	17.80	17.86								
10	256QAM	1	49	17.67	17.83	17.86	18.7	3	19.5	1.5				
10	256QAM	1	25	17.66	17.70	17.83								
10	256QAM	25	12	17.84	17.78	17.88								
10	256QAM	25	25	17.79	17.77	17.84	18.7	3	19.5	1.5				
10	256QAM	25	49	17.66	17.78	17.49								
10	256QAM	50	0	17.66	17.78	17.49								
Channel														
18095 18094 18096														
5	QPSK	1	0	20.68	20.71	20.70	21.7	0	21	0				
5	QPSK	1	12	20.51	20.69	20.58								
5	QPSK	1	24	20.85	20.81	20.42								
5	QPSK	12	0	20.80	20.78	20.51	21.7	0	21	0				
5	QPSK	12	7	20.58	20.89	20.54								
5	QPSK	12	13	20.73	20.66	20.42								
5	QPSK	25	0	20.70	20.85	20.41	21.7	0	21	0				
5	16QAM	1	0	20.70	20.71	20.45								
5	16QAM	1	12	20.59	20.80	20.46								
5	16QAM	1	24	20.73	20.63	20.53	21.7	0	21	0				
5	16QAM	12	0	20.62	20.91	20.48								
5	16QAM	12	7	20.86	20.81	20.59								
5	16QAM	12	13	20.78	20.77	20.50	21.7	0	21	0				
5	16QAM	25	0	20.78	20.79	20.81								
5	16QAM	1	0	20.73	20.75	20.72	21.7	0	21	0				
5	16QAM	1	12	20.72	20.81	20.78								
5	16QAM	1	24	20.70	20.50	20.43								
5	16QAM	12	0	19.89	19.76	19.89	21.7	0	21	0				
5	16QAM	12	13	19.84	19.81	19.78								
5	16QAM	12	25	19.78	19.80	19.88								
5	16QAM	1	0	17.81	17.63	17.60	18.7	3	19.5	1.5				
5	16QAM	1	12	17.68	17.77	17.88								
5	16QAM	1	25	17.65	17.87	17.85								
5	16QAM	12	0	17.59	17.85	17.51	18.7	3	19.5	1.5				
5	16QAM	12	7	17.89	17.69	17.88								
5	16QAM	12	13	17.84	17.86	17.87								
5	16QAM	25	0	17.72	17.75	17.47	18.7	3	19.5	1.5				
5	16QAM	25	12	17.77	17.78	17.49								
Channel														
18095 18094 18096														
3	QPSK	1	0	20.72	20.81	20.64					21.7	0	21	0
3	QPSK	1	8	20.68	20.83	20.44								
3	QPSK	1	16	20.85	20.81	20.42								
3	QPSK	8	0	20.65	20.78	20.51	21.7	0	21	0				
3	QPSK	8	4	20.70	20.83	20.23								
3	QPSK	8	12	20.72	20.80	20.30								
3	QPSK	16	0	20.53	20.72	20.26	21.7	0	21	0				
3	16QAM	1	0	20.64	20.70	20.47								
3	16QAM	1	8	20.59	20.80	20.51								
3	16QAM	1	16	20.82	20.49	20.66	21.7	0	21	0				
3	16QAM	8	0	20.48	20.67	20.45								
3	16QAM	8	8	20.58	20.84	20.75								
3	16QAM	8	16	20.76	20.80	20.54	21.7	0	21	0				
3	16QAM	8	24	20.59	20.80	20.49								
3	16QAM	16	0	20.57	20.75	20.44								
3	16QAM	1	8	20.71	20.78	20.73	21.7	0	21	0				
3	16QAM	1	16	20.68	20.78	20.78								
3	16QAM	1	24	20.71	20.78	20.78								
3	16QAM	8	0	19.83	19.87	19.84	20.7	1	21	0				
3	16QAM	8	8	19.88	19.82	19.87								
3	16QAM	8	16	19.80	19.84	19.87								
3	16QAM	16	0	19.76	19.97	19.53	18.7	3	19.5	1.5				
3	16QAM	16	8	17.93	17.89	17.88								
3	16QAM	16	16	17.84	17.82	17.87								
3	16QAM	1	16	17.70	17.86	17.51	18.7	3	19.5	1.5				
3	16QAM	8	0	17.56	17.72	17.37								
3	16QAM	8	8	17.64	17.71	17.67								
3	16QAM	8	7	17.86	17.75	17.81	18.7	3	19.5	1.5				
3	16QAM	8	15	17.78	17.78	17.47								
Channel														
18095 18094 18096														
1.4	QPSK	1	0	20.72	20.81	20.64					21.7	0	21	0
1.4	QPSK	1	8	20.68	20.83	20.44								
1.4	QPSK	1	16	20.85	20.81	20.42								
1.4	QPSK	1	5	20.72	20.79	20.80	21.7	0	21	0				
1.4	QPSK	1	6	20.72	20.79	20.80								
1.4	QPSK	3	0	20.85	20.86	20.46								
1.4	QPSK	3	0	20.85	20.86	20.46	21.7	0	21	0				
1.4	QPSK	3	6	20.62	20.83	20.53								
1.4	QPSK	3	12	20.81	20.79	20.58								
1.4	16QAM	1	0	20.84	20.84	20.58	21.7	0	21	0				
1.4	16QAM	1	8	20.81	20.84	20.58								
1.4	16QAM	1	16	20.73	20.70	20.58								
1.4	16QAM	1	5	20.72	20.80	2								



Band 38 Ant2 DS19										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel										
Frequency (MHz)				37965	38050	38135				
20	QPSK	1	0	21.78	21.82	21.82				
20	QPSK	1	48	21.79	21.74	21.70		22.6	0	
20	QPSK	1	88	21.75	21.72	21.69				
20	QPSK	50	0	21.78	21.80	21.81				
20	QPSK	50	24	21.68	21.66	21.65		22.6	0	
20	QPSK	50	48	21.65	21.62	21.59				
20	QPSK	100	0	21.70	21.76	21.60				
20	HQAM	1	0	21.51	21.61	21.63		22.6	0	
20	HQAM	1	48	21.51	21.63	21.71				
20	HQAM	1	96	21.67	21.79	21.61				
20	HQAM	50	24	21.50	21.51	21.52		22.1	0.5	
20	HQAM	50	48	21.46	21.47	21.48				
20	HQAM	100	0	21.42	21.47	21.49				
20	HQAM	100	24	21.05	20.92	21.10		22.1	0.5	
20	HQAM	1	48	21.33	21.14	21.28		21.1	1.5	
20	HQAM	1	96	21.16	21.23	21.15				
20	HQAM	50	0	20.21	19.94	20.13				
20	HQAM	50	24	20.01	20.23	20.02				
20	HQAM	50	50	20.30	20.01	20.05				
20	HQAM	100	0	20.03	20.15	20.18				
20	HQAM	100	0	18.48	18.30	18.29				
20	HQAM	1	48	18.45	18.30	18.15		19.1	3.5	
20	HQAM	1	96	18.24	18.16	18.28				
20	HQAM	50	0	18.46	18.27	18.30				
20	HQAM	50	24	18.50	18.25	18.45		19.1	3.5	
20	HQAM	50	50	18.50	18.40	18.54				
20	HQAM	100	0	18.48	18.30	18.29				
Channel										
Frequency (MHz)				37925	38050	38175	Turn-up time (dBm)	MFR (dB)		
15	QPSK	1	0	21.73	21.79	21.73				
15	QPSK	1	37	21.76	21.78	21.65		22.6	0	
15	QPSK	1	74	21.62	21.67	21.67				
15	QPSK	36	0	21.71	21.71	21.70				
15	QPSK	36	20	21.77	21.61	21.64		22.6	0	
15	QPSK	36	37	21.65	21.66	21.67				
15	QPSK	75	0	21.77	21.72	21.72				
15	HQAM	1	0	21.65	21.62	21.60		22.6	0	
15	HQAM	1	37	21.62	21.65	21.66				
15	HQAM	1	74	21.75	21.62	21.62				
15	HQAM	36	0	20.91	21.30	21.22		22.1	0.5	
15	HQAM	36	20	21.27	21.29	21.29				
15	HQAM	36	36	21.30	21.12	21.24				
15	HQAM	75	0	20.96	21.11	21.24				
15	HQAM	75	0	21.15	21.02	21.06				
15	HQAM	1	37	21.20	21.29	21.23		22.1	0.5	
15	HQAM	1	74	21.21	21.14	21.15				
15	HQAM	36	0	20.17	19.97	20.24		21.1	1.5	
15	HQAM	36	20	19.98	20.21	20.08				
15	HQAM	36	36	20.17	19.95	20.05				
15	HQAM	75	0	20.11	20.25	20.05				
15	HQAM	75	0	18.32	18.27	18.15		19.1	3.5	
15	HQAM	1	37	18.35	18.25	18.30				
15	HQAM	1	74	18.32	18.19	18.34				
15	HQAM	36	0	18.43	18.25	18.15		19.1	3.5	
15	HQAM	36	20	18.35	18.28	18.35				
15	HQAM	36	36	18.46	18.25	18.56				
15	HQAM	75	0	18.40	18.22	18.62				
Channel										
Frequency (MHz)				25175	25255	25335	Turn-up time (dBm)	MFR (dB)		
5	QPSK	1	0	21.71	21.70	21.69				
5	QPSK	1	25	21.66	21.63	21.70		22.6	0	
5	QPSK	1	48	21.62	21.72	21.65				
5	QPSK	1	75	21.65	21.65	21.65				
5	QPSK	25	12	21.66	21.69	21.61		22.6	0	
5	QPSK	25	25	21.71	21.63	21.60				
5	QPSK	50	0	21.63	21.63	21.63				
5	HQAM	1	0	21.62	21.73	21.64		22.6	0	
5	HQAM	1	25	21.63	21.68	21.66				
5	HQAM	1	48	21.61	21.62	21.70				
5	HQAM	25	0	20.91	21.19	21.13		22.1	0.5	
5	HQAM	25	12	21.15	21.26	21.12				
5	HQAM	25	25	21.21	21.10	21.07				
5	HQAM	50	0	20.94	20.99	21.25				
5	HQAM	50	0	20.14	20.10	20.10				
5	HQAM	1	25	21.29	21.16	21.27		22.1	0.5	
5	HQAM	1	48	21.15	21.19	21.14				
5	HQAM	25	0	20.14	20.10	20.08		21.1	1.5	
5	HQAM	25	12	20.01	20.19	20.01				
5	HQAM	25	25	20.28	20.07	20.08				
5	HQAM	50	0	19.97	19.97	20.17				
5	HQAM	50	1	18.95	18.29	18.25		19.1	3.5	
5	HQAM	1	25	18.94	18.43	18.22				
5	HQAM	1	48	18.41	18.27	18.24				
5	HQAM	25	0	18.40	18.29	18.33		19.1	3.5	
5	HQAM	25	12	18.35	18.41	18.41				
5	HQAM	25	25	18.43	18.32	18.41				
5	HQAM	50	0	18.42	18.36	18.33				

Band 41 Ant2 DS19										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel										
Frequency (MHz)				38950	40185	40620	41058	41490		
20	QPSK	1	0	21.76	21.83	21.83	21.82	21.80		
20	QPSK	1	48	21.72	21.63	21.76	21.77	21.66		22.6
20	QPSK	1	88	21.60	21.60	21.73	21.60	21.63		
20	QPSK	50	0	21.77	21.76	21.60	21.79	21.70		
20	QPSK	50	24	21.79	21.66	21.78	21.65	21.70		22.6
20	QPSK	50	50	21.73	21.64	21.67	21.69	21.59		
20	QPSK	100	0	21.66	21.66	21.70	21.69	21.68		
20	16QAM	1	0	21.67	21.61	21.67	21.69	21.68		22.6
20	16QAM	50	24	21.51	21.06	21.25	21.25	21.14		
20	16QAM	1	96	21.70	21.70	21.67	21.64	21.59		
20	16QAM	50	50	20.99	21.18	21.13	21.06	21.07		22.1
20	16QAM	50	24	21.15	21.06	21.25	21.25	21.14		
20	16QAM	50	50	21.17	21.08	21.22	21.10	21.15		22.1
20	16QAM	100	0	21.09	21.05	21.11	21.20	21.15		
20	16QAM	100	24	21.12	21.06	21.22	21.15	21.20		
20	16QAM	1	48	21.27	21.12	21.30	21.28	21.18		22.1
20	16QAM	1	96	21.34	21.00	21.03	21.05	21.06		
20	16QAM	50	0	20.28	20.07	20.21	20.18	20.12		21.1
20	16QAM	50	24	20.00	20.13	19.97	20.07	20.07		
20	16QAM	50	50	20.15	20.10	20.12	20.09	20.12		21.1
20	16QAM	100	0	20.16	20.16	20.03	19.99	20.00		
20	256QAM	1	0	18.47	18.34	18.22	18.14	18.14		19.1
20	256QAM	1	48	18.48	18.42	18.16	18.19	18.30		
20	256QAM	1	96	18.32	18.29	18.31	18.31	18.32		
20	256QAM	50	0	18.46	18.14	18.17	18.27	18.36		
20	256QAM	50	24	18.35	18.45	18.46	18.33	18.34		19.1
20	256QAM	50	50	18.40	18.41	18.52	18.40	18.54		
20	256QAM	100	0	18.48	18.30	18.29	18.40	18.49		
Channel										
Frequency (MHz)				38925	40173	40620	41058	41515	Turn-up time (dBm)	MFR (dB)
15	QPSK	1	0	21.63	21.63	21.73	21.73	21.73		
15	QPSK	1	37	21.74	21.68	21.62	21.69	21.59		23
15	QPSK	1	74	21.66	21.71	21.62	21.61	21.64		
15	QPSK	36	0	21.68	21.77	21.72	21.68	21.61		
15	QPSK	36	20	21.60	21.83	21.66	21.67	21.62		22.6
15	QPSK	36	37	21.63	21.63	21.74	21.63	21.66		
15	QPSK	75	0	21.60	21.76	21.68	21.68	21.69		
15	16QAM	1	0	21.50	21.77	21.60	21.62	21.47		22.6
15	16QAM	1	37	21.54	21.65	21.60	21.60	21.59		
15	16QAM	1	74	21.61	21.62	21.62	21.67	21.51		
15	16QAM	36	0	20.83	21.25	20.99	21.05	21.00		22.1
15	16QAM	36	20	21.21	21.05	21.09	21.10	21.18		
15	16QAM	36	36	21.25	21.06	21.19	21.07	21.24		22.1
15	16QAM	75	0	20.97	21.03	21.23	21.20	21.18		
15	16QAM	75	0	21.03	21.01	21.01	21.15	21.17		
15	16QAM	1	37	21.11	21.09	21.09	21.20	21.18		22.1
15	16QAM	1	74	21.12	21.03	21.10	21.05	21.16		
15	16QAM	36	0	20.10	19.94	20.12	20.20	20		
15	16QAM	36	20	20.07	20.09	20.07	20.09	20.00		21.1
15	16QAM	36	36	20.28	20.14	20.02	20.02	20.02		
15	16QAM	75	0	19.95	20.15	19.98	20.13	19.97		19.1
15	256QAM	1	0	18.47	18.34	18.22	18.14	18.14		19.1
15	256QAM	1	37	18.41	18.40	18.12	18.25	18.35		19.1
15	256QAM	1	74	18.30	18.15	18.27	18.18	18.28		19.1
15	256QAM	36	0	18.46	18.14	18.17	18.27	18.36		
15	256QAM	36	20	18.32	18.36	18.42	18.41	18.34		19.1
15	256QAM	36	36	18.39	18.35	18.44	18.36	18.40		
15	256QAM	75	0	18.37	18.18	18.21	18.41	18.49		
Channel										
Frequency (MHz)				38900	40160	40620	41058	41540	Turn-up time (dBm)	MFR (dB)
10	QPSK	1	0	21.61	21.72	21.63	21.73	21.73		
10	QPSK	1	25	21.60	21.58	21.71	21.62	21.62		23
10	QPSK	1	50	21.54	21.79	21.61	21.61	21.61		
10	QPSK	25	0	21.73	21.74	21.58	21.61	21.70		
10	QPSK	25	12	21.67	21.73	21.69	21.63	21.73		22.6
10	QPSK	25	25	21.72	21.61	21.61	21.67	21.68		
10	QPSK	50	0	21.71	21.63	21.73	21.63	21.54		
10	16QAM	1	0	21.50	21.76	21.49	21.57	21.55		22.6
10	16QAM	1	25	21.60	21.60	21.60	21.60	21.60		
10	16QAM	1	48	21.71	21.64	21.68	21.65	21.52		
10	16QAM	25	0	20.87	21.30	21.12	21.03	21.14		22.1
10	16QAM	25	12	21.12	21.02	21.14	21.24	21.11		
10	16QAM	25	25	21.11	21.05	21.17	21.04	21.08		22.1
10	16QAM	50	0	20.96	20.20	20.20	20.20	20.20		
10	16QAM	50	0	21.12	20.94	21.11	21.17	21.08		
10	16QAM	1	25	21.21	21.04	21.15	21.20	21.13		22.1
10	16QAM	1	48	21.25	21.04	21.15	21.20	21.13		
10	16QAM	25	0	20.11	19.95	20.12	20.19	20.20		
10	16QAM	25	12	19.98	20.19	20.02	20.08	19.99		21.1
10	16QAM	25	25	20.00	20.19	20.02	20.08	20.02		
10	16QAM	50	0	20.11	20.27	19.96	20.08	20.11		
10	16QAM	50	0	20.36	20.15	20.02	20.08	20.10		
10	256QAM	1	25	18.34	18.36	18.11	18.15	18.08		19.1
10	256QAM	1	48	18.30	18.28	18.12	18.28	18.23		
10	256QAM	25	0	18.28	18.11	18.16	18.28	18.23		19.1
10	256QAM	25	12	18.47	18.34	18.41	18.44	18.41		19.1
10	256QAM	25	25	18.28	18.21	18.45	18.33	18.46		
10	256QAM	50	0	18.40	18.22	18.40	18.40	18.40		
Channel										
Frequency (MHz)				38975	40140	40620	41058	41565	Turn-up time (dBm)	MFR (dB)
5	QPSK	1	0	21.82	21.82	21.84	21.79	21.78		
5	QPSK	1	12	21.84	21.69	21.64	21.68	21.65		23
5	QPSK	1	24	21.85	21.66	21.62	21.63	21.65		
5	QPSK	12	0	21.68	21.75	21.65	21.60	21.71		
5	QPSK	12	7	21.64	21.66	21.62	21.63	21.59		22.6
5	QPSK	24	0	21.68	21.74	21.62	21.61	21.58		
5	16QAM	1	0	21.46	21.68	21.60	21.57	21.51		22.6
5	16QAM	1	12	21.56	21.60	21.62	21.61	21.62		
5	16QAM	1	24	21.67	21.68	21.59	21.58	21.53		
5	16QAM	12	0	20.87	21.10	21.02	21.07	21.13		22.1
5	16QAM	12	7	21.24	21.07	21.14	21.25	21.17		
5	16QAM	12	13	21.14	21.15	21.21	21.04	21.13		22.1
5	16QAM	24	0	20.86	21.16	21.02	21.08	21.12		
5	16QAM	1	24	21.03	20.86	20.99	21.13	21.11		
5	16QAM	1	12	21.12	21.04	21.16	21.16	21.13		22.1
5	16QAM	12	0	20.11	19.95	20.12	20.19	20.20		
5	16QAM	12	7	20.02	20.24	20.05	20.04	20.07		21.1
5	16QAM	12	13	20.11	20.10	20.05	20.04	20.09		
5	16QAM	24	0	20.11	20.13	20.10	20.09	20.09		19.1
5	16QAM	24	0	20.02	20.13	20.10	20.07	20.08		
5	256QAM	1	12	18.40	18.13	18.23	18.18	18.24		19.1
5	256QAM	1	24	18.23	18.28	18.31	18.21	18.26		
5	256QAM	12	0	18.28	18.07	18.11	18.18	18.28		19.1
5	256QAM	12	7	18.45	18.38	18.34	18.27	18.45		19.1
5	256QAM	12	13	18.38	18.19	18.30	18.26	18.42		
5	256QAM	24	0	18.46	18.17	18.42	18.42	18.45		



Band 42 FCC Part27Q Ant2 Default												
BW [MHz]	Modulation	RB Size	RB Offset	Power Line Ch / Freq	Power Ch / Freq	Power Freq Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				42190	42690	42990						
20	QPSK	1	0	22.26	22.24	22.20	24	0				
20	QPSK	1	49	22.22	22.28	22.16						
20	QPSK	1	99	22.07	22.21	22.13						
20	QPSK	50	0	21.33	21.36	21.27						
20	QPSK	50	24	21.27	21.30	21.21	23	1				
20	QPSK	50	36	21.32	21.25	21.18						
20	QPSK	100	0	21.19	21.31	21.27						
20	16QAM	1	0	21.13	21.23	21.19						
20	16QAM	1	49	21.17	21.27	21.08	23	1				
20	16QAM	1	99	21.00	21.13	21.02						
20	16QAM	50	0	20.27	20.39	20.26						
20	16QAM	50	24	20.22	20.31	20.19						
20	16QAM	50	50	20.27	20.36	20.22	22	2				
20	16QAM	100	0	20.25	20.29	20.22						
20	16QAM	100	0	20.15	20.27	20.15						
20	16QAM	1	49	20.11	20.21	20.08						
20	16QAM	1	99	20.10	20.17	20.14	21	3				
20	16QAM	50	0	19.38	19.42	19.32						
20	16QAM	50	24	19.26	19.33	19.28						
20	16QAM	50	50	19.23	19.38	19.24						
20	16QAM	100	0	19.18	19.30	19.18	19	5				
20	256QAM	1	0	19.34	19.44	19.30						
20	256QAM	1	49	18.95	18.95	18.83						
20	256QAM	1	99	18.42	18.55	18.43						
20	256QAM	50	0	18.74	18.74	18.73	19	5				
20	256QAM	50	24	18.62	18.68	18.74						
20	256QAM	50	50	18.77	18.81	18.75						
20	256QAM	100	0	18.69	18.69	18.63						
Channel												
Frequency (MHz)				42165 <th>42690<th>42615<th>Turn-up limit (dBm)</th><th>MPR (dB)</th><th colspan="2"></th></th></th>	42690 <th>42615<th>Turn-up limit (dBm)</th><th>MPR (dB)</th><th colspan="2"></th></th>	42615 <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>	Turn-up limit (dBm)	MPR (dB)				
15	QPSK	1	0	22.17	22.30	22.14	24	0				
15	QPSK	1	37	22.16	22.20	22.07						
15	QPSK	1	74	22.02	22.20	22.07						
15	QPSK	36	0	21.27	21.37	21.24						
15	QPSK	36	20	21.18	21.20	21.21	23	1				
15	QPSK	36	36	21.12	21.15	21.09						
15	QPSK	75	0	21.14	21.28	21.22						
15	16QAM	1	0	21.09	21.24	21.19						
15	16QAM	1	37	21.08	21.13	21.03	23	1				
15	16QAM	1	74	21.02	21.10	21.08						
15	16QAM	36	0	20.26	20.38	20.16						
15	16QAM	36	20	20.21	20.33	20.19						
15	16QAM	36	36	20.23	20.27	20.18	22	2				
15	16QAM	75	0	20.16	20.28	20.19						
15	16QAM	75	0	20.21	20.27	20.13						
15	16QAM	1	37	20.13	20.15	20.02						
15	16QAM	74	0	20.08	20.11	20.07	21	3				
15	16QAM	36	0	19.39	19.42	19.29						
15	16QAM	36	20	19.17	19.25	19.24						
15	16QAM	36	36	19.17	19.25	19.24						
15	256QAM	1	0	19.14	19.25	19.17	19	5				
15	256QAM	1	0	18.35	18.44	18.39						
15	256QAM	1	37	18.53	18.52	18.53						
15	256QAM	1	74	18.30	18.48	18.43						
15	256QAM	36	0	18.88	18.74	18.87	19	5				
15	256QAM	36	20	18.77	18.84	18.87						
15	256QAM	36	36	18.74	18.79	18.87						
15	256QAM	75	0	18.67	18.88	18.83						
Channel												
Frequency (MHz)				42140	42690	42660	Turn-up limit (dBm)	MPR (dB)				
10	QPSK	1	0	22.02	22.30	22.14	24	0				
10	QPSK	1	25	22.16	22.26	22.14						
10	QPSK	1	49	22.04	22.14	22.07						
10	QPSK	12	0	21.30	21.32	21.23						
10	QPSK	25	12	21.26	21.26	21.13	23	1				
10	QPSK	25	25	21.12	21.22	21.09						
10	QPSK	1	0	21.10	21.18	21.16						
10	16QAM	1	0	21.10	21.18	21.16						
10	16QAM	1	25	21.12	21.16	21.02	23	1				
10	16QAM	25	12	21.04	21.09	21.05						
10	16QAM	25	0	20.27	20.32	20.24						
10	16QAM	25	12	20.24	20.36	20.13						
10	16QAM	50	0	20.24	20.30	20.14	22	2				
10	16QAM	50	0	20.21	20.33	20.13						
10	16QAM	1	25	20.13	20.14	20.08						
10	16QAM	1	49	20.10	20.15	20.13						
10	16QAM	25	0	19.36	19.43	19.22	22	2				
10	16QAM	25	12	19.22	19.31	19.25						
10	16QAM	25	25	19.16	19.29	19.15						
10	16QAM	50	0	19.13	19.23	19.20						
10	256QAM	1	0	19.24	19.36	19.27	21	3				
10	256QAM	1	25	18.82	18.86	18.76						
10	256QAM	1	49	18.43	18.57	18.34						
10	256QAM	25	0	18.66	18.74	18.84						
10	256QAM	25	12	18.79	18.82	18.87	19	5				
10	256QAM	25	25	18.77	18.80	18.75						
10	256QAM	50	0	18.53	18.70	18.54						
Channel												
Frequency (MHz)				42115 <th>42690<th>42660</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><th colspan="2"></th></th>	42690 <th>42660</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>	42660			Turn-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	22.17	22.29	22.11	24	0				
5	QPSK	1	12	22.03	22.17	22.08						
5	QPSK	1	24	22.06	22.16	22.14						
5	QPSK	12	0	21.36	21.36	21.18						
5	QPSK	12	7	21.30	21.32	21.21	23	1				
5	QPSK	12	19	21.14	21.17	21.16						
5	QPSK	25	0	21.09	21.24	21.23						
5	16QAM	1	0	21.06	21.22	21.19						
5	16QAM	1	12	21.09	21.14	21.02	23	1				
5	16QAM	12	0	21.03	21.13	21.11						
5	16QAM	12	0	20.29	20.30	20.17						
5	16QAM	12	7	20.23	20.23	20.15						
5	16QAM	12	19	20.20	20.32	20.23	22	2				
5	16QAM	25	0	20.18	20.21	20.13						
5	16QAM	1	0	20.19	20.28	20.08						
5	16QAM	12	19	20.20	20.32	20.23						
5	16QAM	1	24	20.10	20.14	20.16	21	3				
5	16QAM	12	0	19.34	19.35	19.32						
5	16QAM	12	7	19.25	19.29	19.25						
5	16QAM	12	19	19.15	19.25	19.10						
5	256QAM	1	0	19.30	19.41	19.22	19	5				
5	256QAM	1	12	18.79	18.91	18.83						
5	256QAM	1	24	18.38	18.46	18.44						
5	256QAM	12	0	18.66	18.74	18.73	19	5				
5	256QAM	12	7	18.76	18.78	18.85						
5	256QAM	12	19	18.69	18.74	18.69						
5	256QAM	12	19	18.69	18.74	18.63						

GSM1900 A-VIS DSS9						
GSM1900	Transmit			Receive		
	Band	Average Power (dBm)	Limit	Band	Average Power (dBm)	Limit
TX Channel	880.2	880	890.2	Limit	890.2	890
Frequency (MHz)	1850.2	1860	1900.2	Limit	1850.2	1860
OPH5 1 Tx rate	23.88	23.87	23.84	25.00	14.90	14.81
OPH5 1 Tx rate	23.93	24.03	23.84	25.00	14.93	14.84
OPH5 2 Tx rate	21.97	22.18	21.82	23.00	15.97	15.82
OPH5 3 Tx rate	20.97	20.98	20.12	21.00	16.11	15.98
OPH5 4 Tx rate	19.98	18.99	18.41	19.00	16.98	16.41
EDGE 1 Tx rate	24.00	24.00	23.00	25.00	15.00	14.00
EDGE 2 Tx rate	21.22	21.97	21.10	22.00	15.22	15.10
EDGE 3 Tx rate	19.24	19.98	19.13	20.00	14.98	14.67
EDGE 4 Tx rate	18.13	18.18	17.75	19.00	15.13	14.78
WCDMA II A-VIS DSS9						
Band	WCDMA II			WCDMA IV		
	Band	Average Power (dBm)	Limit	Band	Average Power (dBm)	Limit
TX Channel	880.2	880.0	89.38	Limit	890.2	89.00
Frequency (MHz)	1850.2	1860	1897.6	Limit	1850.2	1860
SOPF Rel 99	15.16	15.21	15.16	17.00	15.50	15.12
SOPF Rel 99	RNC 12.26ms	15.22	15.25	15.18	17.00	15.74
SOPF Rel 6	HS-PA Subcar-1	14.93	14.26	14.93	14.98	14.50
SOPF Rel 6	HS-PA Subcar-2	14.50	14.51	14.25	14.98	14.76
SOPF Rel 6	HS-PA Subcar-3	14.50	14.20	14.50	14.50	14.26
SOPF Rel 6	HS-PA Subcar-4	14.01	14.24	13.89	15.00	14.40
SOPF Rel 6	DC-HS-PA Subcar-1	14.52	14.61	14.25	16.00	14.70
SOPF Rel 6	DC-HS-PA Subcar-2	14.49	14.42	14.55	16.00	15.12
SOPF Rel 6	DC-HS-PA Subcar-3	13.69	13.69	13.69	15.00	14.00
SOPF Rel 6	DC-HS-PA Subcar-4	14.01	13.01	13.69	15.00	14.20
SOPF Rel 6	HS-PA Subcar-1	14.31	14.79	14.51	16.00	14.54
SOPF Rel 6	HS-PA Subcar-2	12.20	12.47	12.01	14.00	12.70
SOPF Rel 6	HS-PA Subcar-3	13.45	13.51	13.40	15.00	13.01
SOPF Rel 6	HS-PA Subcar-4	12.30	12.68	12.40	14.00	12.96
SOPF Rel 6	HS-PA Subcar-5	14.43	14.30	14.38	16.00	14.77

Band 2 Ant3 D519												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	15.51	15.54	15.46			17	0		
20	QPSK	1	49	15.35	15.47	15.44						
20	QPSK	1	99	15.41	15.46	15.46						
20	QPSK	50	0	15.45	15.52	15.30						
20	QPSK	50	24	15.35	15.38	15.45						
20	QPSK	50	50	15.41	15.43	15.38						
20	QPSK	100	0	15.47	15.48	15.27						
20	16QAM	1	0	15.36	15.40	15.27						
20	16QAM	1	49	15.41	15.53	15.38						
20	16QAM	1	99	15.49	15.40	15.43						
20	16QAM	50	0	15.45	15.50	15.32						
20	16QAM	50	24	15.35	15.53	15.27						
20	16QAM	50	50	15.29	15.44	15.30						
20	16QAM	100	0	15.43	15.53	15.40						
20	64QAM	1	0	15.40	15.44	15.39						
20	64QAM	1	49	15.49	15.25	15.41						
20	64QAM	1	99	15.38	15.51	15.30						
20	64QAM	50	0	15.50	15.51	15.45						
20	64QAM	50	24	15.52	15.28	15.46						
20	64QAM	50	50	15.37	15.53	15.45						
20	256QAM	100	0	15.31	15.50	15.40						
20	256QAM	1	49	15.34	15.39	15.44						
20	256QAM	1	99	15.31	15.50	15.47						
20	256QAM	50	0	15.50	15.50	15.44						
20	256QAM	50	24	15.35	15.48	15.38						
20	256QAM	50	50	15.45	15.53	15.40						
20	256QAM	100	0	15.44	15.53	15.35						
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.51	15.50	15.50			17	0		
15	QPSK	1	37	15.49	15.51	15.40						
15	QPSK	1	74	15.22	15.41	15.40						
15	QPSK	36	0	15.20	15.35	15.28						
15	QPSK	36	25	15.30	15.35	15.44						
15	QPSK	36	39	15.41	15.30	15.39						
15	QPSK	75	0	15.37	15.41	15.14						
15	16QAM	1	0	15.20	15.28	15.15						
15	16QAM	1	37	15.28	15.36	15.11						
15	16QAM	1	74	15.43	15.38	15.24						
15	16QAM	36	0	15.34	15.34	15.22						
15	16QAM	36	20	15.14	15.52	15.19						
15	16QAM	36	25	15.39	15.33	15.33						
15	16QAM	75	0	15.25	15.34	15.23						
15	64QAM	1	0	15.31	15.32	15.34						
15	64QAM	1	37	15.32	15.32	15.31						
15	64QAM	36	0	15.36	15.51	15.31						
15	64QAM	36	20	15.21	15.39	15.34						
15	64QAM	36	25	15.29	15.35	15.35						
15	64QAM	75	0	15.12	15.38	15.36						
15	256QAM	1	0	15.23	15.35	15.34						
15	256QAM	1	37	15.27	15.29	15.20						
15	256QAM	1	74	15.19	15.36	15.38						
15	256QAM	36	0	15.24	15.46	15.34						
15	256QAM	36	20	15.23	15.40	15.10						
15	256QAM	36	25	15.27	15.40	15.32						
15	256QAM	75	0	15.28	15.32	15.23						
Channel												
Frequency (MHz)												
10	QPSK	1	0	15.54	15.57	15.50			17	0		
10	QPSK	1	25	15.38	15.38	15.43						
10	QPSK	1	49	15.39	15.30	15.38						
10	QPSK	25	0	15.47	15.39	15.32						
10	QPSK	25	12	15.22	15.23	15.29						
10	QPSK	25	25	15.30	15.32	15.17						
10	QPSK	25	39	15.40	15.34	15.37						
10	16QAM	1	0	15.30	15.32	15.17						
10	16QAM	1	25	15.42	15.49	15.17						
10	16QAM	1	49	15.31	15.39	15.38						
10	16QAM	25	0	15.38	15.30	15.32						
10	16QAM	25	12	15.17	15.40	15.24						
10	16QAM	25	25	15.25	15.46	15.24						
10	16QAM	50	0	15.29	15.49	15.19						
10	256QAM	1	0	15.38	15.38	15.35						
10	256QAM	1	25	15.22	15.36	15.26						
10	256QAM	1	49	15.19	15.36	15.35						
10	256QAM	25	0	15.33	15.30	15.25						
10	256QAM	25	12	15.15	15.30	15.19						
10	256QAM	25	25	15.26	15.27	15.40						
10	256QAM	50	0	15.38	15.30	15.24						
Channel												
Frequency (MHz)												
5	QPSK	1	0	15.51	15.49	15.53			17	0		
5	QPSK	1	12	15.35	15.41	15.31						
5	QPSK	1	24	15.27	15.38	15.38						
5	QPSK	12	0	15.33	15.38	15.33						
5	QPSK	12	7	15.24	15.22	15.30						
5	QPSK	12	13	15.38	15.39	15.20						
5	QPSK	25	0	15.17	15.53	15.27						
5	16QAM	1	0	15.20	15.30	15.11						
5	16QAM	1	12	15.33	15.46	15.28						
5	16QAM	1	24	15.43	15.29	15.34						
5	16QAM	12	0	15.43	15.34	15.28						
5	16QAM	12	7	15.19	15.52	15.13						
5	16QAM	12	13	15.40	15.35	15.27						
5	16QAM	25	0	15.26	15.44	15.39						
5	64QAM	1	0	15.29	15.28	15.34						
5	64QAM	1	12	15.11	15.19	15.34						
5	64QAM	1	24	15.20	15.36	15.20						
5	64QAM	12	0	15.51	15.34	15.28						
5	64QAM	12	7	15.22	15.36	15.31						
5	64QAM	12	13	15.30	15.33	15.30						
5	256QAM	1	0	15.28	15.19	15.26						
5	256QAM	1	12	15.21	15.29	15.56						
5	256QAM	1	24	15.30	15.23	15.30						
5	256QAM	12	0	15.43	15.25	15.31						
5	256QAM	12	7	15.29	15.38	15.37						
5	256QAM	12	13	15.38	15.37	15.24						
5	256QAM	25	0	15.40	15.34	15.20						
Channel												
Frequency (MHz)												
3	QPSK	1	0	15.44	15.43	15.44			17	0		
3	QPSK	1	8	15.32	15.44	15.42						
3	QPSK	1	16	15.36	15.37	15.40						
3	QPSK	8	0	15.33	15.38	15.24						
3	QPSK	8	4	15.20	15.28	15.40						
3	QPSK	15	0	15.29	15.27	15.58						
3	16QAM	1	0	15.26	15.33	15.21						
3	16QAM	1	8	15.33	15.43	15.24						
3	16QAM	1	16	15.42	15.34	15.17						
3	16QAM	8	0	15.31	15.33	15.24						
3	16QAM	8	7	15.39	15.28	15.29						
3	16QAM	15	0	15.42	15.41	15.36						
3	64QAM	1	0	15.28	15.37	15.24						
3	64QAM	1	8	15.40	15.15	15.41						
3	64QAM	1	16	15.35	15.35	15.19						
3	64QAM	8	0	15.30	15.39	15.26						
3	64QAM	8	4	15.12	15.27	15.30						
3	256QAM	1	0	15.27	15.23	15.30						
3	256QAM	1	8	15.34	15.26	15.40						
3	256QAM	1	16	15.13	15.41	15.47						
3	256QAM	8	0	15.43	15.28	15.35						
3	256QAM	8	7	15.40	15.33	15.43						
3	256QAM	8	7	15.41	15.34	15.31						
3	256QAM	15	0	15.26	15.32	15.27						
Channel												
Frequency (MHz)												
1.8	QPSK	1	0	15.47	15.39	15.47			17	0		
1.8	QPSK	1	8	15.32	15.44	15.42						
1.8	QPSK	1	16	15.37	15.37	15.21						
1.8	QPSK	3	0	15.33	15.38	15.24						
1.8	QPSK	3	0	15.38	15.40	15.12						
1.8	QPSK	3	8	15.24	15.23	15.30						
1.8	QPSK	3	16	15.21	15.31	15.07						
1.8	QPSK	6	0	15.27	15.32	15.21						
1.8	QPSK	6	8	15.35	15.26	15.20						
1.8	QPSK	1	7	15.23	15.52	15.12						
1.8	16QAM	1	0	15.37	15.24	15.28						
1.8	16QAM	1	8	15.40	15.33	15.18						
1.8	16QAM	3	0	15.33	15.34	15.34						
1.8	16QAM	3	1	15.39	15.39	15.29						
1.8	16QAM	3	1	15.32	15.26	15.29						
1.8	16QAM	6	0	15.16	15.16	15.16						
1.8	16QAM	6	0	15.10	15.47	15.29						
1.8	16QAM	1	0	15.39	15.20	15.28						
1.8	16QAM	1	8	15.29	15.31	15.27						
1.8	16QAM	1	16	15.23	15.23	15.23						
1.8	16QAM	3	0	15.39	15.39	15.29						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.25	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						
1.8	16QAM	3	3	15.24	15.51	15.30						

Band 25 Ant3 DS19														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 26140	Power Middle Ch / Freq. 26145	Power High Ch / Freq. 26148	Turn-up time (secs)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	15.54	15.55	15.48	17	0						
20	QPSK	1	49	15.32	15.52	15.27								
20	QPSK	1	99	15.23	15.41	15.38								
20	QPSK	50	0	15.43	15.53	15.38								
20	QPSK	50	24	15.35	15.39	15.15	17	0						
20	QPSK	50	50	15.28	15.38	15.25								
20	QPSK	100	0	15.41	15.48	15.46								
20	16QAM	1	0	15.39	15.39	15.13								
20	16QAM	1	49	15.32	15.29	15.18	17	0						
20	16QAM	1	99	15.25	15.47	15.26								
20	16QAM	50	0	15.43	15.42	15.42								
20	16QAM	50	24	15.36	15.44	15.21								
20	16QAM	50	50	15.26	15.35	15.16	17	0						
20	16QAM	100	0	15.24	15.41	15.29								
20	64QAM	1	0	15.27	15.50	15.22								
20	64QAM	1	49	15.40	15.23	15.19								
20	64QAM	1	99	15.48	15.30	15.40	17	0						
20	64QAM	50	0	15.31	15.50	15.31								
20	64QAM	50	24	15.40	15.45	15.35								
20	64QAM	50	50	15.26	15.38	15.45								
20	256QAM	1	0	15.18	15.45	15.31	17	0						
20	256QAM	1	49	15.31	15.46	15.36								
20	256QAM	1	99	15.28	15.17	15.22								
20	256QAM	50	0	15.28	15.34	15.27								
20	256QAM	50	24	15.43	15.29	15.42								
20	256QAM	50	50	15.31	15.36	15.22								
20	256QAM	100	0	15.46	15.37	15.41								
Channel														
Frequency (MHz)														
15	QPSK	1	0	15.55	15.50	15.45	17	0						
15	QPSK	1	37	15.27	15.47	15.28								
15	QPSK	1	74	15.23	15.38	15.24								
15	QPSK	36	0	15.26	15.38	15.29								
15	QPSK	36	20	15.30	15.39	15.45	17	0						
15	QPSK	36	39	15.29	15.38	15.12								
15	QPSK	75	0	15.33	15.40	15.17								
15	16QAM	1	1	15.27	15.30	15.17								
15	16QAM	1	37	15.34	15.47	15.26	17	0						
15	16QAM	1	74	15.29	15.27	15.22								
15	16QAM	36	0	15.28	15.29	15.29								
15	16QAM	36	20	15.24	15.43	15.18								
15	16QAM	36	39	15.19	15.44	15.37	17	0						
15	16QAM	75	0	15.27	15.48	15.37								
15	64QAM	1	0	15.28	15.43	15.26								
15	64QAM	1	37	15.45	15.38	15.26								
15	64QAM	1	74	15.38	15.37	15.14	17	0						
15	64QAM	36	0	15.46	15.38	15.38								
15	64QAM	36	20	15.30	15.48	15.24								
15	64QAM	36	39	15.37	15.38	15.35								
15	64QAM	75	0	15.30	15.33	15.27	17	0						
15	256QAM	1	0	15.35	15.35	15.16								
15	256QAM	1	37	15.28	15.19	15.39								
15	256QAM	1	74	15.21	15.36	15.47								
15	256QAM	36	0	15.40	15.38	15.33	17	0						
15	256QAM	36	20	15.23	15.32	15.26								
15	256QAM	36	39	15.29	15.49	15.23								
15	256QAM	75	0	15.27	15.29	15.25								
Channel														
Frequency (MHz)														
10	QPSK	1	0	15.55	15.50	15.45	17	0						
10	QPSK	1	25	15.27	15.33	15.43								
10	QPSK	1	49	15.21	15.45	15.29								
10	QPSK	25	0	15.39	15.23	15.14								
10	QPSK	25	12	15.23	15.29	15.29	17	0						
10	QPSK	25	25	15.33	15.37	15.15								
10	QPSK	50	0	15.40	15.40	15.18								
10	16QAM	1	0	15.17	15.29	15.18								
10	16QAM	1	25	15.24	15.43	15.16	17	0						
10	16QAM	1	49	15.29	15.34	15.13								
10	16QAM	25	0	15.37	15.34	15.13								
10	16QAM	25	12	15.30	15.47	15.08								
10	16QAM	50	0	15.26	15.38	15.31	17	0						
10	16QAM	50	0	15.38	15.41	15.23								
10	64QAM	1	0	15.23	15.29	15.29								
10	64QAM	1	25	15.33	15.15	15.28								
10	64QAM	1	49	15.38	15.33	15.17	17	0						
10	64QAM	25	0	15.38	15.34	15.45								
10	64QAM	25	12	15.22	15.35	15.29								
10	64QAM	25	25	15.16	15.50	15.26								
10	64QAM	50	0	15.19	15.31	15.20	17	0						
10	256QAM	1	0	15.33	15.28	15.34								
10	256QAM	1	25	15.15	15.39	15.36								
10	256QAM	1	49	15.18	15.50	15.26								
10	256QAM	25	0	15.33	15.30	15.62	17	0						
10	256QAM	25	12	15.25	15.39	15.28								
10	256QAM	25	25	15.31	15.38	15.26								
10	256QAM	50	0	15.38	15.15	15.18								
Channel														
Frequency (MHz)														
5	QPSK	1	0	15.74	15.47	15.12	17	0						
5	QPSK	1	12	15.29	15.39	15.37								
5	QPSK	1	24	15.23	15.27	15.29								
5	QPSK	12	0	15.29	15.38	15.17								
5	QPSK	12	7	15.24	15.39	15.38	17	0						
5	QPSK	12	13	15.29	15.32	15.25								
5	QPSK	25	0	15.30	15.31	15.07								
5	16QAM	1	0	15.32	15.30	15.24								
5	16QAM	1	12	15.31	15.50	15.24	17	0						
5	16QAM	1	24	15.33	15.45	15.27								
5	16QAM	12	0	15.38	15.29	15.21								
5	16QAM	12	7	15.27	15.47	15.10								
5	16QAM	12	14	15.38	15.44	15.30	17	0						
5	16QAM	25	0	15.44	15.40	15.36								
5	64QAM	1	0	15.37	15.25	15.26								
5	64QAM	1	12	15.38	15.32	15.29								
5	64QAM	1	24	15.32	15.33	15.14	17	0						
5	64QAM	12	0	15.34	15.37	15.29								
5	64QAM	12	7	15.11	15.49	15.32								
5	64QAM	12	13	15.27	15.44	15.32								
5	64QAM	25	0	15.15	15.36	15.26	17	0						
5	256QAM	1	0	15.22	15.32	15.17								
5	256QAM	1	12	15.34	15.20	15.43								
5	256QAM	1	24	15.12	15.52	15.27	17	0						
5	256QAM	12	0	15.35	15.32	15.30								
5	256QAM	12	7	15.26	15.46	15.25								
5	256QAM	12	13	15.44	15.53	15.31								
5	256QAM	25	0	15.39	15.22	15.27								
Channel														
Frequency (MHz)														
3	QPSK	1	0	15.75	15.50	15.13	17	0						
3	QPSK	1	6	15.48	15.48	15.43								
3	QPSK	1	12	15.29	15.39	15.38								
3	QPSK	1	18	15.42	15.46	15.45								
3	QPSK	3	0	15.27	15.38	15.27	17	0						
3	QPSK	3	6	15.49	15.46	15.46								
3	QPSK	3	12	15.16	15.22	15.15								
3	QPSK	3	18	15.42	15.24	15.21								
3	QPSK	16	0	15.48	15.45	15.38	17	0						
3	QPSK	16	6	15.21	15.38	15.31								
3	16QAM	1	0	15.22	15.40	15.18								
3	16QAM	1	14	15.40	15.37	15.30								
3	16QAM	3	0	15.47	15.38	15.31	17	0						
3	16QAM	3	6	15.25	15.38	15.38								
3	16QAM	3	12	15.33	15.32	15.16								
3	16QAM	3	18	15.25	15.30	15.36								
3	16QAM	16	0	15.24	15.17	15.17	17	0						
3	16QAM	16	6	15.23	15.32	15.32								
3	16QAM	16	12	15.30	15.32	15.27								
3	16QAM	16	18	15.16	15.42	15.28								
3	16QAM	3	0	15.30	15.46	15.36	17	0						
3	16QAM	3	6	15.27	15.37	15.37								
3	16QAM	3	12	15.33	15.32	15.27								
3	16QAM	3	18	15.29	15.36	15.42								
3	16QAM	16	0	15.25	15.36	15.18	17	0						
3	16QAM	16	6	15.24	15.49	15.49								
3	16QAM	16	12	15.31	15.38	15.48								
3	16QAM	16	18	15.25	15.36	15.19								
3	16QAM	3	0	15.43	15.49	15.49								
3	16QAM	3	6	15.28	15.34	15.38								



Band 38 Ant3 DSI9											
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)			
Channel											
Frequency (MHz)				39760	39800	39860					
20	QPSK	1	0	19.47	19.50	19.43	21.1	0			
20	QPSK	1	49	19.40	19.48	19.35					
20	QPSK	1	99	19.28	19.37	19.30					
20	QPSK	50	0	19.40	19.48	19.41					
20	QPSK	50	24	19.36	19.37	19.26	21.1	0			
20	QPSK	50	50	19.35	19.45	19.30					
20	QPSK	100	0	19.45	19.47	19.41					
20	16QAM	1	0	19.45	19.34	19.43					
20	16QAM	1	49	19.29	19.42	19.23	21.1	0			
20	16QAM	1	99	19.45	19.45	19.33					
20	16QAM	50	0	19.44	19.40	19.23					
20	16QAM	50	24	19.35	19.45	19.31					
20	16QAM	100	0	19.27	19.44	19.27	21.1	0			
20	16QAM	100	1	19.25	19.35	19.26					
20	8QAM	1	49	19.27	19.43	19.25					
20	8QAM	1	99	19.22	19.47	19.37					
20	8QAM	50	0	19.41	19.31	19.31	20.1	1			
20	8QAM	50	24	19.28	19.44	19.43					
20	8QAM	100	0	19.45	19.43	19.23					
20	25QAM	1	0	19.28	19.35	19.43					
20	25QAM	1	49	19.27	19.47	19.38	20.1	1			
20	25QAM	1	99	19.38	19.49	19.49					
20	25QAM	50	24	19.48	18.60	19.42					
20	25QAM	50	50	19.37	18.69	19.41					
20	25QAM	100	0	19.30	19.43	19.36	20.1	1			
Channel											
Frequency (MHz)				39765	39800	39800			Time-up limit (dBm)	MPE (dB)	
Frequency (MHz)				39772.5	39797.5	39772.5					
15	QPSK	1	0	19.27	19.34	19.33	21.1	0			
15	QPSK	1	25	19.30	19.32	19.23					
15	QPSK	1	49	19.37	19.35	19.30					
15	QPSK	20	0	19.37	19.35	19.30					
15	QPSK	20	12	19.15	19.21	19.20	21.1	0			
15	QPSK	20	25	19.30	19.32	19.20					
15	QPSK	50	0	19.45	19.33	19.31					
15	16QAM	1	0	19.29	19.19	19.17					
15	16QAM	1	25	19.37	19.35	19.25	21.1	0			
15	16QAM	1	49	19.27	19.46	19.31					
15	16QAM	1	74	19.24	19.23	19.22					
15	16QAM	12	12	19.18	19.24	19.15					
15	16QAM	20	0	19.15	19.25	19.20	21.1	0			
15	16QAM	20	25	19.23	19.30	19.13					
15	16QAM	50	0	19.10	19.25	19.15					
15	16QAM	50	25	19.14	19.26	19.20					
15	8QAM	1	25	19.27	19.42	19.29	21.1	0			
15	8QAM	20	0	19.13	19.31	19.17					
15	8QAM	20	25	19.34	19.26	19.20					
15	8QAM	50	0	19.28	19.40	19.14					
15	8QAM	50	25	19.28	19.36	19.29	20.1	1			
15	25QAM	1	25	19.27	19.48	19.30					
15	25QAM	1	49	19.35	19.42	19.38					
15	25QAM	20	0	19.32	19.34	19.46					
15	25QAM	20	12	18.48	18.40	18.22	20.1	1			
15	25QAM	20	25	19.24	19.40	19.33					
15	25QAM	50	0	19.37	19.36	19.30					
Channel											
Frequency (MHz)				39775	39800	39820	Time-up limit (dBm)	MPE (dB)			
Frequency (MHz)				39782.5	39795	39782.5					
5	QPSK	1	0	19.27	19.44	19.31	21.1	0			
5	QPSK	1	12	19.29	19.32	19.33					
5	QPSK	1	24	19.29	19.25	19.32					
5	QPSK	12	0	19.30	19.39	19.29					
5	QPSK	12	7	19.18	19.34	19.16	21.1	0			
5	QPSK	12	13	19.21	19.36	19.13					
5	QPSK	25	0	19.46	19.32	19.34					
5	QPSK	25	1	19.29	19.24	19.19					
5	16QAM	1	12	19.28	19.29	19.19	21.1	0			
5	16QAM	1	24	19.28	19.40	19.32					
5	16QAM	12	0	19.30	19.36	19.24					
5	16QAM	12	7	19.21	19.41	19.13					
5	16QAM	12	13	19.31	19.23	19.15	21.1	0			
5	16QAM	25	0	19.18	19.28	19.23					
5	16QAM	25	1	19.24	19.36	19.18					
5	16QAM	1	24	19.24	19.44	19.36					
5	8QAM	1	0	19.32	19.32	19.26	21.1	0			
5	8QAM	12	0	19.32	19.24	19.38					
5	8QAM	12	13	19.37	19.24	19.21					
5	8QAM	25	0	19.32	19.31	19.15					
5	25QAM	1	0	19.29	19.34	19.24	20.1	1			
5	25QAM	1	12	19.30	19.33	19.33					
5	25QAM	1	24	19.19	19.43	19.26					
5	25QAM	12	0	19.32	19.28	19.32					
5	25QAM	12	7	19.27	19.37	19.31	20.1	1			
5	25QAM	12	13	19.22	19.44	19.40					
5	25QAM	25	0	19.22	19.30	19.20					
5	25QAM	25	1	19.34	19.30	19.20					

Band 41 Ant3 DSI9											
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Fwd Mhz	Power Mid Fwd Mhz	Power High Fwd Mhz	Time-up limit (min)	MPR (dB)
Channel											
Frequency (MHz)				39760	40165	40620	41065	41660			
20	QPSK	1	0	19.20	19.20	19.23	19.45	19.39			
20	QPSK	1	48	19.22	19.22	19.48	19.40	19.24	21.1		0
20	QPSK	50	24	19.18	19.27	19.51	19.32	19.32			
20	QPSK	50	24	19.18	19.28	19.24	19.43	19.43			
20	QPSK	50	24	19.18	19.10	19.51	19.43	19.32	21.1		0
20	QPSK	100	0	19.21	19.20	19.50	19.30	19.32			
20	QPSK	100	0	19.24	19.10	19.50	19.38	19.40			
20	QPSK	100	48	19.23	19.48	19.18	19.40	19.18	21.1		0
20	16QAM	1	56	19.18	19.13	19.46	19.40	19.29			
20	16QAM	50	0	19.18	19.15	19.51	19.45	19.29			
20	16QAM	50	48	19.18	19.15	19.51	19.45	19.29			
20	16QAM	50	50	19.11	19.16	19.52	19.45	19.30	21.1		0
20	16QAM	100	0	19.17	19.26	19.57	19.36	19.34			
20	16QAM	100	48	19.17	19.26	19.57	19.36	19.34			
20	16QAM	1	48	19.13	19.21	19.51	19.45	19.18	21.1		0
20	16QAM	1	48	19.24	19.23	19.53	19.47	19.18			
20	16QAM	50	0	19.20	19.26	19.39	19.34	19.35			
20	16QAM	50	24	19.10	19.14	19.43	19.27	19.34	21.1		0
20	16QAM	50	24	19.10	19.20	19.39	19.43	19.22			
20	16QAM	100	0	19.14	19.20	19.31	19.31	19.34			
20	256QAM	1	0	19.30	19.38	19.48	19.33	19.36			
20	256QAM	1	48	19.27	19.28	19.18	19.30	19.35	20.1		1
20	256QAM	1	56	19.23	19.28	19.55	19.38	19.50			
20	256QAM	50	0	19.27	19.14	19.52	19.30	19.37			
20	256QAM	50	24	19.24	19.14	19.50	19.47	19.31	20.1		1
20	256QAM	50	50	19.26	19.28	19.50	19.43	19.31			
20	256QAM	100	0	19.26	19.18	19.49	19.38	19.42			
Channel											
Frequency (MHz)				39778	40173	40620	41065	41660	Time-up limit (min)	MPR (dB)	
15	QPSK	1	0	19.21	19.18	19.13	19.18	19.18			
15	QPSK	1	39	19.30	19.12	19.40	19.23	19.24	21		0
15	QPSK	1	74	19.19	19.34	19.47	19.12	19.14			
15	QPSK	25	0	19.20	19.20	19.37	19.20	19.21			
15	QPSK	25	20	19.28	19.20	19.38	19.32	19.28			
15	QPSK	25	20	19.21	19.21	19.35	19.21	19.15	21.1		0
15	QPSK	75	0	19.10	19.23	19.39	19.30	19.30			
15	16QAM	1	0	19.15	19.26	19.39	19.34	19.38			
15	16QAM	1	39	19.15	19.10	19.39	19.28	19.28	21.1		0
15	16QAM	1	74	19.25	19.29	19.43	19.30	19.14			
15	16QAM	25	0	19.22	19.21	19.36	19.26	19.18			
15	16QAM	25	20	19.11	19.13	19.39	19.30	19.38	21.1		0
15	16QAM	25	20	19.21	19.23	19.43	19.23	19.17			
15	16QAM	75	0	19.26	19.26	19.34	19.26	19.34			
15	16QAM	1	0	19.10	19.13	19.22	19.27	19.17			
15	16QAM	1	37	19.11	19.22	19.39	19.38	19.13	21.1		0
15	16QAM	25	0	19.26	19.26	19.16	19.27	19.23			
15	16QAM	25	20	19.27	19.19	19.35	19.31	19.18			
15	16QAM	25	20	19.11	19.18	19.35	19.19	19.18	21.1		0
15	16QAM	75	0	19.26	19.26	19.34	19.26	19.34			
15	16QAM	75	0	19.19	19.29	19.14	19.30	19.34			
15	256QAM	1	37	19.27	19.24	19.35	19.31	19.42			
15	256QAM	1	74	19.34	19.27	19.55	19.34	19.26	20.1		1
15	256QAM	1	74	19.33	19.24	19.59	19.38	19.43			
15	256QAM	25	0	19.26	19.26	19.16	19.27	19.23			
15	256QAM	25	20	19.28	19.19	19.35	19.30	19.45			
15	256QAM	25	20	19.15	19.18	19.35	19.19	19.18	21.1		0
15	256QAM	75	0	19.36	19.36	19.51	19.36	19.40			
15	256QAM	1	0	19.27	19.24	19.35	19.31	19.42			
Channel											
Frequency (MHz)				39780	40180	40620	41080	41660	Time-up limit (min)	MPR (dB)	
5	QPSK	1	0	19.18	19.18	19.18	19.40	19.24			
5	QPSK	1	25	19.32	19.19	19.41	19.20	19.24	21		0
5	QPSK	25	0	19.20	19.20	19.37	19.20	19.20			
5	QPSK	25	0	19.21	19.18	19.32	19.27	19.27			
5	QPSK	25	12	19.26	19.12	19.44	19.20	19.25	21.1		0
5	QPSK	25	12	19.18	19.18	19.39	19.24	19.21			
5	QPSK	50	0	19.11	19.27	19.48	19.18	19.16			
5	QPSK	50	0	19.19	19.25	19.40	19.10	19.24			
5	QPSK	50	12	19.18	19.19	19.40	19.19	19.11	21.1		0
5	QPSK	1	49	19.16	19.12	19.40	19.31	19.23			
5	QPSK	25	0	19.22	19.16	19.42	19.36	19.13			
5	QPSK	25	0	19.16	19.25	19.41	19.25	19.34			
5	16QAM	25	25	19.27	19.26	19.32	19.31	19.11			
5	16QAM	25	25	19.28	19.19	19.39	19.28	19.17			
5	16QAM	1	0	19.20	19.18	19.33	19.10	19.15			
5	16QAM	1	25	19.11	19.22	19.45	19.45	19.11	21.1		0
5	16QAM	1	25	19.21	19.18	19.39	19.28	19.28			
5	16QAM	25	0	19.21	19.19	19.20	19.22	19.18			
5	16QAM	25	12	19.16	19.31	19.33	19.26	19.16	21.1		0
5	16QAM	25	12	19.30	19.28	19.30	19.28	19.16			
5	16QAM	50	0	19.11	19.15	19.35	19.10	19.34			
5	16QAM	50	12	19.18	19.19	19.34	19.19	19.28			
5	256QAM	1	25	19.35	19.19	19.51	19.46	19.14	20.1		1
5	256QAM	1	49	19.14	19.32	19.55	19.36	19.45			
5	256QAM	25	0	19.26	19.26	19.16	19.43	19.38			
5	256QAM	25	12	19.28	19.24	19.41	19.46	19.45	20.1		1
5	256QAM	25	25	19.30	19.34	19.48	19.31	19.28			
5	256QAM	1	0	19.27	19.24	19.35	19.31	19.42			
Channel											
Frequency (MHz)				39678	40144	40620	41080	41660	Time-up limit (min)	MPR (dB)	
5	QPSK	1	0	19.20	19.28	19.34	19.34	19.24			
5	QPSK	1	12	19.31	19.11	19.31	19.36	19.23	21		0
5	QPSK	1	12	19.13	19.13	19.31	19.31	19.24			
5	QPSK	12	0	19.40	19.31	19.33	19.21	19.30			
5	QPSK	12	7	19.17	19.24	19.51	19.39	19.30			
5	QPSK	12	13	19.17	19.18	19.39	19.32	19.22			
5	QPSK	25	0	19.31	19.13	19.36	19.20	19.24			
5	QPSK	1	0	19.29	19.17	19.36	19.30	19.36			
5	QPSK	1	12	19.17	19.13	19.39	19.31	19.11	21.1		0
5	16QAM	1	24	19.19	19.20	19.33	19.21	19.12			
5	16QAM	12	0	19.17	19.25	19.36	19.25	19.25			
5	16QAM	12	0	19.20	19.40	19.39	19.10	19.36	21.1		0
5	16QAM	12	13	19.18	19.18	19.38	19.20	19.20			
5	16QAM	1	25	19.31	19.26	19.28	19.23	19.13			
5	16QAM	1	0	19.23	19.10	19.22	19.33	19.34			
5	16QAM	1	12	19.24	19.17	19.42	19.33	19.10	21.1		0
5	16QAM	1	24	19.20	19.19	19.35	19.27	19.13			
5	16QAM	12	0	19.37	19.17	19.23	19.26	19.32			
5	16QAM	12	0	19.22	19.23	19.30	19.11	19.16			
5	16QAM	12	13	19.17	19.18	19.38	19.20	19.20	21.1		0
5	16QAM	25	0	19.24	19.20	19.37	19.31	19.22			
5	16QAM	25	0	19.26	19.26	19.36	19.40	19.38			
5	16QAM	1	12	19.22	19.31	19.58	19.58	19.21	20.1		1
5	256QAM	1	24	19.21	19.34	19.52	19.46	19.45			
5	256QAM	12	0	19.30	19.12	19.38	19.32	19.21			
5	256QAM	12	7	19.21	19.24	19.53	19.52	19.26	20.1		1



Band 42 FCC Part27Q Ant3 DS19										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-up test (dBm)	MPR (dB)		
Channel				42190	42690	42990				
Frequency (MHz)										
20	QPSK	1	0	15.22	15.25	15.23	16.7	0		
20	QPSK	1	49	15.04	15.18	15.10				
20	QPSK	1	99	15.05	15.19	15.13				
20	QPSK	50	0	15.21	15.19	15.18				
20	QPSK	50	24	15.04	15.07	15.08				
20	QPSK	50	49	15.13	15.23	15.09	16.7	0		
20	QPSK	100	0	15.13	15.22	15.20				
20	16QAM	1	0	15.04	15.11	15.09				
20	16QAM	1	49	15.21	15.17	15.09				
20	16QAM	50	0	15.02	15.11	15.14				
20	16QAM	50	24	15.06	15.12	15.12	16.7	0		
20	16QAM	50	49	15.18	15.19	15.13				
20	16QAM	100	0	15.05	15.12	15.17				
20	64QAM	1	0	15.12	15.16	15.18				
20	64QAM	1	49	15.13	15.18	15.07				
20	64QAM	50	0	15.20	15.19	15.15	16.7	0		
20	64QAM	50	24	15.16	15.23	15.07				
20	64QAM	50	50	15.22	15.16	15.23				
20	64QAM	100	0	15.12	15.08	15.12				
20	256QAM	1	0	15.18	15.14	15.17				
20	256QAM	1	49	15.01	15.12	15.02	16.7	0		
20	256QAM	1	99	15.16	15.18	15.10				
20	256QAM	50	0	15.13	15.06	15.20				
20	256QAM	50	24	15.03	15.22	15.27				
20	256QAM	50	50	15.04	15.15	15.18				
20	256QAM	100	0	15.05	15.20	15.04	16.7	0		
Channel				42165	42690	43015			Turn-up test (dBm)	MPR (dB)
Frequency (MHz)										
15	QPSK	1	0	15.07	15.08	15.09	16.7	0		
15	QPSK	1	37	14.82	15.09	14.98				
15	QPSK	1	74	14.91	15.05	15.06				
15	QPSK	36	0	15.18	15.08	15.11				
15	QPSK	36	20	14.97	15.09	15.01				
15	QPSK	36	36	15.09	15.09	14.99	16.7	0		
15	QPSK	75	0	15.12	15.20	15.18				
15	16QAM	1	0	14.90	14.96	14.94				
15	16QAM	1	37	15.12	15.06	15.02				
15	16QAM	1	74	15.09	15.05	15.03				
15	16QAM	36	0	14.97	15.21	15.00	16.7	0		
15	16QAM	36	20	14.94	15.10	15.00				
15	16QAM	36	36	14.97	14.99	14.98				
15	16QAM	75	0	14.85	15.07	14.80				
15	64QAM	1	0	14.98	15.09	15.02				
15	64QAM	1	37	15.03	14.91	15.02	16.7	0		
15	64QAM	1	74	14.88	15.01	15.06				
15	64QAM	36	0	15.13	15.13	14.86				
15	64QAM	36	20	14.99	15.10	15.02				
15	64QAM	36	36	15.09	15.09	14.99	16.7	0		
15	64QAM	75	0	15.04	15.02	15.07				
15	256QAM	1	0	14.88	15.01	15.07				
15	256QAM	1	37	15.00	15.08	15.05				
15	256QAM	1	74	15.04	15.04	15.07				
15	256QAM	36	0	15.00	15.02	15.12	16.7	0		
15	256QAM	36	20	14.86	15.13	15.02				
15	256QAM	36	36	15.01	15.07	15.06				
15	256QAM	75	0	14.89	14.90	15.00				
Channel <th>42140</th> <th>42690</th> <th>43040</th> <th>Turn-up test (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>				42140	42690	43040	Turn-up test (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	15.07	15.08	15.09	16.7	0		
10	QPSK	1	25	14.84	15.00	14.98				
10	QPSK	1	49	14.93	15.19	14.99				
10	QPSK	25	0	15.13	15.14	15.04				
10	QPSK	25	12	14.87	14.94	15.09				
10	QPSK	25	25	15.13	15.05	14.98	16.7	0		
10	QPSK	50	0	15.02	15.17	15.20				
10	16QAM	1	0	14.87	15.08	15.09				
10	16QAM	1	25	15.10	15.10	14.90				
10	16QAM	1	49	15.00	15.02	14.96				
10	16QAM	25	0	15.06	15.07	14.99	16.7	0		
10	16QAM	25	12	15.05	15.11	15.08				
10	16QAM	25	25	14.91	15.09	14.97				
10	16QAM	50	0	14.98	15.05	14.98				
10	64QAM	1	0	14.86	15.09	15.00				
10	64QAM	1	0	14.86	15.09	15.00	16.7	0		
10	64QAM	1	25	15.02	15.01	14.97				
10	64QAM	1	49	15.10	15.17	15.00				
10	64QAM	25	0	15.12	15.14	15.09				
10	64QAM	25	12	15.10	15.09	14.97	16.7	0		
10	64QAM	25	25	15.16	15.03	15.03				
10	64QAM	50	0	15.05	14.95	15.09				
10	256QAM	1	0	15.05	14.99	15.17				
10	256QAM	1	25	14.90	14.95	14.96				
10	256QAM	1	49	15.13	15.05	15.09	16.7	0		
10	256QAM	25	0	15.02	15.03	15.15				
10	256QAM	25	12	15.00	15.19	15.00				
10	256QAM	25	25	14.99	14.98	15.05				
10	256QAM	50	0	14.88	14.99	15.17	16.7	0		
Channel				42115	42690	43060			Turn-up test (dBm)	MPR (dB)
Frequency (MHz)										
5	QPSK	1	0	15.19	15.18	15.12	16.7	0		
5	QPSK	1	12	14.87	15.18	15.06				
5	QPSK	1	24	14.87	15.10	15.09				
5	QPSK	12	0	15.19	15.09	15.19				
5	QPSK	12	7	14.86	14.94	14.97				
5	QPSK	12	13	15.09	15.17	15.00	16.7	0		
5	QPSK	25	0	14.86	15.22	15.12				
5	16QAM	1	0	15.02	15.07	14.93				
5	16QAM	1	12	15.18	15.05	15.04				
5	16QAM	1	24	15.06	15.06	15.08				
5	16QAM	12	0	15.01	15.09	14.87	16.7	0		
5	16QAM	12	7	14.92	15.07	15.00				
5	16QAM	12	13	14.92	15.05	15.08				
5	16QAM	25	0	14.88	14.98	15.07				
5	64QAM	1	0	15.04	15.21	15.21				
5	64QAM	1	12	14.99	14.96	15.12	16.7	0		
5	64QAM	1	24	15.00	15.16	15.07				
5	64QAM	12	0	15.01	15.12	15.09				
5	64QAM	12	7	14.98	15.24	15.07				
5	64QAM	12	13	15.19	14.98	15.04				
5	64QAM	25	0	14.97	14.90	14.97	16.7	0		
5	256QAM	1	0	14.98	15.00	14.97				
5	256QAM	1	12	14.92	15.13	15.03				
5	256QAM	1	24	14.90	15.14	15.00				
5	256QAM	12	0	15.02	15.09	15.04	16.7	0		
5	256QAM	12	7	14.94	15.08	15.19				
5	256QAM	12	13	14.91	15.09	15.13				
5	256QAM	25	0	14.88	14.99	15.17				



Band 42 FCC Part27Q Ant5 DS19										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up test (dBm)	MPR (dB)		
Channel				42160	42560	42960				
Frequency (MHz)										
20	QPSK	1	0	14.91	15.03	14.93	15.7	0		
20	QPSK	1	48	14.90	15.06	14.93				
20	QPSK	1	96	14.90	15.03	14.93				
20	QPSK	50	0	14.95	15.00	14.89	15.7	0		
20	QPSK	50	24	14.79	15.02	14.74				
20	QPSK	50	48	14.81	14.88	14.89				
20	QPSK	100	0	14.85	15.02	14.93	15.7	0		
20	16QAM	1	0	14.74	15.06	14.76				
20	16QAM	1	96	14.72	15.02	14.74				
20	16QAM	50	0	14.76	15.01	14.83	15.7	0		
20	16QAM	50	24	14.71	14.94	14.84				
20	16QAM	50	50	14.81	14.94	14.88				
20	16QAM	100	0	14.71	14.94	14.84	15.7	0		
20	64QAM	1	0	14.75	14.94	14.75				
20	64QAM	1	48	14.84	14.94	14.92				
20	64QAM	1	96	14.85	15.01	14.93	15.7	0		
20	64QAM	50	0	14.70	15.03	14.78				
20	64QAM	50	24	14.79	14.91	14.85				
20	64QAM	50	50	14.76	15.02	14.77	15.7	0		
20	64QAM	100	0	14.80	14.92	14.91				
20	256QAM	1	0	14.90	15.03	14.74				
20	256QAM	1	48	14.72	14.93	14.82	15.7	0		
20	256QAM	1	96	14.76	15.05	14.92				
20	256QAM	50	0	14.80	14.89	14.74				
20	256QAM	50	24	14.85	15.06	14.83	15.7	0		
20	256QAM	50	50	14.83	15.01	14.82				
20	256QAM	100	0	14.89	15.04	14.79				
Channel				42165 <th>42560</th> <th>42915</th> <th>Turn-up test (dBm)</th> <th>MPR (dB)</th> <th colspan="2" rowspan="2"></th>	42560	42915	Turn-up test (dBm)	MPR (dB)		
Frequency (MHz)										
16	QPSK	1	0	14.71	15.04	14.73	15.7	0		
16	QPSK	1	37	14.81	14.96	14.78				
16	QPSK	1	74	14.75	14.94	14.72				
16	QPSK	36	0	14.83	14.88	14.87	15.7	0		
16	QPSK	36	20	14.69	15.02	14.58				
16	QPSK	36	36	14.80	14.84	14.82				
16	QPSK	75	0	14.74	14.90	14.82	15.7	0		
16	16QAM	1	0	14.63	14.93	14.57				
16	16QAM	1	37	14.61	14.94	14.83				
16	16QAM	1	74	14.60	15.04	14.73	15.7	0		
16	16QAM	36	0	14.75	14.91	14.73				
16	16QAM	36	20	14.72	14.79	14.82				
16	16QAM	36	36	14.66	14.96	14.67	15.7	0		
16	16QAM	75	0	14.52	14.88	14.66				
16	64QAM	1	0	14.61	14.84	14.71				
16	64QAM	1	37	14.69	14.97	14.79	15.7	0		
16	64QAM	1	74	14.72	14.96	14.71				
16	64QAM	36	0	14.61	14.84	14.71				
16	64QAM	36	20	14.69	14.73	14.78	15.7	0		
16	64QAM	36	36	14.60	14.91	14.69				
16	64QAM	75	0	14.59	14.91	14.75				
16	256QAM	1	0	14.80	14.94	14.77	15.7	0		
16	256QAM	1	37	14.81	14.91	14.87				
16	256QAM	1	74	14.76	14.93	14.82				
16	256QAM	36	0	14.82	14.77	14.74	15.7	0		
16	256QAM	36	20	14.67	15.01	14.66				
16	256QAM	36	36	14.71	14.84	14.66				
16	256QAM	75	0	14.73	15.01	14.69	15.7	0		
Channel				42165 <th>42560</th> <th>42915</th> <th>Turn-up test (dBm)</th> <th>MPR (dB)</th> <th colspan="2" rowspan="2"></th>	42560	42915	Turn-up test (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	14.71	14.90	14.73	15.7	0		
10	QPSK	1	25	14.71	15.05	14.75				
10	QPSK	1	49	14.72	14.83	14.72				
10	QPSK	25	0	14.66	14.86	14.67	15.7	0		
10	QPSK	25	12	14.68	14.97	14.63				
10	QPSK	25	25	14.77	14.67	14.66				
10	QPSK	50	0	14.71	14.84	14.77	15.7	0		
10	16QAM	1	0	14.66	14.95	14.57				
10	16QAM	1	25	14.71	14.82	14.80				
10	16QAM	1	49	14.66	15.01	14.62	15.7	0		
10	16QAM	25	0	14.75	14.84	14.73				
10	16QAM	25	12	14.65	14.88	14.79				
10	16QAM	25	25	14.80	14.79	14.75	15.7	0		
10	16QAM	50	0	14.68	14.88	14.74				
10	64QAM	1	0	14.67	15.04	14.71				
10	64QAM	1	25	14.68	14.94	14.93	15.7	0		
10	64QAM	1	49	14.70	14.84	14.76				
10	64QAM	25	0	14.67	15.04	14.71				
10	64QAM	25	12	14.68	14.87	14.67	15.7	0		
10	64QAM	25	25	14.69	14.89	14.66				
10	64QAM	50	0	14.63	14.83	14.84				
10	256QAM	1	0	14.80	14.86	14.76	15.7	0		
10	256QAM	1	25	14.57	14.79	14.74				
10	256QAM	1	49	14.56	14.91	14.92				
10	256QAM	25	0	14.86	14.69	14.68	15.7	0		
10	256QAM	25	12	14.76	14.93	14.80				
10	256QAM	25	25	14.81	15.01	14.82				
10	256QAM	50	0	14.88	14.85	14.82	15.7	0		



Reduced Power Mode for Mian PA DSI2

GIM850 And Default									
GIM850	Base Average Power (dBm)			Turn-up Limit	Frame Average Power (dBm)			Turn-up Limit	Take-up Limit (dBm)
	128	192	256		128	192	256		
Tx Channel	89.2	89.4	89.9	(dBm)	89.2	89.4	89.9	(dBm)	
Frequency (MHz)	52.70	52.82	52.74	33.00	52.70	52.82	52.74	24.50	
QPSK 1 Tx Rate	13.81	13.85	13.76	13.00	13.81	13.85	13.76	24.50	
QPSK 2 Tx Rate	29.40	29.52	29.37	30.00	29.40	29.52	29.37	24.50	
QPSK 3 Tx Rate	44.80	44.96	44.97	45.00	44.80	44.96	44.97	24.50	
QPSK 4 Tx Rate	26.37	26.55	26.37	27.00	26.37	26.55	26.37	24.50	
EDGE 1 Tx Rate	25.38	25.44	25.28	26.00	16.38	16.44	16.28	17.00	
EDGE 2 Tx Rate	23.27	23.78	23.44	25.00	17.23	17.78	17.44	18.00	
EDGE 3 Tx Rate	22.46	22.50	22.53	23.00	18.20	18.33	18.27	19.24	
EDGE 4 Tx Rate	23.40	23.52	23.47	23.00	17.40	17.61	17.41	18.00	

GIM850 And DSI10									
GIM850	Base Average Power (dBm)			Turn-up Limit	Frame Average Power (dBm)			Turn-up Limit	Take-up Limit (dBm)
	512	864	810	Limit	512	864	810	Limit	
Tx Channel	90.2	100	90.9	(dBm)	90.2	100	90.9	(dBm)	
Frequency (MHz)	25.52	25.69	25.59	25.70	16.55	16.69	16.50	16.70	
QPSK 1 Tx Rate	22.46	22.55	22.51	23.00	15.98	16.03	15.91	16.00	
QPSK 2 Tx Rate	21.38	22.00	22.08	23.20	15.98	16.00	15.98	17.20	
QPSK 3 Tx Rate	20.22	20.55	20.25	21.70	15.96	16.00	15.96	17.44	
QPSK 4 Tx Rate	19.40	19.52	19.40	19.70	16.40	16.58	16.40	18.70	
EDGE 1 Tx Rate	20.03	20.05	24.87	26.00	16.03	16.05	15.87	17.00	
EDGE 2 Tx Rate	22.50	22.53	23.62	23.00	16.50	16.58	16.50	17.30	
EDGE 3 Tx Rate	21.48	21.48	21.35	21.50	17.20	17.42	17.08	17.24	
EDGE 4 Tx Rate	19.51	19.53	19.40	20.00	16.51	16.53	16.46	17.00	

WCDMA 8 And DSI10										WCDMA 4 And DSI10										WCDMA 4 And DSI10																			
Base				WCDMA 8				WCDMA 8				WCDMA 4				WCDMA 4				WCDMA 4																			
Tx Channel				9062			9600			8058			Turn-up Limit			1312			1413			1613			Turn-up Limit			4152			4182			4228			Turn-up Limit		
Frequency (MHz)				89.2			90.0			89.8			(dBm)			1037			1036			1728			Limit			4307			4407			4468			Limit		
JGPP Rel 99				18.71			18.81			18.81			17.00			17.11			17.12			17.00			18.70			22.03			22.04			22.01			23.20		
JGPP Rel 99				15.74			15.83			15.80			17.00			17.21			17.27			17.14			18.70			22.07			22.10			22.03			23.20		
JGPP Rel 9				15.88			15.99			15.70			16.00			16.36			16.12			16.19			17.79			21.10			21.26			21.00			22.20		
JGPP Rel 6				13.81			13.84			13.71			16.00			16.36			16.04			16.36			17.70			21.20			21.42			22.20			22.20		
JGPP Rel 6				13.46			13.43			13.16			16.70			15.60			15.74			15.71			17.20			20.18			20.17			20.33			20.33		
JGPP Rel 6				13.40			13.31			13.23			16.30			15.70			15.78			15.81			17.20			20.34			20.12			20.24			21.70		
JGPP Rel 6				13.71			13.84			13.70			16.60			16.17			16.16			16.36			17.70			20.74			20.72			20.60			20.60		
JGPP Rel 6				13.87			13.87			13.79			16.60			16.17			16.40			16.44			17.70			20.70			20.53			20.67			20.67		
JGPP Rel 6				13.02			13.27			13.20			16.70			15.54			15.87			15.87			17.20			19.66			19.76			19.81			19.81		
JGPP Rel 6				13.24			13.31			13.11			16.30			15.81			15.87			15.87			17.20			19.62			19.62			19.60			19.60		
JGPP Rel 6				13.67			13.70			13.84			16.80			16.18			16.07			16.01			17.70			20.70			20.39			20.47			20.47		
JGPP Rel 6				13.71			13.84			13.87			14.00			14.20			14.37			14.03			16.70			18.72			18.59			20.20			20.20		
JGPP Rel 6				14.81			14.87			14.74			13.00			15.23			15.09			15.07			16.70			19.68			19.72			21.20			21.20		
JGPP Rel 6				13.82			13.78			13.72			14.00			14.20			14.24			14.20			15.70			18.73			18.82			20.20			20.20		
JGPP Rel 6				13.55			13.54			13.50			16.60			16.11			15.99			16.03			17.70			20.62			20.73			20.77			20.77		



Band 2 Ant0 DS110									
BW (MHz)	Modulation	RB Size	RB Offset	Power Max (Ch./Fires)	Power Min (Ch./Fires)	Power Max (Ch./Fires)	Power Min (Ch./Fires)	Turn-up time (Sec)	MPE (dB)
Channel									
1800 1800 1800									
20	QPSK	1	0	16.83	16.80	16.78			
20	QPSK	1	49	16.78	16.87	16.78	18.2	0	
20	QPSK	1	99	16.79	16.89	16.81			
20	QPSK	50	0	16.77	16.83	16.68			
20	QPSK	50	24	16.83	16.78	16.74	18.2	0	
20	QPSK	50	50	16.88	16.80	16.81			
20	QPSK	100	0	16.77	16.79	16.66			
20	16QAM	50	0	16.88	16.79	16.77	18.2	0	
20	16QAM	1	49	16.70	16.68	16.62			
20	16QAM	1	99	16.79	16.69	16.75			
20	16QAM	50	0	16.76	16.87	16.74	18.2	0	
20	16QAM	50	24	16.84	16.69	16.78			
20	16QAM	50	50	16.84	16.68	16.67			
20	16QAM	100	0	16.80	16.94	16.78			
20	16QAM	100	0	16.82	16.77	16.74			
20	64QAM	1	0	16.88	16.79	16.78			
20	64QAM	1	49	16.75	16.94	16.74	18.2	0	
20	64QAM	1	99	16.75	16.77	16.74			
20	64QAM	50	0	16.83	16.67	16.75			
20	64QAM	50	24	16.86	16.72	16.84	18.2	0	
20	64QAM	50	50	16.83	16.68	16.67			
20	64QAM	100	0	16.79	16.84	16.70			
20	256QAM	1	49	16.67	16.71	16.58	18.2	0	
20	256QAM	1	99	16.71	16.82	16.70			
20	256QAM	50	0	16.65	16.82	16.67			
20	256QAM	50	24	16.72	16.69	16.66			
20	256QAM	50	50	16.78	16.82	16.75			
20	256QAM	100	0	16.74	16.89	16.77			
Channel									
1807.5 1800 1915.5									
15	QPSK	1	0	16.78	16.77	16.68			
15	QPSK	1	37	16.75	16.78	16.83	18.2	0	
15	QPSK	1	74	16.72	16.68	16.54			
15	QPSK	36	0	16.70	16.67	16.57			
15	QPSK	36	36	16.68	16.66	16.64	18.2	0	
15	QPSK	75	0	16.66	16.79	16.66			
15	16QAM	1	16	16.56	16.48	16.38	18.2	0	
15	16QAM	1	37	16.49	16.56	16.52			
15	16QAM	1	74	16.45	16.50	16.53			
15	16QAM	36	0	16.68	16.51	16.59			
15	16QAM	36	20	16.51	16.62	16.73	18.2	0	
15	16QAM	36	36	16.52	16.63	16.74			
15	16QAM	75	0	16.61	16.73	16.83			
15	64QAM	1	0	16.53	16.58	16.74	18.2	0	
15	64QAM	1	37	16.73	16.68	16.68			
15	64QAM	1	74	16.58	16.70	16.55			
15	64QAM	36	0	16.64	16.51	16.63			
15	64QAM	36	20	16.55	16.58	16.55	18.2	0	
15	64QAM	36	36	16.52	16.68	16.55			
15	64QAM	75	0	16.62	16.63	16.63			
15	256QAM	1	37	16.54	16.51	16.46	18.2	0	
15	256QAM	1	74	16.67	16.66	16.57			
15	256QAM	36	0	16.63	16.62	16.62			
15	256QAM	36	20	16.55	16.57	16.54	18.2	0	
15	256QAM	36	36	16.52	16.68	16.55			
15	256QAM	75	0	16.64	16.66	16.56			
15	256QAM	75	0	16.64	16.57	16.63			
Channel									
1805 1800 1905									
10	QPSK	1	0	16.67	16.69	16.69			
10	QPSK	1	25	16.59	16.62	16.54	18.2	0	
10	QPSK	1	49	16.58	16.66	16.41			
10	QPSK	75	0	16.67	16.68	16.78			
10	QPSK	25	12	16.45	16.65	16.73	18.2	0	
10	QPSK	25	25	16.50	16.70	16.61			
10	QPSK	25	37	16.52	16.68	16.65			
10	QPSK	50	0	16.66	16.63	16.75			
10	16QAM	1	26	16.51	16.55	16.56	18.2	0	
10	16QAM	1	49	16.61	16.59	16.62			
10	16QAM	25	12	16.55	16.50	16.68	18.2	0	
10	16QAM	25	25	16.44	16.61	16.62			
10	16QAM	50	0	16.60	16.71	16.63			
10	64QAM	1	0	16.66	16.64	16.77	18.2	0	
10	64QAM	1	49	16.60	16.76	16.63			
10	64QAM	25	0	16.59	16.59	16.58			
10	64QAM	25	12	16.47	16.60	16.63	18.2	0	
10	64QAM	25	25	16.54	16.79	16.70			
10	256QAM	1	0	16.58	16.57	16.57	18.2	0	
10	256QAM	1	25	16.68	16.65	16.43			
10	256QAM	1	49	16.56	16.63	16.67			
10	256QAM	1	74	16.57	16.67	16.61			
10	256QAM	25	12	16.83	16.62	16.58	18.2	0	
10	256QAM	25	25	16.61	16.61	16.59			
10	256QAM	50	0	16.76	16.59	16.53			
Channel									
1802.5 1800 1913									
5	QPSK	1	0	16.68	16.83	16.70			
5	QPSK	1	12	16.78	16.71	16.51	18.2	0	
5	QPSK	1	24	16.70	16.60	16.48			
5	QPSK	12	0	16.75	16.69	16.65			
5	QPSK	12	7	16.58	16.59	16.59	18.2	0	
5	QPSK	12	13	16.68	16.77	16.44			
5	QPSK	25	0	16.66	16.54	16.55			
5	16QAM	1	0	16.68	16.49	16.67	18.2	0	
5	16QAM	1	12	16.61	16.65	16.62			
5	16QAM	1	24	16.64	16.67	16.72			
5	16QAM	12	0	16.64	16.61	16.74	18.2	0	
5	16QAM	12	7	16.57	16.62	16.74			
5	16QAM	12	13	16.44	16.43	16.48			
5	16QAM	25	0	16.61	16.63	16.67			
5	64QAM	1	0	16.56	16.63	16.66	18.2	0	
5	64QAM	1	12	16.70	16.61	16.69			
5	64QAM	1	24	16.68	16.70	16.58			
5	64QAM	12	7	16.66	16.69	16.68	18.2	0	
5	64QAM	12	13	16.56	16.59	16.58			
5	64QAM	25	0	16.60	16.78	16.65			
5	256QAM	1	0	16.45	16.64	16.67	18.2	0	
5	256QAM	1	12	16.62	16.63	16.46			
5	256QAM	1	24	16.59	16.67	16.67			
5	256QAM	12	0	16.54	16.64	16.69	18.2	0	
5	256QAM	12	7	16.62	16.50	16.48			
5	256QAM	12	13	16.72	16.73	16.56			
5	256QAM	25	0	16.71	16.55	16.58			
Channel									
1801.5 1800 1916.5									
3	QPSK	1	0	16.71	16.74	16.73			
3	QPSK	1	8	16.78	16.66	16.62	18.2	0	
3	QPSK	1	14	16.59	16.68	16.55			
3	QPSK	7	0	16.70	16.74	16.74			
3	QPSK	8	4	16.46	16.62	16.69	18.2	0	
3	QPSK	8	7	16.56	16.73	16.46			
3	QPSK	15	0	16.70	16.58	16.61			
3	16QAM	1	0	16.61	16.54	16.67	18.2	0	
3	16QAM	1	8	16.67	16.48	16.41			
3	16QAM	1	14	16.66	16.63	16.64			
3	16QAM	8	0	16.72	16.51	16.58			
3	16QAM	8	4	16.63	16.55	16.60	18.2	0	
3	16QAM	8	7	16.63	16.49	16.78			
3	16QAM	15	0	16.74	16.62	16.70			
3	64QAM	1	0	16.66	16.60	16.77	18.2	0	
3	64QAM	1	8	16.69	16.78	16.74			
3	64QAM	1	14	16.64	16.67	16.70			
3	64QAM	8	0	16.65	16.70	16.64			
3	64QAM	8	4	16.62	16.50	16.56	18.2	0	
3	64QAM	15	0	16.68	16.78	16.67			
3	256QAM	1	0	16.51	16.63	16.59			
3	256QAM	1	8	16.56	16.61	16.57	18.2	0	
3	256QAM	1	14	16.57	16.69	16.64			
3	256QAM	8	0	16.58	16.60	16.53			
3	256QAM	8	4	16.57	16.57	16.59	18.2	0	
3	256QAM	8	7	16.59	16.58	16.58			
3	256QAM	15	0	16.77	16.60	16.50			
Channel									
1800.7 1800 1918.3									
1.4	QPSK	1	0	16.82	16.68	16.61	18.2	0	
1.4	QPSK	1	3	16.67	16.71	16.44			
1.4	QPSK	1	5	16.62	16.91	16.45			
1.4	QPSK	3	0	16.68	16.73	16.62	18.2	0	
1.4	QPSK	3	1	16.46	16.54	16.70			
1.4	QPSK	3	3	16.50	16.78	16.50			
1.4	QPSK	6	0	16.78	16.63	16.58	18.2	0	
1.4	QPSK	6	1	16.60	16.68	16.54			
1.4	QPSK	6	3	16.65	16.68	16.68			
1.4	QPSK	1	0	16.70	16.67	16.71	18.2	0	
1.4	QPSK	1	3	16.62	16.70	16.62			
1.4	QPSK	1	5	16.60	16.62	16.62			
1.4	QPSK	3	0	16.64	16.60	16.60	18.2	0	
1.4	QPSK	3	1	16.60	16.54	16.75			
1.4	QPSK	3	3	16.67	16.73	16.62			
1.4	QPSK	6	0	16.84	16.58	16.64			
1.4	QPSK	6	1	16.70	16.71	16.57	18.2	0	
1.4	QPSK	6	3	16.72	16.68	16.62			
1.4	QPSK	1	0	16.82	16.58	16.64			
1.4	QPSK	1	3	16.67	16.71	16.57			
1.4	QPSK	1	5	16.67	16.67	16.67			
1.4	QPSK	3	0	16.68	16.64	16.70	18.2	0	
1.4	QPSK	3	1	16.64	16.58	1			



Band 12 Ant0 DSI10														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)						
Channel														
23055 23060 23165														
704 707.5 711														
10	QPSK	1	0	22.35	22.37	22.18	23.6	0						
10	QPSK	1	25	22.17	22.21	22.13								
10	QPSK	1	49	22.06	22.33	22.14								
10	QPSK	25	0	22.06	22.36	22.11								
10	QPSK	25	12	22.16	22.18	22.13	23.6	0						
10	QPSK	25	25	22.11	22.03	22.18								
10	QPSK	50	0	22.02	22.17	22.06								
10	16QAM	50	0	22.07	22.12	22.05								
10	16QAM	1	25	22.05	22.22	22.04	23.6	0						
10	16QAM	1	49	22.15	22.07	22.05								
10	16QAM	25	0	21.42	21.32	21.42								
10	16QAM	25	12	21.45	21.33	21.39								
10	16QAM	25	25	21.27	21.57	21.18	22.6	1						
10	16QAM	50	0	21.43	21.58	21.28								
10	16QAM	1	0	21.45	21.18	21.34								
10	16QAM	1	25	21.46	21.17	21.12								
10	16QAM	1	49	21.09	21.42	21.39	21.6	2						
10	16QAM	25	0	20.34	20.29	20.25								
10	16QAM	25	12	20.20	20.46	20.23								
10	16QAM	50	0	20.28	20.39	20.20								
10	256QAM	1	25	18.21	18.11	18.15	19.6	4						
10	256QAM	1	49	18.32	18.10	18.32								
10	256QAM	25	12	18.25	18.20	18.20								
10	256QAM	25	12	18.44	18.18	18.20								
10	256QAM	25	25	18.33	18.20	18.42	19.6	4						
10	256QAM	50	0	18.30	18.20	18.25								
Channel														
23055 23060 23165														
701.5 707.5 713.5														
5	QPSK	1	0	22.18	22.25	22.17	23.6	0						
5	QPSK	1	12	22.18	22.24	22.28								
5	QPSK	1	24	22.06	22.28	22.23								
5	QPSK	12	0	22.02	22.29	22.19								
5	QPSK	12	7	22.21	22.24	22.28	23.6	0						
5	QPSK	12	13	22.13	22.29	22.28								
5	QPSK	25	0	22.03	22.12	22.21								
5	16QAM	1	0	22.06	22.18	22.02								
5	16QAM	1	12	22.00	22.21	22.38	23.6	0						
5	16QAM	1	24	21.99	21.36	21.40								
5	16QAM	12	0	21.44	21.41	21.27								
5	16QAM	12	7	21.31	21.41	21.27								
5	16QAM	25	0	21.54	21.54	21.33	22.6	1						
5	16QAM	1	0	21.42	21.27	21.43								
5	16QAM	1	24	21.26	21.26	21.26								
5	16QAM	1	24	21.11	21.33	21.43								
5	16QAM	12	0	20.46	20.39	20.45	21.6	2						
5	16QAM	12	7	20.35	20.39	20.35								
5	16QAM	12	13	20.19	20.25	20.13								
5	16QAM	25	0	20.40	20.28	20.22								
5	256QAM	1	0	18.36	18.26	18.35	19.6	4						
5	256QAM	1	12	18.14	18.23	18.15								
5	256QAM	1	24	18.55	18.16	18.38								
5	256QAM	12	0	18.35	18.25	18.35								
5	256QAM	12	7	18.34	18.18	18.29	19.6	4						
5	256QAM	12	13	18.24	18.30	18.43								
5	256QAM	15	0	18.15	18.34	18.38								
Channel														
23055 23060 23165														
700.5 707.5 714.5														
3	QPSK	1	0	22.17	22.29	22.22	23.6	0						
3	QPSK	1	8	22.18	22.33	22.17								
3	QPSK	1	14	22.09	22.30	22.18								
3	QPSK	1	20	22.00	22.10	22.23								
3	QPSK	8	4	22.17	22.18	22.13	23.6	0						
3	QPSK	8	7	22.06	22.07	22.01								
3	QPSK	8	14	22.19	22.22	22.13								
3	16QAM	1	0	22.01	22.10	22.06								
3	16QAM	1	8	22.01	22.09	22.33	23.6	0						
3	16QAM	1	14	22.06	22.08	22.05								
3	16QAM	8	0	21.49	21.41	21.39								
3	16QAM	8	4	21.38	21.51	21.16								
3	16QAM	15	0	21.18	21.51	21.33	22.6	1						
3	16QAM	1	0	21.38	21.32	21.49								
3	16QAM	1	8	21.48	21.32	21.15								
3	16QAM	1	14	21.21	21.33	21.37								
3	16QAM	8	0	20.53	20.37	20.49	21.6	2						
3	16QAM	8	4	20.15	20.31	20.25								
3	16QAM	8	7	20.23	20.18	20.22								
3	16QAM	15	0	20.37	20.24	20.35								
3	256QAM	1	0	18.32	18.43	18.15	19.6	4						
3	256QAM	1	8	18.23	18.28	18.17								
3	256QAM	1	14	18.51	18.10	18.43								
3	256QAM	8	0	18.50	18.34	18.15								
3	256QAM	8	4	18.34	18.17	18.34	19.6	4						
3	256QAM	8	7	18.28	18.10	18.52								
3	256QAM	15	0	18.11	18.32	18.43								
Channel														
23055 23060 23165														
699.7 707.5 713.3														
1.4	QPSK	1	0	22.32	22.47	22.29	23.6	0						
1.4	QPSK	1	3	22.32	22.25	22.45								
1.4	QPSK	1	5	22.44	22.31	22.22								
1.4	QPSK	3	0	22.33	22.32	22.07								
1.4	QPSK	3	1	22.24	22.33	22.19	23.6	0						
1.4	QPSK	3	3	22.31	22.13	22.25								
1.4	QPSK	3	5	22.30	22.32	22.15								
1.4	16QAM	1	0	22.23	22.18	22.18								
1.4	16QAM	1	3	22.17	22.10	22.23	23.6	0						
1.4	16QAM	1	5	22.33	22.19	22.15								
1.4	16QAM	3	0	22.17	22.33	22.29								
1.4	16QAM	3	1	22.11	22.38	22.27								
1.4	16QAM	3	3	22.46	22.14	22.23	22.6	1						
1.4	16QAM	8	0	21.83	21.50	21.26								
1.4	16QAM	1	0	21.50	21.39	21.59								
1.4	16QAM	1	3	21.42	21.11	21.53								
1.4	16QAM	1	5	21.09	21.42	21.27	22.6	1						
1.4	16QAM	3	0	21.38	21.48	21.45								
1.4	16QAM	3	1	21.25	21.20	21.58								
1.4	16QAM	3	3	21.30	21.32	21.18								
1.4	256QAM	1	0	20.29	20.48	20.27	21.6	2						
1.4	256QAM	1	0	18.62	18.43	18.53								
1.4	256QAM	1	3											

Band 26 Ant0 DSI10														
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Mid Ch./ Freq.	Power High Ch./ Freq.	Turn-up Int. (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.28	22.30	22.16	23.7	0						
15	QPSK	1	37	22.28	22.24	22.14								
15	QPSK	1	74	22.11	22.14	22.13								
15	QPSK	36	0	22.12	22.30	22.16								
15	QPSK	36	20	22.18	22.17	22.21	23.7	0						
15	QPSK	36	36	22.25	22.19	22.26								
15	HQAM	1	0	22.16	22.27	22.24								
15	HQAM	1	37	22.21	22.16	22.19								
15	HQAM	1	74	22.24	22.23	22.34	23.7	0						
15	HQAM	36	0	22.17	22.11	22.16								
15	HQAM	36	20	22.33	22.32	22.26								
15	HQAM	36	36	22.31	22.15	22.13								
15	HQAM	75	0	22.23	22.25	22.26	22.7	1						
15	HQAM	1	0	22.25	22.22	22.27								
15	HQAM	1	74	22.26	22.23	22.19								
15	HQAM	1	37	22.20	22.23	22.19								
15	HQAM	36	0	20.48	20.51	20.52	21.7	2						
15	HQAM	36	20	20.57	20.21	20.50								
15	HQAM	36	36	20.27	20.14	20.20								
15	HQAM	75	0	20.51	20.47	20.41								
15	HQAM	1	0	18.29	18.17	18.24	19.7	4						
15	HQAM	1	37	18.12	18.24	18.13								
15	HQAM	1	74	18.24	18.06	18.30								
15	HQAM	36	0	18.29	18.40	18.10								
15	HQAM	36	20	18.33	18.17	18.18								
15	HQAM	36	36	18.24	18.05	18.40								
15	HQAM	75	0	18.03	18.33	18.12								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.27	22.23	22.19	23.7	0						
10	QPSK	1	25	22.30	22.28	22.19								
10	QPSK	1	49	22.21	22.29	22.12								
10	QPSK	25	0	22.33	22.34	22.17								
10	QPSK	25	12	22.19	22.20	22.26	23.7	0						
10	QPSK	25	25	22.21	22.23	22.20								
10	QPSK	50	0	22.16	22.13	22.13								
10	HQAM	1	0	22.19	22.27	22.12								
10	HQAM	1	25	22.34	22.11	22.29	23.7	0						
10	HQAM	1	49	22.29	22.17	22.24								
10	HQAM	25	0	22.27	22.14	22.24								
10	HQAM	25	12	22.14	22.24	22.35								
10	HQAM	50	0	22.27	22.33	22.50	22.7	1						
10	HQAM	1	0	22.17	22.26	22.28								
10	HQAM	1	25	22.25	22.34	22.11								
10	HQAM	1	49	22.29	22.25	22.25								
10	HQAM	25	0	20.54	20.20	20.53	21.7	2						
10	HQAM	25	12	20.11	20.21	20.20								
10	HQAM	25	25	20.20	20.24	20.11								
10	HQAM	50	0	20.18	20.45	20.41								
10	HQAM	50	0	18.30	18.07	18.15	19.7	4						
10	HQAM	1	25	18.09	18.04	18.05								
10	HQAM	1	49	18.39	18.16	18.16								
10	HQAM	25	0	18.31	18.07	18.05								
10	HQAM	25	12	18.27	18.05	18.02	19.7	4						
10	HQAM	25	25	18.39	18.24	18.20								
10	HQAM	50	0	18.03	18.24	18.13								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.12	22.20	22.21	23.7	0						
5	QPSK	1	12	22.12	22.20	22.20								
5	QPSK	1	24	22.28	22.19	22.20								
5	QPSK	12	0	22.25	22.36	22.26								
5	QPSK	12	7	22.16	22.12	22.30	23.7	0						
5	QPSK	12	13	22.31	22.26	22.31								
5	HQAM	1	0	22.16	22.28	22.22								
5	HQAM	1	0	22.25	22.20	22.24								
5	HQAM	1	12	22.32	22.11	22.22	23.7	0						
5	HQAM	1	24	22.30	22.14	22.26								
5	HQAM	12	0	22.13	22.17	22.21								
5	HQAM	12	7	22.34	22.21	22.17								
5	HQAM	12	13	22.30	22.18	22.26	22.7	1						
5	HQAM	25	0	22.14	22.12	22.19								
5	HQAM	1	0	22.17	22.13	22.25								
5	HQAM	1	12	22.16	22.28	22.30								
5	HQAM	1	24	22.15	22.34	22.25	21.7	2						
5	HQAM	12	0	20.26	20.17	20.28								
5	HQAM	12	7	20.31	20.41	20.31								
5	HQAM	12	13	20.26	20.24	20.15								
5	HQAM	25	0	20.16	20.37	20.30	19.7	4						
5	HQAM	25	0	18.23	18.08	18.01								
5	HQAM	1	12	18.07	18.06	18.17								
5	HQAM	1	24	18.26	18.07	18.16								
5	HQAM	12	0	18.36	18.38	18.13	19.7	4						
5	HQAM	12	7	18.27	18.14	18.13								
5	HQAM	12	13	18.16	18.07	18.32								
5	HQAM	25	0	18.10	18.17	18.13								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.17	22.30	22.25	23.7	0						
3	QPSK	1	8	22.25	22.22	22.26								
3	QPSK	1	14	22.35	22.18	22.26								
3	QPSK	8	0	22.12	22.36	22.26								
3	QPSK	8	4	22.14	22.15	22.26	23.7	0						
3	QPSK	8	7	22.20	22.14	22.16								
3	HQAM	1	0	22.18	22.13	22.21								
3	HQAM	1	0	22.20	22.28	22.27								
3	HQAM	1	8	22.16	22.18	22.11	23.7	0						
3	HQAM	1	14	22.22	22.29	22.12								
3	HQAM	8	0	22.18	22.17	22.30								
3	HQAM	8	4	22.32	22.28	22.13								
3	HQAM	8	7	22.15	22.29	22.28	22.7	1						
3	HQAM	15	0	22.12	22.30	22.24								
3	HQAM	1	0	22.12	22.32	22.23								
3	HQAM	1	8	22.28	22.31	22.22								
3	HQAM	1	14	22.32	22.11	22.29	21.7	2						
3	HQAM	8	0	20.18	20.12	20.36								
3	HQAM	8	4	20.16	20.02	20.16								
3	HQAM	8	7	20.21	20.10	20.24								
3	HQAM	15	0	20.10	20.30	20.24	19.7	4						
3	HQAM	1	0	18.44	18.02	18.15								
3	HQAM	1	8	18.18	18.05	18.17								
3	HQAM	1	14	18.21	18.06	18.26								
3	HQAM	8	0	18.10	18.10	18.16	19.7	4						
3	HQAM	8	4	18.39	18.01	18.03								
3	HQAM	8	7	18.21	18.03	18.14	19.7	4						
3	HQAM	15	0	18.04	18.37	18.18								
3	HQAM	1	0	18.07	18.07	18.18								
3	HQAM	1	8	18.27	18.07	18.18								
3	HQAM	8	0	18.07	18.07	18.18	19.7	4						
3	HQAM	8	4	18.10	18.10	18.16								
3	HQAM	8	7	18.21	18.03	18.14								
3	HQAM	15	0	18.04	18.37	18.18								
3	HQAM	1	0	18.07	18.07	18.18								
3	HQAM	1	8	18.27	18.07	18.18								
3	HQAM	8	0	18.07	18.07	18.18								
3	HQAM	8	4	18.10	18.10	18.16	22.7	1						
3	HQAM	8	7	18.21	18.03	18.14								
3	HQAM	15	0	18.04	18.37	18.18								
3	HQAM	1	0	18.07	18.07	18.18								
3	HQAM	1	8	18.27	18.07	18.18	21.7	2						
3	HQAM	1	14	18.21	18.01	18.23								
3	HQAM	8	0	21.43	21.07	21.06								
3	HQAM	8	4	21.07	21.15	21.03								
3	HQAM	8	7	21.03	21.11	21.23	22.7	1						
3	HQAM	15	0	21.30	21.31	21.31								
3	HQAM	1	0	21.06	21.11	21.23								
3	HQAM	1	8	21.43	21.07	21.06								
3	HQAM	8	4	21.07	21.15	21.03	21.7	2						
3	HQAM	8	7	21.03	21.11	21.23								
3	HQAM	15	0	21.30	21.31	21.31								
3	HQAM	1	0	20.31	20.25	20.31								
3	HQAM	1	8	20.31	20.25	20.31	21.7	2						
3	HQAM	1	14	20.31	20.25	20.31								
3	HQAM	8	0	18.03	18.17	18.17								
3	HQAM	1	0	18.01	18.27	18.17								
3	HQAM	1	8	18.25	18.16	18.00	19.7	4						
3	HQAM	1	14	18.25	18.31	18.17								
3	HQAM	8	0	18.10	18.31	18.17								
3	HQAM	8	4	18.08	18.22	18.13								
3	HQAM	3	0	18.02	18.13	18.27	19.7	4						
3	HQAM	3	4	18.02	18.13	18.27								
3	HQAM	3	8	18.02	18.13	18.27								
3	HQAM	3	12	18.02	18.13	18.27								



Band 38 Ant0 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	15.15	15.32	15.14	15.31	16.4	0
20	QPSK	1	49	14.98	15.21	14.96	15.07		
20	QPSK	50	0	15.15	15.32	15.05	15.22		
20	QPSK	50	24	14.98	15.11	14.97	15.07		
20	HQAM	50	0	15.15	15.32	15.05	15.22	16.4	0
20	HQAM	100	0	14.98	15.18	14.97	15.07		
20	HQAM	1	0	15.14	15.03	15.07	14.97		
20	HQAM	1	49	15.11	15.08	14.95	14.97		
20	HQAM	1	99	15.08	15.12	15.07	15.07	16.4	0
20	HQAM	50	0	14.97	15.11	14.97	15.07		
20	HQAM	50	24	14.97	15.14	14.97	15.07		
20	HQAM	50	50	15.15	15.02	14.97	15.07		
20	HQAM	100	0	15.08	15.20	14.97	15.07	16.4	0
20	HQAM	100	0	15.08	15.20	14.97	15.07		
20	HQAM	100	0	15.08	15.20	14.97	15.07		
20	HQAM	100	0	15.08	15.20	14.97	15.07		
20	HQAM	1	0	15.01	15.04	14.97	14.97	16.4	0
20	HQAM	1	49	15.13	15.05	15.13	15.07		
20	HQAM	50	0	15.08	15.08	15.07	15.07		
20	HQAM	50	24	15.12	15.10	14.97	15.07		
20	HQAM	50	50	14.94	15.07	15.12	15.07	16.4	0
20	HQAM	100	0	14.98	15.06	14.95	14.97		
20	HQAM	100	0	15.01	15.04	14.97	14.97		
20	HQAM	100	0	15.01	15.04	14.97	14.97		
20	HQAM	1	0	15.01	15.04	14.97	14.97	16.4	0
20	HQAM	1	49	15.02	15.09	14.95	14.97		
20	HQAM	50	0	15.08	15.08	15.07	15.07		
20	HQAM	50	24	15.12	15.10	14.97	15.07		
20	HQAM	50	50	14.94	15.07	15.12	15.07	16.4	0
20	HQAM	100	0	14.98	15.06	14.95	14.97		
20	HQAM	100	0	15.01	15.04	14.97	14.97		
20	HQAM	100	0	15.01	15.04	14.97	14.97		
20	HQAM	100	0	15.01	15.04	14.97	14.97		
20	HQAM	100	0	15.01	15.04	14.97	14.97		
Channel									
Frequency (MHz)									
15	QPSK	1	0	14.36	15.15	15.14	15.14	16.4	0
15	QPSK	1	37	14.86	15.11	14.79	15.04		
15	QPSK	1	74	15.10	14.87	14.98	15.07		
15	QPSK	36	0	15.08	15.20	14.95	15.05		
15	QPSK	36	20	14.78	15.08	15.05	15.04	16.4	0
15	QPSK	36	20	14.78	15.08	15.05	15.04		
15	QPSK	75	0	14.88	15.05	14.83	14.93		
15	HQAM	1	0	15.09	14.91	15.08	14.91	16.4	0
15	HQAM	1	37	14.94	15.05	14.95	15.05		
15	HQAM	1	74	15.09	14.97	14.97	15.07		
15	HQAM	36	0	14.83	15.03	15.07	15.07		
15	HQAM	36	20	14.83	15.03	15.07	15.07	16.4	0
15	HQAM	36	20	14.83	15.03	15.07	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07	16.4	0
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07	16.4	0
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07		
15	HQAM	75	0	15.09	14.97	14.97	15.07		
Channel									
Frequency (MHz)									
10	QPSK	1	0	25.75	25.95	25.75	25.95	16.4	0
10	QPSK	1	25	24.94	25.77	24.93	25.76		
10	QPSK	1	49	15.12	14.82	15.04	14.82		
10	QPSK	1	49	15.12	14.82	15.04	14.82		
10	QPSK	25	0	14.94	14.98	14.98	14.98	16.4	0
10	QPSK	25	12	14.94	14.98	14.98	14.98		
10	QPSK	25	25	14.77	15.11	14.85	15.07		
10	QPSK	25	25	14.77	15.11	14.85	15.07		
10	HQAM	1	0	15.05	14.92	15.04	14.92	16.4	0
10	HQAM	1	0	15.05	14.92	15.04	14.92		
10	HQAM	1	25	14.99	15.07	14.95	15.07		
10	HQAM	1	49	14.99	15.07	15.01	15.07		
10	HQAM	25	0	14.81	15.05	14.97	15.04	16.4	0
10	HQAM	25	0	14.81	15.05	14.97	15.04		
10	HQAM	25	12	14.81	15.05	14.97	15.04		
10	HQAM	25	12	14.81	15.05	14.97	15.04		
10	HQAM	25	25	14.98	14.86	14.94	14.94	16.4	0
10	HQAM	25	25	14.98	14.86	14.94	14.94		
10	HQAM	25	25	14.98	14.86	14.94	14.94		
10	HQAM	25	25	14.98	14.86	14.94	14.94		
10	HQAM	25	25	14.98	14.86	14.94	14.94	16.4	0
10	HQAM	25	25	14.98	14.86	14.94	14.94		
10	HQAM	25	25	14.98	14.86	14.94	14.94		
10	HQAM	25	25	14.98	14.86	14.94	14.94		
10	HQAM	25	25	14.98	14.86	14.94	14.94		
10	HQAM	25	25	14.98	14.86	14.94	14.94		
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.15	15.10	15.05	15.05	16.4	0
5	QPSK	1	12	14.77	15.02	14.87	14.97		
5	QPSK	1	24	15.04	14.93	14.92	14.92		
5	QPSK	12	0	15.08	15.15	14.77	14.77		
5	QPSK	12	7	14.83	14.93	14.94	14.94	16.4	0
5	QPSK	12	13	14.81	15.05	14.93	14.93		
5	QPSK	25	0	14.94	15.08	14.78	14.78		
5	HQAM	1	0	15.10	14.94	14.94	14.94		
5	HQAM	1	12	15.05	14.88	14.74	14.74	16.4	0
5	HQAM	1	24	15.05	15.11	14.93	14.93		
5	HQAM	12	0	14.87	15.09	14.91	14.91		
5	HQAM	12	7	14.97	15.05	14.92	14.92		
5	HQAM	12	13	15.04	15.02	14.97	14.97	16.4	0
5	HQAM	12	13	15.04	15.02	14.97	14.97		
5	HQAM	12	13	15.04	15.02	14.97	14.97		
5	HQAM	12	13	15.04	15.02	14.97	14.97		
5	HQAM	25	0	15.02	15.01	14.92	14.92	16.4	0
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92	16.4	0
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.15	15.10	15.05	15.05	16.4	0
5	QPSK	1	12	14.77	15.02	14.87	14.97		
5	QPSK	1	24	15.04	14.93	14.92	14.92		
5	QPSK	12	0	15.08	15.15	14.77	14.77		
5	QPSK	12	7	14.83	14.93	14.94	14.94	16.4	0
5	QPSK	12	13	14.81	15.05	14.93	14.93		
5	QPSK	25	0	14.94	15.08	14.78	14.78		
5	HQAM	1	0	15.10	14.94	14.94	14.94		
5	HQAM	1	12	15.05	14.88	14.74	14.74	16.4	0
5	HQAM	1	24	15.05	15.11	14.93	14.93		
5	HQAM	12	0	14.87	15.09	14.91	14.91		
5	HQAM	12	7	14.97	15.05	14.92	14.92		
5	HQAM	12	13	15.04	15.02	14.97	14.97	16.4	0
5	HQAM	12	13	15.04	15.02	14.97	14.97		
5	HQAM	12	13	15.04	15.02	14.97	14.97		
5	HQAM	12	13	15.04	15.02	14.97	14.97		
5	HQAM	25	0	15.02	15.01	14.92	14.92	16.4	0
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92	16.4	0
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		
5	HQAM	25	0	15.02	15.01	14.92	14.92		

GSM850 Airt DB10									
GSM850	Best Average Power (dBm)			Tune-up			Frame Average Power (dBm)		
Tx Channel	198	198	199.1	198	198	199.1	198	198	199.1
Frequency (MHz)	824.2	832.4	848.8	824.2	832.4	848.8	824.2	832.4	848.8
GSM 1 Tx Wd	20.38	20.38	20.38	20.38	20.38	20.38	20.38	20.38	21.20
GPMS 1 Tx Wd	20.38	20.49	20.30	20.30	20.40	20.30	20.40	20.30	21.20
GPMS 2 Tx Wd	20.58	20.68	20.57	21.20	20.58	20.68	20.57	21.20	21.20
GPMS 3 Tx Wd	20.70	20.72	20.69	20.70	20.44	20.46	20.43	21.44	
GPMS 4 Tx Wd	22.87	22.77	22.64	23.70	19.67	19.77	19.64	20.70	
EDGE 1 Tx Wd	22.17	22.24	22.10	22.00	18.57	18.34	18.50	17.00	
EDGE 2 Tx Wd	23.08	23.08	23.02	24.00	17.80	17.88	17.82	18.80	
EDGE 3 Tx Wd	22.40	22.47	22.37	21.00	18.14	18.31	18.11	18.04	
EDGE 4 Tx Wd	20.70	20.74	20.74	21.00	17.70	17.74	17.70	18.00	

GSM1900 Airt DB10									
GSM1900	Best Average Power (dBm)			Tune-up			Frame Average Power (dBm)		
Tx Channel	1852.2	1860	1869.8	1852.2	1860	1869.8	1852.2	1860	1869.8
Frequency (MHz)	1852.2	1860	1869.8	1852.2	1860	1869.8	1852.2	1860	1869.8
GSM 1 Tx Wd	18.30	18.43	18.34	21.00	18.30	18.43	18.34	12.00	
GPMS 1 Tx Wd	18.42	18.48	18.40	21.00	18.42	18.48	18.40	12.00	
GPMS 2 Tx Wd	18.77	18.88	18.78	18.00	18.77	18.88	18.78	12.00	
GPMS 3 Tx Wd	18.88	18.90	18.83	18.00	18.74	18.80	18.82	12.04	
GPMS 4 Tx Wd	13.86	13.92	13.80	14.00	10.80	10.92	10.80	11.92	
EDGE 1 Tx Wd	18.40	18.42	18.38	20.00	18.40	18.42	18.38	14.00	
EDGE 2 Tx Wd	18.04	18.17	18.09	17.00	16.94	16.77	16.90	17.00	
EDGE 3 Tx Wd	14.40	14.60	14.50	15.00	10.23	10.34	10.24	11.24	
EDGE 4 Tx Wd	13.71	13.75	13.62	14.00	10.71	10.75	10.62	11.50	

WCDMA II Airt DB10											
WCDMA II				WCDMA IV				WCDMA V			
Best	9682	9690	9698	9682	9690	9698	9682	9690	9698	9682	9690
Tx Channel	9682	9690	9698	9682	9690	9698	9682	9690	9698	9682	9690
Frequency (MHz)	9682.4	9690	9697.8	9782.4	9790.8	9797.8	9782.4	9790.8	9797.8	9782.4	9790.8
JGPP Ref #1	AMR 12.2kps	10.05	10.70	10.78	11.70	12.05	12.05	12.04	14.00	19.55	19.68
JGPP Ref #2	AMR 12.2kps	10.73	10.80	10.76	11.70	12.05	12.05	12.05	14.00	19.72	19.74
JGPP Ref #3	HS-PA Subcar-1	9.71	9.68	9.73	10.70	11.00	11.12	10.80	13.00	18.62	18.60
JGPP Ref #4	HS-PA Subcar-2	9.71	10.01	9.82	10.70	11.00	11.34	11.10	13.00	18.55	18.74
JGPP Ref #5	HS-PA Subcar-3	9.44	9.70	9.40	10.00	10.00	10.73	10.30	13.00	18.30	18.32
JGPP Ref #6	HS-PA Subcar-4	9.21	9.43	9.23	10.00	10.68	10.84	10.48	12.00	17.60	18.10
JGPP Ref #7	DC-HSPA Subcar-1	9.70	9.70	9.60	10.70	11.14	11.34	11.00	13.00	18.60	18.70
JGPP Ref #8	DC-HSPA Subcar-2	9.82	9.92	9.84	10.70	11.24	11.12	11.00	13.00	18.61	18.88
JGPP Ref #9	DC-HSPA Subcar-3	9.80	9.80	9.80	10.20	10.67	10.68	10.30	12.00	18.18	18.22
JGPP Ref #10	DC-HSPA Subcar-4	9.38	9.30	9.32	10.20	10.67	10.40	10.40	12.00	18.15	18.18
JGPP Ref #11	HS-PA Subcar-1	9.64	9.73	9.70	10.70	11.00	11.10	11.22	13.00	18.71	18.82
JGPP Ref #12	HS-PA Subcar-2	7.04	7.60	7.70	9.70	9.17	9.09	9.07	11.00	16.72	16.71
JGPP Ref #13	HS-PA Subcar-3	8.80	8.87	8.80	9.70	10.18	10.13	9.83	12.00	17.64	17.62
JGPP Ref #14	HS-PA Subcar-4	7.17	7.20	7.00	9.70	9.80	9.77	9.73	11.00	16.70	16.64
JGPP Ref #15	HS-PA Subcar-5	9.70	9.72	9.77	10.70	10.60	10.81	10.80	13.00	18.34	18.77



Band 2 Ant1 DS110									
BW (MHz)	Modulation	RB Size	RB Offset	Power Max (Ch./Fires)	Power Min (Ch./Fires)	Power High (Ch./Fires)	Turn-up Rate (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	10.57	10.67	10.46			
20	QPSK	14	0	10.57	10.54	10.47			
20	QPSK	1	99	10.37	10.66	10.41	12.1	0	
20	QPSK	50	0	10.56	10.66	10.46			
20	QPSK	50	24	10.37	10.64	10.37	12.1	0	
20	QPSK	50	50	10.53	10.60	10.27			
20	QPSK	100	0	10.44	10.59	10.46			
20	QPSK	100	50	10.42	10.57	10.28			
20	HQAM	1	49	10.51	10.55	10.43	12.1	0	
20	HQAM	1	99	10.43	10.53	10.42			
20	HQAM	1	99	10.49	10.50	10.37			
20	HQAM	50	24	10.46	10.50	10.44	12.1	0	
20	HQAM	50	50	10.40	10.49	10.39			
20	HQAM	100	0	10.50	10.50	10.34			
20	HQAM	1	0	10.42	10.39	10.41	12.1	0	
20	HQAM	1	49	10.48	10.48	10.32			
20	HQAM	1	99	10.36	10.53	10.39			
20	HQAM	50	0	10.46	10.51	10.33			
20	HQAM	50	24	10.40	10.52	10.40	12.1	0	
20	HQAM	50	50	10.37	10.57	10.35			
20	HQAM	100	0	10.48	10.59	10.29			
20	HQAM	1	49	10.43	10.54	10.34			
20	HQAM	1	99	10.57	10.61	10.43			
20	HQAM	50	24	10.57	10.57	10.29			
20	HQAM	50	50	10.45	10.52	10.32			
20	HQAM	100	0	10.43	10.58	10.47			
20	HQAM	100	0	10.42	10.54	10.44			
Channel									
Frequency (MHz)									
15	QPSK	1	0	10.50	10.47	10.25			
15	QPSK	50	0	10.37	10.39	10.24	12.1	0	
15	QPSK	1	74	10.36	10.66	10.39			
15	QPSK	36	0	10.48	10.44	10.27			
15	QPSK	36	24	10.28	10.42	10.24	12.1	0	
15	QPSK	36	36	10.39	10.40	10.28			
15	QPSK	75	0	10.39	10.50	10.40			
15	HQAM	1	37	10.39	10.39	10.15	12.1	0	
15	HQAM	1	37	10.30	10.43	10.42			
15	HQAM	36	0	10.44	10.44	10.27			
15	HQAM	36	0	10.33	10.47	10.25			
15	HQAM	36	20	10.44	10.45	10.33			
15	HQAM	75	0	10.37	10.39	10.20			
15	HQAM	75	0	10.37	10.39	10.20			
15	HQAM	1	0	10.31	10.39	10.30	12.1	0	
15	HQAM	1	37	10.27	10.34	10.27			
15	HQAM	1	74	10.26	10.30	10.20			
15	HQAM	36	0	10.26	10.58	10.29			
15	HQAM	36	20	10.36	10.46	10.36	12.1	0	
15	HQAM	36	36	10.36	10.51	10.22			
15	HQAM	36	36	10.39	10.51	10.22			
15	HQAM	75	0	10.38	10.44	10.17			
15	HQAM	75	0	10.35	10.36	10.23			
15	HQAM	1	37	10.26	10.23	10.14	11.8	0	
15	HQAM	1	74	10.51	10.37	10.36			
15	HQAM	36	0	10.36	10.36	10.23			
15	HQAM	36	20	10.39	10.38	10.19	11.8	0	
15	HQAM	36	39	10.25	10.16	10.42			
15	HQAM	75	0	10.42	10.41	10.40			
Channel									
Frequency (MHz)									
10	QPSK	1	0	10.44	10.44	10.44			
10	QPSK	1	25	10.40	10.37	10.13	12.1	0	
10	QPSK	1	49	10.44	10.62	10.45			
10	QPSK	50	0	10.52	10.52	10.42			
10	QPSK	50	12	10.29	10.38	10.17	12.1	0	
10	QPSK	25	20	10.33	10.41	10.34			
10	QPSK	25	50	10.35	10.40	10.24			
10	HQAM	1	0	10.39	10.42	10.56			
10	HQAM	1	25	10.66	10.51	10.42	12.1	0	
10	HQAM	1	49	10.54	10.58	10.46			
10	HQAM	25	12	10.52	10.54	10.31	12.1	0	
10	HQAM	43	0	10.38	10.38	10.18			
10	HQAM	50	0	10.28	10.31	10.23			
10	HQAM	1	0	10.22	10.39	10.26			
10	HQAM	1	49	10.37	10.23	10.14	12.1	0	
10	HQAM	1	49	10.17	10.29	10.15			
10	HQAM	25	0	10.16	10.65	10.24			
10	HQAM	25	0	10.26	10.55	10.27			
10	HQAM	25	25	10.39	10.41	10.18	12.1	0	
10	HQAM	50	0	10.43	10.39	10.20			
10	HQAM	50	0	10.37	10.50	10.25			
10	HQAM	1	25	10.20	10.27	10.23	12.1	0	
10	HQAM	1	49	10.53	10.48	10.40			
10	HQAM	1	49	10.44	10.44	10.45			
10	HQAM	25	0	10.40	10.40	10.25			
10	HQAM	25	12	10.31	10.61	10.18			
10	HQAM	25	25	10.31	10.49	10.32			
10	HQAM	50	0	10.34	10.62	10.25			
Channel									
Frequency (MHz)									
5	QPSK	1	0	10.47	10.47	10.47			
5	QPSK	1	12	10.44	10.25	10.55	12.1	0	
5	QPSK	1	24	10.46	10.63	10.55			
5	QPSK	12	0	10.56	10.56	10.33			
5	QPSK	12	7	10.23	10.32	10.31			
5	QPSK	12	13	10.32	10.30	10.23			
5	QPSK	24	0	10.11	10.55	10.23			
5	HQAM	1	0	10.33	10.44	10.14	12.1	0	
5	HQAM	1	12	10.38	10.47	10.35			
5	HQAM	1	24	10.29	10.38	10.23			
5	HQAM	12	0	10.39	10.40	10.18			
5	HQAM	12	7	10.34	10.42	10.40	12.1	0	
5	HQAM	12	13	10.28	10.53	10.22			
5	HQAM	25	0	10.33	10.40	10.26			
5	HQAM	1	0	10.40	10.41	10.31	12.1	0	
5	HQAM	1	12	10.28	10.27	10.18			
5	HQAM	1	24	10.31	10.44	10.21			
5	HQAM	12	0	10.17	10.48	10.38			
5	HQAM	12	0	10.38	10.50	10.29	12.1	0	
5	HQAM	12	13	10.32	10.45	10.32			
5	HQAM	25	0	10.32	10.50	10.15			
5	HQAM	1	0	10.31	10.50	10.23			
5	HQAM	1	12	10.21	10.57	10.26	12.1	0	
5	HQAM	1	24	10.31	10.59	10.37			
5	HQAM	12	0	10.37	10.42	10.14			
5	HQAM	12	7	10.35	10.44	10.27			
5	HQAM	12	13	10.22	10.37	10.46			
5	HQAM	25	0	10.36	10.63	10.39			
Channel									
Frequency (MHz)									
3	QPSK	1	0	10.47	10.53	10.25			
3	QPSK	1	8	10.50	10.28	10.25	12.1	0	
3	QPSK	1	14	10.37	10.65	10.66			
3	QPSK	8	0	10.36	10.64	10.37			
3	QPSK	8	4	10.28	10.38	10.36	12.1	0	
3	QPSK	8	7	10.30	10.38	10.27			
3	QPSK	14	0	10.44	10.48	10.33			
3	HQAM	1	0	10.40	10.54	10.29	12.1	0	
3	HQAM	1	8	10.39	10.47	10.40			
3	HQAM	1	14	10.29	10.34	10.29			
3	HQAM	8	0	10.31	10.39	10.26	12.1	0	
3	HQAM	8	4	10.34	10.48	10.32			
3	HQAM	8	7	10.36	10.58	10.23			
3	HQAM	16	0	10.37	10.33	10.23			
3	HQAM	1	0	10.24	10.46	10.27	12.1	0	
3	HQAM	1	8	10.21	10.29	10.32			
3	HQAM	1	14	10.29	10.45	10.23			
3	HQAM	8	0	10.36	10.63	10.28			
3	HQAM	8	7	10.36	10.57	10.59	12.1	0	
3	HQAM	1	0	10.35	10.54	10.32			
3	HQAM	1	8	10.34	10.66	10.37	12.1	0	
3	HQAM	1	14	10.36	10.59	10.34			
3	HQAM	8	0	10.36	10.57	10.39			
3	HQAM	8	4	10.37	10.28	10.28			
3	HQAM	8	7	10.39	10.56	10.59	12.1	0	
3	HQAM	1	0	10.31	10.51	10.34			
3	HQAM	1	8	10.37	10.53	10.34	12.1	0	
3	HQAM	1	14	10.38	10.52	10.35			
3	HQAM	8	0	10.36	10.58	10.18	11.8	0	
3	HQAM	8	4	10.34	10.40	10.18			
3	HQAM	8	7	10.33	10.32	10.19			
3	HQAM	1	0	10.31	10.57	10.34			
3	HQAM	1	8	10.33	10.47	10.26	11.8	0	
3	HQAM	1	14	10.33	10.47	10.26			
3	HQAM	8	0	10.49	10.48	10.18			
3	HQAM	8	4	10.29	10.52	10.12			
3	HQAM	8	7	10.25	10.38	10.32	11.8	0	
3	HQAM	1	0	10.30	10.66	10.30	11.8	0	



Band 12 Ant1 DS110												
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPE (dB)				
Channel												
23055 23059 23155												
10	QPSK	1	0	17.53	17.61	17.65	18.9	0				
10	QPSK	1	25	17.41	17.49	17.53						
10	QPSK	1	49	17.42	17.53	17.63						
10	QPSK	25	0	17.37	17.59	17.37						
10	QPSK	25	12	17.35	17.46	17.51						
10	QPSK	25	25	17.48	17.56	17.67						
10	QPSK	50	0	17.44	17.55	17.62						
10	16QAM	1	0	17.53	17.62	17.65	18.9	0				
10	16QAM	1	25	17.47	17.43	17.37						
10	16QAM	1	49	17.33	17.43	17.47						
10	16QAM	25	0	17.34	17.59	17.63						
10	16QAM	25	12	17.49	17.54	17.64						
10	16QAM	25	25	17.36	17.59	17.45						
10	16QAM	50	0	17.45	17.44	17.63						
10	64QAM	1	0	17.52	17.59	17.61	18.9	0				
10	64QAM	1	25	17.54	17.49	17.45						
10	64QAM	1	49	17.48	17.57	17.48						
10	64QAM	25	0	17.51	17.57	17.55						
10	64QAM	25	12	17.57	17.49	17.55						
10	64QAM	25	25	17.51	17.41	17.54						
10	64QAM	50	0	17.53	17.60	17.49						
10	256QAM	1	0	17.36	17.59	17.41	18.9	0				
10	256QAM	1	25	17.45	17.52	17.56						
10	256QAM	1	49	17.38	17.55	17.46						
10	256QAM	25	0	17.46	17.64	17.44						
10	256QAM	25	12	17.33	17.45	17.39						
10	256QAM	25	25	17.34	17.44	17.36						
10	256QAM	50	0	17.45	17.43	17.63						
Channel												
7015 7019 7133												
5	QPSK	1	0	17.38	17.52	17.48	18.9	0				
5	QPSK	1	12	17.41	17.42	17.46						
5	QPSK	1	24	17.34	17.44	17.43						
5	QPSK	12	0	17.40	17.56	17.44						
5	QPSK	12	7	17.38	17.58	17.52						
5	QPSK	12	19	17.41	17.54	17.49						
5	QPSK	25	0	17.51	17.59	17.65						
5	16QAM	1	0	17.51	17.45	17.51	18.9	0				
5	16QAM	1	12	17.48	17.52	17.48						
5	16QAM	1	24	17.41	17.58	17.43						
5	16QAM	12	0	17.51	17.58	17.42						
5	16QAM	12	7	17.42	17.57	17.46						
5	16QAM	12	19	17.45	17.40	17.35						
5	16QAM	25	0	17.44	17.51	17.55						
5	64QAM	1	0	17.51	17.51	17.58	18.9	0				
5	64QAM	1	12	17.53	17.58	17.49						
5	64QAM	1	24	17.47	17.51	17.46						
5	64QAM	12	7	17.54	17.58	17.49						
5	64QAM	12	19	17.53	17.53	17.53						
5	64QAM	25	0	17.59	17.47	17.49						
5	256QAM	1	0	17.40	17.46	17.53						
5	256QAM	1	12	17.42	17.57	17.55	18.9	0				
5	256QAM	1	24	17.35	17.47	17.47						
5	256QAM	12	0	17.32	17.60	17.55						
5	256QAM	12	7	17.49	17.59	17.54						
5	256QAM	12	19	17.44	17.55	17.45						
5	256QAM	25	0	17.45	17.58	17.46						
5	256QAM	25	12	17.45	17.58	17.46						
Channel												
23055 23059 23155												
3	QPSK	1	0	17.35	17.47	17.49	18.9	0				
3	QPSK	1	8	17.50	17.48	17.52						
3	QPSK	1	16	17.46	17.51	17.47						
3	QPSK	8	0	17.52	17.59	17.53						
3	QPSK	8	4	17.43	17.45	17.51						
3	QPSK	8	12	17.46	17.56	17.47						
3	QPSK	16	0	17.36	17.55	17.44						
3	16QAM	1	0	17.51	17.45	17.51	18.9	0				
3	16QAM	1	8	17.43	17.43	17.47						
3	16QAM	1	16	17.53	17.46	17.47						
3	16QAM	8	0	17.32	17.62	17.52						
3	16QAM	8	4	17.50	17.50	17.44						
3	16QAM	8	7	17.51	17.55	17.54						
3	16QAM	16	0	17.47	17.44	17.52						
3	64QAM	1	0	17.51	17.44	17.52	18.9	0				
3	64QAM	1	8	17.46	17.43	17.54						
3	64QAM	1	16	17.46	17.43	17.54						
3	64QAM	8	0	17.41	17.41	17.41						
3	64QAM	8	4	17.41	17.41	17.41						
3	64QAM	8	7	17.34	17.41	17.42						
3	64QAM	16	0	17.44	17.56	17.47						
3	256QAM	1	0	17.44	17.56	17.47	18.9	0				
3	256QAM	1	8	17.48	17.46	17.51						
3	256QAM	1	16	17.45	17.45	17.45						
3	256QAM	8	0	17.41	17.52	17.47						
3	256QAM	8	4	17.38	17.61	17.49						
3	256QAM	8	7	17.45	17.45	17.45						
3	256QAM	16	0	17.53	17.53	17.39						
Channel												
23057 23059 23173												
1.4	QPSK	1	0	17.52	17.57	17.45	18.9	0				
1.4	QPSK	1	3	17.50	17.43	17.35						
1.4	QPSK	1	6	17.41	17.40	17.31						
1.4	QPSK	3	0	17.46	17.58	17.44						
1.4	QPSK	3	1	17.46	17.41	17.42						
1.4	QPSK	3	2	17.41	17.51	17.55						
1.4	QPSK	6	0	17.34	17.46	17.42						
1.4	16QAM	1	0	17.41	17.52	17.43	18.9	0				
1.4	16QAM	1	3	17.34	17.49	17.48						
1.4	16QAM	1	6	17.38	17.47	17.46						
1.4	16QAM	3	0	17.36	17.56	17.37						
1.4	16QAM	3	1	17.45	17.45	17.54						
1.4	16QAM	3	2	17.42	17.40	17.40						
1.4	16QAM	6	0	17.47	17.60	17.48						
1.4	64QAM	1	0	17.42	17.47	17.47	18.9	0				
1.4	64QAM	1	3	17.33	17.46	17.38						
1.4	64QAM	1	6	17.41	17.54	17.36						
1.4	64QAM	3	0	17.51	17.47	17.50						
1.4	64QAM	3	1	17.48	17.42	17.38						
1.4	64QAM	3	2	17.52	17.41	17.53						
1.4	64QAM	6	0	17.46	17.47	17.53						
1.4	256QAM	1	0	17.47	17.40	17.35	18.9	0				
1.4	256QAM	1	3	17.38	17.68	17.49						
1.4	256QAM	1	6	17.42	17.52	17.58						
1.4	256QAM	3	0	17.52	17.45	17.54						
1.4	256QAM	3	1	17.48	17.67	17.42						
1.4	256QAM	3	2	17.42	17.52	17.58						
1.4	256QAM	6	0	17.44	17.51	17.52						
1.4	256QAM	6	0	17.44	17.51	17.52	18.9	0				
1.4	256QAM	6	0	17.44	17.51	17.52						
1.4	256QAM	6	0	17.44	17.51	17.52						
1.4	256QAM	6	0	17.44	17.51	17.52						
1.4	256QAM	6	0	17.44	17.51	17.52						
1.4	256QAM	6	0	17.44	17.51	17.52						
1.4	256QAM	6	0	17.44	17.51	17.52						

Band 13 Ant1 DS110												
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turnup time (sec)	MPE (dB)				
Channel												
7125												
10	QPSK	1	0	21.38	21.38	21.42	22.5	0				
10	QPSK	1	25	21.30	21.30	21.24						
10	QPSK	1	49	21.31	21.24	21.24						
10	QPSK	25	0	21.30	21.38	21.38						
10	QPSK	25	12	21.21	21.21	21.21						
10	QPSK	25	25	21.20	21.20	21.20						
10	QPSK	50	0	21.33	21.33	21.34						
10	16QAM	1	0	21.24	21.24	21.24	22.5	0				
10	16QAM	1	25	21.23	21.23	21.23						
10	16QAM	1	49	21.29	21.29	21.29						
10	16QAM	25	0	21.29	21.29	21.29						
10	16QAM	25	12	21.20	21.20	21.20						
10	16QAM	25	25	21.20	21.20	21.20						
10	16QAM	50	0	21.18	21.18	21.18						
10	64QAM	1	0	21.35	21.35	21.25	22.5	0				
10	64QAM	1	25	21.27	21.27	21.27						
10	64QAM	1	49	21.30	21.30	21.30						
10	64QAM	25	0	21.34	21.34	21.34						
10	64QAM	25	12	21.22	21.22	21.22						
10	64QAM	25	25	21.17	21.17	21.17						
10	64QAM	50	0	21.25	21.25	21.25						
10	256QAM	1	0	21.34	21.34	21.24	20.5	2				
10	256QAM	1	25	21.24	21.24	21.24						
10	256QAM	1	49	21.28	21.28	21.28						
10	256QAM	25	0	21.35	21.35	21.35						
10	256QAM	25	12	21.29	21.29	21.29						
10	256QAM	25	25	21.24	21.24	21.24						
10	256QAM	50	0	21.27	21.27	21.27						
Channel												
23205 23209 23255												
10	QPSK	1	0	21.21	21.23	21.24	22.5	0				
10	QPSK	1	12	21.19	21.12	21.21						
10	QPSK	1	24	21.16	21.14	21.08						
10	QPSK	25	0	21.24	21.33	21.16						
10	QPSK	25	12	21.11	21.19	21.30						
10	QPSK	25	25	21.10	21.15	21.13						
10	QPSK	50	0	21.28	21.30	21.28						
10	16QAM	1	0	21.18	21.24	21.08	22.5	0				
10	16QAM	1	12	21.21	21.17	21.17						
10	16QAM	1	24	21.16	21.03	21.13						
10	16QAM	12	0	21.20	21.29	21.14						
10	16QAM	12	12	21.03	21.20	21.28						
10	16QAM	12	24	21.08	21.18	21.16						
10	16QAM	25	0	21.20	21.20	21.20						
10	64QAM	1	12	21.36	21.26	21.30	22.5	0				
10	64QAM	1	24	21.16	21.20	21.25						
10	64QAM	12	0	21.28	21.38	21.22						
10	64QAM	12	12	21.05	21.06	21.22						
10	64QAM	12	24	21.07	21.04	21.17						
10	64QAM	25	0	21.18	21.05	21.16						
10	256QAM	1	0	21.24	21.29	21.33						
10	256QAM	1	12	21.30	21.37	21.30	20.5	2				
10	256QAM	1	24	21.21	21.21	21.19						
10	256QAM	12	0	21.29	21.28	21.14						
10	256QAM	12	12	21.18	21.21	21.12						
10	256QAM	12	24	21.26	21.26	21.18						
10	256QAM	25	0	21.30	21.34	21.37						
10	256QAM	25	12	21.25	21.25	21.25						

Band 26 Ant1 DS10										
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dB)	MFR (dB)		
Channel										
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	19.23	19.20	19.14	20.4	0		
15	QPSK	1	37	19.37	19.17	18.95				
15	QPSK	1	74	19.12	19.04	18.94				
15	QPSK	36	0	19.23	19.20	19.19	20.4	0		
15	QPSK	36	20	19.35	19.09	18.95				
15	QPSK	36	36	19.04	18.99	18.93				
15	QPSK	75	0	19.18	19.21	19.08	20.4	0		
15	16QAM	1	0	19.00	19.12	19.04				
15	16QAM	1	37	19.05	19.26	18.95				
15	16QAM	1	74	18.96	18.94	19.02	20.4	0		
15	16QAM	36	0	19.38	19.07	19.12				
15	16QAM	36	20	19.10	19.21	19.01				
15	16QAM	36	39	19.09	18.99	18.94	20.4	0		
15	16QAM	75	0	19.35	19.11	18.99				
15	16QAM	75	0	19.35	19.11	18.99				
15	8QAM	1	0	19.19	18.98	19.05	20.4	0		
15	8QAM	1	37	19.11	19.11	18.94				
15	8QAM	1	74	19.04	19.04	19.11				
15	8QAM	36	20	19.12	18.97	19.03	20.4	0		
15	8QAM	36	39	18.97	19.15	19.00				
15	8QAM	75	0	18.90	19.07	19.08				
15	256QAM	1	37	18.51	18.57	18.51	19.9	0.5		
15	256QAM	1	74	18.70	18.74	18.59				
15	256QAM	36	20	18.86	18.77	18.76				
15	256QAM	36	20	18.67	18.80	18.73	19.9	0.5		
15	256QAM	36	39	18.67	18.80	18.78				
15	256QAM	75	0	18.77	18.72	18.71				
Channel				2676.5	2686.5	2696.5	Turn-up Int. (dB)	MFR (dB)		
Frequency (MHz)				814.5	831.5	844.5				
10	QPSK	1	0	19.17	19.09	19.09	20.4	0		
10	QPSK	1	25	19.30	19.15	18.97				
10	QPSK	1	49	19.09	19.14	19.04				
10	QPSK	25	0	19.01	19.17	19.11	20.4	0		
10	QPSK	25	12	19.00	19.11	19.06				
10	QPSK	25	25	18.97	19.09	19.02				
10	QPSK	50	0	19.06	19.19	19.02	20.4	0		
10	16QAM	1	0	19.04	19.04	18.99				
10	16QAM	1	25	19.17	19.06	18.92				
10	16QAM	1	49	18.91	18.98	18.97	20.4	0		
10	16QAM	25	0	18.95	19.05	18.95				
10	16QAM	25	12	19.18	19.15	19.00				
10	16QAM	50	0	19.02	19.13	18.91	20.4	0		
10	8QAM	1	0	19.04	19.14	18.92				
10	8QAM	1	25	19.17	19.06	18.92				
10	8QAM	1	49	18.99	19.07	18.97	20.4	0		
10	8QAM	25	0	19.01	18.94	18.97				
10	8QAM	25	12	19.24	18.97	18.92				
10	8QAM	25	25	18.95	19.02	18.95	19.9	0.5		
10	8QAM	50	0	18.90	19.23	18.95				
10	256QAM	1	0	18.85	18.85	18.83				
10	256QAM	1	25	18.54	18.51	18.58	19.9	0.5		
10	256QAM	1	49	18.65	18.65	18.61				
10	256QAM	25	0	18.82	18.86	18.84				
10	256QAM	25	12	18.75	18.81	18.53	19.9	0.5		
10	256QAM	25	25	18.69	18.84	18.63				
10	256QAM	50	0	18.78	18.65	18.58				
Channel										
Frequency (MHz)				2671.5	2686.5	2703.5	Turn-up Int. (dB)	MFR (dB)		
5	QPSK	1	0	19.08	19.14	19.08	20.4	0		
5	QPSK	1	12	19.08	19.02	19.00				
5	QPSK	1	24	19.08	19.15	18.89				
5	QPSK	12	0	19.03	19.03	18.99	20.4	0		
5	QPSK	12	7	19.08	19.12	18.94				
5	QPSK	12	13	19.10	19.20	19.00				
5	QPSK	25	0	19.17	19.07	18.92	20.4	0		
5	16QAM	1	0	19.04	19.10	19.09				
5	16QAM	1	12	19.15	19.26	18.95				
5	16QAM	1	24	19.04	19.09	19.03	20.4	0		
5	16QAM	12	0	19.03	19.07	19.11				
5	16QAM	12	7	19.08	19.09	19.08				
5	16QAM	12	13	19.08	19.08	19.11	20.4	0		
5	16QAM	25	0	19.13	19.10	19.10				
5	8QAM	1	0	19.02	19.02	19.08				
5	8QAM	1	12	19.16	19.08	18.99	20.4	0		
5	8QAM	1	24	18.93	18.96	19.09				
5	8QAM	12	0	18.88	19.13	19.08				
5	8QAM	12	7	19.10	19.06	19.00	20.4	0		
5	8QAM	12	13	19.06	19.16	18.98				
5	8QAM	25	0	19.01	19.23	19.12				
5	256QAM	1	0	18.92	18.92	18.91	19.9	0.5		
5	256QAM	1	12	18.93	18.84	18.93				
5	256QAM	1	24	18.74	18.97	18.95				
5	256QAM	12	0	18.99	18.72	18.74	19.9	0.5		
5	256QAM	12	7	18.75	18.67	18.68				
5	256QAM	12	13	18.92	18.82	18.99				
5	256QAM	25	0	18.58	18.53	18.75	19.9	0.5		
5	256QAM	25	0	18.58	18.53	18.75				
5	256QAM	25	0	18.58	18.53	18.75				
Channel										
Frequency (MHz)				2667.5	2686.5	2703.5	Turn-up Int. (dB)	MFR (dB)		
3	QPSK	1	0	19.07	19.21	19.15	20.4	0		
3	QPSK	1	8	18.97	19.04	19.01				
3	QPSK	1	14	19.03	19.23	18.95				
3	QPSK	8	0	19.04	19.27	19.02	20.4	0		
3	QPSK	8	4	19.04	19.09	19.11				
3	QPSK	8	7	19.10	19.02	19.02				
3	16QAM	1	0	19.07	19.06	18.96	20.4	0		
3	16QAM	1	8	19.05	18.99	18.95				
3	16QAM	1	14	19.01	19.08	19.00				
3	16QAM	8	0	19.02	19.12	19.07	20.4	0		
3	16QAM	8	4	19.13	19.18	19.12				
3	16QAM	8	7	19.04	19.12	19.13				
3	16QAM	15	0	19.09	18.94	19.03	20.4	0		
3	8QAM	1	0	19.01	18.99	18.91				
3	8QAM	1	8	19.15	19.18	18.95				
3	8QAM	1	14	19.12	18.90	19.11	20.4	0		
3	8QAM	8	0	19.01	19.11	18.93				
3	8QAM	8	4	19.10	19.04	19.08				
3	8QAM	8	7	19.04	19.12	19.13	20.4	0		
3	8QAM	15	0	19.06	19.14	19.02				
3	8QAM	15	4	19.04	18.94	18.99				
3	256QAM	1	0	18.93	18.85	18.81	19.9	0.5		
3	256QAM	1	14	18.72	18.67	18.63				
3	256QAM	1	28	18.69	18.69	18.69				
3	256QAM	8	0	18.88	18.60	18.70	19.9	0.5		
3	256QAM	8	4	18.68	18.74	18.75				
3	256QAM	8	7	18.58	18.68	18.68				
Channel				2667.5	2686.5	2703.5	Turn-up Int. (dB)	MFR (dB)		
Frequency (MHz)				814.5	831.5	844.5				
1.4	QPSK	1	0	19.16	19.16	19.16	20.4	0		
1.4	QPSK	1	8	18.96	19.02	19.00				
1.4	QPSK	1	16	19.04	19.03	18.87				
1.4	QPSK	16	0	19.13	19.04	18.94	20.4	0		
1.4	QPSK	3	8	18.99	19.03	19.15				
1.4	QPSK	3	14	19.14	19.23	19.09				
1.4	16QAM	1	0	19.11	19.11	18.95	20.4	0		
1.4	16QAM	1	8	19.10	19.13	18.95				
1.4	16QAM	1	16	19.20	19.07	18.99				
1.4	16QAM	16	0	19.05	19.04	18.94	20.4	0		
1.4	16QAM	3	8	18.96	19.04	19.16				
1.4	16QAM	3	14	19.17	19.21	19.11				
1.4	16QAM	3	16	19.20	19.08	18.91	20.4	0		
1.4	16QAM	8	0	19.11	19.08	18.89				
1.4	16QAM	8	8	19.00	19.07	19.06				
1.4	16QAM	3	8	18.99	19.04	19.03	20.4	0		
1.4	16QAM	3	14	19.17	19.21	19.11				
1.4	16QAM	3	16	19.20	19.08	18.91				
1.4	8QAM	1	0	19.05	19.14	18.94	20.4	0		
1.4	8QAM	8	0	19.02	19.20	19.03				
1.4	8QAM	8	8	19.00	19.00	18.94				
1.4	256QAM	1	0	18.64	18.56	18.53	19.9	0.5		
1.4	256QAM	1	8	18.69	18.58	18.51				
1.4	256QAM	1	16	18.64	18.64	18.64				
1.4	256QAM	3	8	18.81	18.61	18.61	19.9	0.5		
1.4	256QAM	3	14	18.80	18.69	18.69				
1.4	256QAM	3	16	18.69	18.77	18.64				
1.4	256QAM	8	0	18.62	18.62	18.62	19.9	0.5		
1.4	256QAM	8	8	18.69	18.69	18.69				
1.4	256QAM	8	16	18.69	18.69	18.69				



Band 38 Ant1 DSI10																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)								
Channel																
Frequency (MHz)				39760	39800	39840										
20	QPSK	1	0	15.92	15.92	15.91	17.1	0								
20	QPSK	1	49	15.88	15.81	15.88										
20	QPSK	1	99	15.89	15.91	15.83										
20	QPSK	1	49	15.84	15.85	15.83										
20	QPSK	50	0	15.94	15.92	15.70	17.1	0								
20	QPSK	50	24	15.88	15.81	15.86										
20	QPSK	50	24	15.74	15.91	15.79										
20	QPSK	50	0	15.81	15.90	15.71										
20	16QAM	1	0	15.70	15.69	15.74	17.1	0								
20	16QAM	1	49	15.82	15.85	15.74										
20	16QAM	1	99	15.85	15.75	15.83										
20	16QAM	50	0	15.78	15.92	15.78										
20	16QAM	50	24	15.89	15.83	15.86	17.1	0								
20	16QAM	50	24	15.71	15.88	15.81										
20	16QAM	50	24	15.79	15.82	15.68										
20	16QAM	50	0	15.84	15.87	15.84										
20	8QAM	1	0	15.67	15.80	15.84	17.1	0								
20	8QAM	1	99	15.73	15.74	15.86										
20	8QAM	50	0	15.84	15.87	15.84										
20	8QAM	50	24	15.69	15.73	15.60										
20	8QAM	50	24	15.84	15.80	15.74	17.1	0								
20	8QAM	100	0	15.67	15.67	15.63										
20	256QAM	1	0	15.82	15.81	15.83										
20	256QAM	1	99	15.82	15.79	15.80	17.1	0								
20	256QAM	1	99	15.79	15.79	15.73										
20	256QAM	1	0	15.84	15.82	15.86										
20	256QAM	50	0	15.88	15.86	15.89										
20	256QAM	50	24	15.71	15.85	15.89	17.1	0								
20	256QAM	50	24	15.75	15.88	15.80										
20	256QAM	100	0	15.74	15.82	15.81										
Channel																
Frequency (MHz)				39760	39800	39840										
Frequency (MHz)				24715	24790	24815										
15	QPSK	1	0	15.83	15.87	15.83	17.1		0							
15	QPSK	1	37	15.88	15.78	15.81										
15	QPSK	1	74	15.73	15.88	15.80										
15	QPSK	1	37	15.83	15.81	15.87										
15	QPSK	36	0	15.83	15.80	15.87	17.1	0								
15	QPSK	36	20	15.88	15.82	15.75										
15	QPSK	36	20	15.73	15.84	15.80										
15	QPSK	75	0	15.73	15.84	15.80										
15	16QAM	1	0	15.70	15.84	15.71	17.1	0								
15	16QAM	1	74	15.70	15.84	15.75										
15	16QAM	1	74	15.48	15.82	15.48										
15	16QAM	36	0	15.86	15.81	15.83										
15	16QAM	36	0	15.82	15.80	15.87	17.1	0								
15	16QAM	36	39	15.79	15.73	15.48										
15	16QAM	75	0	15.87	15.73	15.74										
15	16QAM	1	0	15.81	15.88	15.87										
15	16QAM	1	37	15.59	15.77	15.44	17.1	0								
15	16QAM	1	74	15.72	15.84	15.78										
15	16QAM	1	37	15.73	15.86	15.84										
15	16QAM	36	20	15.51	15.65	15.42										
15	16QAM	36	0	15.73	15.80	15.82	17.1	0								
15	16QAM	36	39	15.70	15.88	15.84										
15	16QAM	75	0	15.87	15.82	15.84										
15	256QAM	1	0	15.83	15.84	15.84	17.1	0								
15	256QAM	1	37	15.82	15.79	15.78										
15	256QAM	1	74	15.87	15.87	15.85										
15	256QAM	1	0	15.72	15.74	15.74										
15	256QAM	36	20	15.73	15.87	15.81	17.1	0								
15	256QAM	36	39	15.64	15.85	15.80										
15	256QAM	75	0	15.83	15.86	15.86										
Channel																
Frequency (MHz)				39760	39800	39840										
Frequency (MHz)				24715	24790	24815										
10	QPSK	1	0	15.81	15.86	15.82	17.1	0								
10	QPSK	1	25	15.79	15.86	15.79										
10	QPSK	1	49	15.72	15.89	15.83										
10	QPSK	1	25	15.83	15.83	15.83										
10	QPSK	25	12	15.69	15.80	15.84	17.1	0								
10	QPSK	25	25	15.69	15.80	15.84										
10	QPSK	25	25	15.61	15.86	15.69										
10	QPSK	50	0	15.81	15.80	15.87										
10	16QAM	1	0	15.63	15.83	15.84	17.1	0								
10	16QAM	1	25	15.78	15.85	15.74										
10	16QAM	1	49	15.82	15.80	15.34										
10	16QAM	25	0	15.88	15.83	15.83										
10	16QAM	25	12	15.68	15.74	15.75	17.1	0								
10	16QAM	25	25	15.70	15.86	15.84										
10	16QAM	25	25	15.62	15.72	15.48										
10	16QAM	50	0	15.77	15.68	15.65										
10	8QAM	1	0	15.71	15.77	15.84	17.1	0								
10	8QAM	1	25	15.49	15.83	15.83										
10	8QAM	1	49	15.55	15.74	15.73										
10	8QAM	25	0	15.80	15.73	15.84										
10	8QAM	25	12	15.68	15.52	15.46	17.1	0								
10	8QAM	25	25	15.71	15.81	15.58										
10	8QAM	50	0	15.71	15.81	15.85										
10	256QAM	1	0	15.75	15.84	15.80										
10	256QAM	1	49	15.80	15.81	15.86	17.1	0								
10	256QAM	1	99	15.82	15.75	15.84										
10	256QAM	25	0	15.82	15.82	15.88										
10	256QAM	25	12	15.82	15.84	15.80										
10	256QAM	25	25	15.82	15.74	15.82	17.1	0								
10	256QAM	50	0	15.67	15.67	15.80										
Channel																
Frequency (MHz)				39776	39800	39825										
Frequency (MHz)				24715	24790	24815										
5	QPSK	1	0	15.81	15.86	15.82	17.1	0								
5	QPSK	1	12	15.86	15.79	15.70										
5	QPSK	1	24	15.81	15.85	15.75										
5	QPSK	12	0	15.80	15.71	15.89										
5	QPSK	12	7	15.81	15.39	15.74	17.1	0								
5	QPSK	12	13	15.83	15.85	15.88										



Band 42 FCC Part27Q Ant1 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-up test (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				42160	42160	42160			
20	QPSK	1	0	14.61	14.67	14.47			
20	QPSK	1	49	14.62	14.54	14.38	16.2	0	
20	QPSK	1	99	14.61	14.54	14.39			
20	QPSK	50	0	14.46	14.50	14.43			
20	QPSK	50	24	14.47	14.45	14.38	16.2	0	
20	QPSK	50	149	14.47	14.53	14.57			
20	QPSK	100	0	14.33	14.45	14.21			
20	16QAM	1	0	14.50	14.43	14.36	16.2	0	
20	16QAM	1	49	14.45	14.54	14.47			
20	16QAM	1	99	14.35	14.47	14.25			
20	16QAM	50	0	14.94	14.50	14.36			
20	16QAM	50	24	14.52	14.46	14.25	16.2	0	
20	16QAM	50	149	14.25	14.58	14.40			
20	16QAM	100	0	14.51	14.25	14.25			
20	64QAM	1	0	14.47	14.55	14.25			
20	64QAM	1	49	14.26	14.50	14.30	16.2	0	
20	64QAM	1	99	14.53	14.46	14.33			
20	64QAM	50	0	14.50	14.51	14.26			
20	64QAM	50	24	14.52	14.52	14.33	16.2	0	
20	64QAM	50	149	14.56	14.49	14.29			
20	64QAM	100	0	14.45	14.44	14.22			
20	256QAM	1	0	14.43	14.48	14.36			
20	256QAM	1	49	14.52	14.52	14.30	16.2	0	
20	256QAM	1	99	14.43	14.47	14.32			
20	256QAM	50	0	14.36	14.38	14.22			
20	256QAM	50	24	14.57	14.39	14.37	16.2	0	
20	256QAM	50	149	14.50	14.46	14.48			
20	256QAM	100	0	14.43	14.46	14.36			
Channel									
Frequency (MHz)				42165	42160	42165	Turn-up test (dBm)	MPR (dB)	
15	QPSK	1	0	14.47	14.55	14.43			
15	QPSK	1	37	14.56	14.37	14.22	16.2	0	
15	QPSK	1	74	14.50	14.57	14.30			
15	QPSK	36	0	14.42	14.50	14.41			
15	QPSK	36	20	14.45	14.39	14.28	16.2	0	
15	QPSK	36	56	14.47	14.59	14.42			
15	QPSK	75	0	14.41	14.36	14.34			
15	16QAM	1	0	14.43	14.30	14.51			
15	16QAM	1	37	14.27	14.37	14.27	16.2	0	
15	16QAM	1	74	14.21	14.34	14.55			
15	16QAM	36	0	14.56	14.34	14.36			
15	16QAM	36	20	14.52	14.33	14.25	16.2	0	
15	16QAM	36	56	14.22	14.39	14.27			
15	16QAM	75	0	14.30	14.33	14.30			
15	64QAM	1	0	14.47	14.54	14.39			
15	64QAM	1	37	14.35	14.34	14.28	16.2	0	
15	64QAM	1	74	14.50	14.36	14.56			
15	64QAM	36	0	14.48	14.53	14.25			
15	64QAM	36	20	14.32	14.45	14.38	16.2	0	
15	64QAM	36	56	14.45	14.58	14.42			
15	64QAM	75	0	14.29	14.42	14.25			
15	256QAM	1	0	14.41	14.46	14.41	16.2	0	
15	256QAM	1	37	14.51	14.45	14.27			
15	256QAM	1	74	14.36	14.41	14.34			
15	256QAM	36	0	14.33	14.27	14.21	16.2	0	
15	256QAM	36	20	14.47	14.27	14.27			
15	256QAM	36	56	14.31	14.37	14.44			
15	256QAM	75	0	14.40	14.40	14.29			
Channel									
Frequency (MHz)				3455	3500	3545	Turn-up test (dBm)	MPR (dB)	
10	QPSK	1	0	14.44	14.54	14.43			
10	QPSK	1	25	14.55	14.36	14.28	16.2	0	
10	QPSK	1	49	14.46	14.53	14.28			
10	QPSK	36	0	14.40	14.50	14.40			
10	QPSK	36	12	14.36	14.31	14.41	16.2	0	
10	QPSK	25	25	14.41	14.57	14.47			
10	QPSK	50	0	14.35	14.37	14.43			
10	16QAM	1	0	14.29	14.31	14.46			
10	16QAM	1	25	14.44	14.55	14.44	16.2	0	
10	16QAM	1	49	14.35	14.37	14.49			
10	16QAM	25	0	14.65	14.36	14.21			
10	16QAM	25	12	14.49	14.44	14.51	16.2	0	
10	16QAM	25	25	14.54	14.56	14.23			
10	16QAM	50	0	14.62	14.21	14.21			
10	64QAM	1	0	14.44	14.48	14.40			
10	64QAM	1	25	14.42	14.33	14.27	16.2	0	
10	64QAM	1	49	14.46	14.43	14.31			
10	64QAM	25	0	14.44	14.48	14.51			
10	64QAM	25	12	14.29	14.48	14.42	16.2	0	
10	64QAM	25	25	14.40	14.37	14.51			
10	64QAM	50	0	14.25	14.35	14.45			
10	256QAM	1	0	14.40	14.34	14.41	16.2	0	
10	256QAM	1	25	14.52	14.29	14.36			
10	256QAM	1	49	14.32	14.42	14.25			
10	256QAM	25	0	14.29	14.38	14.28	16.2	0	
10	256QAM	25	12	14.42	14.24	14.27			
10	256QAM	25	25	14.52	14.31	14.27			
10	256QAM	50	0	14.38	14.39	14.32			
Channel									
Frequency (MHz)				3451.5	3500	3547.5	Turn-up test (dBm)	MPR (dB)	
5	QPSK	1	0	14.53	14.49	14.26			
5	QPSK	1	12	14.50	14.50	14.31	16.2	0	
5	QPSK	1	24	14.54	14.44	14.38			
5	QPSK	12	0	14.27	14.40	14.25			
5	QPSK	12	7	14.45	14.29	14.25	16.2	0	
5	QPSK	12	13	14.48	14.46	14.27			
5	QPSK	25	0	14.34	14.26	14.50			
5	16QAM	1	0	14.29	14.27	14.24			
5	16QAM	1	12	14.46	14.53	14.49	16.2	0	
5	16QAM	1	24	14.52	14.34	14.29			
5	16QAM	12	0	14.56	14.49	14.27			
5	16QAM	12	7	14.50	14.47	14.46	16.2	0	
5	16QAM	12	13	14.31	14.37	14.28			
5	16QAM	25	0	14.32	14.39	14.29			
5	64QAM	1	0	14.28	14.43	14.23			
5	64QAM	1	12	14.29	14.32	14.31	16.2	0	
5	64QAM	1	24	14.50	14.39	14.42			
5	64QAM	12	0	14.52	14.38	14.52			
5	64QAM	12	7	14.44	14.50	14.35	16.2	0	
5	64QAM	12	13	14.48	14.48	14.41			
5	64QAM	25	0	14.40	14.31	14.25			
5	256QAM	1	0	14.32	14.42	14.38	16.2	0	
5	256QAM	1	12	14.40	14.25	14.41			
5	256QAM	1	24	14.50	14.31	14.39			
5	256QAM	12	0	14.27	14.26	14.47			
5	256QAM	12	7	14.24	14.31	14.42	16.2	0	
5	256QAM	12	13	14.40	14.35	14.32			
5	256QAM	25	0	14.54	14.24	14.54			

Band 43_FCC Ant1 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up test (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				44160	44160	44160			
20	QPSK	1	0	15.12	15.17	15.11			
20	QPSK	1	49	17.97	15.07	15.08	19.6	0	
20	QPSK	1	99	17.96	15.10	15.04			
20	QPSK	50	0	15.13	15.15	17.99			
20	QPSK	50	24	18.00	17.88	18.07	19.6	0	
20	QPSK	50	149	17.97	15.01	18.04			
20	16QAM	1	0	17.93	15.01	18.04	19.6	0	
20	16QAM	1	49	17.94	15.02	18.12			
20	16QAM	1	99	18.02	17.97	17.98			
20	16QAM	50	0	17.95	15.15	18.02			
20	16QAM	50	24	17.97	15.01	17.94	19.6	0	
20	16QAM	50	149	17.95	15.16	18.03			
20	64QAM	1	0	17.95	15.03	17.99			
20	64QAM	1	49	18.00	17.88	17.88	19.6	0	
20	64QAM	1	99	17.98	15.02	17.95			
20	64QAM	50	0	17.91	15.11	17.91			
20	64QAM	50	24	15.13	15.12	15.12	19.6	0	
20	64QAM	50	149	17.95	15.02	17.97			
20	64QAM	100	0	17.96	15.02	18.09			
20	256QAM	1	0	15.63	15.79	15.62			
20	256QAM	1	49	17.95	15.72	15.59	18.1	1.5	
20	256QAM	1	99	15.60	15.67	15.38			
20	256QAM	50	0	15.58	15.70	15.61			
20	256QAM	50	24	15.51	15.48	15.39	18.1	1.5	
20	256QAM	50	149	15.45	15.68	15.47			
20	256QAM	100	0	15.60	15.63	15.45			
Channel									
Frequency (MHz)				44165	44160	44161	Turn-up test (dBm)	MPR (dB)	
10	QPSK	1	0	15.14	15.04	15.11			
10	QPSK	1	37	17.81	18.03	17.86	19.6	0	
10	QPSK	1	74	17.80	18.10	17.84			
10	QPSK	50	0	15.04	15.11	17.81			
10	QPSK	50	20	17.85	17.88	17.81	19.6	0	
10	QPSK	50	57	17.86	17.82	17.86			
10	16QAM	1	0	17.82	17.88	17.86	19.6	0	
10	16QAM	1	37	17.85	17.82	17.89			
10	16QAM	1	74	17.82	17.88	17.89			
10	16QAM	50	0	17.80	15.09	17.85			
10	16QAM	50	20	17.81	17.81	17.84	19.6	0	
10	16QAM	50	57	17.83	17.86	17.86			
10	64QAM	1	0	17.80	15.08	17.84			
10	64QAM	1	37	17.85	17.81	17.74	19.6	0	
10	64QAM	1	74	17.79	17.80	17.80			
10	64QAM	50	0	17.81	17.81	17.83			
10	64QAM	50	20	18.13	17.81	17.84	19.6	0	
10	64QAM	50	57	17.82	17.81	17.83			
10	256QAM	1	0	15.67	15.69	15.61			
10	256QAM	1	37	17.80	17.80	17.81	19.6	1.5	
10	256QAM	1	74	15.68	15.61	15.32			
10	256QAM	50	0	15.50	15.56	15.38			
10	256QAM	50	20	15.54	15.49	15.45	18.1	1.5	
10	256QAM	50	57	15.46	15.45	15.47			
10	256QAM	100	0	15.60	15.63	15.45			
Channel									
Frequency (MHz)				44165	44160	44160	Turn-up test (dBm)	MPR (dB)	
10	QPSK	1	0	17.99	18.08	18.02			
10	QPSK	1	25	17.79	17.87	18.01	19.6	0	
10	QPSK	1	49	17.80	17.89	17.84			
10	QPSK	50	0	17.99	18.07	17.83			
10	QPSK	50	12	17.80	17.82	17.85	19.6	0	
10	QPSK	50	37	17.87	17.83	17.85			
10	QPSK	50	62	17.89	18.09	17.95			
10	16QAM	1	0	17.77	18.05	17.88			
10	16QAM	1	12	17.81	17.89	18.13	19.6	0	
10	16QAM	1	49	17.85	17.84	17.82			
10	16QAM	50	0	17.80	17.80	17.79			
10	16QAM	50	12	17.83	18.05	17.89	19.6	0	
10	16QAM	50	37	17.82	17.89	17.79			
10	64QAM	1	0	17.78	18.12	18.01			
10	64QAM	1	25	18.01	17.82	17.84	19.6	0	
10	64QAM	1	49	17.83	18.01	17.88			
10	64QAM	50	0	17.81	17.82	17.84			
10	64QAM	50	12	17.83	18.01	17.99	19.6	0	
10	64QAM	50	37	17.80	17.83	17.83			
10	64QAM	50	62	17.87	18.09	18.02			
10	256QAM	1	0	15.40	15.63	15.45			
10	256QAM	1	25	15.45	15.41	15.47	18.1	1.5	
10	256QAM	1	49	15.50	15.64	15.25			
10	256QAM	50	0	15.54	15.56	15.38			
10	256QAM	50	12	15.42	15.47	15.22	18.1	1.5	
10	256QAM	50	25	15.44	15.61	15.26			
10	256QAM	100	0	15.53	15.62	15.44			
Channel									
Frequency (MHz)				44115	44160	44160	Turn-up test (dBm)	MPR (dB)	
5	QPSK	1	0	17.99	18.08	18.02			
5	QPSK	1	12	17.75	18.05	18.01	19.6	0	
5	QPSK	1	24	17.83	17.83	17.83			
5	QPSK	12	0	18.01	17.87	17.85			
5	QPSK	12	7	17.88	17.86	18.09	19.6	0	
5	QPSK	12	13	17.81	17.83	17.83			
5	QPSK	25	0	17.89	18.07	17.88			
5	16QAM	1	0	17.83	17.84	17.87	19.6	0	
5	16QAM	1	12	17.79	17.89	18.13			
5	16QAM	1	24	18.00	17.80	17.79			
5	16QAM	12	0	17.84	17.84	17.86			
5	16QAM	12	7	17.88	17.88	17.92	19.6	0	
5	16QAM	12	13	17.91	18.06	18.03			
5	64QAM	1	0	17.86	17.86	17.88			
5	64QAM	1	12	18.04	17.78	17.81	19.6	0	
5	64QAM	1	24	17.83	17.83	17.83			
5	64QAM	12	0	17.81	17.81	17.87			
5	64QAM	12	7	17.85	18.03	18.13	19.6	0	
5	64QAM	12	13	17.81	17.81	17.81			
5	256QAM	1	0	15.63	15.69	15.61			
5	256QAM	1	12	15.46	15.62	15.25	18.1	1.5	
5	256QAM	1	24	15.45	15.67	15.21			
5	256QAM	12	0	15.50	15.60	15.32			
5	256QAM	12	7	15.41	15.38	15.39	18.1	1.5	
5	256QAM	12	13	15.25	15.25	15.25			
5	256QAM	12	13	15.13	15.13	15.44			

GSM1900 A/G2 Default									
GSM1900	Rx Channel Power (dBm)				Tx Channel Power (dBm)	Tx Channel Power (dBm)			
	192	181	830	Turnup Limit		192	181	830	Turnup Limit
Frequency (MHz)	1905.2	1890	1905.1		1905	1905.9	1905.9		
OPRE 1 Tx min	20.24	20.25	20.07	20.30	21.24	21.28	21.67		
OPRE 1 Tx max	30.27	30.30	30.05	30.30	31.27	31.30	31.69	21.60	
OPRE 2 Tx min	20.30	20.29	20.20	20.30	22.30	22.29	22.50	21.50	
OPRE 3 Tx min	20.80	20.82	20.75	20.80	22.80	22.80	23.14	21.74	
OPRE 4 Tx min	24.43	24.47	24.50	25.00	25.43	25.47	25.50	22.50	
EDGE 1 Tx min	25.70	25.74	25.81	26.00	26.70	26.74	27.00	21.70	
EDGE 2 Tx min	24.23	24.26	24.28	25.00	25.23	25.26	25.30	21.30	
EDGE 3 Tx min	24.35	24.37	24.39	25.00	25.35	25.39	25.40	21.74	
EDGE 4 Tx min	25.11	25.10	25.14	25.00	25.11	25.10	25.14	21.74	

	WCDMA II A/G2 DS10				WCDMA II A/G2 DS10			
	WCDMA II		WCDMA IV		WCDMA IV		WCDMA IV	
	Tx Channel	9400	9400	9508	Tx Channel	1410	1410	1510
Rx Channel	9400	9400	9508	1812	1410	1410	1510	1510
Frequency (MHz)	9400.4	9400	9507.6	1812.2	1410	1410	1510	1510
SCPP Rel 99	17.02	16.06	17.01	18.00	17.06	17.04	17.04	18.00
SCPP Rel 99	16.00	16.14	17.04	18.00	16.01	16.10	17.02	18.00
SCPP Rel 6	17.00	17.10	16.90	18.00	17.07	17.19	16.98	18.00
SCPP Rel 6	16.00	17.10	17.00	18.00	16.00	17.10	16.90	18.00
SCPP Rel 6	16.00	16.87	16.43	18.00	16.02	16.09	16.31	17.00
SCPP Rel 6	16.00	16.00	16.40	18.00	16.07	16.01	16.40	17.00
SCPP Rel 6	16.00	17.13	16.00	18.00	16.07	17.03	16.01	18.00
SCPP Rel 6	17.12	17.20	17.00	18.00	16.00	17.10	16.97	17.00
SCPP Rel 6	16.04	16.02	16.40	18.00	16.04	16.00	16.00	17.00
SCPP Rel 6	16.40	16.04	16.40	18.00	16.04	16.40	16.00	17.00
SCPP Rel 6	17.00	17.07	16.90	18.00	17.00	17.12	16.92	18.00
SCPP Rel 6	16.00	16.00	16.87	18.00	16.12	16.00	16.04	17.00
SCPP Rel 6	16.10	16.20	15.84	17.00	16.01	16.16	15.87	17.00
SCPP Rel 6	16.00	15.03	14.90	16.00	16.03	15.19	14.87	16.00
SCPP Rel 6	17.00	17.08	17.01	18.00	16.06	17.00	16.01	17.00



MINISTRY OF NATIONAL DEFENSE

Band 2 Ant2 DSI10													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dBm)	MPR (dB)	Ch. Delay	Ch. Delay	Ch. Delay	Ch. Delay	Ch. Delay
Channel													
Frequency (MHz)													
20	QPSK	1	0	20.40	20.40	20.40			1.60	1.52			
20	QPSK	1	49	20.29	20.39	20.28			1.74	1.61	0.22		
20	QPSK	1	99	20.27	20.44	20.40			1.73	1.55			
20	QPSK	50	0	20.22	20.22	20.22			1.78	1.55			
20	QPSK	50	24	20.32	20.27	20.35			1.73	1.65	0.24		
20	QPSK	50	50	20.31	20.40	20.28			1.78	1.55			
20	QPSK	100	0	20.29	20.42	20.41			1.71	1.58	0.13		
20	QPSK	1	0	20.21	20.45	20.35			1.79	1.50			
20	QPSK	1	49	20.38	20.44	20.38			1.70	1.56	0.24		
20	QPSK	1	99	20.27	20.32	20.37			1.73	1.63			
20	QPSK	50	24	20.18	20.41	20.38			1.82	1.50			
20	QPSK	50	50	20.31	20.40	20.37			1.78	1.55	0.29		
20	QPSK	100	0	20.23	20.44	20.43			1.77	1.56	0.21		
20	QPSK	1	0	20.31	20.36	20.32			1.70	1.59			
20	QPSK	1	49	20.22	20.38	20.35			1.78	1.67	0.17		
20	QPSK	1	99	20.39	20.38	20.33			1.81	1.51			
20	QPSK	50	0	19.79	19.86	19.71			1.69	1.53			
20	QPSK	50	24	19.74	19.86	19.75			1.84	1.75	0.25		
20	QPSK	50	50	19.77	19.84	19.85			1.86	1.73			
20	QPSK	100	0	19.75	19.86	19.71			1.84	1.79	0.25		
20	QPSK	1	0	17.07	17.04	17.01			1.60	1.65			
20	QPSK	1	49	17.87	17.89	17.87			1.63	1.45			
20	QPSK	1	99	18.05	17.87	17.87			1.63	1.45			
20	QPSK	50	0	17.18	17.20	17.18			1.70	1.54			
20	QPSK	50	24	18.05	17.88	17.87			1.62	1.43	0.32		
20	QPSK	50	50	18.03	17.75	17.86			1.75	1.47			
20	QPSK	100	0	17.18	17.20	17.18			1.73	1.54	0.12		
Channel													
Frequency (MHz)													
15	QPSK	1	0	19.87	19.80	19.83			1.67	1.58			
15	QPSK	1	49	20.36	20.42	20.38			1.64	1.58	0.32		
15	QPSK	1	99	20.19	20.23	20.19			1.82	1.72			
15	QPSK	1	74	20.16	20.26	20.27			1.80	1.63			
15	QPSK	50	0	20.05	20.23	20.21			1.80	1.67			
15	QPSK	50	24	20.09	20.17	20.11			1.83	1.71	0.28		
15	QPSK	50	50	20.13	20.20	20.11			1.80	1.60			
15	QPSK	75	0	20.23	20.33	20.25			1.77	1.67	0.16		
15	QPSK	1	0	20.02	20.33	20.25			1.78	1.57			
15	QPSK	1	37	20.25	20.38	20.28			1.80	1.70	0.26		
15	QPSK	1	37	20.18	20.34	20.24			1.82	1.63			
15	QPSK	36	0	20.00	20.41	20.38			2.00	1.59			
15	QPSK	36	25	20.15	20.32	20.29			1.80	1.68	0.41		
15	QPSK	36	50	20.14	20.38	20.31			1.80	1.60			
15	QPSK	75	0	20.24	20.26	20.21			1.78	1.59	0.07		
15	QPSK	1	0	20.10	20.30	20.28			1.80	1.70			
15	QPSK	1	37	20.19	20.37	20.28			1.82	1.63	0.26		
15	QPSK	1	74	20.16	20.18	20.25			1.82	1.54			
15	QPSK	36	0	19.80	19.87	19.80			1.80	1.61			
15	QPSK	36	25	19.88	19.85	19.85			1.80	1.65	0.22		
15	QPSK	36	50	19.55	19.85	19.77			1.82	1.73			
15	QPSK	75	0	19.80	19.89	19.88			1.80	1.60	0.02		
15	QPSK	1	0	17.03	17.08	17.04			1.52	1.57			
15	QPSK	1	37	17.83	17.88	17.74			1.52	1.57	0.33		
15	QPSK	1	74	18.01	17.80	17.76			1.74	1.49			
15	QPSK	36	0	17.00	17.00	17.00			1.50	1.43			
15	QPSK	36	25	17.89	17.81	17.87			1.72	1.51	0.37		
15	QPSK	36	50	17.86	17.89	17.85			1.81	1.55			
15	QPSK	75	0	17.03	17.08	17.03			1.52	1.48	0.22		
Channel													
Frequency (MHz)													
10	QPSK	1	0	20.24	20.42	20.42			1.78	1.53			
10	QPSK	1	12	20.13	20.24	20.25			1.87	1.70			
10	QPSK	1	24	20.17	20.27	20.34			1.83	1.68			
10	QPSK	1	24	20.16	20.34	20.31			1.86	1.66			
10	QPSK	12	0	20.16	20.26	20.32			1.84	1.74	0.18		
10	QPSK	12	13	20.21	20.29	20.27			1.79	1.71			
10	QPSK	1	0	20.14	20.34	20.31			1.81	1.61	0.19		
10	QPSK	1	0	20.16	20.26	20.30			1.84	1.64			
10	QPSK	1	12	20.17	20.38	20.28			1.72	1.62	0.22		
10	QPSK	1	24	20.15	20.16	20.25			1.84	1.63			
10	QPSK	12	0	20.04	20.36	20.23			1.88	1.64			
10	QPSK	12	7	20.12	20.47	20.29			1.88	1.53	0.43		
10	QPSK	1	0	20.11	20.38	20.18			1.80	1.71			
10	QPSK	25	0	20.03	20.38	20.34			1.97	1.62	0.36		
10	QPSK	1	0	20.27	20.32	20.19			1.88	1.73			
10	QPSK	1	12	20.05	20.30	20.34			1.80	1.70	0.22		
10	QPSK	1	24	20.33	20.35	20.22			1.78	1.65			
10	QPSK	12	0	19.81	19.98	19.76			1.90	1.74	0.25		
10	QPSK	12	7	19.88	19.47	19.76			1.88	1.74			
10	QPSK	12	13	19.98	19.58	19.60			1.92	1.60	0.17		
10	QPSK	25	0	19.88	19.82	19.80			1.90	1.61			
10	QPSK	1	0	17.75	17.73	17.73			1.70	1.75			
10	QPSK	1	12	17.81	17.87	17.84			1.69	1.63	0.15		
10	QPSK	1	24	17.84	17.75	17.88			1.68	1.58			
10	QPSK	12	0	17.00	17.00	17.00			1.85	1.60			
10	QPSK	12	7	17.89	17.78	17.87			1.82	1.51	0.39		
10	QPSK	12	13	17.63	17.84	17.84			1.67	1.76			
10	QPSK	25	0	17.04	17.77	17.74			1.76	1.66	0.10		
Channel													
Frequency (MHz)													
3	QPSK	1	0	20.37	20.47	20.44			1.63	1.53			
3	QPSK	1	8	20.25	20.36	20.21			1.89	1.64	0.36		
3	QPSK	1	16	20.34	20.44	20.40			1.80	1.64			
3	QPSK	8	0	20.10	20.31	20.26			1.90	1.69			
3	QPSK	8	4	20.32	20.13	20.23			1.87	1.68	0.22		
3	QPSK	8	8	20.35	20.15	20.15			1.68	1.68			
3	QPSK	1	0	20.10	20.43	20.20			1.90	1.57	0.33		
3	QPSK	1	8	20.10	20.29	20.19			1.90	1.71			
3	QPSK	1	16	20.41	20.38	20.18			1.82	1.56	0.31		
3	QPSK	1	14	20.18	20.34	20.21			1.84	1.76			
3	QPSK	8	0	20.26	20.29	20.25			1.75	1.61			
3	QPSK	8	4	20.13	20.42	20.34			1.88	1.57	0.29		
3	QPSK	8	7	20.19	20.33	20.23			1.82	1.77			
3	QPSK	16	0	20.17	20.23	20.18			1.83	1.72	0.06		
3	QPSK	1	0	20.30	20.30	20.33			1.67	1.76			
3	QPSK	8	8	20.08	20.17	20.27			1.92	1.73	0.25		
3	QPSK	1	16	20.17	20.24	20.21			1.87	1.76			
3	QPSK	8	16	20.17	20.35	19.74			1.98	1.73			
3	QPSK	8	4	19.60	19.54	19.76			1.96	1.78			
3	QPSK	15	0	19.84	19.52	19.52			1.98	1.85	0.06		
3	QPSK	1	0	17.00	17.82	17.74			1.86	1.60			
3	QPSK	1	14	17.71	17.81	17.78			1.78	1.63	0.43		
3	QPSK	8	0	17.73	17.74	17.87			1.76	1.63			
3	QPSK	8	4	17.74	17.79	17.86			1.75	1.64	0.32		
3	QPSK	8	7	17.74	17.71	17.86			1.79	1.58			
3	QPSK	15	0	17.73	17.83	17.80			1.72	1.67	0.05		
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	20.20	20.43	20.27			1.80	1.80			
1.4	QPSK	1	8	20.08	20.23	20.29			1.92	1.82	0.35		
1.4	QPSK	1	16	20.29	20.26	20.31			1.75	1.75			
1.4	QPSK	8	0	20.07	20.24	20.11			1.93	1.93			
1.4	QPSK	8	4	20.29	20.21	20.11			1.98	1.86	0.30		
1.4	QPSK	8	8	20.31	20.11	20.24			1.98	1.98			
1.4	QPSK	6	0	20.28	20.29	20.22			1.78	1.78			
1.4	QPSK	1	0	20.16	20.31	20.16			1.98	1.90	0.23		
1.4	QPSK	1	8	20.11	20.								

Band 25 Ant2 DSI10														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 16440	Power Mid Ch / Freq. 16460	Power High Ch / Freq. 16480	Turn-up Int. (dB)	MPM (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.66	20.66	20.42	22	0						
20	QPSK	1	49	20.45	20.64	20.37								
20	QPSK	1	99	20.61	20.67	20.39								
20	QPSK	50	0	20.44	20.65	20.32								
20	QPSK	50	24	20.62	20.48	20.43	22	0						
20	QPSK	50	50	20.64	20.62	20.38								
20	QPSK	100	0	20.55	20.60	20.22								
20	16QAM	1	0	20.54	20.60	20.31								
20	16QAM	1	49	20.61	20.58	20.31	22	0						
20	16QAM	1	99	20.56	20.56	20.27								
20	16QAM	50	0	20.46	20.67	20.33								
20	16QAM	50	24	20.48	20.64	20.31								
20	16QAM	50	50	20.64	20.67	20.21	22	0						
20	16QAM	100	0	20.53	20.48	20.29								
20	8QAM	1	0	20.62	20.62	20.25								
20	8QAM	1	49	20.62	20.53	20.40								
20	8QAM	1	99	20.51	20.46	20.27	21	1						
20	8QAM	50	0	19.90	19.50	19.79								
20	8QAM	50	24	19.53	19.77	19.47								
20	8QAM	50	50	19.75	19.68	19.69								
20	8QAM	100	0	19.55	19.89	19.70	19.5	2.5						
20	8QAM	1	74	19.61	19.69	19.66								
20	256QAM	1	49	17.91	19.39	17.95								
20	256QAM	1	99	17.94	17.84	17.97								
20	256QAM	1	99	18.10	17.79	17.86								
20	256QAM	50	0	17.83	17.83	17.84								
20	256QAM	50	24	18.02	18.07	17.89	19.5	2.5						
20	256QAM	50	50	17.92	17.84	18.07								
20	256QAM	100	0	18.25	17.97	18.10								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.72.5	18.80	19.07.5	22	0						
15	QPSK	1	37	20.39	20.50	20.17								
15	QPSK	1	74	20.64	20.47	20.22								
15	QPSK	36	0	20.25	20.53	20.11								
15	QPSK	36	20	20.42	20.42	20.34	22	0						
15	QPSK	36	36	20.58	20.59	20.25								
15	QPSK	75	0	20.38	20.52	20.18								
15	16QAM	1	0	20.25	20.59	20.18								
15	16QAM	1	37	20.44	20.51	20.27	22	0						
15	16QAM	1	74	20.61	20.50	20.24								
15	16QAM	36	0	20.44	20.59	20.17								
15	16QAM	36	20	20.41	20.61	20.25								
15	16QAM	75	0	20.36	20.66	20.26	22	0						
15	8QAM	1	0	20.40	20.65	20.23								
15	8QAM	1	37	20.52	20.63	20.23								
15	8QAM	1	74	20.41	20.65	20.21								
15	8QAM	36	0	19.90	19.40	19.76	21	1						
15	8QAM	36	20	19.55	19.60	19.61								
15	8QAM	36	36	19.57	19.53	19.47								
15	8QAM	75	0	19.48	19.77	19.66								
15	256QAM	1	0	17.83	17.86	17.84	19.5	2.5						
15	256QAM	1	37	17.85	17.83	17.85								
15	256QAM	1	74	17.93	17.79	17.86								
15	256QAM	36	0	17.86	17.82	17.79								
15	256QAM	36	20	17.91	18.07	17.79	19.5	2.5						
15	256QAM	36	36	17.79	17.80	17.89								
15	256QAM	75	0	18.04	17.91	18.05								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.49	20.66	20.35	22	0						
10	QPSK	1	25	20.34	20.43	20.18								
10	QPSK	1	49	20.40	20.61	20.35								
10	QPSK	25	0	20.23	20.59	20.32								
10	QPSK	25	12	20.49	20.32	20.30	22	0						
10	QPSK	25	25	20.42	20.58	20.19								
10	QPSK	50	0	20.36	20.66	20.32								
10	16QAM	1	0	20.39	20.47	20.17								
10	16QAM	1	25	20.48	20.56	20.19	22	0						
10	16QAM	1	49	20.41	20.49	20.28								
10	16QAM	25	0	20.44	20.46	20.25								
10	16QAM	25	12	20.52	20.57	20.25								
10	16QAM	50	0	20.43	20.62	20.26	22	0						
10	16QAM	50	25	20.43	20.64	20.23								
10	8QAM	1	0	20.54	20.28	20.08								
10	8QAM	1	0	20.43	20.64	20.23								
10	8QAM	1	25	20.57	20.47	20.28	22	0						
10	8QAM	1	49	20.33	20.37	20.23								
10	8QAM	25	0	19.74	19.42	19.74								
10	8QAM	25	12	19.37	19.76	19.39								
10	8QAM	25	25	19.54	19.48	19.55	21	1						
10	8QAM	50	0	19.46	19.71	19.58								
10	256QAM	1	0	17.71	17.62	17.75								
10	256QAM	1	25	17.83	17.89	17.72								
10	256QAM	1	49	18.12	17.77	17.89	19.5	2.5						
10	256QAM	25	0	17.83	17.68	17.81								
10	256QAM	25	12	17.86	18.02	17.81								
10	256QAM	25	25	17.82	17.77	18.06								
10	256QAM	50	0	18.15	17.80	18.15	19.5	2.5						
10	256QAM	50	0	18.15	17.80	18.15								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.44	20.62	20.34	22	0						
5	QPSK	1	12	20.32	20.48	20.21								
5	QPSK	1	24	20.47	20.64	20.31								
5	QPSK	12	0	20.37	20.64	20.30								
5	QPSK	12	7	20.55	20.34	20.39	22	0						
5	QPSK	12	13	20.48	20.61	20.35								
5	QPSK	25	0	20.48	20.48	20.22								
5	16QAM	1	0	20.48	20.48	20.10								
5	16QAM	1	12	20.59	20.52	20.19	22	0						
5	16QAM	1	24	20.36	20.51	20.13								
5	16QAM	12	0	20.30	20.50	20.13								
5	16QAM	12	7	20.43	20.42	20.25								
5	16QAM	12	13	20.46	20.51	20.05	22	0						
5	16QAM	25	0	20.47	20.39	20.09								
5	8QAM	1	0	20.30	20.45	20.04								
5	8QAM	1	12	20.41	20.48	20.34								
5	8QAM	1	24	20.43	20.33	20.17	21	1						
5	8QAM	12	0	19.68	19.44	19.77								
5	8QAM	12	7	19.34	19.87	19.30								
5	8QAM	12	13	19.63	19.53	19.68								
5	8QAM	25	0	19.53	19.75	19.60	19.5	2.5						
5	256QAM	1	0	17.80	17.80	17.87								



Band 38 Ant2 DSI10																
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)								
Channel																
Frequency (MHz)				39760	39800	39840										
20	QPSK	1	0	18.46	18.55	18.42	19.8	0								
20	QPSK	1	49	18.31	18.43	18.35										
20	QPSK	1	99	18.16	18.37	18.21										
20	QPSK	50	0	18.32	18.44	18.21										
20	QPSK	50	24	18.26	18.35	18.02										
20	QPSK	100	0	18.23	18.35	18.10	19.8	0								
20	QPSK	100	0	18.34	18.37	18.16										
20	16QAM	1	0	18.28	18.23	18.24										
20	16QAM	1	49	18.15	18.33	18.26										
20	16QAM	50	50	18.43	18.52	18.22										
20	16QAM	100	0	18.17	18.37	18.20	19.8	0								
20	16QAM	50	24	18.15	18.35	18.12										
20	16QAM	50	50	18.43	18.52	18.22										
20	8QAM	1	49	18.35	18.50	18.17										
20	8QAM	50	50	18.12	18.24	18.18										
20	8QAM	100	0	18.14	18.43	18.08	19.8	0								
20	25QAM	1	0	17.74	18.91	17.83										
20	25QAM	1	49	17.86	18.11	17.83										
20	25QAM	1	99	17.99	18.11	17.82										
20	25QAM	50	24	17.73	17.86	17.74										
20	25QAM	50	50	17.87	18.04	17.77	19.3	0.5								
20	25QAM	100	0	17.86	17.98	17.74										
Channel																
Frequency (MHz)				39765	39805	39845										
				25715	25755	25795										
15	QPSK	1	0	18.42	18.35	18.34	19.8		0							
15	QPSK	1	37	18.20	18.31	18.24										
15	QPSK	1	74	18.17	18.27	18.07										
15	QPSK	36	0	18.11	18.28	18.21										
15	QPSK	36	20	18.18	18.29	17.81										
15	QPSK	75	0	18.15	18.31	18.03	19.8	0								
15	QPSK	75	0	18.33	18.20	18.09										
15	16QAM	1	0	18.28	18.18	18.08										
15	16QAM	1	74	18.02	18.21	18.04										
15	16QAM	36	0	18.28	18.40	17.88										
15	16QAM	36	39	18.26	18.43	18.17	19.8	0								
15	16QAM	75	0	17.86	18.30	18.11										
15	16QAM	75	0	17.86	18.35	18.20										
15	8QAM	1	37	18.22	18.47	18.05										
15	8QAM	1	74	18.11	18.11	18.04										
15	8QAM	36	0	17.89	18.35	18.20	19.8	0								
15	8QAM	36	39	18.27	18.36	18.02										
15	8QAM	75	0	18.13	18.28	18.09										
15	8QAM	75	0	18.13	18.37	17.92										
15	25QAM	1	0	17.88	17.89	17.74										
15	25QAM	1	74	17.88	17.87	17.73	19.3	0.5								
15	25QAM	36	0	17.86	17.88	17.73										
15	25QAM	36	39	17.88	17.86	17.77										
15	25QAM	75	0	17.86	17.84	17.86										
Channel																
Frequency (MHz)				39760	39800	39840										
				25715	25755	25795										
10	QPSK	1	0	18.12	18.32	18.29	19.8	0								
10	QPSK	1	25	18.06	18.24	18.09										
10	QPSK	1	49	18.12	18.32	18.18										
10	QPSK	25	0	18.15	18.32	18.22										
10	QPSK	25	12	18.19	18.37	18.15										
10	QPSK	25	25	18.33	18.31	18.03	19.8	0								
10	QPSK	50	0	18.21	18.25	18.03										
10	16QAM	1	0	18.30	18.07	18.03										
10	16QAM	1	49	18.39	18.48	18.07										
10	16QAM	25	0	18.25	18.40	18.18										
10	16QAM	25	12	18.19	18.37	18.15	19.8	0								
10	16QAM	25	25	18.42	18.49	18.08										
10	16QAM	50	0	18.17	18.38	18.28										
10	8QAM	1	0	18.20	18.25	18.25										
10	8QAM	1	25	18.11	18.25	18.11										
10	8QAM	1	49	18.33	18.36	18.11	19.8	0								
10	8QAM	25	0	18.03	18.38	18.16										
10	8QAM	25	12	18.39	18.37	17.99										
10	8QAM	25	25	17.91	18.13	18.05										
10	8QAM	50	0	17.95	18.35	17.84										
10	25QAM	1	0	17.73	17.79	17.77	19.3	0.5								
10	25QAM	1	25	17.84	17.77	17.77										
10	25QAM	1	49	17.87	17.87	17.89										
10	25QAM	25	0	17.74	17.79	17.74										
10	25QAM	25	12	17.85	17.87	17.87										
10	25QAM	25	25	17.87	17.89	17.74										
Channel																
Frequency (MHz)				39775	39805	39825										
				25715	25755	25795										
5	QPSK	1	0	18.41	18.53	18.33	19.8	0								
5	QPSK	1	12	18.21	18.38	18.16										
5	QPSK	1	24	18.17	18.28	18.09										
5	QPSK	12	0	18.26	18.36	18.27										
5	QPSK	12	7	18.30	18.38	18.17										
5	QPSK	12	13	18.23	18.22	18.03	19.8	0								
5	QPSK	25	0	18.10	18.36	18.03										
5	16QAM	1	0	18.14	18.01	18.22										
5	16QAM	1	12	18.02	18.39	18.04										
5	16QAM	1	24	18.01	18.27	18.01										
5	16QAM	12	7	17.96	18.28	18.18	19.8	0								
5	16QAM	12	13	18.35	18.32	18.22										
5	16QAM	25	0	18.08	18.14	18.05										
5	16QAM	25	0	18.10	18.47	18.02										
5	16QAM	25	13	18.32	18.30	18.06										
5	8QAM	1	0	18.09	18.36	17.98	19.8	0								
5	8QAM	1	12	18.09	18.36	17.98										
5	8QAM	12	7	17.86	18.28	18.18										
5	8QAM	12	13	18.11	18.14	18.00	19.8	0								
5	8QAM	25	0	17.95	18.41	17.98										
5	25QAM	1	0	17.63	17.82	17.61										
5	25QAM	1	12	17.69	17.80	17.80										
5	25QAM	1	24	17.84	17.86	17.80										
5	25QAM	12	7	17.74	17.83	17.74	19.3	0.5								
5	25QAM	12	13	17.85	17.87	17.85										
5	25QAM	12	25	17.87	17.89	17.79										
5	25QAM	25	0	17.76	17.84	17.83										
5	25QAM	25	13	17.88	17.84	17.83										
5	25QAM	50	0	17.89	17.80	17.80										
5	25QAM	50	25	17.89	17.89	17.80										



Band 42 FCC Part27Q Ant2 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel				42160	42960	42960				
Frequency (MHz)				3417.2	3500	3500				
20	QPSK	1	0	22.27	22.27	22.14	24	0		
20	QPSK	1	48	22.22	22.26	22.16				
20	QPSK	50	0	22.27	22.31	22.17	23	1		
20	QPSK	50	24	21.27	21.30	21.21				
20	QPSK	50	48	21.30	21.26	21.18	23	1		
20	QPSK	100	0	21.19	21.31	21.27				
20	16QAM	1	0	21.13	21.23	21.18	22	2		
20	16QAM	50	24	20.22	20.31	20.28				
20	16QAM	50	48	20.27	20.35	20.22	22	2		
20	16QAM	100	0	20.25	20.29	20.22				
20	64QAM	1	0	20.16	20.27	20.15	22	2		
20	64QAM	1	48	20.11	20.21	20.08				
20	64QAM	50	0	19.38	19.42	19.32	21	3		
20	64QAM	50	24	19.26	19.33	19.28				
20	64QAM	50	48	19.23	19.38	19.24	21	3		
20	64QAM	100	0	19.18	19.30	19.18				
20	256QAM	1	0	18.34	18.44	18.30	19	5		
20	256QAM	1	48	18.80	18.95	18.83				
20	256QAM	50	0	18.42	18.55	18.43	19	5		
20	256QAM	50	24	18.74	18.83	18.72				
20	256QAM	50	48	18.82	18.88	18.74	19	5		
20	256QAM	100	0	18.77	18.81	18.75				
20	256QAM	100	0	18.62	18.69	18.62				
Channel				42165	42960	43015				
Frequency (MHz)				3417.2	3500	3417.2				
15	QPSK	1	0	22.27	22.30	22.14	24	0		
15	QPSK	1	37	22.16	22.20	22.07				
15	QPSK	1	74	22.02	22.30	22.07	23	1		
15	QPSK	36	0	21.27	21.37	21.24				
15	QPSK	36	20	21.18	21.20	21.21	23	1		
15	QPSK	75	0	21.14	21.28	21.22				
15	16QAM	1	0	21.09	21.24	21.19	23	1		
15	16QAM	1	37	21.06	21.13	21.02				
15	16QAM	1	74	21.02	21.10	21.06	22	2		
15	16QAM	36	0	20.25	20.38	20.18				
15	16QAM	36	20	20.22	20.30	20.15	22	2		
15	16QAM	36	39	20.23	20.27	20.18				
15	16QAM	75	0	20.16	20.28	20.15	22	2		
15	64QAM	1	0	20.21	20.27	20.15				
15	64QAM	1	37	20.13	20.15	20.02	21	3		
15	64QAM	1	74	20.08	20.11	20.07				
15	64QAM	36	0	19.38	19.42	19.29	19	5		
15	64QAM	36	20	19.17	19.25	19.24				
15	64QAM	75	0	19.14	19.25	19.17	19	5		
15	256QAM	1	0	18.35	18.44	18.32				
15	256QAM	36	0	18.68	18.84	18.72	19	5		
15	256QAM	36	20	18.77	18.84	18.67				
15	256QAM	36	39	18.74	18.79	18.67	19	5		
15	256QAM	75	0	18.57	18.68	18.62				
Channel				42165	42960	43015				
Frequency (MHz)				3417.2	3500	3417.2				
10	QPSK	1	0	22.16	22.25	22.14	24	0		
10	QPSK	1	48	22.04	22.14	22.07				
10	QPSK	36	0	21.30	21.33	21.18	23	1		
10	QPSK	36	12	21.26	21.26	21.13				
10	QPSK	25	25	21.12	21.22	21.08	23	1		
10	QPSK	50	0	21.14	21.12	21.02				
10	16QAM	1	0	21.10	21.18	21.16	23	1		
10	16QAM	1	25	21.12	21.18	21.02				
10	16QAM	1	48	21.04	21.09	21.05	22	2		
10	16QAM	25	0	20.27	20.32	20.24				
10	16QAM	25	12	20.20	20.25	20.11	22	2		
10	16QAM	25	25	20.24	20.30	20.13				
10	16QAM	50	0	20.24	20.30	20.14	22	2		
10	64QAM	1	0	20.21	20.29	20.13				
10	64QAM	1	25	20.13	20.14	20.06	22	2		
10	64QAM	1	48	20.10	20.15	20.13				
10	64QAM	25	0	19.38	19.43	19.22	21	3		
10	64QAM	25	12	19.22	19.31	19.25				
10	64QAM	25	25	19.16	19.39	19.15	19	5		
10	256QAM	1	0	18.35	18.44	18.32				
10	256QAM	1	48	18.82	18.86	18.76	19	5		
10	256QAM	1	48	18.43	18.57	18.45				
10	256QAM	25	0	18.86	18.74	18.64	19	5		
10	256QAM	25	12	18.76	18.85	18.67				
10	256QAM	25	25	18.77	18.80	18.75	19	5		
10	256QAM	50	0	18.63	18.70	18.54				
Channel				42115	42960	43065				
Frequency (MHz)				34115	3500	34115				
5	QPSK	1	0	22.17	22.27	22.11	24	0		
5	QPSK	1	12	22.23	22.17	22.00				
5	QPSK	1	24	22.02	22.18	22.14	23	1		
5	QPSK	12	0	21.20	21.36	21.16				
5	QPSK	12	7	21.20	21.32	21.19	23	1		
5	QPSK	12	13	21.14	21.17	21.16				
5	QPSK	25	0	21.06	21.24	21.22	23	1		
5	16QAM	1	0	21.06	21.22	21.19				
5	16QAM	1	12	21.09	21.14	21.02	23	1		
5	16QAM	1	24	21.03	21.13	21.11				
5	16QAM	12	0	20.29	20.30	20.17	22	2		
5	16QAM	12	7	20.23	20.23	20.15				
5	16QAM	12	13	20.20	20.32	20.21	22	2		
5	16QAM	25	0	20.18	20.21	20.13				
5	64QAM	1	0	20.19	20.29	20.06	22	2		
5	64QAM	1	12	20.12	20.17	20.05				
5	64QAM	1	24	20.10	20.14	20.16	21	3		
5	64QAM	12	0	19.34	19.35	19.22				
5	64QAM	12	7	19.25	19.29	19.25	19	5		
5	256QAM	1	0	18.30	18.41	18.22				
5	256QAM	1	12	18.79	18.61	18.83	19	5		
5	256QAM	1	24	18.38	18.46	18.44				
5	256QAM	12	0	18.69	18.74	18.73	19	5		
5	256QAM	12	7	18.76	18.78	18.65				
5	256QAM	12	13	18.69	18.74	18.76	19	5		
5	256QAM	25	0	18.56	18.62	18.60				

Band 43 for FCC use Ant2 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel				44160	44160	44960						
20	QPSK	1	0	21.79	21.79	21.64			23	0		
20	QPSK	1	59	21.71	21.69	21.65						
20	QPSK	1	99	21.65	21.64	21.59						
20	QPSK	50	0	20.83	20.83	20.65						
20	QPSK	50	24	20.83	20.87	20.77						
20	QPSK	50	50	20.73	20.82	20.78						
20	QPSK	50	75	20.65	20.82	20.78						
20	16QAM	1	0	20.59	20.69	20.54						
20	16QAM	1	49	20.59	20.69	20.54						
20	16QAM	1	99	20.52	20.62	20.54						
20	16QAM	50	0	19.84	19.76	19.61			21	2		
20	16QAM	50	24	19.84	19.84	19.64						
20	16QAM	50	50	19.58	19.72	19.68						
20	16QAM	100	0	19.55	19.68	19.51						
20	16QAM	100	50	19.55	19.69	19.69						
20	64QAM	1	49	19.49	19.63	19.51						
20	64QAM	1	99	19.48	19.59	19.49						
20	64QAM	50	0	18.62	18.73	18.63						
20	64QAM	50	24	18.53	18.64	18.57						
20	64QAM	50	50	18.45	18.59	18.45						
20	64QAM	100	0	18.48	18.61	18.45			18	5		
20	256QAM	1	0	17.22	17.37	17.26						
20	256QAM	1	49	17.24	17.31	17.26						
20	256QAM	1	99	17.18	17.28	17.17						
20	256QAM	50	0	17.26	17.32	17.22						
20	256QAM	50	24	17.22	17.28	17.22						
20	256QAM	50	50	17.17	17.28	17.15						
20	256QAM	100	0	17.21	17.27	17.21						
Channel				44165	44950	45014						
Frequency (MHz)				21.73	21.73	21.64					23	0
10	QPSK	1	0	21.73	21.73	21.64						
10	QPSK	1	37	21.61	21.67	21.52						
10	QPSK	1	74	21.57	21.61	21.51						
10	QPSK	50	0	20.68	20.68	20.68						
10	QPSK	50	20	20.69	20.81	20.69						
10	QPSK	50	40	20.69	20.72	20.72						
10	QPSK	75	0	20.65	20.73	20.65						
10	16QAM	1	0	20.47	20.60	20.43						
10	16QAM	1	37	20.48	20.49	20.38						
10	16QAM	1	74	20.48	20.49	20.47						
10	16QAM	50	0	19.59	19.66	19.48			21	2		
10	16QAM	50	20	19.49	19.57	19.49						
10	16QAM	50	39	19.55	19.94	19.54						
10	16QAM	75	0	19.42	19.44	19.37						
10	64QAM	1	19	19.42	19.61	19.41						
10	64QAM	1	37	19.39	19.50	19.38						
10	64QAM	1	74	19.43	19.53	19.43						
10	64QAM	50	0	18.50	18.67	18.53						
10	64QAM	50	20	18.44	18.68	18.51						
10	64QAM	50	39	18.43	18.62	18.41						
10	64QAM	75	0	18.36	18.49	18.45			18	5		
10	256QAM	1	0	17.09	17.24	17.13						
10	256QAM	1	37	17.05	17.15	17.07						
10	256QAM	1	74	17.06	17.24	17.08						
10	256QAM	50	0	17.11	17.22	17.12						
10	256QAM	50	20	17.05	17.12	17.05						
10	256QAM	50	39	17.05	17.13	17.09						
10	256QAM	75	0	17.05	17.13	17.03						
Channel				44160	44950	45014						
Frequency (MHz)				21.72	21.72	21.64					23	0
10	QPSK	1	0	21.72	21.72	21.64						
10	QPSK	1	26	21.61	21.67	21.52						
10	QPSK	1	49	21.62	21.67	21.48						
10	QPSK	50	0	20.68	20.68	20.68						
10	QPSK	50	12	20.70	20.77	20.73						
10	QPSK	50	26	20.70	20.77	20.73						
10	QPSK	60	0	20.73	20.82	20.71						
10	16QAM	1	0	20.46	20.62	20.43						
10	16QAM	1	49	20.46	20.49	20.38						
10	16QAM	1	99	20.41	20.46	20.45						
10	16QAM	25	0	19.56	19.62	19.32			21	2		
10	16QAM	25	12	19.44	19.54	19.44						
10	16QAM	25	25	19.51	19.66	19.59						
10	16QAM	50	0	18.48	18.49	18.49						
10	64QAM	1	9	19.52	19.62	19.45						
10	64QAM	1	25	19.41	19.58	19.42						
10	64QAM	1	49	19.34	19.43	19.39						
10	64QAM	25	0	18.57	18.69	18.52						
10	64QAM	25	12	18.44	18.60	18.52						
10	64QAM	50	0	18.35	18.47	18.49						
10	256QAM	1	0	17.13	17.26	17.14			18	5		
10	256QAM	1	26	17.11	17.21	17.17						
10	256QAM	1	49	17.07	17.26	17.04						
10	256QAM	25	0	17.12	17.21	17.12						
10	256QAM	25	12	17.01	17.16	17.04						
10	256QAM	25	25	17.01	17.17	17.07						
10	256QAM	50	0	17.09	17.15	17.09						
10	256QAM	50	12	17.09	17.18	17.09						
Channel				44115	44910	45014						
Frequency (MHz)				21.69	21.69	21.66					23	0
5	QPSK	1	0	21.69	21.69	21.66						
5	QPSK	1	12	21.63	21.70	21.52						
5	QPSK	1	24	21.63	21.69	21.59						
5	QPSK	12	0	20.70	20.80	20.74						
5	QPSK	12	7	20.73	20.83	20.64						
5	QPSK	25	0	20.63	20.83	20.66						
5	QPSK	25	0	20.67	20.71	20.64						
5	16QAM	1	0	20.47	20.64	20.43						
5	16QAM	1	12	20.48	20.63	20.42						
5	16QAM	1	24	20.46	20.49	20.39						
5	16QAM	1	36	20.46	20.49	20.46			22	1		
5	16QAM	12	7	19.45	19.45	19.45						
5	16QAM	12	13	19.48	19.59	19.48						
5	64QAM	1	12	19.42	19.67	19.47						
5	64QAM	1	5	19.56	19.57	19.42						
5	64QAM	1	12	19.40	19.53	19.45						
5	64QAM	12	13	18.50	18.74	18.50						
5	64QAM	12	0	18.49	18.59	18.49						
5	64QAM	25	0	18.30	18.53	18.45						
5	256QAM	1	0	17.13	17.23	17.13						
5	256QAM	1	12	17.18	17.27	17.14			18	5		
5	256QAM	1	24	17.09	17.23	17.11						
5	256QAM	12	13	17.17	17.22	17.08						
5	256QAM	12	7	17.04	17.18	17.07						
5	256QAM	12	13	17.13	17.17	17.06						
5	256QAM	25	0	17.17	17.22	17.04						



GBM1900 AHD DB10							
GBM1900 Tx Channel	Beam Average Power (dBm)			Turn-up Leak (dBm)	Frame Average Power (dBm)		
Frequency (MHz)	810.2	861	810.2		810.2	861	810.2
GBM 1 Tx min	23.55	25.62	25.52	26.10	18.95	18.96	17.10
GBM 1 Tx max	23.94	25.97	25.60	26.70	18.64	18.97	17.10
GBM 2 Tx min	22.94	22.46	22.41	23.60	18.34	18.46	18.41
GBM 3 Tx min	20.97	20.84	20.42	22.70	16.31	16.38	16.16
GBM 4 Tx min	19.54	18.59	19.50	19.50	16.94	16.59	16.50
EDGE 1 Tx min	21.40	20.01	21.43	20.01	17.40	17.40	17.40
EDGE 2 Tx min	22.44	22.41	22.30	23.92	18.44	18.41	18.30
EDGE 3 Tx min	21.53	21.53	21.47	22.00	17.27	17.27	17.21
EDGE 4 Tx min	21.45	20.11	21.42	20.00	17.45	17.41	17.42

WCMA II AHD DB10							WCMA IV AHD DB10						
Beam	WCMA II			WCMA IV			Turn-up	WCMA IV			Turn-up		
Tx Channel	8652	9400	5838	1512	1415	1513	Leak	1512	1415	1513	Leak		
Freq (MHz)	9652.4	9660	9668	1537	1516	1739	(dBm)	1516	1739	1738	(dBm)		
SOPP Rel 99	17.04	17.17	17.14	18.50	20.20	20.21	20.22	20.20	20.21	20.22	20.22		
SOPP Rel 95	17.51	17.70	17.65	18.76	20.32	20.35	20.34	20.32	20.35	20.34	20.34		
SOPP Rel 6	16.26	16.24	16.25	17.59	19.28	19.23	19.25	19.28	19.23	19.25	19.25		
SOPP Rel 6	16.22	16.24	16.16	17.59	19.28	19.25	19.25	19.28	19.25	19.25	19.25		
SOPP Rel 6	15.74	15.65	15.74	17.00	18.77	18.70	18.66	18.77	18.70	18.67	18.66		
SOPP Rel 6	15.60	15.60	15.63	17.00	18.80	18.80	18.77	18.80	18.80	18.77	18.77		
SOPP Rel 6	15.70	15.72	15.75	17.00	19.25	19.28	19.24	19.25	19.28	19.24	19.25		
SOPP Rel 6	16.34	16.37	16.27	17.50	19.23	19.32	19.27	19.23	19.32	19.27	19.27		
SOPP Rel 6	15.74	15.76	15.69	17.00	18.80	18.81	18.79	18.80	18.81	18.79	18.79		
SOPP Rel 6	15.63	15.73	15.76	17.00	18.76	18.76	18.61	18.76	18.76	18.61	18.61		
SOPP Rel 6	16.12	16.27	16.31	17.50	19.24	19.32	19.26	19.24	19.32	19.26	19.26		
SOPP Rel 6	15.53	15.55	15.53	15.50	17.20	17.26	17.26	17.20	17.26	17.26	17.26		
SOPP Rel 6	15.26	15.44	15.13	16.50	16.23	16.25	16.21	16.23	16.25	16.21	16.21		
SOPP Rel 6	14.19	14.34	14.34	15.50	17.26	17.36	17.29	17.26	17.36	17.29	17.29		
SOPP Rel 6	16.34	16.28	16.28	17.50	19.24	19.25	19.24	19.24	19.25	19.24	19.24		



Band 2 Ant3 DS1010									
BW [MHz]	Modulation	RB Size	RB Offset	Power Min [dBm]	Power Max [dBm]	Power Avg [dBm]	Turn-up Time [sec]	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	17.53	17.63	17.58	18.8	0	
20	QPSK	1	49	17.40	17.46	17.41			
20	QPSK	1	99	17.35	17.39	17.33			
20	QPSK	50	0	17.37	17.57	17.54			
20	QPSK	50	24	17.22	17.25	17.30			
20	QPSK	50	50	17.35	17.29	17.28			
20	QPSK	100	0	17.33	17.55	17.38			
20	QPSK	100	24	17.33	17.39	17.36			
20	16QAM	1	49	17.33	17.23	17.28	18.8	0	
20	16QAM	50	99	17.22	17.37	17.34			
20	16QAM	50	24	17.20	17.25	17.22			
20	16QAM	50	50	17.32	17.41	17.26	18.8	0	
20	16QAM	100	0	17.25	17.35	17.30			
20	64QAM	1	0	17.33	17.25	17.19			
20	64QAM	1	49	17.36	17.26	17.40	18.8	0	
20	64QAM	1	99	17.28	17.36	17.27			
20	64QAM	50	0	17.21	17.51	17.32			
20	64QAM	50	24	17.18	17.43	17.43	18.8	0	
20	64QAM	50	50	17.21	17.27	17.18			
20	256QAM	1	0	17.30	17.40	17.47			
20	256QAM	1	49	17.28	17.36	17.27			
20	256QAM	50	24	17.35	17.45	17.52			
20	256QAM	50	50	17.21	17.27	17.18	18.8	0	
20	256QAM	100	0	17.24	17.40	17.43			
Channel									
Frequency [MHz]									
15	QPSK	1	0	16.67	16.68	16.63	18.8	0	
15	QPSK	1	0	17.40	17.40	17.42			
15	QPSK	1	49	17.37	17.37	17.38			
15	QPSK	1	74	17.16	17.37	17.42			
15	QPSK	36	0	17.18	17.41	17.42	18.8	0	
15	QPSK	36	24	17.18	17.40	17.40			
15	QPSK	36	39	17.31	17.08	17.21			
15	QPSK	75	0	17.23	17.38	17.21			
15	16QAM	1	1	17.23	17.27	17.18	18.8	0	
15	16QAM	1	37	17.22	17.05	17.01			
15	16QAM	1	74	17.17	17.37	17.36			
15	16QAM	36	24	17.27	17.20	17.27			
15	16QAM	36	20	17.26	17.52	17.03	18.8	0	
15	16QAM	75	0	17.15	17.25	17.20			
15	64QAM	1	0	17.28	17.23	17.02			
15	64QAM	1	37	17.25	17.05	17.01	18.8	0	
15	64QAM	1	74	17.08	17.34	17.22			
15	64QAM	36	24	17.05	17.28	17.04			
15	64QAM	36	20	17.07	17.37	17.05	18.8	0	
15	64QAM	36	39	17.17	17.19	17.12			
15	64QAM	75	0	17.11	17.27	17.13			
Channel									
Frequency [MHz]									
15	QPSK	1	0	16.65	16.65	16.65	18.8	0	
15	QPSK	1	25	17.23	17.39	17.41			
15	QPSK	1	49	17.19	17.20	17.29			
15	QPSK	1	74	17.28	17.38	17.42			
15	QPSK	25	12	17.05	17.11	17.22			
15	QPSK	25	25	17.29	17.23	17.24			
15	QPSK	25	39	17.21	17.40	17.38	18.8	0	
15	16QAM	1	0	17.12	17.21	17.14			
15	16QAM	1	25	17.29	17.20	17.19			
15	16QAM	25	12	17.24	17.33	17.23	18.8	0	
15	16QAM	25	12	17.24	17.34	17.04			
15	16QAM	25	12	17.19	17.28	17.04			
15	16QAM	50	0	17.24	17.14	17.29			
15	64QAM	1	0	17.37	17.38	17.49			
15	64QAM	1	49	17.37	17.35	17.37	18.8	0	
15	64QAM	1	49	17.22	17.48	17.40			
15	64QAM	25	0	17.23	17.26	16.98			
15	64QAM	25	25	17.22	17.38	17.23	18.8	0	
15	64QAM	50	0	17.27	17.07	17.29			
15	256QAM	1	25	17.10	17.25	17.07			
15	256QAM	1	25	17.00	17.11	17.35	18.8	0	
15	256QAM	25	12	17.08	17.25	17.07			
15	256QAM	25	12	17.05	17.25	17.05	18.8	0	
15	256QAM	25	25	17.20	17.25	17.48			
15	256QAM	25	25	17.20	17.25	17.48			
15	256QAM	50	0	17.11	17.28	17.08	18.8	0	
Channel									
Frequency [MHz]									
5	QPSK	1	0	17.48	17.48	17.37	18.8	0	
5	QPSK	1	12	17.27	17.48	17.34			
5	QPSK	1	24	17.25	17.30	17.34			
5	QPSK	12	12	17.43	17.43	17.43			
5	QPSK	12	7	17.21	17.30	17.33			
5	QPSK	12	13	17.21	17.46	17.38	18.8	0	
5	QPSK	12	14	17.34	17.47	17.45			
5	16QAM	1	0	17.26	17.28	17.09			
5	16QAM	1	12	17.30	17.17	17.14	18.8	0	
5	16QAM	1	12	17.05	17.28	17.30			
5	16QAM	12	0	17.26	17.30	17.32			
5	16QAM	12	7	17.17	17.24	17.07			
5	16QAM	12	13	17.14	17.32	17.08	18.8	0	
5	16QAM	25	0	17.25	17.31	17.04			
5	64QAM	1	0	17.21	17.34	17.13			
5	64QAM	1	12	17.15	17.39	17.45	18.8	0	
5	64QAM	1	24	17.18	17.19	17.28			
5	64QAM	12	0	17.28	17.29	17.11			
5	64QAM	12	13	17.16	17.27	17.45	18.8	0	
5	64QAM	25	0	17.27	17.41	17.45			
5	64QAM	25	0	17.09	17.46	17.16			
5	64QAM	25	0	17.17	17.29	17.45			
5	256QAM	1	12	17.01	17.27	17.07	18.8	0	
5	256QAM	1	24	17.11	17.15	17.22			
5	256QAM	12	13	17.16	17.33	17.35			
5	256QAM	12	7	17.17	17.25	17.36	18.8	0	
5	256QAM	12	13	17.21	17.41	17.08			
5	256QAM	25	0	17.19	17.28	17.45			
Channel									
Frequency [MHz]									
3	QPSK	1	0	17.26	17.50	17.43	18.8	0	
3	QPSK	1	8	17.40	17.40	17.34			
3	QPSK	1	14	17.14	17.37	17.30			
3	QPSK	8	0	17.28	17.47	17.53	18.8	0	
3	QPSK	8	4	17.35	17.31	17.21			
3	QPSK	8	7	17.25	17.53	17.52			
3	QPSK	8	7	17.30	17.42	17.29			
3	16QAM	1	0	17.31	17.28	17.15			
3	16QAM	1	8	17.12	17.14	17.21	18.8	0	
3	16QAM	1	8	17.23	17.26	17.16			
3	16QAM	14	0	17.30	17.46	17.29			
3	16QAM	14	2	17.22	17.25	17.16	18.8	0	
3	16QAM	14	2	17.29	17.21	17.28			
3	16QAM	14	4	17.21	17.25	16.98	18.8	0	
3	16QAM	8	7	17.36	17.15	17.30			
3	16QAM	15	0	17.22	17.23	17.12			
3	64QAM	1	0	17.16	17.37	17.16			
3	64QAM	1	8	17.38	17.57	17.35	18.8	0	
3	64QAM	1	14	17.20	17.08	17.17			
3	64QAM	8	0	17.25	17.29	17.35			
3	64QAM	8	7	17.15	17.36	17.40	18.8	0	
3	64QAM	8	7	17.18	17.29	17.35			
3	256QAM	1	0	17.25	17.28	17.34			
3	256QAM	1	8	17.18	17.25	17.35	18.8	0	
3	256QAM	8	0	17.15	17.40	17.35			
3	256QAM	8	4	17.06	17.38	17.40			
3	256QAM	8	4	17.05	17.28	17.07	18.8	0	
3	256QAM	15	0	17.25	17.40	17.35			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	17.45	17.52	17.48	18.8	0	
1.4	QPSK	1	3	17.21	17.25	17.37			
1.4	QPSK	1	5	17.25	17.30	17.28			
1.4	QPSK	3	0	17.18	17.43	17.45	18.8	0	
1.4	QPSK	3	1	17.14	17.24	17.09			
1.4	QPSK	6	16	17.14	17.26	17.09			
1.4	16QAM	1	0	17.36	17.15	17.17	18.8	0	
1.4	16QAM	1	3	17.23	17.26	17.16			
1.4	16QAM	1	5	17.25	17.30	17.21			
1.4	16QAM	3	0	17.32	17.26	17.18	18.8	0	
1.4	16QAM	3	3	17.32	17.17	17.35			
1.4	16QAM	3	3	17.32	17.17	17.35			
1.4	16QAM	6	0	17.29	17.21	17.30	18.8	0	
1.4	16QAM	6	4	17.19	17.26	17.49			
1.4	16QAM	6	4	17.22	17.44	17.16			
1.4	16QAM	6	7	17.05	17.46	17.16			
1.4	16QAM	6	7	17.08	17.11	17.27	18.8	0	
1.4	16QAM	15	0	17.30	17.21	17.43			
1.4	16QAM	15	0	17.19	17.26	17.49			
1.4	16QAM	15	0	17.22	17.44	17.16			
1.4	16QAM	15	0	17.25	17.36	17.18	18.8	0	
1.4	16QAM	15	0	17.30	17.41	17.41			
1.4	16QAM	15	0	17.21	17.32	17.32			
1.4	16QAM	15	0	17.26	17.32	17.09			
1.4	16QAM	30	1	17.08	17.22	17.41			
1.4	16QAM	30	1	17.16	17.33	17.38			
1.4	16QAM	30	1	17.08	17.11	17.27	18.8	0	
1.4	16QAM	30	1	17.10	17.16	17.27			
1.4	16QAM	30	1	17.10	17.16	17.27			
1.4	16QAM	30	1	17.10	17.16	17.27			
1.4	16QAM	30	1	17.10	17.1				

Band 66 Ant3 DSI10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Turn-up limit (dBm)	APPR (dB)			
Channel											
Frequency (MHz)				1720	1748	1772					
20	QPSK	1	0	17.26	17.28	17.28		18.2	0		
20	QPSK	1	48	17.01	17.13	17.13					
20	QPSK	1	99	17.02	17.16	16.93					
20	QPSK	50	0	17.02	17.25	16.96					
20	QPSK	50	24	16.87	17.19	17.14		18.2	0		
20	QPSK	50	50	17.02	17.20	16.92					
20	QPSK	100	0	17.10	17.20	17.07					
20	16QAM	1	0	17.03	17.26	17.25					
20	16QAM	1	48	16.92	17.11	16.88		18.2	0		
20	16QAM	1	99	16.90	17.17	17.14					
20	16QAM	50	0	16.94	17.17	16.98					
20	16QAM	50	24	17.12	17.22	16.92					
20	16QAM	50	50	17.00	17.24	17.01		18.2	0		
20	16QAM	100	0	17.05	17.05	17.00					
20	64QAM	1	0	16.99	17.24	16.92					
20	64QAM	1	48	17.07	17.25	17.04		18.2	0		
20	64QAM	1	99	16.99	17.18	17.03					
20	64QAM	50	0	17.07	17.18	17.10					
20	64QAM	50	24	17.03	17.01	16.91					
20	64QAM	50	50	16.90	17.25	16.90		18.2	0		
20	64QAM	100	0	16.92	17.27	17.07					
Channel											
Frequency (MHz)				1717.5	1746	1772.5	Turn-up limit (dBm)	APPR (dB)			
15	QPSK	1	0	16.98	17.10	17.02		18.2	0		
15	QPSK	1	37	16.95	16.98	16.79					
15	QPSK	1	74	17.03	17.10	16.82					
15	QPSK	36	0	16.96	17.18	16.81					
15	QPSK	36	20	16.69	17.00	17.03		18.2	0		
15	QPSK	36	39	17.04	17.16	16.84					
15	QPSK	75	0	16.97	17.29	17.06					
15	16QAM	1	0	17.00	17.14	17.05					
15	16QAM	1	37	16.76	17.09	16.84		18.2	0		
15	16QAM	1	74	16.69	16.99	16.93					
15	16QAM	36	0	16.73	16.99	16.93					
15	16QAM	36	20	17.14	17.05	16.83					
15	16QAM	36	39	16.98	17.16	17.02		18.2	0		
15	16QAM	75	0	17.04	17.04	16.90					
15	64QAM	1	0	17.01	16.96	16.91					
15	64QAM	1	37	16.94	16.92	16.77					
15	64QAM	1	74	16.93	16.97	16.95		18.2	0		
15	64QAM	36	0	16.95	16.98	17.06					
15	64QAM	36	20	16.86	16.98	16.73					
15	64QAM	36	39	17.04	17.10	16.75					
15	64QAM	75	0	17.01	17.04	16.83		18.2	0		
15	256QAM	1	0	16.77	17.24	16.76					
15	256QAM	1	37	16.91	17.14	16.99					
15	256QAM	1	74	16.98	17.19	16.99		18.2	0		
15	256QAM	36	0	16.92	17.16	16.96					
15	256QAM	36	20	16.84	16.94	16.74					
15	256QAM	36	39	16.79	17.09	16.77					
15	256QAM	75	0	16.77	16.87	16.76					
Channel											
Frequency (MHz)				1715	1745	1775	Turn-up limit (dBm)	APPR (dB)			
10	QPSK	1	0	17.17	17.18	17.12		18.2	0		
10	QPSK	1	25	16.89	17.04	16.99					
10	QPSK	1	48	16.96	17.05	16.93					
10	QPSK	25	0	16.96	17.12	16.98					
10	QPSK	25	12	16.86	17.06	17.03		18.2	0		
10	QPSK	25	25	16.96	17.16	16.84					
10	QPSK	50	0	16.96	17.14	16.90					
10	16QAM	1	0	16.82	17.23	17.23					
10	16QAM	1	25	16.78	17.06	16.87		18.2	0		
10	16QAM	1	48	16.86	17.11	16.96					
10	16QAM	25	0	16.80	16.98	16.79					
10	16QAM	25	12	17.09	17.21	16.76					
10	16QAM	25	25	16.80	17.06	17.06		18.2	0		
10	16QAM	50	0	16.91	16.89	17.01					
10	256QAM	1	0	16.84	17.20	16.87					
10	256QAM	1	25	17.06	17.19	17.03		18.2	0		
10	256QAM	1	48	16.86	17.17	16.89					
10	256QAM	25	0	17.00	17.16	17.05					
10	256QAM	25	12	16.94	16.88	16.86					
10	256QAM	25	25	16.74	17.24	16.81					
Channel											
Frequency (MHz)				1719.67	1749.68	1769.67	Turn-up limit (dBm)	APPR (dB)			
5	QPSK	1	0	17.23	17.10	17.14		18.2	0		
5	QPSK	1	12	17.00	17.02	17.07					
5	QPSK	1	24	16.88	17.08	16.84					
5	QPSK	12	0	16.99	17.20	16.96					
5	QPSK	12	7	16.75	17.02	17.02		18.2	0		
5	QPSK	12	13	16.86	17.00	16.80					
5	QPSK	25	0	17.07	17.19	17.05					
5	16QAM	1	0	16.98	17.06	17.05					
5	16QAM	1	12	16.71	17.08	16.84		18.2	0		
5	16QAM	1	24	16.88	17.04	16.95					
5	16QAM	12	0	16.84	17.01	16.97					
5	16QAM	12	7	17.13	17.11	16.94					
5	16QAM	12	13	16.83	17.26	17.02		18.2	0		
5	16QAM	25	0	17.01	16.97	16.98					
5	64QAM	1	0	17.04	17.03	17.00					
5	64QAM	1	12	16.96	17.06	16.98		18.2	0		
5	64QAM	1	24	16.89	17.16	17.05					
5	64QAM	12	0	17.01	17.08	16.84					
5	64QAM	12	7	16.79	17.04	16.96					
5	64QAM	12	13	16.94	17.17	17.07		18.2	0		
5	64QAM	25	0	16.89	16.96	16.84					
5	256QAM	1	0	16.87	17.21	16.88					
5	256QAM	1	12	16.94	17.19	17.01					
5	256QAM	1	24	16.83	17.02	16.94		18.2		0	
5	256QAM	12	0	17.04	17.05	16.98					
5	256QAM	12	7	16.88	16.93	16.93					
5	256QAM	12	13	16.82	17.19	16.71					
5	256QAM	25	0	16.91	17.02	16.96					
Channel											
Frequency (MHz)				1719.67	1749.68	1769.67	Turn-up limit (dBm)	APPR (dB)			
Frequency (MHz)				1710.7	1745	1776.3					
3	QPSK	1	0	17.06	17.17	17.11		18.2	0		
3	QPSK	1	8	16.99	17.16	16.96					
3	QPSK	1	14	16.97	17.07	16.79					
3	QPSK	8	0	16.97	16.90	17.17					
3	QPSK	8	4	16.84	17.16	16.76		18.2	0		
3	16QAM	1	0	16.92	17.08	16.83		18.2	0		
3	16QAM	1	8	16.85	17.14	16.94					
3	16QAM	8	0	16.70	17.04	17.04					
3	16QAM	8	4	16.73	16.98	17.02					
3	16QAM	1	14	16.85	16.97	17.02		18.2	0		
3	16QAM	1	18	16.71	16.85	16.94					
3	16QAM	8	4	17.03	17.13	16.78					
3	16QAM	8	7	16.86	17.09	16.94					
3	16QAM	1	18	17.07	17.06	16.92		18.2	0		
3	16QAM	8	0	17.07	17.11	16.82					
3	16QAM	8	7	17.02	17.00	16.74					
3	16QAM	8	14	17.13	17.03	17.00		18.2	0		
3	16QAM	8	18	17.20	17.08	17.00					
3	16QAM	16	0	17.06	16.86	16.96					
3	16QAM	16	4	16.78	17.02	16.97					
3	256QAM	1	0	17.02	17.02	17.04		18.2	0		
3	256QAM	1	8	16.74	17.14	16.74					
3	256QAM	1	14	16.87	17.12	16.91					
3	256QAM	8	0	16.95	16.83	16.93					
3	256QAM	8	7	16.73	17.16	16.84		18.2	0		
3	256QAM	8	14	16.82	16.92	16.92					
3	256QAM	8	18	16.82	17.01	17.08					



Band 38 Ant3 DSI10													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)					
Channel													
Frequency (MHz)				39760	39800	39160							
20	QPSK	1	0	18.71	18.74	18.71	19.8	0					
20	QPSK	1	49	18.51	18.57	18.54							
20	QPSK	1	99	18.45	18.50	18.55							
20	QPSK	50	0	18.65	18.72	18.62							
20	QPSK	50	24	18.62	18.71	18.64	19.8	0					
20	QPSK	50	50	18.46	18.53	18.53							
20	QPSK	100	0	18.58	18.61	18.63							
20	16QAM	1	0	18.57	18.54	18.56							
20	16QAM	1	49	18.47	18.56	18.53	19.8	0					
20	16QAM	1	99	18.44	18.46	18.55							
20	16QAM	50	0	18.51	18.58	18.51							
20	16QAM	50	24	18.45	18.60	18.70							
20	16QAM	50	50	18.56	18.66	18.71	19.8	0					
20	16QAM	100	0	18.49	18.59	18.56							
20	16QAM	1	0	18.57	18.52	18.60							
20	16QAM	1	49	18.55	18.68	18.58							
20	16QAM	50	0	18.52	18.62	18.50	19.8	0					
20	16QAM	50	24	18.58	18.44	18.56							
20	16QAM	100	0	18.48	18.52	18.49							
20	256QAM	1	0	18.46	18.36	18.58							
20	256QAM	1	49	18.32	18.31	18.72	19.8	0					
20	256QAM	1	99	18.56	18.53	18.68							
20	256QAM	50	0	18.52	18.67	18.60							
20	256QAM	50	24	18.63	18.73	18.69							
20	256QAM	50	50	18.47	18.47	18.61	19.8	0					
20	256QAM	100	0	18.47	18.46	18.58							
Channel													
Frequency (MHz)				39725	39800	39175							
15	QPSK	1	0	18.53	18.54	18.43	19.8	0					
15	QPSK	1	37	18.38	18.50	18.44							
15	QPSK	1	74	18.40	18.49	18.34							
15	QPSK	36	0	18.48	18.51	18.61							
15	QPSK	36	20	18.58	18.70	18.46	19.8	0					
15	QPSK	75	0	18.47	18.48	18.42							
15	QPSK	75	0	18.43	18.47	18.43							
15	16QAM	1	0	18.59	18.42	18.41							
15	16QAM	1	37	18.29	18.50	18.50	19.8	0					
15	16QAM	1	74	18.41	18.48	18.37							
15	16QAM	36	0	18.36	18.46	18.42							
15	16QAM	36	20	18.25	18.49	18.50							
15	16QAM	36	39	18.54	18.35	18.51	19.8	0					
15	16QAM	75	0	18.34	18.35	18.48							
15	16QAM	75	0	18.25	18.49	18.50							
15	16QAM	1	37	18.29	18.51	18.52							
15	256QAM	1	0	18.34	18.46	18.55	19.8	0					
15	256QAM	1	37	18.29	18.50	18.50							
15	256QAM	1	74	18.48	18.48	18.47							
15	256QAM	36	0	18.48	18.60	18.45							
15	256QAM	36	20	18.54	18.54	18.50	19.8	0					
15	256QAM	36	39	18.44	18.28	18.58							
15	256QAM	75	0	18.50	18.36	18.39							
Channel													
Frequency (MHz)				39760	39800	39200							
10	QPSK	1	0	18.57	18.57	18.57	19.8	0					
10	QPSK	1	25	18.37	18.37	18.40							
10	QPSK	1	49	18.57	18.43	18.49							
10	QPSK	25	0	18.55	18.54	18.55							
10	QPSK	25	12	18.58	18.61	18.52	19.8	0					
10	QPSK	25	25	18.25	18.40	18.49							
10	QPSK	50	0	18.57	18.62	18.40							
10	16QAM	1	0	18.48	18.43	18.56							
10	16QAM	1	25	18.32	18.50	18.63	19.8	0					
10	16QAM	1	49	18.41	18.37	18.46							
10	16QAM	25	0	18.49	18.52	18.48							
10	16QAM	25	12	18.35	18.44	18.53							
10	16QAM	50	0	18.47	18.44	18.53	19.8	0					
10	16QAM	50	0	18.47	18.44	18.53							
10	16QAM	50	0	18.47	18.44	18.53							
10	16QAM	50	0	18.47	18.44	18.53							
10	16QAM	25	12	18.54	18.26	18.47	19.8	0					
10	16QAM	25	25	18.50	18.58	18.42							
10	16QAM	50	0	18.45	18.53	18.33							
10	256QAM	1	0	18.27	18.35	18.46							
10	256QAM	1	25	18.35	18.39	18.65	19.8	0					
10	256QAM	1	49	18.34	18.38	18.48							
10	256QAM	25	0	18.39	18.58	18.57							
10	256QAM	25	12	18.42	18.70	18.63							
10	256QAM	25	25	18.31	18.34	18.37	19.8	0					
10	256QAM	50	0	18.42	18.37	18.60							
10	256QAM	50	0	18.42	18.37	18.60							
Channel													
Frequency (MHz)				39775	39800	39220							
5	QPSK	1	0	18.63	18.58	18.59	19.8	0					
5	QPSK	1	12	18.45	18.49	18.44							
5	QPSK	1	24	18.63	18.44	18.52							
5	QPSK	12	0	18.55	18.61	18.53							
5	QPSK	12	7	18.59	18.60	18.64	19.8	0					
5	QPSK	12	13	18.48	18.50	18.48							
5	QPSK	25	0	18.40	18.48	18.48							
5	QPSK	25	0	18.38	18.38	18.57							
5	16QAM	1	12	18.35	18.48	18.53	19.8	0					
5	16QAM	1	24	18.23	18.33	18.50							
5	16QAM	12	0	18.51	18.60	18.52							
5	16QAM	12	7	18.46	18.40	18.64							
5	16QAM	12	13	18.40	18.67	18.55	19.8	0					
5	16QAM	25	0	18.38	18.52	18.39							
5	16QAM	25	0	18.47	18.39	18.59							
5	16QAM	25	7	18.45	18.63	18.48							
5	16QAM	1	24	18.42	18.57	18.64	19.8	0					
5	16QAM	12	0	18.26	18.67	18.61							
5	16QAM	12	7	18.35	18.43	18.52							
5	16QAM	12	13	18.35	18.47	18.54							
5	16QAM	25	0	18.30	18.34	18.40	19.8	0					
5	256QAM	1	0	18.39	18.52	18.52							
5	256QAM	1	12	18.41	18.48	18.63							
5	256QAM	1	24	18.35	18.48	18.57							
5	256QAM	12	0	18.34	18.38	18.45	19.8	0					
5	256QAM	12	7	18.54	18.67	18.61							
5	256QAM	12	13	18.30	18.36	18.33	19.8	0					
5	256QAM	12	13	18.49	18.49	18.53							



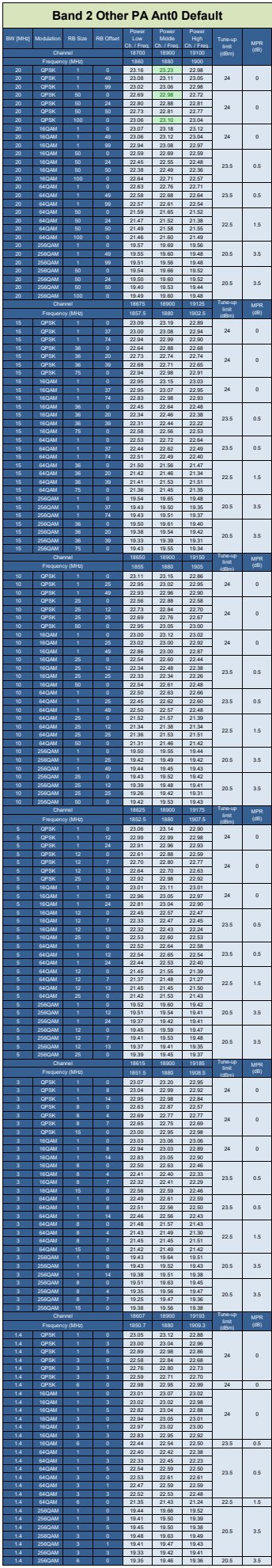
Band 42 FCC Part27Q Ant3 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	14.09	14.10	14.13	15.4	0	
20	QPSK	1	49	13.99	14.00	13.91			
20	QPSK	50	0	13.91	14.00	13.99	15.4	0	
20	QPSK	50	50	13.99	14.12	13.97			
20	QPSK	50	24	13.97	13.87	13.86			
20	QPSK	50	1	13.91	14.03	13.93	15.4	0	
20	QPSK	100	0	13.79	14.00	13.92			
20	16QAM	1	0	13.94	13.79	13.77	15.4	0	
20	16QAM	1	49	13.86	14.00	14.01			
20	16QAM	1	99	13.85	13.92	13.98			
20	16QAM	50	24	14.02	13.99	13.84	15.4	0	
20	16QAM	50	50	14.00	13.78	13.66			
20	16QAM	50	1	13.77	14.02	13.75			
20	64QAM	1	0	13.85	14.05	13.85			
20	64QAM	1	49	13.97	13.85	13.94	15.4	0	
20	64QAM	1	99	13.95	13.99	13.77			
20	64QAM	50	5	13.88	14.03	14.02			
20	64QAM	50	24	13.95	13.79	13.78	15.4	0	
20	64QAM	50	50	13.82	13.98	13.69			
20	64QAM	100	0	14.08	13.93	13.86			
20	256QAM	1	0	13.79	13.85	13.87			
20	256QAM	1	49	13.84	13.93	13.79	15.4	0	
20	256QAM	1	99	13.75	14.05	14.00			
20	256QAM	50	24	13.79	13.80	13.89			
20	256QAM	50	50	13.97	13.87	13.88	15.4	0	
20	256QAM	50	50	14.07	14.12	13.83			
20	256QAM	100	0	14.05	14.00	13.94			
Channel									
Frequency (MHz)									
15	QPSK	1	0	13.96	13.81	13.72	15.4	0	
15	QPSK	1	37	13.81	13.98	13.91			
15	QPSK	1	74	13.76	13.92	13.79			
15	QPSK	36	0	14.00	14.10	13.81	15.4	0	
15	QPSK	36	20	13.91	13.88	13.89			
15	QPSK	36	36	13.82	13.91	13.85			
15	QPSK	75	0	13.75	13.81	13.90	15.4	0	
15	16QAM	1	0	13.88	13.80	13.60			
15	16QAM	1	37	13.85	13.95	13.81	15.4	0	
15	16QAM	1	74	13.82	13.92	13.81			
15	16QAM	36	0	13.87	13.80	13.74			
15	16QAM	36	13	13.85	13.85	13.81	15.4	0	
15	16QAM	36	36	14.00	13.61	13.94			
15	16QAM	75	0	13.70	13.85	13.69			
15	64QAM	1	0	13.77	13.93	13.89			
15	64QAM	1	37	13.85	13.71	13.77	15.4	0	
15	64QAM	1	74	13.84	13.75	13.74			
15	64QAM	36	0	13.72	13.89	13.86			
15	64QAM	36	20	13.73	13.79	13.68	15.4	0	
15	64QAM	36	36	13.75	13.83	13.76			
15	64QAM	75	0	14.07	13.87	13.75			
15	256QAM	1	0	13.81	13.80	13.75	15.4	0	
15	256QAM	1	37	13.75	13.92	13.76			
15	256QAM	1	74	13.76	13.91	13.89			
15	256QAM	36	0	13.71	13.79	13.79			
15	256QAM	36	20	13.81	13.84	13.79	15.4	0	
15	256QAM	36	36	13.92	13.96	13.71			
15	256QAM	75	0	12.84	13.93	13.76			
Channel									
Frequency (MHz)									
10	QPSK	1	0	14.04	13.93	13.85	15.4	0	
10	QPSK	1	49	14.04	14.10	13.69			
10	QPSK	25	0	14.06	14.06	13.85	15.4	0	
10	QPSK	25	12	13.94	13.79	13.83			
10	QPSK	25	25	13.82	13.69	13.63			
10	QPSK	50	13	13.78	13.82	13.84	15.4	0	
10	16QAM	1	0	13.82	13.86	13.69			
10	16QAM	1	25	13.81	13.80	13.71	15.4	0	
10	16QAM	1	49	13.66	13.82	13.81			
10	16QAM	25	0	13.84	13.85	13.71			
10	16QAM	25	12	13.69	13.68	13.66	15.4	0	
10	16QAM	25	25	13.84	13.75	13.66			
10	16QAM	50	0	13.77	13.84	13.72			
10	64QAM	1	0	13.68	14.04	13.82			
10	64QAM	1	25	13.79	13.77	13.78	15.4	0	
10	64QAM	1	49	13.85	13.76	13.64			
10	64QAM	25	12	13.86	13.69	13.67	15.4	0	
10	64QAM	25	25	13.76	13.86	13.70			
10	64QAM	50	0	14.05	13.91	13.81			
10	256QAM	1	0	13.68	13.65	13.77	15.4	0	
10	256QAM	1	25	13.79	13.73	13.66			
10	256QAM	1	49	13.80	13.69	13.62			
10	256QAM	25	0	13.82	13.71	13.76	15.4	0	
10	256QAM	25	12	13.86	13.77	13.66			
10	256QAM	25	25	13.68	13.62	13.74			
10	256QAM	50	0	13.85	13.73	13.66			
Channel									
Frequency (MHz)									
5	QPSK	1	0	13.90	14.10	14.13	15.4	0	
5	QPSK	1	12	13.78	13.99	13.84			
5	QPSK	1	24	13.85	13.96	14.00			
5	QPSK	12	0	12.81	14.06	13.81	15.4	0	
5	QPSK	12	7	13.87	13.72	13.87			
5	QPSK	12	13	13.70	14.02	13.75			
5	QPSK	25	0	13.86	13.78	13.62			
5	16QAM	1	0	13.76	13.66	13.67	15.4	0	
5	16QAM	1	12	13.77	13.61	13.67			
5	16QAM	1	24	12.80	13.70	13.67			
5	16QAM	12	13	13.96	13.69	13.68	15.4	0	
5	16QAM	12	7	14.04	13.62	13.62			
5	16QAM	12	13	13.96	13.69	13.68			
5	16QAM	25	0	13.63	14.01	13.64			
5	64QAM	1	0	13.71	14.03	13.71	15.4	0	
5	64QAM	1	12	13.75	13.66	13.74			
5	64QAM	1	24	13.93	13.70	13.77			
5	64QAM	12	0	12.80	13.78	13.60	15.4	0	
5	64QAM	12	7	14.03	14.05	13.81			
5	64QAM	12	13	13.78	13.62	13.61			
5	64QAM	25	0	13.86	13.92	13.78			
5	256QAM	1	0	13.75	13.67	13.80	15.4	0	
5	256QAM	1	12	13.79	13.75	13.69			
5	256QAM	1	24	13.82	13.96	13.81			
5	256QAM	12	0	13.83	13.82	13.84			
5	256QAM	12	7	14.04	13.69	13.61	15.4	0	
5	256QAM	12	13	13.85	14.08	13.97			
5	256QAM	25	0	13.82	13.80	13.63			

Band 43 FCC Ant3 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	14.155	14.050	14.050			
20	QPSK	1	49	12.95	13.10	12.92	14.8	0	
20	QPSK	1	99	13.04	13.12	12.91			
20	QPSK	50	0	12.85	13.04	12.82	14.8	0	
20	QPSK	50	24	12.88	13.02	12.88			
20	QPSK	50	49	12.94	12.82	12.83			
20	16QAM	1	0	12.86	12.94	12.85	14.8	0	
20	16QAM	1	49	12.83	12.98	12.83			
20	16QAM	1	99	12.92	13.04	12.93			
20	16QAM	50	50	12.84	12.87	12.95	14.8	0	
20	16QAM	100	0	12.92	12.98	12.92			
20	64QAM	1	0	12.91	13.12	12.89			
20	64QAM	1	49	12.82	12.83	12.81	14.8	0	
20	64QAM	1	99	12.95	12.86	12.93			
20	64QAM	50	5	12.85	13.10	12.85			
20	64QAM	50	24	12.88	12.93	12.87	14.8	0	
20	64QAM	50	50	12.81	12.87	12.86			
20	64QAM	100	0	12.85	13.10	12.84			
20	256QAM	1	0	12.84	12.84	12.87			
20	256QAM	1	49	12.91	12.81	12.83	14.8	0	
20	256QAM	1	99	12.82	13.12	12.83			
20	256QAM	50	0	12.86	12.86	12.86			
20	256QAM	50	24	12.93	12.87	12.83	14.8	0	
20	256QAM	50	50	12.89	13.08	12.86			
20	256QAM	100	0	12.86	12.86	12.86			
Channel									
Frequency (MHz)									
15	QPSK	1	0	14.165	14.050	14.051			
15	QPSK	1	37	12.93	13.10	12.96	14.8	0	
15	QPSK	1	74	12.88	13.11	12.88			
15	QPSK	50	0	12.85	13.02	12.82	14.8	0	
15	QPSK	50	24	12.88	13.01	12.88			
15	QPSK	50	49	12.91	12.81	12.87			
15	16QAM	1	0	12.80	12.94	12.84	14.8	0	
15	16QAM	1	37	12.83	13.08	12.83			
15	16QAM	1	74	12.88	13.08	12.81			
15	16QAM	50	5	12.84	13.09	12.83	14.8	0	
15	16QAM	50	24	12.86	12.83	12.81			
15	16QAM	50	49	12.94	12.83	12.83			
15	64QAM	1	0	12.84	12.85	12.86			
15	64QAM	1	37	12.89	13.11	13.03	14.8	0	
15	64QAM	1	74	12.86	13.10	12.83			
15	64QAM	50	5	12.85	13.08	12.84			
15	64QAM	50	24	12.90	12.81	12.83	14.8	0	
15	64QAM	50	49	12.91	12.84	13.03			
15	64QAM	75	0	12.86	12.83	12.81			
15	256QAM	1	0	12.80	13.08	13.04			
15	256QAM	1	37	12.85	13.09	13.10	14.8	0	
15	256QAM	1	74	12.90	13.06	13.03			
15	256QAM	50	0	12.87	13.02	12.88			
15	256QAM	50	24	12.95	12.83	12.87	14.8	0	
15	256QAM	50	49	12.90	12.89	12.86			
15	256QAM	75	0	13.04	12.85	12.83			
Channel									
Frequency (MHz)									
10	QPSK	1	0	12.90	13.10	12.97			
10	QPSK	1	25	12.83	12.86	12.88	14.8	0	
10	QPSK	1	49	12.88	13.01	13.04			
10	QPSK	50	0	12.85	13.02	12.82	14.8	0	
10	QPSK	25	12	12.84	12.90	12.99			
10	QPSK	50	25	12.87	12.83	12.81			
10	QPSK	60	0	12.89	12.87	12.93			
10	16QAM	1	0	13.00	12.93	13.11	14.8	0	
10	16QAM	1	25	12.85	12.95	13.00			
10	16QAM	1	49	12.88	12.85	12.81	14.8	0	
10	16QAM	25	0	13.12	12.93	12.88			
10	16QAM	50	13	12.95	12.89	12.90			
10	16QAM	25	25	13.08	12.93	13.10	14.8	0	
10	64QAM	1	0	13.03	13.09	13.09			
10	64QAM	1	49	12.89	12.94	12.91			
10	64QAM	1	25	12.95	12.88	12.93	14.8	0	
10	64QAM	25	13	13.06	13.07	13.07			
10	64QAM	25	0	13.01	13.08	12.98			
10	64QAM	25	12	12.93	13.06	12.99	14.8	0	
10	64QAM	50	0	13.07	13.00	12.84			
10	256QAM	1	0	12.99	12.95	12.96			
10	256QAM	1	25	13.04	13.05	12.96	14.8	0	
10	256QAM	1	49	12.88	13.09	13.05			
10	256QAM	25	12	13.08	13.03	13.01			
10	256QAM	25	12	13.08	13.09	13.02	14.8	0	
10	256QAM	25	20	13.12	13.05	12.99			
10	256QAM	50	0	12.96	12.95	12.96			
Channel									
Frequency (MHz)									
5	QPSK	1	0	12.96	13.03	12.91			
5	QPSK	1	12	12.82	12.85	13.10	14.8	0	
5	QPSK	1	24	12.86	13.04	13.11			
5	QPSK	12	0	12.84	12.91	12.95			
5	QPSK	12	7	12.83	13.08	13.11	14.8	0	
5	QPSK	1	13	13.05	13.06	13.05			
5	16QAM	1	0	13.03	13.04	13.01	14.8	0	
5	16QAM	1	12	13.03	12.84	12.98			
5	16QAM	1	24	12.90	12.89	12.91	14.8	0	
5	16QAM	1	24	13.01	12.80	13.08			
5	16QAM	12	7	12.99	12.99	12.95	14.8	0	
5	16QAM	12	13	12.91	12.95	12.98			
5	64QAM	1	0	12.94	13.02	13.09			
5	64QAM	1	12	12.97	12.93	12.99			
5	64QAM	1	12	13.07	12.80	13.01	14.8	0	
5	64QAM	12	13	13.07	12.92	13.09			
5	64QAM	25	0	12.91	13.01	12.98			
5	256QAM	1	0	12.91	13.03	13.04	14.8	0	
5	256QAM	1	12	12.92	13.02	13.07			
5	256QAM	1	24	12.81	13.10	12.94			
5	256QAM	12	13	13.09	12.89	12.98	14.8	0	
5	256QAM	12	7	13.11	12.98	12.98			
5	256QAM	12	13	12.88	12.89	12.96			
5	256QAM	12	13	13.09	12.89	12.96			



Band 42 FCC Part27Q Ant5 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
42160 42160 42160									
20	QPSK	1	0	17.20	17.24	17.15			
20	QPSK	1	49	17.20	17.12	17.02	18.1	0	
20	QPSK	50	0	16.95	17.14	17.17			
20	QPSK	50	5	17.02	17.20	16.85			
20	QPSK	50	24	17.13	17.09	17.18	18.1	0	
20	QPSK	50	50	16.85	17.04	16.99			
20	QPSK	100	0	16.83	17.07	16.96			
20	16QAM	1	0	17.12	17.03	16.83	18.1	0	
20	16QAM	1	49	16.95	17.14	17.05			
20	16QAM	1	99	17.01	17.23	16.95			
20	16QAM	1	50	17.15	16.94	16.95			
20	16QAM	50	24	16.99	17.14	17.05	18.1	0	
20	16QAM	50	50	16.99	17.09	16.97			
20	16QAM	100	0	17.14	17.07	16.94			
20	64QAM	1	0	16.98	17.05	17.12			
20	64QAM	1	49	16.99	17.05	16.90	18.1	0	
20	64QAM	1	99	17.14	16.99	16.95			
20	64QAM	50	5	16.95	16.92	17.05			
20	64QAM	50	24	17.00	16.98	16.99	18.1	0	
20	64QAM	50	50	16.96	17.08	17.15			
20	64QAM	100	0	16.99	17.08	16.90			
20	256QAM	1	0	17.08	17.10	16.77			
20	256QAM	1	49	17.07	17.16	16.85	18.1	0	
20	256QAM	1	99	17.07	17.00	16.98			
20	256QAM	50	5	16.93	17.09	16.94			
20	256QAM	50	24	16.99	16.94	16.99	18.1	0	
20	256QAM	50	50	16.97	17.08	17.17			
20	256QAM	100	0	17.04	17.07	16.94			
Channel									
Frequency (MHz)									
42165 42160 42165									
15	QPSK	1	0	17.10	17.07	17.12			
15	QPSK	1	37	17.03	16.98	16.98	18.1	0	
15	QPSK	1	74	17.00	17.12	17.01			
15	QPSK	36	0	16.89	17.01	16.79			
15	QPSK	36	20	16.94	17.09	17.18	18.1	0	
15	QPSK	36	36	16.89	16.91	16.91			
15	QPSK	75	0	16.80	16.99	16.98			
15	16QAM	1	0	17.10	16.88	16.87			
15	16QAM	1	37	16.93	16.93	17.05	18.1	0	
15	16QAM	1	74	16.81	17.13	16.83			
15	16QAM	36	0	17.07	16.81	16.77			
15	16QAM	36	20	16.83	17.12	16.85	18.1	0	
15	16QAM	36	36	16.87	16.89	16.82			
15	16QAM	75	0	17.08	16.85	16.74			
15	64QAM	1	0	16.80	16.98	17.02			
15	64QAM	1	37	16.89	17.00	16.92	18.1	0	
15	64QAM	1	74	17.10	16.83	16.84			
15	64QAM	36	0	16.82	16.72	16.85			
15	64QAM	36	20	16.82	16.92	16.80	18.1	0	
15	64QAM	36	36	16.84	16.99	16.87			
15	64QAM	75	0	16.98	17.09	16.95			
15	256QAM	1	0	16.87	17.08	16.89			
15	256QAM	1	37	16.87	16.97	16.87	18.1	0	
15	256QAM	1	74	17.02	16.92	16.90			
15	256QAM	36	0	16.87	17.04	16.73			
15	256QAM	36	20	16.87	16.91	16.87	18.1	0	
15	256QAM	36	36	17.04	16.91	17.06			
15	256QAM	75	0	16.94	17.07	16.74			
Channel									
Frequency (MHz)									
3455 3500 3545									
10	QPSK	1	0	16.81	17.08	16.81			
10	QPSK	1	25	17.21	17.04	16.95	18.1	0	
10	QPSK	1	49	16.88	16.95	16.86			
10	QPSK	25	0	16.89	16.99	16.95			
10	QPSK	25	12	16.94	16.95	17.08	18.1	0	
10	QPSK	25	25	16.73	17.12	16.62			
10	QPSK	50	0	16.76	17.00	16.80			
10	16QAM	1	0	17.13	16.99	16.77			
10	16QAM	1	25	16.87	17.10	16.80	18.1	0	
10	16QAM	1	49	16.85	17.08	16.87			
10	16QAM	25	0	17.09	16.86	16.83			
10	16QAM	25	12	16.89	17.09	16.88	18.1	0	
10	16QAM	25	25	16.84	16.85	16.84			
10	16QAM	50	0	17.13	16.99	16.72			
10	64QAM	1	0	16.76	16.91	16.83			
10	64QAM	1	25	16.81	16.99	16.76	18.1	0	
10	64QAM	1	49	17.15	16.87	16.75			
10	64QAM	25	0	16.80	16.91	16.86			
10	64QAM	25	12	16.88	16.99	17.00	18.1	0	
10	64QAM	25	25	16.87	17.02	17.15			
10	64QAM	50	0	16.88	16.95	16.88			
10	256QAM	1	0	17.10	16.94	16.74			
10	256QAM	1	25	16.89	17.01	16.75	18.1	0	
10	256QAM	1	49	16.98	16.85	16.85			
10	256QAM	25	0	17.04	17.02	16.80			
10	256QAM	25	12	16.84	16.99	16.82	18.1	0	
10	256QAM	25	25	17.05	16.85	17.10			
10	256QAM	50	0	16.82	17.01	16.75			
Channel									
Frequency (MHz)									
3452.5 3500 3547.5									
5	QPSK	1	0	17.16	17.11	17.04			
5	QPSK	1	12	17.07	17.06	16.94	18.1	0	
5	QPSK	1	24	16.99	16.99	17.10			
5	QPSK	12	0	16.94	16.99	16.92			
5	QPSK	12	7	16.94	17.04	17.11	18.1	0	
5	QPSK	12	13	16.83	17.12	16.67			
5	QPSK	25	0	16.74	16.98	16.79			
5	16QAM	1	0	16.98	17.04	16.71			
5	16QAM	1	12	16.80	16.93	17.01	18.1	0	
5	16QAM	1	24	16.90	17.05	16.90			
5	16QAM	12	0	17.14	16.87	16.76			
5	16QAM	12	7	16.87	17.13	16.88	18.1	0	
5	16QAM	12	13	16.98	16.87	16.98			
5	16QAM	25	0	17.09	16.96	16.73			
5	64QAM	1	0	16.76	16.90	16.83			
5	64QAM	1	12	16.84	16.99	16.80	18.1	0	
5	64QAM	1	24	17.09	16.91	16.79			
5	64QAM	12	0	16.86	16.90	16.82			
5	64QAM	12	7	16.89	16.90	16.83	18.1	0	
5	64QAM	12	13	16.91	16.91	17.02			
5	64QAM	25	0	16.91	16.90	16.88			
5	256QAM	1	0	16.95	16.90	16.74			
5	256QAM	1	12	16.91	17.07	16.73	18.1	0	
5	256QAM	1	24	16.90	16.82	16.80			
5	256QAM	12	0	17.04	16.95	16.82			
5	256QAM	12	7	16.89	16.80	16.86	18.1	0	
5	256QAM	12	13	16.91	17.05	17.18			
5	256QAM	25	0	17.02	16.98	16.74			

Band 43 FCC Ant5 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				44160	44560	44960			
20	QPSK	1	0	16.92	16.90	16.45			
20	QPSK	1	49	16.44	16.50	16.36	18.3	0	
20	QPSK	1	99	16.45	16.59	16.46			
20	QPSK	50	0	16.41	16.56	16.42			
20	QPSK	50	24	16.54	16.45	16.58	18.3	0	
20	QPSK	50	50	16.36	16.48	16.52			
20	QPSK	100	0	16.50	16.52	16.43			
20	16QAM	1	0	16.42	16.39	16.30	18.3	0	
20	16QAM	1	49	16.39	16.38	16.42			
20	16QAM	1	99	16.41	16.55	16.37			
20	16QAM	50	5	16.37	16.47	16.50	18.3	0	
20	16QAM	50	24	16.35	16.44	16.32			
20	16QAM	100	0	16.54	16.55	16.36			
20	64QAM	1	0	16.45	16.45	16.40			
20	64QAM	1	49	16.45	16.33	16.30	18.3	0	
20	64QAM	1	99	16.45	16.35	16.51			
20	64QAM	50	5	16.43	16.39	16.45			
20	64QAM	50	24	16.45	16.43	16.33	18.3	0	
20	64QAM	50	50	16.45	16.50	16.44			
20	64QAM	100	0	16.56	16.43	16.55			
20	256QAM	1	0	16.54	16.52	16.46			
20	256QAM	1	49	16.45	16.49	16.40	18.3	0	
20	256QAM	1	99	16.39	16.58	16.35			
20	256QAM	50	5	16.50	16.48	16.42			
20	256QAM	50	24	16.51	16.43	16.49	18.3	0	
20	256QAM	50	50	16.53	16.47	16.37			
20	256QAM	100	0	16.60	16.46	16.51			
Channel									
Frequency (MHz)				44165	44565	44965			
15	QPSK	1	0	16.52	16.50	16.42			
15	QPSK	1	37	16.44	16.32	16.30	18.3	0	
15	QPSK	1	74	16.43	16.38	16.36			
15	QPSK	50	0	16.51	16.53	16.33			
15	QPSK	50	20	16.38	16.39	16.50	18.3	0	
15	QPSK	75	0	16.50	16.49	16.51			
15	16QAM	1	0	16.42	16.49	16.44			
15	16QAM	1	37	16.35	16.32	16.42			
15	16QAM	1	74	16.40	16.51	16.32			
15	16QAM	36	5	16.49	16.43	16.31			
15	16QAM	36	20	16.31	16.32	16.51	18.3	0	
15	16QAM	36	39	16.50	16.32	16.30			
15	16QAM	75	0	16.51	16.47	16.43			
15	64QAM	1	0	16.51	16.53	16.49			
15	64QAM	1	37	16.47	16.49	16.35	18.3	0	
15	64QAM	1	74	16.46	16.49	16.51			
15	64QAM	36	5	16.35	16.39	16.38			
15	64QAM	36	20	16.34	16.41	16.40			
15	64QAM	36	39	16.45	16.32	16.43	18.3	0	
15	64QAM	75	0	16.44	16.31	16.50			
15	256QAM	1	0	16.59	16.41	16.42			
15	256QAM	1	37	16.41	16.41	16.31	18.3	0	
15	256QAM	1	74	16.36	16.59	16.49			
15	256QAM	36	5	16.50	16.51	16.51			
15	256QAM	36	20	16.37	16.40	16.49	18.3	0	
15	256QAM	36	39	16.50	16.50	16.51			
15	256QAM	75	0	16.60	16.52	16.53			
Channel									
Frequency (MHz)				44165	44565	44965			
5	QPSK	1	0	16.45	16.51	16.46			
5	QPSK	1	25	16.40	16.39	16.38	18.3	0	
5	QPSK	1	49	16.35	16.39	16.47			
5	QPSK	12	0	16.45	16.43	16.37	18.3	0	
5	QPSK	25	12	16.45	16.43	16.32			
5	QPSK	25	37	16.48	16.38	16.33			
5	QPSK	60	5	16.46	16.55	16.35			
5	16QAM	1	0	16.36	16.37	16.30	18.3	0	
5	16QAM	1	25	16.35	16.39	16.39			
5	16QAM	1	49	16.36	16.47	16.32			
5	16QAM	25	0	16.48	16.38	16.52			
5	16QAM	25	12	16.47	16.41	16.31	18.3	0	
5	16QAM	25	37	16.48	16.40	16.37			
5	16QAM	60	5	16.48	16.55	16.47			
5	64QAM	1	0	16.34	16.39	16.31	18.3	0	
5	64QAM	1	25	16.41	16.41	16.33			
5	64QAM	1	49	16.52	16.49	16.32			
5	64QAM	25	12	16.47	16.40	16.44	18.3	0	
5	64QAM	25	37	16.41	16.37	16.39			
5	64QAM	60	0	16.44	16.31	16.34			
5	256QAM	1	0	16.46	16.46	16.37			
5	256QAM	1	25	16.38	16.45	16.36	18.3	0	
5	256QAM	1	49	16.41	16.42	16.40			
5	256QAM	25	12	16.43	16.40	16.41			
5	256QAM	25	37	16.48	16.50	16.46	18.3	0	
5	256QAM	25	60	16.40	16.49	16.50			
5	256QAM	60	0	16.53	16.34	16.51			
Channel									
Frequency (MHz)				44165	44565	44965			
5	QPSK	1	0	16.53	16.51	16.46			
5	QPSK	1	12	16.41	16.41	16.33	18.3	0	
5	QPSK	1	24	16.46	16.46	16.37			
5	QPSK	12	0	16.31	16.51	16.39			
5	QPSK	12	7	16.47	16.39	16.49	18.3	0	
5	QPSK	12	13	16.46	16.41	16.40			
5	QPSK	25	0	16.36	16.45	16.31			
5	16QAM	1	12	16.49	16.42	16.31			
5	16QAM	1	24	16.31	16.46	16.41	18.3	0	
5	16QAM	1	24	16.42	16.51	16.48			
5	16QAM	12	0	16.46	16.46	16.40			
5	16QAM	12	7	16.41	16.51	16.51	18.3	0	
5	16QAM	12	13	16.49	16.42	16.41			
5	64QAM	1	12	16.36	16.50	16.38			
5	64QAM	1	24	16.46	16.32	16.40	18.3	0	
5	64QAM	12	0	16.35	16.47	16.40			
5	64QAM	12	13	16.45	16.32	16.37			
5	64QAM	25	0	16.45	16.31	16.39			
5	256QAM	1	12	16.45	16.45	16.33	18.3	0	
5	256QAM	1	24	16.32	16.34	16.42			
5	256QAM	12	0	16.47	16.39	16.42			
5	256QAM	12	7	16.37	16.38	16.34	18.3	0	
5	256QAM	12	13	16.41	16.36	16.36			



Band 4 Other PA Ant0 Default										
Ref	Mod	ModAnt	RF Sigs	RF Chans	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Transmit Rate (Mbps)	MPE (dB)
Channel										
20	QPSK	1	0	22	28.8	22.28	22.74			
20	QPSK	1	48	25	27.76	22.76	22.88	24	0	
20	QPSK	1	48	25	27.76	22.76	22.88	24	0	
20	QPSK	50	0	22	28.8	22.62	22.68			
20	QPSK	50	48	25	27.76	22.62	22.68	23.5	0.5	
20	QPSK	50	50	22	28.8	22.45	22.50			
20	QPSK	100	0	22	27.47	22.60	22.60			
20	QPSK	100	48	25	27.47	22.60	22.60	23.5	0.5	
20	HQAM	1	48	22	22.00	22.25	22.17			
20	HQAM	1	96	22	22.00	22.25	22.17	23.5	0.5	
20	HQAM	1	192	22	22.00	22.25	22.17			
20	HQAM	50	24	21	21.39	21.43	21.34			
20	HQAM	50	50	21	21.32	21.43	21.34	22.5	1.5	
20	HQAM	1	0	21	21.46	21.50	21.40			
20	HQAM	1	48	21	21.36	21.42	21.37			
20	HQAM	1	96	21	21.36	21.42	21.37	22.5	1.5	
20	HQAM	50	0	20	20.55	20.65	20.65			
20	HQAM	50	24	20	20.48	20.52	20.37			
20	HQAM	50	50	20	20.48	20.52	20.37	21.5	2.5	
20	HQAM	100	0	20	20.57	20.60	20.50			
20	HQAM	1	0	18	18.48	18.53	18.41			
20	HQAM	1	48	18	18.48	18.53	18.41	19.5	4.5	
20	HQAM	1	96	18	18.41	18.49	18.40			
20	HQAM	1	192	18	18.72	18.80	18.70			
20	HQAM	50	24	18	18.48	18.53	18.41	19.5	4.5	
20	HQAM	50	50	18	18.67	18.66	18.55			
20	HQAM	100	0	18	18.71	18.71	18.60			
Channel										
20	QPSK	1	0	22	28.8	22.75	22.75	Transmit Rate (Mbps)	MPE (dB)	
20	QPSK	1	48	25	27.76	22.75	22.75			
20	QPSK	1	74	25	27.53	22.62	22.68	24	0	
20	QPSK	1	96	25	27.40	22.62	22.68			
20	QPSK	50	0	22	28.8	22.51	22.51			
20	QPSK	50	24	22	28.48	22.46	22.38	23.5	0.5	
20	QPSK	50	50	22	28.30	22.37	22.30			
20	QPSK	100	0	22	27.48	22.46	22.46			
20	QPSK	100	48	22	27.20	22.17	22.10	23.5	0.5	
20	HQAM	1	37	20	20.29	20.13	20.08			
20	HQAM	1	74	20	20.11	20.13	20.08	22.5	1.5	
20	HQAM	50	0	21	21.34	21.47	21.32			
20	HQAM	50	24	21	21.31	21.34	21.21			
20	HQAM	50	50	21	21.22	21.22	21.13	22.5	1.5	
20	HQAM	1	0	21	21.37	21.40	21.30			
20	HQAM	1	74	21	21.13	21.24	21.14			
20	HQAM	50	0	20	20.44	20.52	20.41			
20	HQAM	50	24	20	20.41	20.47	20.35	21.5	2.5	
20	HQAM	50	50	20	20.43	20.47	20.43			
20	HQAM	100	0	18	18.43	18.48	18.43			

Band 7 Other PA Ant0 Default										
Ref (MHz)	Modulation	RB Size	RB Offset	Power Ch. (Frac)	Power Ch. (Frac)	Power Ch. (Frac)	Transmit Rate (kbps)	MPR (dB)		
Channel										
Frequency (MHz)				20.00	21.00	23.00				
20	QPSK	1	0	22.93	23.12	22.88				
15	QPSK	1	48	22.80	23.00	22.75	24	0		
10	QPSK	1	96	22.67	22.87	22.62				
5	QPSK	50	0	22.88	23.08	22.88				
20	QPSK	50	50	22.82	22.92	22.84	24	0		
20	QPSK	100	0	23.01	23.05	23.01				
15	QPSK	1	48	22.82	23.01	22.77	24	0		
10	QPSK	1	96	22.77	22.92	22.67				
5	QPSK	50	0	22.87	23.09	22.88				
20	QPSK	50	24	22.37	22.47	22.37	23.5	0.5		
15	QPSK	50	50	22.28	22.41	22.28				
10	QPSK	1	48	22.80	23.01	22.75	24	0		
5	QPSK	50	0	21.54	21.61	21.49				
20	QPSK	50	24	21.42	21.48	21.37	22.5	1.5		
15	QPSK	50	50	21.46	21.54	21.42				
10	QPSK	100	0	21.52	21.55	21.49				
5	QPSK	1	0	16.55	16.62	16.50				
20	QPSK	50	0	22.82	23.06	22.82	20.5	3.5		
20	QPSK	1	96	19.38	19.49	19.41				
15	QPSK	1	48	19.43	19.53	19.43	24	0		
10	QPSK	50	24	18.46	18.54	18.35	20.5	3		
5	QPSK	50	50	19.36	19.47	19.38				
Channel										
Frequency (MHz)				20.00	21.00	23.00	Transmit Rate (kbps)	MPR (dB)		
20	QPSK	1	0	22.88	23.06	22.82				
15	QPSK	1	48	22.80	23.00	22.75	24	0		
10	QPSK	1	96	22.79	22.91	22.70				
5	QPSK	50	0	21.48	21.58	21.46				
20	QPSK	50	24	22.84	22.92	22.75	24	0		
15	QPSK	50	50	22.72	22.86	22.75				
10	QPSK	100	0	22.94	23.04	22.89				
5	QPSK	1	0	22.89	23.08	22.87				
15	QPSK	1	48	22.77	22.87	22.80	24	0		
10	QPSK	1	96	22.70	22.83	22.65				
5	QPSK	50	0	20.30	20.41	20.23	23.5	0.5		
20	QPSK	50	24	22.87	22.92	22.87				
15	QPSK	50	50	22.82	22.92	22.82	23.5	0.5		
10	QPSK	1	48	22.82	23.03	22.63	24	0		
5	QPSK	50	0	21.43	21.54	21.46				
20	QPSK	50	24	21.38	21.51	21.38	22.5	1.5		
15	QPSK	50	50	21.38	21.51	21.38				
10	QPSK	100	0	21.38	21.51	21.38				
5	QPSK	1	0	19.34	19.38	19.30	20.5	3.5		
20	QPSK	1	96	16.26	16.37	16.26				
15	QPSK	1	48	16.37	16.48	16.37	24	0		
10	QPSK	50	24	16.37	16.50	16.37	20.5	3.5		
5	QPSK	50	50	19.37	19.49	19.37				
20	QPSK	50	0	19.37	19.49	19.42				
Channel										
Frequency (MHz)				20.00	21.00	23.00	Trans			

[illegible]



Band 38 Other PA Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37965	38000	38160			
20	QPSK	1	0	23.34	23.41	23.30			
20	QPSK	1	48	23.22	23.29	23.24	24	0	
20	QPSK	1	88	23.14	23.24	23.17			
20	QPSK	50	0	22.33	22.43	22.35			
20	QPSK	50	24	22.36	22.33	22.21	23	1	
20	QPSK	50	48	22.25	22.29	22.14			
20	QPSK	100	0	22.27	22.26	22.23			
20	HQAM	1	0	22.26	22.25	22.21	23	1	
20	HQAM	1	48	22.20	22.20	22.14			
20	HQAM	1	96	22.15	22.25	22.22			
20	HQAM	50	24	21.41	21.46	21.34	22	2	
20	HQAM	50	48	21.19	21.20	21.00			
20	HQAM	50	50	21.17	21.26	21.19			
20	HQAM	100	0	21.26	21.26	21.26			
20	HQAM	100	0	21.23	21.25	21.21			
20	HQAM	1	48	21.21	21.27	21.17	22	2	
20	HQAM	1	96	21.06	21.21	21.15			
20	HQAM	50	0	20.34	20.48	20.43			
20	HQAM	50	24	20.24	20.35	20.27	21	3	
20	HQAM	50	50	20.30	20.41	20.27			
20	HQAM	100	0	20.26	20.49	20.26			
20	256QAM	1	0	18.31	18.46	18.38			
20	256QAM	1	48	18.28	18.37	18.21	19	5	
20	256QAM	1	96	18.20	18.33	18.27			
20	256QAM	50	0	22.26	22.26	22.26			
20	256QAM	50	24	22.26	22.26	22.26			
20	256QAM	50	48	22.26	22.26	22.26			
20	256QAM	50	50	22.26	22.26	22.26			
20	256QAM	100	0	22.26	22.26	22.26			
Channel									
Frequency (MHz)				37925	38000	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	23.13	23.15	23.12			
15	QPSK	1	37	23.14	23.14	23.21	24	0	
15	QPSK	1	74	23.07	23.16	23.00			
15	QPSK	36	0	22.24	22.30	22.21	23	1	
15	QPSK	36	20	22.29	22.29	22.24			
15	QPSK	75	0	22.19	22.22	22.07			
15	HQAM	1	0	22.19	22.20	22.14	23	1	
15	HQAM	1	37	22.14	22.20	22.05			
15	HQAM	1	74	22.07	22.15	22.08			
15	HQAM	36	0	21.29	21.39	21.25	22	2	
15	HQAM	36	20	21.34	21.38	21.28			
15	HQAM	36	36	21.14	21.18	21.11			
15	HQAM	75	0	21.16	21.22	21.22			
15	HQAM	75	0	21.13	21.23	21.23			
15	HQAM	1	37	21.14	21.19	21.05	22	2	
15	HQAM	74	20	20.99	21.12	21.05			
15	HQAM	36	0	20.27	20.43	20.29	21	3	
15	HQAM	36	20	20.17	20.28	20.20			
15	HQAM	75	0	20.16	20.23	20.21			
15	256QAM	1	0	18.28	18.36	18.33	19	5	
15	256QAM	1	37	18.19	18.32	18.20			
15	256QAM	1	74	18.12	18.24	18.23			
15	256QAM	36	0	18.16	18.32	18.16	19	5	
15	256QAM	36	20	18.16	18.32	18.16			
15	256QAM	36	36	18.07	18.14	18.14			
15	256QAM	75	0	18.15	18.32	18.10			
Channel									
Frequency (MHz)				25715	25715	25715	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	23.11	23.13	23.10			
10	QPSK	1	25	23.05	23.16	23.17	24	0	
10	QPSK	1	48	23.08	23.10	23.04			
10	QPSK	25	0	22.23	22.29	22.20	23	1	
10	QPSK	25	12	22.18	22.29	22.08			
10	QPSK	25	25	22.07	22.25	22.05			
10	HQAM	1	0	22.17	22.28	22.12	23	1	
10	HQAM	1	25	22.13	22.15	22.01			
10	HQAM	1	48	22.02	22.15	22.18			
10	HQAM	25	0	21.36	21.36	21.24	22	2	
10	HQAM	25	12	21.08	21.27	21.08			
10	HQAM	25	25	21.08	21.22	21.11			
10	HQAM	50	0	21.22	21.31	21.24			
10	HQAM	50	0	21.11	21.25	21.24			
10	HQAM	1	25	21.17	21.23	21.07	22	2	
10	HQAM	1	48	21.02	21.11	21.07			
10	HQAM	25	0	20.22	20.40	20.35	21	3	
10	HQAM	25	12	20.18	20.29	20.16			
10	HQAM	25	25	20.26	20.35	20.20			
10	HQAM	50	0	20.13	20.27	20.20			
10	256QAM	1	0	18.17	18.42	18.35	19	5	
10	256QAM	1	25	18.15	18.32	18.28			
10	256QAM	1	48	18.09	18.25	18.22			
10	256QAM	25	0	18.16	18.36	18.27	19	5	
10	256QAM	25	12	18.14	18.21	18.09			
10	256QAM	25	25	18.03	18.20	18.15			
10	256QAM	50	0	18.13	18.30	18.20			

Band 41 Other PA Ant0 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41058	41490		
20	QPSK	1	0	23.18	23.18	23.14	23.19	23.19	23.19	
20	QPSK	1	48	22.99	23.15	23.26	22.98	23.13	24	0
20	QPSK	1	96	23.09	23.12	23.21	23.03	23.15		
20	QPSK	50	0	22.15	22.25	22.40	22.17	22.28		
20	QPSK	50	24	22.20	22.27	22.30	22.19	22.30	23	1
20	QPSK	50	48	22.03	22.00	22.23	22.00	22.14		
20	QPSK	100	0	22.19	22.26	22.35	22.10	22.23		
20	16QAM	1	0	22.23	22.36	22.41	22.19	22.29	23	1
20	16QAM	1	48	22.21	22.21	22.27	22.13	22.23	23	1
20	16QAM	1	96	22.08	22.21	22.31	22.12	22.18		
20	16QAM	50	0	21.24	21.44	21.51	21.22	21.37		
20	16QAM	50	24	21.21	21.27	21.37	21.13	21.28	22	2
20	16QAM	50	50	21.14	21.21	21.31	21.17	21.27		
20	16QAM	100	0	21.24	21.41	21.47	21.28	21.43		
20	16QAM	100	0	21.15	21.32	21.41	21.15	21.38		
20	16QAM	1	48	21.17	21.20	21.33	21.28	21.30	22	2
20	16QAM	1	96	21.00	21.23	21.26	20.80	21.13		
20	16QAM	50	0	20.39	20.41	20.54	20.33	20.46		
20	16QAM	50	24	20.26	20.29	20.41	20.22	20.34	21	3
20	16QAM	50	50	20.20	20.43	20.47	20.20	20.43		
20	16QAM	100	0	20.30	20.40	20.49	20.36	20.44		
20	256QAM	1	0	18.32	18.47	18.56	18.30	18.42		
20	256QAM	1	48	18.24	18.30	18.47	18.27	18.33	19	5
20	256QAM	1	96	18.31	18.34	18.43	18.27	18.38		
20	256QAM	50	0	22.24	22.24	22.24	22.24	22.24		
20	256QAM	50	24	22.24	22.24	22.24	22.24	22.24		
20	256QAM	50	48	22.24	22.24	22.24	22.24	22.24		
20	256QAM	50	50	22.24	22.24	22.24	22.24	22.24	19	5
20	256QAM	100	0	22.24	22.24	22.24	22.24	22.24		
Channel										
Frequency (MHz)				39725	40173	40620	41058	41515	Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	0	23.13	23.13	23.17	23.17	23.19	23	0
15	QPSK	1	37	22.81	23.11	23.19	22.87	23.07	24	
15	QPSK	1	74	22.86	22.97	23.07	22.93	23.01		
15	QPSK	36	0	22.07	22.21	22.30	22.07	22.19	23	1
15	QPSK	36	20	22.14	22.13	22.19	22.07	22.14		
15	QPSK	75	0	22.03	22.06	22.22	21.98	22.01		
15	QPSK	75	0	22.15	22.16	22.24	22.01	22.17		
15	16QAM	1	0	22.15	22.26	22.32	22.04	22.25	23	1
15	16QAM	1	37	22.12	22.08	22.17	22.01	22.08		
15	16QAM	1	74	21.93	22.16	22.17	22.00	22.06		
15	16QAM	36	0	21.14	21.32	21.38	21.09	21.28	22	2
15	16QAM	36	20	21.14	21.13	21.21	21.05	21.11		
15	16QAM	36	36	21.01	21.16	21.28	21.03	21.12		
15	16QAM	75	0	21.23	21.31	21.43	21.11	21.26		
15	16QAM	75	0	21.11	21.24	21.29	21.11	21.14		
15	16QAM	1	37	21.12	21.06	21.20	21.23	21.19	22	2
15	16QAM	74	20	20.87	21.19	21.23	20.90	21.04		
15	16QAM	36	0	20.26	20.29	20.43	20.24	20.32	21	3
15	16QAM	36	20	20.22	20.16	20.30	20.08	20.26		
15	16QAM	75	0	20.27	20.35	20.40	20.08	20.25		
15	256QAM	1	0	18.20	18.36	18.45	18.18	18.26	19	5
15	256QAM	1	37	18.10	18.26	18.36	18.16	18.26		
15	256QAM	1	74	18.28	18.26	18.33	18.17	18.23		
15	256QAM	36	0	18.13	18.34	18.42	18.14	18.23	19	5
15	256QAM	36	20	18.10	18.27	18.32	18.17	18.24		
15	256QAM	36	36	17.99	18.16	18.36	18.03	18.14		
15	256QAM	75	0	18.17	18.26	18.36	18.14	18.25		
Channel										
Frequency (MHz)				39700	40160	40620	41088	41540	Tune-up limit (dBm)	MFR (dB)
10	QPSK	1	0	23.14	23.14	23.18	23.17	23.19	23	0
10	QPSK	1	25	22.95	23.05	23.16	22.96	23.01	24	0
10	QPSK	1	48	22.94	22.97	23.17	22.93	23.01		
10	QPSK	25	0	22.11	22.20	22.29	22.11	22.19	23	1
10	QPSK	25	12	22.06	22.17	22.23	21.98	22.14		
10	QPSK	25	25	22.03	22.04	22.24	21.98	22.11	23	1
10	QPSK	50	0	22.12	22.21	22.28	21.90	22.13		
10	16QAM	1	0	22.15	22.29	22.30	22.06	22.17	23	1
10	16QAM	1	48	22.08	22.21	22.31	21.13	22.18		
10	16QAM	1	96	21.96	22.17	22.27	22.02	22.10		
10	16QAM	25	0	21.11	21.34	21.42	21.15	21.23	22	2
10	16QAM	25	12	21.17	21.22	21.32	21.07	21.15		
10	16QAM	25	25	21.05	21.11	21.27	21.10	21.14		
10	16QAM	50	0	20.27	20.30	20.43	20.22	20.30	22	2
10	16QAM	50	0	20.39	20.40	20.49	20.30	20.38		
10	16QAM	1	25	20.13	20.33	20.38	20.15	20.24	19	5
10	256QAM	1	0	18.21	18.22	18.37	18.17	18.25		
10	256QAM	1	25	18.20	18.26	18.36	18.14	18.23		
10	256QAM	25	12	18.14	18.34	18.37	18.20	18.24	19	5
10	256QAM	25	25	18.04	18.23	18.32	18.03	18.19		
10	256QAM	50	0	18.22	18.24	18.32	18.19	18.29		
Channel										
Frequency (MHz)				39675	40140	40620	41088	41565	Tune-up limit (dBm)	MFR (dB)
5	QPSK	1	0	23.16	23.16	23.21	23.14	23.19	23	0
5	QPSK	1	12	22.95	23.01	23.16	22.87	23.08	24	0
5	QPSK	1	24	22.93	23.03	23.18	22.85	23.06		
5	QPSK	12	0	22.09	22.21	22.27	22.04	22.17	23	1
5	QPSK	12	7	22.08	22.21	22.18	22.04	22.17		
5	QPSK	24	0	22.08	22.21	22.28	22.01	22.14	23	1
5	QPSK	24	0	22.06	22.20	22.23	22.04	22.13		
5	16QAM	1	0	22.12	22.24	22.29	22.11	22.16	23	1
5	16QAM	1	12	22.08	22.18	22.23	22.07	22.17		
5	16QAM	1	24	21.94	22.11	22.25	21.97	22.08		
5	16QAM	12	0	21.12	21.32	21.40	21.15	21.23	22	2
5	16QAM	12	7	21.17	21.15	21.24	21.23	21.25		
5	16QAM	12	13	21.03	21.06	21.26	21.04	21.15		
5	16QAM	24	0	20.91	21.14	21.18	21.14	21.15	22	2
5	16QAM	1	0	20.24	20.38	20.47	20.23	20.31	21	3
5	16QAM	12	7	20.23	20.29	20.40	20.13	20.26		
5	16QAM	12	13	20.18	20.30	20.43	20.15	20.28		
5	16QAM	24	0	20.28	20.36	20.37	20.29	20.40		
5	256QAM	1	0	18.22	18.35	18.46	18.19	18.28	19	5
5	256QAM	1	12	18.11	18.26	18.43	18.11	18.21		
5	256QAM	1	24	18.13	18.23	18.37	18.22	18.25		
5	256QAM	12	0	18.15	18.26	18.42	18.14	18.28		
5	256QAM	12	7	18.12	18.28	18.43	18.16	18.19	19	5
5	256QAM	12	13	18.06	18.16	18.34	18.08	18.15		



Band 2 Other PA Ant1 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-up Time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.87	22.82	22.84	24	0		
20	QPSK	1	48	22.81	22.76	22.72				
20	QPSK	1	96	22.69	22.74	22.72	24	0		
20	QPSK	50	0	22.61	22.72	22.68				
20	QPSK	50	24	22.70	22.65	22.72	24	0		
20	QPSK	50	50	22.68	22.77	22.68				
20	16QAM	1	0	22.59	22.71	22.84	24	0		
20	16QAM	1	96	22.53	22.67	22.81				
20	16QAM	1	36	22.43	22.46	22.37	23.5	0.5		
20	16QAM	50	24	22.45	22.55	22.52				
20	16QAM	50	50	22.38	22.39	22.34	23.5	0.5		
20	16QAM	50	50	22.42	22.52	22.45				
20	16QAM	1	0	22.59	22.59	22.59	23.5	0.5		
20	16QAM	1	48	22.35	22.35	22.35				
20	16QAM	1	96	22.43	22.46	22.37	23.5	0.5		
20	16QAM	50	24	22.45	22.55	22.52				
20	16QAM	50	24	21.38	21.45	21.37	22.5	1.5		
20	16QAM	50	50	21.35	21.50	21.41				
20	16QAM	50	50	19.55	19.62	19.56	20.5	3.5		
20	16QAM	1	48	19.50	19.59	19.54				
20	16QAM	1	96	19.47	19.54	19.48	20.5	3.5		
20	16QAM	50	24	19.38	19.47	19.37				
20	256QAM	1	48	19.50	19.57	19.53	20.5	3.5		
20	256QAM	50	24	19.38	19.47	19.37				
20	256QAM	50	50	19.39	19.53	19.49	20.5	3.5		
20	256QAM	100	0	19.40	19.51	19.44				
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.74	22.61	22.73	24	0		
20	QPSK	1	48	22.68	22.57	22.67				
20	QPSK	1	74	22.54	22.44	22.48	24	0		
20	QPSK	36	0	22.63	22.75	22.63				
20	QPSK	36	36	22.57	22.69	22.65	24	0		
20	QPSK	36	36	22.54	22.67	22.63				
20	QPSK	75	0	22.62	22.71	22.66	24	0		
20	QPSK	75	0	22.59	22.68	22.65				
20	16QAM	1	37	22.49	22.63	22.56	24	0		
20	16QAM	1	37	22.48	22.62	22.55				
20	16QAM	36	0	22.44	22.49	22.49	23.5	0.5		
20	16QAM	36	20	22.41	22.52	22.43				
20	16QAM	75	0	22.31	22.39	22.28	23.5	0.5		
20	16QAM	75	0	22.33	22.46	22.24				
20	16QAM	1	0	21.38	21.38	21.28	22.5	1.5		
20	16QAM	1	74	21.38	21.36	21.28				
20	16QAM	36	0	21.22	21.45	21.38	22.5	1.5		
20	16QAM	36	36	21.20	21.38	21.26				
20	16QAM	75	0	21.20	21.38	21.26	20.5	3.5		
20	16QAM	75	0	21.18	21.34	21.25				
20	256QAM	1	37	19.45	19.51	19.50	20.5	3.5		
20	256QAM	1	74	19.48	19.50	19.53				
20	256QAM	1	36	19.46	19.45	19.38	20.5	3.5		
20	256QAM	50	24	19.38	19.59	19.29				
20	256QAM	50	50	19.29	19.46	19.38	20.5	3.5		
20	256QAM	100	0	19.30	19.43	19.36				
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.65	19.68	19.65	24	0		
20	QPSK	1	25	19.78	19.84	19.82				
20	QPSK	1	49	20.00	20.00	20.00	24	0		
20	QPSK	25	0	20.08	20.07	20.08				
20	QPSK	25	25	20.00	20.00	20.00	24	0		
20	QPSK	25	25	20.00	20.00	20.00				
20	QPSK	50	0	20.02	20.03	20.05	24	0		
20	QPSK	50	0	20.02	20.03	20.05				
20	16QAM	1	0	19.98	19.98	19.98	24	0		
20	16QAM	1	25	19.98	19.98	19.98				
20	16QAM	1	25	19.98	19.98	19.98	24	0		
20	16QAM	1	25	19.98	19.98	19.98				
20	16QAM	12	12	19.92	19.94	19.94	23.5	0.5		
20	16QAM	12	12	19.92	19.94	19.94				
20	16QAM	25	25	19.94	19.94	19.94	23.5	0.5		
20	16QAM	25	25	19.94	19.94	19.94				
20	16QAM	50	0	19.92	19.94	19.94	23.5	0.5		
20	16QAM	50	0	19.92	19.94	19.94				
20	16QAM	50	24	19.88	19.96	19.94	23.5	0.5		
20	16QAM	50	24	19.88	19.96	19.94				
20	16QAM	50	50	19.88	19.96	19.94	23.5	0.5		
20	16QAM	50	50	19.88	19.96	19.94				
20	16QAM	100	0	19.88	19.96	19.94	23.5	0.5		
20	16QAM	100	0	19.88	19.96	19.94				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.82	22.87	22.77	24	0		
3	QPSK	1	8	22.71	22.73	22.72				
3	QPSK	1	14	22.62	22.75	22.69	24	0		
3	QPSK	1	14	22.67	22.78	22.69				
3	QPSK	5	4	22.54	22.69	22.67	24	0		
3	QPSK	5	7	22.49	22.59	22.55				
3	QPSK	5	7	22.58	22.69	22.61	24	0		
3	QPSK	5	7	22.59	22.69	22.55				
3	16QAM	1	8	22.52	22.65	22.54	24	0		
3	16QAM	1	8	22.49	22.61	22.56				
3	16QAM	1	8	22.40	22.61	22.56	23.5	0.5		
3	16QAM	8	4	22.46	22.56	22.49				
3	16QAM	8	4	22.40	22.42	22.43	23.5	0.5		
3	16QAM	8	4	22.42	22.49	22.45				
3	16QAM	15	0	22.39	22.48	22.37	23.5	0.5		
3	16QAM	15	0	22.46	22.49	22.43				
3	16QAM	1	0	22.25	22.44	22.35	23.5	0.5		
3	16QAM	1	14	22.39	22.34	22.25				
3	16QAM	1	14	21.40	21.50	21.39	22.5	1.5		
3	16QAM	8	4	21.30	21.37	21.30				
3	16QAM	8	7	21.27	21.42	21.35	20.5	3.5		
3	16QAM	8	7	21.26	21.37	21.26				
3	256QAM	1	8	19.47	19.51	19.44	20.5	3.5		
3	256QAM	1	8	19.42	19.50	19.47				
3	256QAM	1	8	19.42	19.45	19.38	20.5	3.5		
3	256QAM	8	4	19.33	19.43	19.35				
3	256QAM	8	4	19.33	19.43	19.35	20.5	3.5		
3	256QAM	8	4	19.33	19.43	19.35				
3	256QAM	15	0	19.35	19.41	19.34	20.5	3.5		
3	256QAM	15	0	19.33	19.38	19.36				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.84	22.75	22.81	24	0		
1.4	QPSK	1	0	22.86	22.76	22.86				
1.4	QPSK	1	5	22.50	22.71	22.67	24	0		
1.4	QPSK	3	1	22.71	22.71	22.61				
1.4	QPSK	3	1	22.57	22.70	22.64	24	0		
1.4	QPSK	3	1	22.53	22.59	22.59				
1.4	QPSK	6	0	22.65	22.66	22.57	24	0		
1.4	QPSK	6	0	22.62	22.74	22.61				
1.4	16QAM	1	0	22.62	22.74	22.61	24	0		
1.4	16QAM	1	0	22.62	22.74	22.61				
1.4	16QAM	1	0	22.45	22.67	22.55	24	0		
1.4	16QAM	1	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM	3	0	22.45	22.67	22.55	24	0		
1.4	16QAM	3	0	22.49	22.49	22.45				
1.4	16QAM									



Band 38 Other PA Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37855	38050	38150			
20	QPSK	1	0	22.73	22.76	22.86			
20	QPSK	1	48	22.63	22.68	22.81	24	0	
20	QPSK	50	0	22.48	22.53	22.68			
20	QPSK	50	0	21.70	21.80	21.87			
20	QPSK	50	24	21.64	21.74	21.86	23	1	
20	QPSK	50	48	21.63	21.68	21.80	23	1	
20	QPSK	100	0	21.59	21.72	21.85			
20	QPSK	100	0	21.56	21.66	21.85			
20	QPSK	100	24	20.57	20.69	20.89	22	2	
20	QPSK	100	48	20.57	20.70	20.89	22	2	
20	QPSK	100	72	20.55	20.67	20.89			
20	QPSK	100	96	20.54	20.66	20.89			
20	QPSK	100	120	20.53	20.65	20.89			
20	QPSK	100	144	20.52	20.64	20.89			
20	QPSK	100	168	20.51	20.63	20.89			
20	QPSK	100	192	20.50	20.62	20.89			
20	QPSK	100	216	20.49	20.61	20.89			
20	QPSK	100	240	20.48	20.60	20.89			
20	QPSK	100	264	20.47	20.59	20.89			
20	QPSK	100	288	20.46	20.58	20.89			
20	QPSK	100	312	20.45	20.57	20.89			
20	QPSK	100	336	20.44	20.56	20.89			
20	QPSK	100	360	20.43	20.55	20.89			
20	QPSK	100	384	20.42	20.54	20.89			
20	QPSK	100	408	20.41	20.53	20.89			
20	QPSK	100	432	20.40	20.52	20.89			
20	QPSK	100	456	20.39	20.51	20.89			
20	QPSK	100	480	20.38	20.50	20.89			
20	QPSK	100	504	20.37	20.49	20.89			
20	QPSK	100	528	20.36	20.48	20.89			
20	QPSK	100	552	20.35	20.47	20.89			
20	QPSK	100	576	20.34	20.46	20.89			
20	QPSK	100	600	20.33	20.45	20.89			
20	QPSK	100	624	20.32	20.44	20.89			
20	QPSK	100	648	20.31	20.43	20.89			
20	QPSK	100	672	20.30	20.42	20.89			
20	QPSK	100	696	20.29	20.41	20.89			
20	QPSK	100	720	20.28	20.40	20.89			
20	QPSK	100	744	20.27	20.39	20.89			
20	QPSK	100	768	20.26	20.38	20.89			
20	QPSK	100	792	20.25	20.37	20.89			
20	QPSK	100	816	20.24	20.36	20.89			
20	QPSK	100	840	20.23	20.35	20.89			
20	QPSK	100	864	20.22	20.34	20.89			
20	QPSK	100	888	20.21	20.33	20.89			
20	QPSK	100	912	20.20	20.32	20.89			
20	QPSK	100	936	20.19	20.31	20.89			
20	QPSK	100	960	20.18	20.30	20.89			
20	QPSK	100	984	20.17	20.29	20.89			
20	QPSK	100	1008	20.16	20.28	20.89			
20	QPSK	100	1032	20.15	20.27	20.89			
20	QPSK	100	1056	20.14	20.26	20.89			
20	QPSK	100	1080	20.13	20.25	20.89			
20	QPSK	100	1104	20.12	20.24	20.89			
20	QPSK	100	1128	20.11	20.23	20.89			
20	QPSK	100	1152	20.10	20.22	20.89			
20	QPSK	100	1176	20.09	20.21	20.89			
20	QPSK	100	1200	20.08	20.20	20.89			
20	QPSK	100	1224	20.07	20.19	20.89			
20	QPSK	100	1248	20.06	20.18	20.89			
20	QPSK	100	1272	20.05	20.17	20.89			
20	QPSK	100	1296	20.04	20.16	20.89			
20	QPSK	100	1320	20.03	20.15	20.89			
20	QPSK	100	1344	20.02	20.14	20.89			
20	QPSK	100	1368	20.01	20.13	20.89			
20	QPSK	100	1392	20.00	20.12	20.89			
20	QPSK	100	1416	19.99	20.11	20.89			
20	QPSK	100	1440	19.98	20.10	20.89			
20	QPSK	100	1464	19.97	20.09	20.89			
20	QPSK	100	1488	19.96	20.08	20.89			
20	QPSK	100	1512	19.95	20.07	20.89			
20	QPSK	100	1536	19.94	20.06	20.89			
20	QPSK	100	1560	19.93	20.05	20.89			
20	QPSK	100	1584	19.92	20.04	20.89			
20	QPSK	100	1608	19.91	20.03	20.89			
20	QPSK	100	1632	19.90	20.02	20.89			
20	QPSK	100	1656	19.89	20.01	20.89			
20	QPSK	100	1680	19.88	20.00	20.89			
20	QPSK	100	1704	19.87	19.99	20.89			
20	QPSK	100	1728	19.86	19.98	20.89			
20	QPSK	100	1752	19.85	19.97	20.89			
20	QPSK	100	1776	19.84	19.96	20.89			
20	QPSK	100	1800	19.83	19.95	20.89			
20	QPSK	100	1824	19.82	19.94	20.89			
20	QPSK	100	1848	19.81	19.93	20.89			
20	QPSK	100	1872	19.80	19.92	20.89			
20	QPSK	100	1896	19.79	19.91	20.89			
20	QPSK	100	1920	19.78	19.90	20.89			
20	QPSK	100	1944	19.77	19.89	20.89			
20	QPSK	100	1968	19.76	19.88	20.89			
20	QPSK	100	1992	19.75	19.87	20.89			
20	QPSK	100	2016	19.74	19.86	20.89			
20	QPSK	100	2040	19.73	19.85	20.89			
20	QPSK	100	2064	19.72	19.84	20.89			
20	QPSK	100	2088	19.71	19.83	20.89			
20	QPSK	100	2112	19.70	19.82	20.89			
20	QPSK	100	2136	19.69	19.81	20.89			
20	QPSK	100	2160	19.68	19.80	20.89			
20	QPSK	100	2184	19.67	19.79	20.89			
20	QPSK	100	2208	19.66	19.78	20.89			
20	QPSK	100	2232	19.65	19.77	20.89			
20	QPSK	100	2256	19.64	19.76	20.89			
20	QPSK	100	2280	19.63	19.75	20.89			
20	QPSK	100	2304	19.62	19.74	20.89			
20	QPSK	100	2328	19.61	19.73	20.89			
20	QPSK	100	2352	19.60	19.72	20.89			
20	QPSK	100	2376	19.59	19.71	20.89			
20	QPSK	100	2400	19.58	19.70	20.89			
20	QPSK	100	2424	19.57	19.69	20.89			
20	QPSK	100	2448	19.56	19.68	20.89			
20	QPSK	100	2472	19.55	19.67	20.89			
20	QPSK	100	2496	19.54	19.66	20.89			
20	QPSK	100	2520	19.53	19.65	20.89			
20	QPSK	100	2544	19.52	19.64	20.89			
20	QPSK	100	2568	19.51	19.63	20.89			
20	QPSK	100	2592	19.50	19.62	20.89			
20	QPSK	100	2616	19.49	19.61	20.89			
20	QPSK	100	2640	19.48	19.60	20.89			
20	QPSK	100	2664	19.47	19.59	20.89			
20	QPSK	100	2688	19.46	19.58	20.89			
20	QPSK	100	2712	19.45	19.57	20.89			
20	QPSK	100	2736	19.44	19.56	20.89			
20	QPSK	100	2760	19.43	19.55	20.89			
20	QPSK	100	2784	19.42	19.54	20.89			
20	QPSK	100	2808	19.41	19.53	20.89			
20	QPSK	100	2832	19.40	19.52	20.89			
20	QPSK	100	2856	19.39	19.51	20.89			
20	QPSK	100	2880	19.38	19.50	20.89			
20	QPSK	100	2904	19.37	19.49	20.89			
20	QPSK	100	2928	19.36	19.48	20.89			
20	QPSK	100	2952	19.35	19.47	20.89			
20	QPSK	100	2976	19.34	19.46	20.89			
20	QPSK	100	3000	19.33	19.45	20.89			
20	QPSK	100	3024	19.32	19.44	20.89			
20	QPSK	100	3048	19.31	19.43	20.89			
20	QPSK	100	3072	19.30	19.42	20.89			
20	QPSK	100	3096	19.29	19.41	20.89			
20	QPSK	100	3120	19.28	19.40	20.89			
20	QPSK	100	3144	19.27	19.39	20.89			
20	QPSK	100	3168	19.26	19.38	20.89			
20	QPSK	100	3192	19.25	19.37	20.89			
20	QPSK	100	3216	19.24	19.36	20.89			
20	QPSK	100	3240	19.23	19.35	20.89			
20	QPSK	100	3264	19.22	19.34	20.89			
20	QPSK	100	3288	19.21	19.33	20.89			
20	QPSK	100	3312	19.20	19.32	20.89			
20	QPSK	100	3336	19.19	19.31	20.89			
20	QPSK	100	3360	19.18	19.30	20.89			
20	QPSK	100	3384	19.17	19.29	20.89			
20	QPSK	100	3408	19.16	19.28	20.89			
20	QPSK	100	3432	19.15	19.27	20.89			
20	QPSK	100	3456	19.14	19.26	20.89			
20	QPSK	100	3480	19.13	19.25	20.89			
20	QPSK	100	3504	19.12	19.24	20.89			



Band 38 Other PA Ant2 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)				37965	38050	38160					
20	QPSK	1	0	22.03	22.05	22.01	23	0			
20	QPSK	1	48	21.91	21.87	21.87					
20	QPSK	1	88	21.87	21.92	21.87	22	1			
20	QPSK	50	0	20.95	21.04	20.90					
20	QPSK	50	24	20.90	20.88	20.90	22	1			
20	QPSK	50	48	20.84	20.89	20.86					
20	HQAM	1	0	21.05	21.11	20.99	22	1			
20	HQAM	1	48	20.91	21.05	20.86					
20	HQAM	50	0	19.96	20.02	19.98	21	2			
20	HQAM	50	24	19.94	19.99	19.91					
20	HQAM	50	48	19.84	19.93	19.86	21	2			
20	HQAM	100	0	20.04	20.09	19.94					
20	HQAM	1	48	20.02	20.07	19.94	21	2			
20	HQAM	1	88	19.95	20.03	19.90					
20	HQAM	50	0	18.98	19.11	18.95	20	3			
20	HQAM	50	24	18.96	19.02	18.87					
20	HQAM	50	48	18.84	18.97	18.89	20	3			
20	HQAM	100	0	18.91	18.99	18.87					
20	25QAM	1	0	17.08	17.13	17.08	18	5			
20	25QAM	1	48	17.07	17.10	17.04					
20	25QAM	1	88	16.90	17.05	16.93	18	5			
20	25QAM	50	0	16.93	17.05	16.90					
20	25QAM	50	24	16.84	16.95	16.83	18	5			
20	25QAM	50	48	16.88	17.01	16.88					
20	25QAM	100	0	17.00	17.08	17.00					
Channel											
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	0	22.03	22.01	21.93	23	0			
15	QPSK	1	37	21.76	21.84	21.77					
15	QPSK	1	74	21.76	21.86	21.71	22	1			
15	QPSK	36	0	20.83	20.85	20.80					
15	QPSK	36	20	20.86	20.89	20.80	22	1			
15	QPSK	36	38	20.73	20.81	20.77					
15	QPSK	75	0	21.01	21.00	20.91	22	1			
15	HQAM	1	0	20.88	21.01	20.87					
15	HQAM	1	37	20.76	20.89	20.69	21	2			
15	HQAM	1	74	20.77	20.92	20.77					
15	HQAM	36	0	19.85	19.96	19.86	21	2			
15	HQAM	36	20	19.85	19.92	19.80					
15	HQAM	36	38	19.80	19.93	19.84	21	2			
15	HQAM	75	0	19.83	19.89	19.82					
15	HQAM	75	0	19.85	19.97	19.85	20	3			
15	HQAM	36	0	18.85	18.90	18.83					
15	HQAM	36	20	18.88	18.90	18.83					
15	HQAM	36	38	18.80	18.92	18.81					
15	25QAM	75	0	18.94	18.91	18.85	18	5			
15	25QAM	1	0	18.96	18.96	18.96					
15	25QAM	1	37	18.79	18.99	18.88					
15	25QAM	1	74	18.84	18.94	18.85					
15	25QAM	36	0	16.85	16.96	16.85	18	5			
15	25QAM	36	20	16.75	16.82	16.77					
15	25QAM	36	38	16.76	16.82	16.81					
15	25QAM	75	0	16.86	16.91	16.80					
Channel											
Frequency (MHz)				37995	38050	38225	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	0	21.91	21.94	21.88	23	0			
5	QPSK	1	24	21.75	21.85	21.77					
5	QPSK	1	48	21.76	21.86	21.77	23	0			
5	QPSK	1	72	21.76	21.86	21.77					
5	QPSK	25	0	20.90	21.00	20.86	22	1			
5	QPSK	25	12	20.87	20.94	20.77					
5	QPSK	25	24	20.84	20.91	20.74	22	1			
5	QPSK	50	0	20.98	21.08	20.91					
5	HQAM	1	0	20.77	21.00	20.71	22	1			
5	HQAM	1	24	20.73	20.98	20.68					
5	HQAM	1	48	20.79	20.88	20.74	22	1			
5	HQAM	1	72	20.79	20.88	20.74					
5	HQAM	25	0	19.98	19.98	19.92	21	2			
5	HQAM	25	12	19.79	19.95	19.85					
5	HQAM	25	24	19.80	19.92	19.86	21	2			
5	HQAM	50	0	20.93	20.98	20.87					
5	HQAM	50	0	18.93	18.93	18.73	20	3			
5	HQAM	50	0	17.92	18.02	17.98					
5	25QAM	1	0	16.97	17.02	17.01	18	5			
5	25QAM	1	48	16.86	16.97	16.84					
5	25QAM	25	0	16.86	16.93	16.83	18	5			
5	25QAM	25	12	16.80	16.87	16.76					
5	25QAM	25	24	16.86	16.97	16.78					
5	25QAM	50	0	16.90	16.90	16.84					

Band 41 Other PA Ant2 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Power High Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel											
Frequency (MHz)				38970	40185	40620	41055	41490			
20	QPSK	1	0	22.07	22.07	22.27	22.27	22.19	22.19	23	0
20	QPSK	1	48	21.91	22.14	22.27	22.18	22.01			
20	QPSK	1	88	22.02	22.17	22.22	22.11	22.11	22	1	
20	QPSK	50	0	20.90	21.10	21.30	21.17	21.07			
20	QPSK	50	24	20.91	21.13	21.24	21.17	21.08	22	1	
20	QPSK	50	48	20.87	21.09	21.18	21.07	21.07			
20	QPSK	100	0	21.03	21.26	21.39	21.36	21.14	22	1	
20	16QAM	1	0	21.22	21.38	21.42	21.33	21.27			
20	16QAM	50	0	21.13	21.31	21.37	21.27	21.17	22	1	
20	16QAM	1	96	21.10	21.27	21.32	21.22	21.24			
20	16QAM	50	24	20.92	20.93	20.92	20.92	20.11	21	2	
20	16QAM	50	24	19.95	20.20	20.24	20.15	20.10			
20	16QAM	50	50	19.96	20.15	20.28	20.16	20.16	21	2	
20	64QAM	100	0	20.94	20.96	20.94	20.94	20.90			
20	64QAM	1	0	20.15	20.39	20.42	20.35	20.25	21	2	
20	64QAM	1	48	20.08	20.21	20.36	20.26	20.18			
20	64QAM	1	96	19.97	20.15	20.32	20.30	20.06	20	3	
20	64QAM	50	0	19.28	19.27	19.35	19.27	19.19			
20	64QAM	50	24	19.01	19.21	19.26	19.13	19.07	20	3	
20	64QAM	50	50	19.11	19.25	19.31	19.19	19.20			
20	64QAM	100	0	19.08	19.17	19.23	19.13	19.07	18	5	
20	25QAM	1	0	17.10	17.27	17.34	17.23	17.14			
20	25QAM	1	48	17.04	17.24	17.31	17.23	17.16	18	5	
20	25QAM	1	96	16.92	17.13	17.26	17.30	17.01			
20	25QAM	50	0	17.05	17.06	17.06	17.20	17.04	18	5	
20	25QAM	50	24	16.94	17.18	17.26	17.21	17.07			
20	25QAM	50	50	16.87	17.17	17.32	17.24	17.11			
Channel											
Frequency (MHz)				38970	40173	40620	41058	41515	Tune-up limit (dBm)		MPR (dB)
15	QPSK	1	0	22.00	22.03	22.03	22.03	22.19	23	0	
15	QPSK	1	37	21.80	22.07	22.19	22.09	21.92			
15	QPSK	1	74	21.87	22.04	22.08	22.05	21.88	22	0	
15	QPSK	50	0	20.90	21.07	21.17	21.13	21.03			
15	QPSK	50	24	20.79	21.08	21.12	21.06	20.83	22	1	
15	QPSK	50	48	20.78	21.07	21.11	21.03	20.83			
15	QPSK	100	0	20.93	21.16	21.29	21.26	21.04	22	1	
15	16QAM	1	0	20.90	21.11	21.24	21.22	20.99			
15	16QAM	1	37	21.12	21.31	21.29	21.22	21.19	22	1	
15	16QAM	1	74	21.06	21.17	21.25	21.13	21.03			
15	16QAM	50	0	20.96	21.20	21.28	21.14	21.12	21	2	
15	16QAM	50	24	20.90	21.05	21.02	21.04	20.87			
15	16QAM	50	48	20.84	21.06	21.05	21.00	20.87	21	2	
15	16QAM	100	0	20.94	20.96	20.94	20.94	20.90			
15	64QAM	1	0	20.11	20.30	20.36	20.31	20.25	20	3	
15	64QAM	1	37	20.02	20.11	20.33	20.31	20.08			
15	64QAM	1	74	19.94	20.05	20.33	20.33	19.84	20	3	
15	64QAM	50	0	19.87	19.88	19.98	19.10	19.13			
15	64QAM	50	24	19.86	19.85	19.15	19.86	19.03	20	3	
15	64QAM	50	48	19.84	19.84	19.15	19.86	19.07			
15	64QAM	100	0	19.84	19.08	19.11	19.09	19.03	18	5	
15	25QAM	1	0	17.16	17.34	17.41	17.30	17.21			
15	25QAM	1	37	16.98	17.16	17.27	17.14	17.05	18		5
15	25QAM	1	74	16.78	17.08	17.18	17.13	16.88			
15	25QAM	50	0	17.05	17.14	17.16	17.30	17.04	18		5
15	25QAM	50	24	16.85	17.10	17.16	17.17	16.87			
15	25QAM	50	48	16.91	17.04	17.21	17.16	16.97			
15	25QAM	100	0	16.96	17.08	17.21	17.13	17.05			
Channel											
Frequency (MHz)				38970	40160	40620	41050	41560	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	22.00	22.02	22.03	22.03	22.19	23	0	
15	QPSK	1	25	21.86	22.07	22.14	22.09	21.95			
15	QPSK	1	50	21.91	22.04	22.08	22.05	21.88	22	0	
15	QPSK	25	0	20.90	21.07	21.16	21.09	20.96			
15	QPSK	25	12	20.88	21.00	21.09	21.06	20.88	22	1	
15	QPSK	25	25	20.88	21.00	21.09	21.06	20.88			
15	QPSK	50	0	20.90	21.10	21.30	21.17	21.07	22	1	
15	QPSK	50	25	20.88	21.18	21.33	21.22	21.04			
15	16QAM	1	0	21.13	21.29	21.38	21.21	21.19	22	1	
15	16QAM	1	37	21.04	21.23	21.31	21.19	21.07			
15	16QAM	1	49	20.95	21.18	21.38	21.10	21.20	21	2	
15	16QAM	25	0	19.94	20.09	20.21	20.16	20.03			
15	16QAM	25	12	19.88	20.12	20.26	20.18	20.03	20	3	
15	16QAM	25	25	19.84	20.04	20.20	20.09	19.83			
15	64QAM	1	0	20.11	20.36	20.44	20.34	20.25	20	3	
15	64QAM	1	37	20.03	20.32	20.28	20.32	20.21			
15	64QAM	1	25	19.96	20.15	20.25	20.14	20.11	21	2	
15	64QAM	25	0	19.88	20.08	20.14	20.14	19.84			
15	64QAM	25	0	19.87	19.13	19.22	19.12	19.09	20	3	
15	64QAM	25	12	19.87	19.11	19.15	19.86	19.03			
15	64QAM	25	25	19.86	19.18	19.19	19.81	19.04	20	3	
15	64QAM	50	0	19.84	19.02	19.15	19.80	19.04			
15	25QAM	1	0	17.09	17.17	17.21	17.17	17.04	18	5	
15	25QAM	1	25	16.90	17.12	17.21	17.13	17.01			
15	25QAM	1	49	16.88	17.03	17.18	17.08	16.88	18		5
15	25QAM	25	0	17.04	17.18	17.23	17.17	17.03			
15	25QAM	25	12	16.79	17.14	17.17	17.12	16.84	18		5
15	25QAM	25	25	16.90	17.03	17.28	17.17	17.00			
15	25QAM	50	0	16.92	17.07	17.17	17.10	17.05			
Channel											
Frequency (MHz)				38965	40140	40620	41050	41560	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	22.00	22.02	22.03	22.03	22.19	23	0	
15	QPSK	1	12	21.84	22.08	22.16	22.06	21.62			
15	QPSK	1	24	21.83	22.06	22.14	22.01	21.62	22	1	
15	QPSK	12	0	20.86	21.07	21.25	21.10	20.94			
15	QPSK	12	7	20.82	21.01	21.16	21.05	20.96	22	1	
15	QPSK	25	0	20.86	21.07	21.25	21.10	20.94			
15	QPSK	25	0	20.88	21.11	21.29	21.29	21.03	22	1	
15	16QAM	1	0	21.17	21.20	21.38	21.25	21.17			
15	16QAM	1	12	21.07	21.18	21.14	21.14	21.14	22	1	
15	16QAM	1	24	20.99	21.15	21.24	21.17	21.17			
15	16QAM	12	0	20.87	21.06	21.16	21.06	20.90	21	2	
15	16QAM	12	7	20.88	20.96	20.16	20.07	20.00			
15	16QAM	12	13	19.88	20.10	20.18	20.11	19.98	21	2	
15	64QAM	1	0	20.04	20.32	20.32	20.31	20.26			
15	64QAM	1	12	19.94	20.10	20.22	20.20	20.13	21	2	
15	64QAM	1	24	19.90	20.14	20.31	20.31	20.01			
15	64QAM	12	0	19.03	19.18	19.24	19.18	19.08	20	3	
15	64QAM	12	7	19.06	19.15	19.18	19.05	19.00			
15	64QAM	12	13	18.97	19.14	19.15	19.07	18.87	20	3	
15	64QAM	25	0	19.03	19.03	19.11	19.07	18.99			
15	25QAM	1	0	17.09	17.15	17.16	17.17	17.04	18	5	
15	25QAM	1	12	16.96	17.15	17.16	17.13	17.07			
15	25QAM	1	24	16.87	17.01	17.17	17.06	16.92	18		5
15	25QAM	12	0	17.07	17.21	17.17	17.17	17.04			
15	25QAM	12	7	16.82	17.14	17.17	17.13	16.94	18		5
15	25QAM	12	13	16.92	17.08	17.23	17.20	17.06			
15	25QAM	50	0	16.92	17.07	17.17	17.10	17.06			



Band 2 Other PA Ant3 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-up rate (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	21.67	21.72	21.80	23	0
20	QPSK	1	49	21.67	21.68	21.68		
20	QPSK	1	99	21.64	21.69	21.81		
20	QPSK	50	0	21.64	21.69	21.59		
20	QPSK	50	50	21.63	21.63	21.63		
20	QPSK	50	100	21.66	21.68	21.81		
20	QPSK	100	0	21.59	21.65	21.56		
20	16QAM	1	49	21.54	21.61	21.52		
20	16QAM	1	99	21.48	21.55	21.46		
20	16QAM	50	0	21.43	21.54	21.45		
20	16QAM	50	50	21.33	21.49	21.40		
20	16QAM	50	100	21.44	21.50	21.37		
20	16QAM	100	0	21.31	21.49	21.36		
20	64QAM	1	0	21.37	21.49	21.44		
20	64QAM	1	49	21.33	21.43	21.37		
20	64QAM	1	99	21.35	21.39	21.27		
20	64QAM	50	0	20.22	20.31	20.22		
20	64QAM	50	50	20.13	20.22	20.16		
20	64QAM	50	100	20.12	20.27	20.21		
20	64QAM	100	0	20.09	20.19	20.09		
20	256QAM	1	49	18.26	18.39	18.33		
20	256QAM	1	99	18.25	18.34	18.28		
20	256QAM	50	0	18.32	18.42	18.36		
20	256QAM	50	50	18.20	18.29	18.15		
20	256QAM	50	100	18.26	18.32	18.23		
20	256QAM	100	0	18.17	18.27	18.19		
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.65	21.66	21.65	23	0
15	QPSK	1	25	21.46	21.53	21.50		
15	QPSK	1	49	21.41	21.48	21.40		
15	QPSK	1	74	21.48	21.52	21.48		
15	QPSK	25	13	21.48	21.52	21.50		
15	QPSK	25	25	21.38	21.49	21.42		
15	QPSK	25	49	21.48	21.52	21.48		
15	16QAM	1	0	21.39	21.49	21.40		
15	16QAM	1	25	21.40	21.47	21.38		
15	16QAM	1	49	21.40	21.49	21.39		
15	16QAM	1	74	21.40	21.49	21.39		
15	16QAM	25	12	21.22	21.42	21.38		
15	16QAM	25	25	21.38	21.47	21.33		
15	16QAM	50	0	21.22	21.33	21.21		
15	64QAM	1	0	21.26	21.43	21.34		
15	64QAM	1	25	21.26	21.43	21.38		
15	64QAM	1	49	21.23	21.38	21.24		
15	64QAM	1	74	21.23	21.38	21.24		
15	64QAM	25	0	20.15	20.24	20.11		
15	64QAM	25	25	20.05	20.15	20.11		
15	64QAM	25	49	20.02	20.16	20.07		
15	64QAM	50	0	20.02	20.14	20.06		
15	256QAM	1	26	18.15	18.26	18.22		
15	256QAM	1	49	18.22	18.31	18.19		
15	256QAM	1	74	18.27	18.33	18.23		
15	256QAM	25	12	18.06	18.20	18.06		
15	256QAM	25	25	18.12	18.26	18.05		
15	256QAM	50	0	18.11	18.26	18.13		
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.63	21.65	21.63	23	0
10	QPSK	1	12	21.44	21.50	21.47		
10	QPSK	1	24	21.44	21.52	21.39		
10	QPSK	1	36	21.54	21.60	21.45		
10	QPSK	12	7	21.42	21.50	21.43		
10	QPSK	12	13	21.35	21.46	21.43		
10	QPSK	12	14	21.48	21.61	21.42		
10	16QAM	1	0	21.43	21.57	21.41		
10	16QAM	1	12	21.36	21.42	21.34		
10	16QAM	1	24	21.48	21.58	21.33		
10	16QAM	12	7	21.37	21.48	21.31		
10	16QAM	12	13	21.25	21.43	21.35		
10	16QAM	12	14	21.39	21.47	21.34		
10	16QAM	25	0	21.23	21.39	21.28		
10	64QAM	1	0	21.29	21.39	21.31		
10	64QAM	1	12	21.21	21.29	21.33		
10	64QAM	1	24	21.25	21.27	21.21		
10	64QAM	12	0	20.11	20.19	20.16		
10	64QAM	12	13	20.00	20.11	20.07		
10	64QAM	12	14	19.98	20.10	20.12		
10	64QAM	25	0	20.03	20.10	20.03		
10	256QAM	1	12	18.19	18.26	18.27		
10	256QAM	1	24	18.11	18.21	18.15		
10	256QAM	12	0	18.20	18.26	18.26		
10	256QAM	12	7	18.06	18.16	18.10		
10	256QAM	12	13	18.18	18.26	18.10		
10	256QAM	25	0	18.03	18.27	18.11		
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.61	21.60	21.48	23	0
5	QPSK	1	8	21.43	21.50	21.46		
5	QPSK	1	14	21.50	21.54	21.37		
5	QPSK	1	18	21.58	21.62	21.42		
5	QPSK	8	4	21.39	21.49	21.40		
5	QPSK	8	7	21.35	21.42	21.42		
5	QPSK	8	14	21.50	21.60	21.45		
5	16QAM	1	0	21.48	21.53	21.40		
5	16QAM	1	8	21.44	21.43	21.39		
5	16QAM	1	14	21.35	21.46	21.39		
5	16QAM	8	0	21.30	21.49	21.40		
5	16QAM	8	4	21.25	21.42	21.31		
5	16QAM	15	0	21.33	21.42	21.24		
5	16QAM	15	0	21.23	21.32	21.26		
5	64QAM	1	0	21.27	21.39	21.24		
5	64QAM	1	8	21.27	21.39	21.21		
5	64QAM	1	14	21.25	21.39	21.21		
5	64QAM	15	0	20.15	20.19	20.18		
5	64QAM	15	0	20.05	20.11	20.13		
5	256QAM	1	8	18.25	18.36	18.15		
5	256QAM	1	14	18.18	18.31	18.17		
5	256QAM	1	18	18.17	18.19	18.19		
5	256QAM	8	0	18.24	18.22	18.26		
5	256QAM	8	4	18.17	18.19	18.05		
5	256QAM	15	0	18.11	18.19	18.15		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	21.62	21.62	21.52	23	0
1.4	QPSK	1	3	21.53	21.59	21.47		
1.4	QPSK	1	5	21.47	21.46	21.38		
1.4	QPSK	3	0	21.55	21.57	21.51		
1.4	QPSK	3	1	21.43	21.50	21.48		
1.4	16QAM	1	0	21.36	21.50	21.43		
1.4	16QAM	1	3	21.48	21.48	21.32		
1.4	16QAM	1	5	21.46	21.56	21.45		
1.4	16QAM	3	0	21.42	21.46	21.39		
1.4	16QAM	3	1	21.30	21.41	21.34		
1.4	16QAM	3	2	21.37	21.47	21.25		
1.4	16QAM	5	0	21.28	21.42	21.30		
1.4	16QAM	5	1	21.27	21.36	21.31		
1.4	16QAM	5	2	21.24	21.32	21.16		
1.4	16QAM	6	0	20.03	20.10	20.04		
1.4	16QAM	6	1	20.02	20.07	20.01		
1.4	16QAM	6	2	19.94	19.98	19.81		
1.4	16QAM	15	0	19.14	19.28	18.19		
1.4	64QAM	1	0	20.62	20.69	20.57		
1.4	64QAM	1	3	20.61	20.70	20.58		
1.4	64QAM	1	5	20.58	20.66	20.54		
1.4	64QAM	3	0	19.94	19.98	19.81		
1.4	64QAM	3	1	19.90	19.92	19.82		
1.4	256QAM	1	3	18.16	18.17	18.02		
1.4	256QAM	1	5	18.16	18.18	18.02		
1.4	256QAM	3	0	18.16	18.17	18.02		
1.4	256QAM	3	1	18.12	18.18	18.02		
1.4	256QAM	15	0	18.11	18.17	18.02		



Band 38 Other PA Ant3 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
20	QPSK	1	0	22.72	22.83	22.85			
20	QPSK	1	48	22.71	22.75	22.88	24	0	
20	QPSK	50	0	22.56	22.70	22.86			
20	QPSK	50	0	21.73	21.80	21.85			
20	QPSK	50	24	21.81	21.74	21.85	23	1	
20	QPSK	50	48	21.57	21.67	21.65			
20	HQAM	1	0	21.82	21.77	21.84	23	1	
20	HQAM	1	48	21.56	21.73	21.83			
20	HQAM	1	96	21.53	21.69	21.53			
20	HQAM	50	0	20.76	20.81	20.88			
20	HQAM	50	24	20.86	20.75	20.88	22	2	
20	HQAM	50	50	20.88	20.77	20.71			
20	HQAM	100	0	20.72	20.52	20.56			
20	HQAM	1	0	20.72	20.52	20.56			
20	HQAM	1	48	20.88	20.76	20.85	22	2	
20	HQAM	1	96	20.82	20.72	20.68			
20	HQAM	50	0	19.54	19.70	19.72			
20	HQAM	50	24	19.55	19.70	19.85			
20	HQAM	50	50	19.58	19.75	19.85	21	3	
20	HQAM	100	0	19.56	19.67	19.53			
20	25QAM	1	0	17.87	17.80	17.77			
20	25QAM	1	48	17.56	17.67	17.68	19	5	
20	25QAM	1	96	17.70	17.62	17.67			
20	25QAM	50	0	17.74	17.62	17.69			
20	25QAM	50	24	17.53	17.72	17.75	19	5	
20	25QAM	50	50	17.60	17.76	17.74			
20	25QAM	100	0	17.57	17.68	17.65			
Channel									
Frequency (MHz)				37925	38025	38125	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	22.72	22.75	22.82			
15	QPSK	1	37	22.89	22.78	22.86	24	0	
15	QPSK	1	74	22.44	22.61	22.86			
15	QPSK	36	0	21.83	21.69	21.66			
15	QPSK	36	20	21.58	21.62	21.58	23	1	
15	QPSK	36	37	21.54	21.67	21.66			
15	QPSK	75	0	21.58	21.68	21.68			
15	HQAM	1	0	21.59	21.59	21.53	23	1	
15	HQAM	1	37	21.47	21.54	21.61			
15	HQAM	1	74	21.38	21.57	21.60			
15	HQAM	36	0	20.70	20.77	20.83			
15	HQAM	36	20	20.85	20.72	20.85	22	2	
15	HQAM	36	37	20.82	20.67	20.58			
15	HQAM	75	0	20.49	20.66	20.43			
15	HQAM	75	0	20.62	20.78	20.66			
15	HQAM	1	37	20.56	20.63	20.54	22	2	
15	HQAM	74	20	20.52	20.61	20.47			
15	HQAM	36	0	19.58	19.68	19.55			
15	HQAM	36	20	19.48	19.64	19.67	21	3	
15	HQAM	36	37	19.56	19.67	19.48			
15	HQAM	75	0	19.47	19.52	19.44			
15	25QAM	1	0	17.78	17.66	17.63	19	5	
15	25QAM	1	37	17.74	17.67	17.65			
15	25QAM	1	74	17.57	17.72	17.56			
15	25QAM	36	0	17.70	17.76	17.54			
15	25QAM	36	20	17.82	17.69	17.66	19	5	
15	25QAM	36	37	17.81	17.76	17.58			
15	25QAM	75	0	17.58	17.62	17.61			
Channel									
Frequency (MHz)				25175	25275	25375	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.58	22.62	22.62			
10	QPSK	1	25	22.58	22.62	22.62	24	0	
10	QPSK	1	48	22.46	22.67	22.61			
10	QPSK	1	74	22.58	22.62	22.62			
10	QPSK	25	12	21.53	21.62	21.55	23	1	
10	QPSK	25	25	21.58	21.55	21.40			
10	QPSK	50	0	21.53	21.63	21.50			
10	HQAM	1	0	21.81	21.81	21.80	23	1	
10	HQAM	1	25	21.48	21.81	21.85			
10	HQAM	1	48	21.48	21.56	21.48			
10	HQAM	25	0	20.70	20.75	20.62			
10	HQAM	25	12	20.67	20.69	20.61	22	2	
10	HQAM	25	25	20.56	20.67	20.61			
10	HQAM	50	0	20.53	20.63	20.41			
10	HQAM	50	12	20.60	20.74	20.65			
10	HQAM	50	25	20.58	20.64	20.56	22	2	
10	HQAM	1	48	20.57	20.59	20.47			
10	HQAM	25	0	19.36	19.74	19.68			
10	HQAM	25	12	19.43	19.62	19.61	21	3	
10	HQAM	25	25	19.34	19.70	19.58			
10	HQAM	50	0	19.46	19.63	19.46			
10	25QAM	1	0	17.72	17.84	17.66			
10	25QAM	1	25	17.72	17.79	17.75	19	5	
10	25QAM	1	48	17.60	17.71	17.57			
10	25QAM	25	12	17.51	17.57	17.68			
10	25QAM	25	25	17.55	17.62	17.64	19	5	
10	25QAM	50	0	17.49	17.71	17.63			
10	25QAM	50	0	17.61	17.63	17.51			

Band 41 Other PA Ant3 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	22.62	22.69	22.63	22.65	22.76			
20	QPSK	1	48	22.54	22.66	22.72	22.67	22.68	24		0
20	QPSK	50	0	22.52	22.59	22.67	22.62	22.62			
20	QPSK	50	24	21.49	21.63	21.67	21.64	21.59	23		1
20	QPSK	50	48	21.38	21.53	21.62	21.52	21.50			
20	QPSK	100	0	21.50	21.62	21.71	21.60	21.60			
20	16QAM	1	0	21.64	21.72	21.82	21.75	21.74	23		1
20	16QAM	1	48	21.48	21.71	21.81	21.67	21.70			
20	16QAM	1	96	21.60	21.59	21.72	21.61	21.57			
20	16QAM	50	0	20.98	20.63	20.75	20.70	20.81			
20	16QAM	50	24	20.41	20.84	20.87	20.86	20.80	22		2
20	16QAM	50	50	20.59	20.66	20.71	20.66	20.62			
20	16QAM	100	0	20.47	20.62	20.69	20.52				
20	64QAM	1	0	20.82	20.80	20.81	20.85	20.80	22		2
20	64QAM	1	48	20.68	20.81	20.85	20.83	20.71			
20	64QAM	1	96	20.57	20.66	20.81	20.72	20.68			
20	64QAM	50	0	19.25	19.67	19.75	19.69	19.64			
20	64QAM	50	24	19.47	19.57	19.68	19.54	19.58	21		3
20	64QAM	50	50	19.43	19.59	19.71	19.57	19.62			
20	64QAM	100	0	19.54	19.54	19.63	19.59	19.49			
20	25QAM	1	0	17.63	17.62	17.71	17.66	17.57			
20	25QAM	1	48	17.51	17.62	17.66	17.56	17.52	19		5
20	25QAM	1	96	17.50	17.59	17.63	17.57	17.54			
20	25QAM	50	0	17.58	17.64	17.71	17.64	17.57			
20	25QAM	50	24	17.44	17.55	17.61	17.57	17.52	19		5
20	25QAM	50	50	17.49	17.67	17.67	17.58	17.52			
20	25QAM	100	0	17.47	17.60	17.65	17.47	17.61			
Channel											
Frequency (MHz)				39725	40173	40620	41058	41515			
15	QPSK	1	0	22.62	22.63	22.63	22.63	22.73			
15	QPSK	1	37	22.60	22.58	22.67	22.69	22.58	24		0
15	QPSK	1	74	22.47	22.63	22.64	22.49	22.48			
15	QPSK	36	0	21.87	21.62	21.65	21.65	21.48			
15	QPSK	36	20	21.40	21.57	21.61	21.55	21.45	23		1
15	QPSK	36	37	21.23	21.60	21.62	21.53	21.46			
15	QPSK	75	0	21.35	21.65	21.60	21.51	21.47			
15	16QAM	1	0	21.60	21.66	21.68	21.62	21.61	23		1
15	16QAM	1	37	21.43	21.60	21.64	21.61	21.48			
15	16QAM	1	74	21.51	21.51	21.68	21.59	21.49			
15	16QAM	36	0	20.49	20.67	20.65	20.63	20.52			
15	16QAM	36	20	20.38	20.52	20.51	20.52	20.52	22		2
15	16QAM	36	37	20.46	20.50	20.58	20.60	20.54			
15	16QAM	75	0	20.41	20.51	20.61	20.45	20.39			
15	64QAM	1	0	20.79	20.72	20.81	20.77	20.72			
15	64QAM	1	37	20.55	20.70	20.74	20.64	20.57	22		2
15	64QAM	74	20	20.51	20.58	20.76	20.66	20.63			
15	64QAM	36	0	19.50	19.54	19.58	19.55	19.55	21		3
15	64QAM	36	20	19.41	19.45	19.60	19.47	19.45			
15	64QAM	36	37	19.42	19.46	19.60	19.47	19.48			
15	64QAM	75	0	19.43	19.40	19.59	19.54	19.40			
15	25QAM	1	0	17.53	17.59	17.60	17.60	17.50	19		5
15	25QAM	1	37	17.38	17.62	17.61	17.49	17.46			
15	25QAM	1	74	17.38	17.56	17.54	17.52	17.47			
15	25QAM	36	0	17.51	17.52	17.67	17.57	17.58			
15	25QAM	36	20	17.46	17.47	17.56	17.47	17.49	19		5
15	25QAM	36	37	17.47	17.61	17.61	17.47	17.50			
Channel											
Frequency (MHz)				39700	40160	40620	41080	41540			
10	QPSK	1	0	22.63	22.63	22.63	22.63	22.73			
10	QPSK	1	25	22.49	22.61	22.68	22.58	22.57	24		0
10	QPSK	1	49	22.38	22.66	22.72	22.62	22.62			
10	QPSK	25	0	21.89	21.62	21.65	21.61	21.57			
10	QPSK	25	12	21.34	21.60	21.68	21.60	21.49	23		1
10	QPSK	25	37	21.20	21.62	21.69	21.53	21.48			
10	QPSK	50	0	21.40	21.58	21.59	21.49	21.48			
10	16QAM	1	0	21.54	21.68	21.75	21.71	21.63	23		1
10	16QAM	1	25	21.36	21.69	21.78	21.68	21.60			
10	16QAM	1	49	21.25	21.48	21.67	21.61	21.46			
10	16QAM	25	0	20.46	20.54	20.70	20.60	20.54			
10	16QAM	25	12	20.37	20.51	20.69	20.61	20.51	22		2
10	16QAM	25	37	20.45	20.46	20.61	20.59	20.53			
10	16QAM	50	0	20.33	20.45	20.59	20.50	20.45			
10	64QAM	1	0	20.79	20.74	20.85	20.77	20.70			
10	64QAM	1	25	20.55	20.69	20.75	20.67	20.60	22		2
10	64QAM	1	49	20.48	20.56	20.73	20.63	20.60			
10	64QAM	25	0	19.51	19.56	19.66	19.56	19.55			
10	64QAM	25	12	19.43	19.54	19.63	19.42	19.51	21		3
10	64QAM	25	37	19.38	19.53	19.69	19.47	19.56			
10	64QAM	50	0	19.48	19.42	19.50	19.47	19.40			
10	25QAM	1	0	17.50	17.51	17.62	17.52	17.43			
10	25QAM	1	25	17.47	17.40	17.56	17.44	17.51	19		5
10	25QAM	1	49	17.37	17.46	17.60	17.48	17.51			
10	25QAM	25	0	17.37	17.48	17.61	17.47	17.51	19		5
10	25QAM	25	12	17.37	17.46	17.61	17.47	17.51			
10	25QAM	25	37	17.37	17.48	17.63	17.42	17.46			
10	25QAM	50	0	17.37	17.63	17.66	17.49	17.53			
Channel											
Frequency (MHz)				39675	40148	40620	41080	41565			
5	QPSK	1	0	22.63	22.63	22.63	22.63	22.73			
5	QPSK	1	12	22.61	22.58	22.61	22.63	22.61	24		0
5	QPSK	1	24	22.43	22.61	22.68	22.56	22.56			
5	QPSK	12	0	21.61	21.62	21.68	21.57	21.58			
5	QPSK	12	7	21.37	21.50	21.61	21.59	21.48	23		1
5	QPSK	25	0	21.46	21.49	21.61	21.47	21.48			
5	16QAM	1	0	21.61	21.62	21.78	21.71	21.62			
5	16QAM	1	12	21.37	21.42	21.69	21.57	21.52			
5	16QAM	1	24	21.34	21.55	21.63	21.52	21.53			
5	16QAM	12	0	20.50	20.50	20.65	20.60	20.48	22		2
5	16QAM	12	7	20.36	20.51	20.60	20.52	20.48			
5	16QAM	12	13	20.38	20.42	20.65	20.59	20.52			
5	64QAM	1	0	20.84	20.81	20.92	20.84	20.82			
5	64QAM	1	0	20.88	20.75	20.85	20.73	20.74			
5	64QAM	1	12	20.34	20.73	20.80	20.66	20.57	22		2
5	64QAM	1	24	20.32	20.74	20.80	20.67	20.62			
5	64QAM	12	0	19.45	19.54	19.62	19.55	19.55			
5	64QAM	12	7	19.36	19.53	19.59	19.50	19.46			
5	64QAM	12	13	19.31	19.49	19.63	19.53	19.52			
5	64QAM	25	0	19.41	19.47	19.56	19.47	19.44			
5	25QAM	1	0	17.58	17.57	17.67	17.63	17.43			
5	25QAM	1	12	17.37	17.56	17.58	17.47	17.54			
5	25QAM	1	24	17.35	17.53	17.57	17.45	17.49			
5	25QAM	12	0	17.52	17.52	17.67	17.53	17.49			
5	25QAM	12	7	17.34	17.40	17.52	17.44	17.41			
5	25QAM	12	13	17.35	17.48	17.58	17.49	17.47			



Reduced Power Mode for Other PA DS12

Band 2 Other PA Ant0 Default									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power (dBm)	Power (dBm)	Power (dBm)	Turn-on time (ms)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.16	23.23	22.98			
20	QPSK	1	49	23.08	23.11	23.05	24	0	
20	QPSK	1	99	23.02	23.06	23.06			
20	QPSK	50	0	22.69	22.69	22.72			
20	QPSK	50	24	22.80	22.80	22.81			
20	QPSK	50	49	22.73	22.73	22.77	24	0	
20	QPSK	100	0	23.06	23.10	23.04			
20	QPSK	100	0	23.07	23.10	23.12			
20	QPSK	100	24	22.95	23.12	23.04	24	0	
20	QPSK	100	49	22.94	23.06	22.97			
20	QPSK	50	0	22.59	22.59	22.59			
20	QPSK	50	24	22.45	22.55	22.48	23.5	0.5	
20	QPSK	50	50	22.36	22.49	22.36			
20	QPSK	100	0	22.64	22.71	22.57			
20	QPSK	100	0	22.63	22.75	22.71			
20	QPSK	100	24	22.58	22.68	22.64	23.5	0.5	
20	QPSK	100	49	22.57	22.67	22.54			
20	QPSK	100	99	21.55	21.65	21.52			
20	QPSK	50	24	21.47	21.52	21.38	22.5	1.5	
20	QPSK	50	49	21.49	21.50	21.55			
20	QPSK	100	0	21.46	21.60	21.49			
20	QPSK	100	0	19.57	19.69	19.56	20.5	3.5	
20	QPSK	100	24	19.45	19.66	19.52			
20	QPSK	100	49	19.51	19.59	19.48			
20	QPSK	50	0	19.54	19.66	19.52	20.5	3.5	
20	QPSK	50	24	19.43	19.62	19.43			
20	QPSK	50	50	19.40	19.53	19.44			
20	QPSK	50	99	19.49	19.60	19.48	20.5	3.5	
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.57	18.60	18.62			
16	QPSK	1	0	23.09	23.19	22.89			
16	QPSK	1	31	23.00	23.06	22.94	24	0	
16	QPSK	1	74	22.94	22.99	22.90			
16	QPSK	36	0	22.64	22.68	22.68			
16	QPSK	36	29	22.68	22.71	22.66	24	0	
16	QPSK	75	0	22.94	22.98	22.91			
16	QPSK	75	0	22.95	23.07	22.95	24	0	
16	QPSK	100	0	22.59	22.59	22.59			
16	QPSK	100	24	22.45	22.55	22.48	23.5	0.5	
16	QPSK	100	36	22.34	22.48	22.38			
16	QPSK	36	59	22.31	22.44	22.22			
16	QPSK	75	0	22.58	22.68	22.55			
16	QPSK	75	0	22.53	22.72	22.54	23.5	0.5	
16	QPSK	100	0	22.44	22.62	22.46			
16	QPSK	100	24	21.50	21.50	21.47	22.5	1.5	
16	QPSK	100	36	21.42	21.46	21.34			
16	QPSK	100	59	21.36	21.42	21.35			
16	QPSK	100	75	21.36	21.42	21.35	20.5	3.5	
16	QPSK	50	0	19.54	19.65	19.48	20.5	3.5	
16	QPSK	50	24	19.43	19.62	19.43			
16	QPSK	50	59	19.38	19.58	19.31			
16	QPSK	50	94	19.43	19.55	19.31	20.5	3.5	
Channel									
Frequency (MHz)									
16	QPSK	1	0	23.11	23.15	22.95			
16	QPSK	1	31	23.02	23.06	22.94	24	0	
16	QPSK	1	49	22.93	22.99	22.90			
16	QPSK	25	0	22.56	22.68	22.58			
16	QPSK	25	29	22.61	22.66	22.59	24	0	
16	QPSK	25	59	22.69	22.70	22.67			
16	QPSK	50	0	22.85	23.05	23.00			
16	QPSK	50	24	22.90	23.12	23.02	24	0	
16	QPSK	100	0	22.52	23.00	22.92			
16	QPSK	100	24	22.46	23.00	22.87	23.5	0.5	
16	QPSK	100	36	22.34	22.48	22.38			
16	QPSK	100	59	22.34	22.48	22.38			
16	QPSK	100	75	22.34	22.48	22.38	23.5	0.5	
16	QPSK	100	94	22.34	22.48	22.38			
16	QPSK	50	0	22.52	22.63	22.46	23.5	0.5	
16	QPSK	50	24	21.50	21.52	21.39			
16	QPSK	50	49	21.42	21.46	21.34	22.5	1.5	
16	QPSK	50	94	21.36	21.42	21.35			
16	QPSK	100	0	21.31	21.42	21.35			
16	QPSK	100	24	21.31	21.42	21.35			
16	QPSK	100	36	21.31	21.42	21.35	22.5	1.5	
16	QPSK	100	59	21.31	21.42	21.35			
16	QPSK	100	75	21.31	21.42	21.35			
16	QPSK	100	94	21.31	21.42	21.35	22.5	1.5	
16	QPSK	50	0	21.40	21.39	21.28	22.5	1.5	
16	QPSK	50	24	21.22	21.31	21.28			
16	QPSK	50	49	21.09	21.20	21.08	21.5	2.5	
16	QPSK	50	94	20.43	20.51	20.44			
16	QPSK	100	0	20.36	20.47	20.33	21.5	2.5	
16	QPSK	100	24	20.38	20.48	20.35			
16	QPSK	100	36	20.43	20.53	20.43			
16	QPSK	100	59	19.45	19.53	19.45	19.5	4.5	
16	QPSK	100	75	19.45	19.53	19.45			
16	QPSK	100	94	19.45	19.53	19.45	19.5	4.5	
16	QPSK	50	0	18.45	18.53	18.45			
16	QPSK	50	24	18.34	18.38	18.39			
16	QPSK	50	49	18.65	18.69	18.60	19.5	4.5	
16	QPSK	50	94	18.65	18.69	18.60			
16	QPSK	100	0	18.65	18.69	18.60			
16	QPSK	100	24	18.65	18.69	18.60	19.5	4.5	
16	QPSK	100	36	18.65	18.69	18.60			
16	QPSK	100	59	18.65	18.69	18.60	19.5	4.5	
16	QPSK	100	75	18.65	18.69	18.60			
16	QPSK	100	94	18.65	18.69	18.60	19.5	4.5	
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.07	22.00	22.96			
3	QPSK	1	12	22.04	22.09	22.92	24	0	
3	QPSK	1	24	22.08	22.08	22.94			
3	QPSK	8	0	22.63	22.67	22.57			
3	QPSK	8	4	22.69	22.70	22.77	24	0	
3	QPSK	8	8	22.65	22.75	22.68			
3	QPSK	16	0	22.30	22.35	22.58			
3	QPSK	16	8	22.36	22.36	22.59			
3	QPSK	16	16	22.94	23.03	23.06	24	0	
3	QPSK	1	14	22.83	23.05	23.00			
3	QPSK	1	14	22.83	23.05	23.00			
3	QPSK	8	4	22.45	22.53	22.45	23.5	0.5	
3	QPSK	8	8	22.41	22.49	22.41			
3	QPSK	8	7	22.32	22.41	22.29			
3	QPSK	16	8	22.49	22.59	22.49	23.5	0.5	
3	QPSK	1	8	22.51	22.58	22.53			
3	QPSK	1	8	22.51	22.58	22.53			
3	QPSK	8	8	21.48	21.57	21.43			
3	QPSK	8	4	21.43	21.49	21.37	22.5	1.5	
3	QPSK	16	0	21.45	21.45	21.53			
3	QPSK	16	0	21.42	21.49	21.42			
3	QPSK	1	0	19.43	19.64	19.41	20.5	3.5	
3	QPSK	1	0	19.43	19.64	19.41			
3	QPSK	8	8	19.38	19.51	19.38	20.5	3.5	
3	QPSK	8	8	19.38	19.51	19.38			
3	QPSK	16	8	19.35	19.48	19.37	20.5	3.5	
3	QPSK	8	7	19.25	19.47	19.47			
3	QPSK	15	0	19.38	19.56	19.36			
Channel									
Frequency (MHz)									
14	QPSK	1	0	18.57	18.60	18.62			
14	QPSK	1	0	23.05	23.12	22.88			
14	QPSK	1	24	23.02	23.04	22.98	24	0	
14	QPSK	1	0	22.89	22.88	22.88			
14	QPSK	3	0	22.76	22.80	22.82			
14	QPSK	3	3	22.69	22.71	22.70	24	0	
14	QPSK	3	6	22.68	22.69	22.69			
14	QPSK	6	0	22.07	22.02	22.02			
14	QPSK	3	3	21.02	21.02	21.02	24	0	
14	QPSK	1	0	22.82	23.04	22.88			
14	QPSK	1	0	22.84	23.00	22.91			
14	QPSK	3	3	21.97	22.02	22.00	23.5	0.5	
14	QPSK	1	0	22.83	22.89	22.97			
14	QPSK	1	0	22.83	22.89	22.97			
14	QPSK	3	3	22.84	22.92	22.92	23.5	0.5	
14	QPSK	1	0	22.54	22.59	22.73			
14	QPSK	1	0	22.53	22.61	22.61	23.5	0.5	
14	QPSK	3	3	22.53	22.59	22.59			
14	QPSK	3	3	22.52	22.53	22.48			
14	QPSK	8	0	21.35	21.43	21.24	22.5	1.5	
14	QPSK	8	0	21.36	21.42	21.24			
14	QPSK	3	3	19.41	19.50	19.39			
14	QPSK	3	3	19.43	19.52	19.38	20.5	3.5	
14	QPSK	3	3	19.43	19.52	19.38			
14	QPSK	3	3	19.41	19.47	19.43			
14	QPSK	3	3	19.33	19.42	19.41	20.5	3.5	
14	QPSK	3	3	19.33	19.42	19.41			
14	QPSK	3	3	19.33	19.42	19.41	20.5	3.5	



Band 38 50 Other PA Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37965	38000	38160			
20	QPSK	1	0	23.34	23.41	23.30	24	0	
20	QPSK	1	48	23.22	23.29	23.24			
20	QPSK	1	96	23.14	23.24	23.17			
20	QPSK	50	0	22.33	22.43	22.35			
20	QPSK	50	24	22.38	22.33	22.21	23	1	
20	QPSK	50	48	22.25	22.29	22.14			
20	QPSK	100	0	22.27	22.36	22.23			
20	HQAM	1	0	22.26	22.35	22.21	23	1	
20	HQAM	1	48	22.25	22.29	22.14			
20	HQAM	1	96	22.15	22.26	22.22			
20	HQAM	50	0	21.41	21.46	21.34	22	2	
20	HQAM	50	24	21.35	21.39	21.20			
20	HQAM	50	50	21.17	21.26	21.19			
20	BAGM	1	0	21.26	21.24	21.26	22	2	
20	BAGM	1	48	21.21	21.27	21.17			
20	BAGM	1	96	21.06	21.21	21.15			
20	BAGM	50	0	20.34	20.48	20.43	21	3	
20	BAGM	50	24	20.24	20.35	20.27			
20	BAGM	50	50	20.30	20.41	20.27			
20	BAGM	100	0	20.26	20.49	20.26			
20	255QAM	1	0	18.21	18.46	18.38	19	5	
20	255QAM	1	48	18.28	18.37	18.21			
20	255QAM	1	96	18.20	18.33	18.27			
20	255QAM	50	0	22.26	22.36	22.27	23	1	
20	255QAM	50	24	22.26	22.28	22.07			
20	255QAM	50	48	22.19	22.23	22.07			
20	255QAM	50	24	22.15	22.25	22.12	19	5	
20	255QAM	50	50	22.14	22.25	22.19			
20	255QAM	100	0	20.14	20.28	20.18			
20	255QAM	100	0	20.13	20.28	20.18			
Channel									
Frequency (MHz)				37925	38000	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	23.13	23.15	23.12	24	0	
15	QPSK	1	37	23.14	23.24	23.21			
15	QPSK	1	74	23.07	23.16	23.00			
15	QPSK	36	0	22.24	22.30	22.21	23	1	
15	QPSK	36	20	22.29	22.29	22.14			
15	QPSK	36	40	22.26	22.27	22.07			
15	QPSK	75	0	22.19	22.22	22.15	23	1	
15	QPSK	75	0	22.19	22.22	22.15			
15	HQAM	1	0	22.19	22.29	22.14	23	1	
15	HQAM	1	37	22.14	22.29	22.05			
15	HQAM	1	74	22.07	22.15	22.08	22	2	
15	HQAM	36	0	21.29	21.39	21.25			
15	HQAM	36	20	21.34	21.38	21.21	22	2	
15	HQAM	36	40	21.14	21.18	21.11			
15	HQAM	75	0	21.16	21.22	21.22	22	2	
15	HQAM	75	0	21.16	21.22	21.22			
15	BAGM	1	37	21.12	21.19	21.05	22	2	
15	BAGM	1	37	21.12	21.19	21.05			
15	BAGM	74	20	20.99	21.12	21.05	21	3	
15	BAGM	74	20	20.97	20.93	20.29			
15	255QAM	1	0	18.28	18.36	18.33	19	5	
15	255QAM	1	37	18.12	18.24	18.23			
15	255QAM	1	74	18.12	18.24	18.23	19	5	
15	255QAM	36	0	18.16	18.32	18.16			
15	255QAM	36	20	18.09	18.32	18.07	19	5	
15	255QAM	36	40	18.07	18.14	18.15			
15	255QAM	75	0	18.15	18.32	18.28			
15	255QAM	75	0	18.15	18.32	18.28			
Channel									
Frequency (MHz)				37965	38000	38160	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	23.13	23.15	23.12	24	0	
10	QPSK	1	25	23.10	23.18	23.17			
10	QPSK	1	48	23.08	23.10	23.04	23	1	
10	QPSK	1	48	23.08	23.10	23.04			
10	QPSK	25	0	22.18	22.29	22.08	23	1	
10	QPSK	25	0	22.18	22.29	22.08			
10	QPSK	25	25	22.07	22.25	22.05	23	1	
10	QPSK	25	25	22.07	22.25	22.05			
10	HQAM	1	0	22.17	22.28	22.12	23	1	
10	HQAM	1	0	22.17	22.28	22.12			
10	HQAM	1	25	22.13	22.15	22.01	22	2	
10	HQAM	1	48	22.02	22.15	22.18			
10	HQAM	25	0	21.36	21.38	21.24	22	2	
10	HQAM	25	0	21.36	21.38	21.24			
10	HQAM	50	0	21.22	21.31	21.14	22	2	
10	HQAM	50	0	21.22	21.31	21.14			
10	BAGM	1	25	21.17	21.23	21.07	22	2	
10	BAGM	1	48	21.02	21.11	21.07			
10	BAGM	25	0	20.22	20.40	20.35	21	3	
10	BAGM	25	12	20.18	20.29	20.16			
10	BAGM	25	25	20.26	20.35	20.20	19	5	
10	BAGM	50	0	20.13	20.27	20.08			
10	255QAM	1	0	18.17	18.42	18.35	19	5	
10	255QAM	1	25	18.15	18.32	18.28			
10	255QAM	1	48	18.09	18.25	18.22	19	5	
10	255QAM	25	0	18.16	18.36	18.27			
10	255QAM	25	12	18.14	18.21	18.06	19	5	
10	255QAM	25	25	18.03	18.20	18.15			
10	255QAM	50	0	18.13	18.30	18.20			
10	255QAM	50	0	18.13	18.30	18.20			
Channel									
Frequency (MHz)				37975	38000	38225	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	23.21	23.31	23.22	24	0	
5	QPSK	1	12	23.14	23.22	23.18			
5	QPSK	1	24	23.07	23.15	23.02	23	1	
5	QPSK	12	0	22.21	22.28	22.21			
5	QPSK	12	7	22.21	22.30	22.17	23	1	
5	QPSK	12	13	22.12	22.19	22.09			
5	QPSK	25	0	22.17	22.29	22.20	23	1	
5	QPSK	25	0	22.17	22.29	22.20			
5	HQAM	1	0	22.14	22.22	22.16	23	1	
5	HQAM	1	12	22.07	22.15	22.03			
5	HQAM	1	24	22.07	22.14	22.06	22	2	
5	HQAM	12	0	21.37	21.34	21.28			
5	HQAM	12	7	21.12	21.23	21.08	22	2	
5	HQAM	12	13	21.13	21.19	21.14			
5	HQAM	25	0	21.20	21.29	21.23	22	2	
5	HQAM	25	0	21.18	21.31	21.26			
5	BAGM	1	24	20.91	21.13	21.11	21	3	
5	BAGM	12	7	20.15	20.32	20.18			
5	BAGM	12	13	20.24	20.30	20.16	19	5	
5	BAGM	25	0	20.30	20.31	20.19			
5	255QAM	1	0	18.24	18.37	18.27	19	5	
5	255QAM	1	12	18.14	18.25	18.21			
5	255QAM	1	24	18.12	18.20	18.21	19	5	
5	255QAM	12	0	18.20	18.36	18.17			
5	255QAM	12	7	18.13	18.31	18.17	19	5	
5	255QAM	12	13	18.08	18.14	18.06			
5	255QAM	25	0	18.14	18.26	18.21			

Band 41 Other PA Ant0 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Power Power High Ch / Freq	Power Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel										
Frequency (MHz)				39790	40185	40620	41068	41460		
20	QPSK	1	0	23.18	23.19	23.14	23.19	23.19	23.19	0
20	QPSK	1	48	22.99	23.15	23.26	22.98	23.13	24	0
20	QPSK	1	96	22.89	23.12	23.21	22.89	23.13		
20	QPSK	50	24	22.15	22.25	22.25	22.15	22.25		
20	QPSK	50	24	22.20	22.27	22.30	22.20	22.27	23	1
20	QPSK	50	24	22.25	22.30	22.30	22.25	22.30		
20	QPSK	100	0	22.19	22.26	22.25	22.19	22.23		
16QAM	1	0	22.23	22.28	22.41	22.19	22.29	22.27		
16QAM	1	48	22.11	22.21	22.27	22.11	22.21	22.21	23	1
16QAM	1	96	22.06	22.21	22.31	22.12	22.18			
16QAM	50	0	22.24	22.24	21.91	21.22	21.27			
16QAM	50	24	21.15	21.21	21.27	21.15	21.21		2	
16QAM	50	50	21.14	21.21	21.31	21.17	21.27			
16QAM	100	0	21.34	21.41	21.47	21.29	21.43			
16QAM	100	0	21.34	21.41	21.47	21.29	21.43			
64QAM	1	48	21.17	21.20	21.33	21.28	21.30	22	2	
64QAM	1	96	21.16	21.21	21.33	21.20	21.23			
64QAM	50	0	20.30	20.41	20.54	20.33	20.46			
64QAM	50	24	20.28	20.29	20.41	20.22	20.34			
64QAM	50	24	20.29	20.41	20.54	20.29	20.41	21	3	
64QAM	100	0	20.30	20.40	20.49	20.36	20.44			
256QAM	1	0	18.32	18.47	18.56	18.36	18.42			
256QAM	1	48	18.24	18.39	18.47	18.27	18.33	19	5	
256QAM	1	96	18.31	18.34	18.43	18.27	18.38			
256QAM	50	0	18.24	18.39	18.47	18.27	18.33			
256QAM	50	24	18.21	18.42	18.46	18.25	18.33	19	5	
256QAM	50	50	18.22	18.28	18.39	18.14	18.25			
256QAM	100	0	18.31	18.36	18.43	18.18	18.15			
Channel										
Frequency (MHz)				39790	40185	40620	41068	41460	Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	0	23.18	23.19	23.14	23.19	23.19	23.19	0
15	QPSK	1	37	22.81	23.13	23.19	22.87	23.07	24	0
15	QPSK	1	74	22.66	22.97	23.07	22.69	22.93		
15	QPSK	36	20	22.22	22.28	22.28	22.22	22.28		
15	QPSK	36	20	22.14	22.13	22.19	22.07	22.14	23	1
15	QPSK	36	20	22.15	22.16	22.21	22.15	22.16		
15	QPSK	75	0	22.18	22.15	22.24	22.01	22.17		
15	16QAM	1	0	22.15	22.26	22.33	22.04	22.25		
15	16QAM	1	37	22.12	22.08	22.13	22.01	22.08	23	1
15	16QAM	1	74	21.83	22.16	22.17	22.00	22.06		
15	16QAM	36	0	21.14	21.32	21.38	21.09	21.28		
15	16QAM	36	0	21.14	21.13	21.13	21.11	21.13	22	2
15	16QAM	36	39	21.01	21.16	21.28	21.03	21.12		
15	16QAM	75	0	21.11	21.25	21.29	21.11	21.14		
15	64QAM	1	37	21.12	21.06	21.20	21.23	21.19	22	2
15	64QAM	1	74	20.87	21.16	21.20	20.80	21.04		
15	64QAM	36	0	20.28	20.29	20.43	20.24	20.32		
15	64QAM	36	20	20.22	20.16	20.30	20.08	20.26	21	3
15	64QAM	36	20	20.22	20.16	20.30	20.08	20.26		
15	64QAM	75	0	20.27	20.35	20.40	20.30	20.33		
15	256QAM	1	0	18.32	18.36	18.43	18.18	18.23		
15	256QAM	1	37	18.19	18.35	18.39	18.16	18.26	19	5
15	256QAM	1	74	18.23	18.38	18.35	18.17	18.23		
15	256QAM	36	0	18.34	18.34	18.46	18.18	18.23		
15	256QAM	36	20	18.12	18.37	18.36	18.17	18.28	19	5
15	256QAM	36	20	17.99	18.16	18.36	18.03	18.14		
15	256QAM	75	0	18.17	18.18	18.26	18.11	18.18		
Channel										
Frequency (MHz)				39790	40185	40620	41068	41460	Tune-up limit (dBm)	MFR (dB)
10	QPSK	1	0	23.14	23.14	23.14	23.14	23.14	23.14	0
10	QPSK	1	25	22.65	23.05	23.18	22.96	23.01	24	0
10	QPSK	1	50	22.44	22.56	22.56	22.44	22.56		
10	QPSK	25	9	22.11	22.20	22.29	22.11	22.19		
10	QPSK	25	12	22.08	22.19	22.23	21.98	22.14	23	1
10	QPSK	25	12	22.10	22.14	22.18	22.10	22.11		
10	QPSK	50	0	22.12	22.21	22.28	21.90	22.13		
10	16QAM	1	0	22.15	22.29	22.30	22.06	22.17		
10	16QAM	1	25	22.08	22.18	22.22	21.98	22.08		
10	16QAM	1	48	21.96	22.17	22.27	22.02	22.10		
10	16QAM	25	0	21.11	21.34	21.42	21.15	21.23		
10	16QAM	25	12	21.17	21.22	21.24	21.17	21.22	22	2
10	16QAM	25	12	21.05	21.11	21.27	21.10	21.14		
10	64QAM	1	25	21.07	21.30	21.37	21.07	21.30		
10	64QAM	1	0	21.03	21.24	21.28	21.07	21.21		
10	64QAM	1	25	21.05	21.16	21.21	21.12	21.18	22	2
10	64QAM	25	0	20.29	21.11	21.11	20.08	20.08		
10	64QAM	25	0	20.29	20.33	20.47	20.25	20.39		
10	64QAM	25	12	20.12	20.25	20.28	20.14	20.19	21	3
10	64QAM	25	12	20.16	20.29	20.30	20.19	20.21		
10	64QAM	50	0	20.27	20.35	20.41	20.30	20.39		
10	64QAM	50	0	20.29	20.40	20.49	20.32	20.39		
10	256QAM	1	25	18.13	18.33	18.38	18.15	18.24	19	5
10	256QAM	1	48	18.21	18.22	18.37	18.17	18.25		
10	256QAM	25	0	18.20	18.26	18.36	18.14	18.23		
10	256QAM	25	12	18.14	18.34	18.37	18.20	18.24	19	5
10	256QAM	25	12	18.22	18.28	18.32	18.03	18.19		
10	256QAM	50	0	18.23	18.24	18.32	18.18	18.29		
Channel										
Frequency (MHz)				39790	40185	40620	41068	41460	Tune-up limit (dBm)	MFR (dB)
5	QPSK	1	0	23.10	23.10	23.11	23.11	23.11	23.11	0
5	QPSK	1	12	22.65	23.01	23.16	22.87	23.08	24	0
5	QPSK	1	24	22.55	22.96	23.06	22.55	22.96		
5	QPSK	12	0	22.09	22.21	22.27	22.04	22.17		
5	QPSK	12	0	22.08	22.21	22.18	22.04	22.17		
5	QPSK	24	0	22.12	22.24	22.29	22.11	22.25	23	1
5	QPSK	24	12	22.08	22.16	22.22	22.07	22.17		
5	16QAM	1	24	21.14	21.11	21.22	21.07	21.20		
5	16QAM	1	0	21.12	21.32	21.35	21.12	21.32		
5	16QAM	12	7	21.17	21.15	21.24	21.23	21.25	22	2
5	16QAM	12	13	21.03	21.06	21.26	21.04	21.15		
5	64QAM	1	21	20.31	21.14	21.14	20.14	21.14	22	2
5	64QAM	1	0	20.24	20.38	20.47	20.23	20.37		
5	64QAM	12	7	20.23	20.29	20.30	20.13	20.26		
5	64QAM	12	13	20.16	20.30	20.43	20.16	20.28	21	3
5	64QAM	24	0	20.28	20.36	20.37	20.29	20.40		
5	256QAM	1	24	18.22	18.35	18.36	18.18	18.27		
5	256QAM	1	12	18.11	18.26	18.43	18.11	18.21		
5	256QAM	1	24	18.16	18.23	18.37	18.22	18.25		
5	256QAM	12	13	18.15	18.26	18.43	18.14	18.28		
5	256QAM	12	7	18.12	18.28	18.43	18.16	18.19	19	5
5	256QAM	12	13	18.36	18.16	18.34	18.08	18.15		



Band 2 Other PA Ant1 DS12														
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up time (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.62	16.66	16.67	17.0	0						
20	QPSK	1	49	16.60	16.46	16.27								
20	QPSK	1	99	16.46	16.51	16.46								
20	QPSK	50	0	16.60	16.63	16.64	17.0	0						
20	QPSK	50	24	16.51	16.44	16.43								
20	QPSK	50	50	16.48	16.54	16.31								
20	QPSK	100	0	16.49	16.52	16.27	17.0	0						
20	QPSK	100	24	16.44	16.50	16.46								
20	QPSK	100	49	16.49	16.52	16.26								
20	16QAM	1	0	16.52	16.55	16.32	17.0	0						
20	16QAM	1	99	16.58	16.55	16.32								
20	16QAM	1	99	16.60	16.56	16.32								
20	16QAM	50	24	16.41	16.49	16.39	17.0	0						
20	16QAM	50	24	16.44	16.54	16.21								
20	16QAM	100	0	16.41	16.54	16.31								
20	64QAM	1	0	16.55	16.50	16.39	17.0	0						
20	64QAM	1	49	16.56	16.56	16.40								
20	64QAM	1	99	16.60	16.56	16.32								
20	64QAM	50	0	16.62	16.60	16.43	17.0	0						
20	64QAM	50	24	16.54	16.56	16.27								
20	64QAM	100	0	16.47	16.50	16.36								
20	256QAM	1	0	16.62	16.65	16.46	17.0	0						
20	256QAM	1	49	16.61	16.49	16.32								
20	256QAM	1	99	16.50	16.49	16.44								
20	256QAM	50	24	16.62	16.47	16.44	17.0	0						
20	256QAM	50	24	16.60	16.52	16.36								
20	256QAM	50	50	16.51	16.45	16.45								
20	256QAM	100	0	16.61	16.57	16.34	17.0	0						
20	256QAM	100	24	16.60	16.50	16.45								
20	256QAM	100	49	16.55	16.52	16.34								
Channel														
Frequency (MHz)														
15	QPSK	1	0	16.58	16.59	16.34	17.0	0						
15	QPSK	1	49	16.48	16.46	16.14								
15	QPSK	1	74	16.37	16.40	16.39								
15	QPSK	36	0	16.48	16.51	16.26	17.0	0						
15	QPSK	36	39	16.50	16.50	16.32								
15	QPSK	36	39	16.32	16.47	16.26								
15	16QAM	1	0	16.53	16.48	16.34	17.0	0						
15	16QAM	1	37	16.36	16.46	16.29								
15	16QAM	1	37	16.52	16.46	16.29								
15	16QAM	36	0	16.22	16.60	16.16	17.0	0						
15	16QAM	36	20	16.31	16.24	16.24								
15	16QAM	36	20	16.45	16.32	16.24								
15	16QAM	75	0	16.48	16.50	16.36	17.0	0						
15	64QAM	1	0	16.47	16.20	16.36								
15	64QAM	1	49	16.53	16.20	16.36								
15	64QAM	1	74	16.39	16.32	16.14	17.0	0						
15	64QAM	36	0	16.43	16.50	16.31								
15	64QAM	36	39	16.50	16.44	16.30								
15	64QAM	75	0	16.48	16.50	16.36	17.0	0						
15	256QAM	1	0	16.59	16.44	16.16								
15	256QAM	1	37	16.54	16.40	16.15								
15	256QAM	1	74	16.38	16.40	16.22	17.0	0						
15	256QAM	36	0	16.36	16.45	16.22								
15	256QAM	36	39	16.52	16.37	16.20								
15	256QAM	75	0	16.42	16.34	16.26	17.0	0						
15	256QAM	75	0	16.55	16.37	16.21								
15	256QAM	75	0	16.45	16.37	16.21								
Channel														
Frequency (MHz)														
10	QPSK	1	0	16.65	16.66	16.65	17.0	0						
10	QPSK	1	25	16.43	16.43	16.14								
10	QPSK	1	49	16.34	16.43	16.31								
10	QPSK	25	12	16.48	16.42	16.38	17.0	0						
10	QPSK	25	25	16.31	16.47	16.24								
10	QPSK	25	25	16.45	16.40	16.14								
10	16QAM	1	0	16.40	16.40	16.19	17.0	0						
10	16QAM	1	25	16.35	16.45	16.29								
10	16QAM	25	0	16.34	16.47	16.20								
10	16QAM	25	12	16.42	16.30	16.26	17.0	0						
10	16QAM	25	12	16.47	16.26	16.27								
10	16QAM	25	0	16.43	16.49	16.26								
10	64QAM	1	0	16.52	16.38	16.22	17.0	0						
10	64QAM	1	49	16.58	16.37	16.11								
10	64QAM	1	49	16.54	16.38	16.28								
10	64QAM	25	0	16.44	16.30	16.26	17.0	0						
10	64QAM	25	0	16.48	16.32	16.26								
10	64QAM	25	12	16.48	16.32	16.26								
10	256QAM	1	0	16.59	16.45	16.28	17.0	0						
10	256QAM	1	25	16.51	16.40	16.29								
10	256QAM	1	49	16.50	16.40	16.26								
10	256QAM	25	12	16.56	16.31	16.26	17.0	0						
10	256QAM	25	12	16.57	16.25	16.25								
10	256QAM	25	25	16.31	16.32	16.25								
10	256QAM	25	25	16.45	16.30	16.28	17.0	0						
10	256QAM	25	25	16.55	16.32	16.25								
10	256QAM	25	25	16.45	16.30	16.28								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.63	16.63	16.67	17.0	0						
5	QPSK	1	12	16.42	16.33	16.07								
5	QPSK	1	24	16.41	16.31	16.28								
5	QPSK	12	0	16.47	16.41	16.41	17.0	0						
5	QPSK	12	7	16.48	16.42	16.38								
5	QPSK	12	13	16.39	16.55	16.31								
5	16QAM	1	0	16.43	16.47	16.24	17.0	0						
5	16QAM	1	0	16.28	16.47	16.19								
5	16QAM	1	12	16.43	16.65	16.30								
5	16QAM	12	0	16.45	16.53	16.28	17.0	0						
5	16QAM	12	0	16.30	16.48	16.28								
5	16QAM	12	7	16.19	16.20	16.23								
5	16QAM	25	0	16.48	16.42	16.22	17.0	0						
5	16QAM	25	0	16.39	16.54	16.43								
5	16QAM	25	0	16.38	16.42	16.47								
5	64QAM	1	0	16.58	16.54	16.11	17.0	0						
5	64QAM	12	0	16.43	16.53	16.21								
5	64QAM	12	7	16.54	16.40	16.14								
5	64QAM	25	0	16.44	16.29	16.27	17.0	0						
5	64QAM	25	0	16.42	16.40	16.40								
5	64QAM	25	0	16.32	16.39	16.37								
5	256QAM	1	0	16.60	16.51	16.23	17.0	0						
5	256QAM	1	12	16.40	16.31	16.23								
5	256QAM	1	24	16.42	16.31	16.23								
5	256QAM	12	0	16.41	16.36	16.24	17.0	0						
5	256QAM	12	7	16.42	16.46	16.27								
5	256QAM	12	13	16.45	16.45	16.26								
5	256QAM	25	0	16.51	16.41	16.27	17.0	0						
5	256QAM	25	0	16.63	16.46	16.28								
5	256QAM	25	0	16.45	16.45	16.28								
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.49	16.49	16.29	17.0	0						
3	QPSK	1	8	16.53	16.46	16.07								
3	QPSK	1	14	16.43	16.43	16.04								
3	QPSK	8	0	16.38	16.62	16.06	17.0	0						
3	QPSK	8	4	16.42	16.54	16.02								
3	QPSK	8	14	16.43	16.47	16.04								
3	16QAM	1	0	16.44	16.56	16.17	17.0	0						
3	16QAM	1	8	16.41	16.62	16.06								
3	16QAM	1	14	16.53	16.53	16.01								
3	16QAM	8	0	16.43	16.44	16.33	17.0	0						
3	16QAM	8	4	16.49	16.53	16.25								
3	16QAM	8	14	16.62	16.42	16.18								
3	16QAM	8	7	16.50	16.46	16.24	17.0	0						
3	16QAM	16	0	16.19	16.31	16.29								
3	16QAM	16	0	16.47	16.48	16.05								
3	64QAM	1	0	16.45	16.56	16.29	17.0	0						
3	64QAM	8	0	16.48	16.38	16.13								
3	64QAM	8	4	16.49	16.51	16.09								
3	64QAM	8	8	16.53	16.51	16.23	17.0	0						
3	64QAM	8	14	16.63	16.49	16.11								
3	64QAM	8	14	16.63	16.49	16.11								
3	256QAM	1	0	16.53	16.40	16.41	17.0	0						
3	256QAM	1	8	16.47	16.47	16.02								
3	256QAM	1	14	16.42	16.40	16.48								
3	256QAM	8	0	16.41	16.43	16.19	17.0	0						
3	256QAM	8	4	16.48	16.48	16.02								
3	256QAM	8	7	16.35	16.36	16.13								
3	256QAM	16	0	16.56	16.47	16.28	17.0	0						
3	256QAM	16	0	16.67	16.49	16.28								
3	256QAM	16	0	16.48	16.48	16.28								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	16.48	16.54	16.26	17.0	0						
1.4	QPSK	1	8	16.40	16.40	16.01								
1.4	QPSK	1	16	16.45	16.35	16.12								
1.4	QPSK	3	0	16.61	16.60	16.58	17.0	0						
1.4	QPSK	3	8	16.54	16.54	16.18								
1.4	QPSK	3	16	16.45	16.45	16.15								
1.4	16QAM	1	0	16.28	16.57	16.21	17.0	0						
1.4	16QAM	1	8	16.43	16.43	16.15								
1.4	16QAM	1	16	16.53	16.53	16.20								
1.4	16QAM	3	0	16.20	16.46	16.28	17.0	0						
1.4	16QAM	3	8	16.52	16.46	16.31								
1.4	16QAM	3	16	16.52	16.46	16.31								
1.4	16QAM	16	0	16.40	16.37	16.41	17.0	0						
1.4														



Band 38 Other PA Ant1 DS12											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)				37965	38000	38100					
				23.75	23.75	23.75					
20	QPSK	1	0	19.05	19.05	19.03	20.2	0			
20	QPSK	1	48	19.05	19.04	19.04					
20	QPSK	1	88	19.01	19.08	19.01	20.2	0			
20	QPSK	50	0	18.93	19.15	19.02					
20	QPSK	50	24	19.03	19.01	18.96	20.2	0			
20	QPSK	50	48	19.07	19.04	19.02					
20	QPSK	100	0	18.80	19.03	18.87	20.2	0			
20	16QAM	1	0	18.90	19.08	18.94					
20	16QAM	1	99	18.80	19.18	18.86	20.2	0			
20	16QAM	1	99	18.84	19.04	18.92					
20	16QAM	50	24	18.97	18.96	18.92	20.2	0			
20	16QAM	50	24	18.94	19.04	18.92					
20	16QAM	50	50	18.82	19.03	18.87	20.2	0			
20	16QAM	100	0	18.96	19.01	18.92					
20	16QAM	100	1	0	18.98	18.95	20.2	0			
20	16QAM	1	48	19.07	19.04	19.00					
20	16QAM	1	99	18.93	19.05	18.95	20.2	0			
20	16QAM	50	0	19.02	19.04	19.00					
20	16QAM	50	24	18.94	19.00	18.91	20.2	0			
20	16QAM	50	50	19.00	19.01	18.95					
20	16QAM	100	0	18.91	19.19	18.86	20.2	0			
20	256QAM	1	0	17.50	17.50	17.50			18.7	1.5	
20	256QAM	1	48	17.54	17.46	17.38					
20	256QAM	1	99	17.56	17.46	17.38	20.2	0			
20	256QAM	50	0	17.34	17.48	17.38					
20	256QAM	50	24	17.45	17.42	17.42	18.7	1.5			
20	256QAM	50	50	17.44	17.33	17.42					
20	256QAM	100	0	17.38	17.32	17.38	20.2	0			
Channel											
Frequency (MHz)				37925	38000	38115	Tune-up limit (dBm)	MPR (dB)			
				23.75	23.75	23.75					
15	QPSK	1	0	18.93	19.15	19.03	20.2	0			
15	QPSK	1	37	19.05	18.97	18.92					
15	QPSK	1	74	18.96	18.84	18.98	20.2	0			
15	QPSK	25	0	18.88	19.04	18.90					
15	QPSK	25	12	19.00	18.97	18.82	20.2	0			
15	QPSK	25	25	18.92	19.01	18.82					
15	QPSK	50	0	18.84	19.02	18.66	20.2	0			
15	16QAM	1	0	18.79	18.91	18.80					
15	16QAM	1	99	18.81	19.03	18.72	20.2	0			
15	16QAM	1	48	18.77	19.09	18.78					
15	16QAM	25	0	18.75	18.88	18.76	20.2	0			
15	16QAM	25	12	18.79	18.79	18.80					
15	16QAM	25	25	18.84	18.83	18.75	20.2	0			
15	16QAM	50	0	18.98	18.86	18.98					
15	16QAM	50	0	18.75	18.84	18.78	20.2	0			
15	16QAM	1	25	18.85	19.06	18.88					
15	16QAM	1	74	18.85	19.04	18.77	20.2	0			
15	16QAM	25	0	18.90	19.00	18.68					
15	16QAM	25	12	18.90	18.84	18.76	20.2	0			
15	16QAM	25	25	18.88	18.87	18.77					
15	16QAM	50	0	18.92	18.80	18.79	20.2	0			
15	16QAM	50	12	17.28	17.45	17.40					
15	256QAM	1	25	17.28	17.42	17.32	18.7	1.5			
15	256QAM	1	48	17.52	17.46	17.37					
15	256QAM	25	0	17.42	17.47	17.42	18.7	1.5			
15	256QAM	25	12	17.26	17.44	17.21					
15	256QAM	25	25	17.30	17.36	17.28	18.7	1.5			
15	256QAM	50	0	17.27	17.39	17.24					
Channel											
Frequency (MHz)				37975	38000	38225	Tune-up limit (dBm)	MPR (dB)			
				23.75	23.75	23.75					
5	QPSK	1	0	18.93	19.15	19.03	20.2	0			
5	QPSK	1	12	18.84	18.87	18.81					
5	QPSK	1	25	18.91	18.91	18.87	20.2	0			
5	QPSK	12	0	18.77	19.11	18.90					
5	QPSK	12	7	18.98	18.96	18.92	20.2	0			
5	QPSK	12	13	18.79	18.82	18.73					
5	QPSK	25	0	18.82	18.82	18.76	20.2	0			
5	16QAM	1	0	18.81	18.82	18.82					
5	16QAM	1	25	18.81	18.81	18.80	20.2	0			
5	16QAM	12	0	18.72	19.04	18.81					
5	16QAM	12	13	18.89	18.87	18.80	20.2	0			
5	16QAM	12	7	18.79	18.84	18.88					
5	16QAM	25	0	18.86	19.00	18.86	20.2	0			
5	16QAM	12	13	18.69	19.03	18.71					
5	16QAM	25	0	18.82	18.77	18.70	20.2	0			
5	16QAM	1	0	18.86	18.86	18.86					
5	16QAM	1	12	18.84	18.83	18.81	20.2	0			
5	16QAM	1	25	18.85	18.83	18.79					
5	16QAM	1	0	18.90	18.92	18.86	20.2	0			
5	16QAM	1	12	18.91	18.92	18.87					
5	16QAM	1	25	18.91	18.91	18.86	20.2	0			
5	16QAM	12	7	17.42	17.42	17.36					
5	256QAM	1	12	17.30	17.38	17.28	18.7	1.5			
5	256QAM	1	24	17.37	17.34	17.17					
5	256QAM	12	0	17.47	17.47	17.28	18.7	1.5			
5	256QAM	12	7	17.25	17.38	17.42					
5	256QAM	12	10	17.42	17.14	17.42	18.7	1.5			
5	256QAM	25	0	17.27	17.34	17.24					



Band 38 Other PA Ant2 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37950	38050	38150				
20	QPSK	1	0	22.03	22.03	22.03	23	0		
20	QPSK	1	48	21.91	21.97	21.87				
20	QPSK	1	88	21.87	21.92	21.81				
20	QPSK	50	0	20.95	21.04	20.90				
20	QPSK	50	24	20.90	20.98	20.90				
20	QPSK	50	48	20.84	20.99	20.90	22	1		
20	QPSK	100	0	21.05	21.11	20.99				
20	HQAM	1	0	20.91	21.05	20.96				
20	HQAM	1	48	20.84	20.99	20.90				
20	HQAM	1	96	20.82	20.96	20.90				
20	HQAM	50	0	19.96	20.10	19.97	21	2		
20	HQAM	50	24	19.90	20.02	19.98				
20	HQAM	50	50	19.84	20.09	19.91				
20	HQAM	100	0	19.84	20.02	19.98				
20	HQAM	100	0	20.03	20.13	20.00				
20	HQAM	1	48	20.02	20.07	19.94	21	2		
20	HQAM	1	96	19.96	20.03	19.90				
20	HQAM	50	0	18.98	19.11	18.95				
20	HQAM	50	24	18.96	19.02	18.87				
20	HQAM	50	50	18.94	19.07	18.99				
20	HQAM	100	0	18.91	18.99	18.87	20	3		
20	256QAM	1	0	17.08	17.13	17.08				
20	256QAM	1	48	17.07	17.10	17.04				
20	256QAM	1	96	16.90	17.05	16.93				
20	256QAM	50	0	16.93	17.05	16.90				
20	256QAM	50	24	16.84	16.95	16.83	18	5		
20	256QAM	50	48	16.88	17.01	16.88				
20	256QAM	100	0	16.88	17.01	16.88				
Channel										
Frequency (MHz)				37925	38025	38125	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	22.03	22.03	22.03	23	0		
15	QPSK	1	37	21.76	21.84	21.77				
15	QPSK	1	74	21.76	21.86	21.71				
15	QPSK	36	0	20.83	20.95	20.80				
15	QPSK	36	20	20.86	20.89	20.80				
15	QPSK	75	0	21.01	21.00	20.91	22	1		
15	HQAM	1	0	20.98	21.01	20.87				
15	HQAM	1	37	20.76	20.89	20.80				
15	HQAM	1	74	20.77	20.92	20.77				
15	HQAM	36	0	19.85	19.96	19.86				
15	HQAM	36	20	19.85	19.92	19.80	21	2		
15	HQAM	36	36	19.80	19.93	19.84				
15	HQAM	75	0	19.83	19.89	19.82				
15	HQAM	75	0	19.82	19.86	19.80				
15	HQAM	1	37	19.81	19.84	19.80				
15	HQAM	1	74	19.87	19.89	19.81	20	3		
15	HQAM	36	0	18.85	19.07	18.85				
15	HQAM	36	20	18.86	18.90	18.83				
15	HQAM	75	0	18.86	18.95	18.73				
15	256QAM	1	0	16.98	17.09	17.05				
15	256QAM	1	37	16.92	17.03	16.90	18	5		
15	256QAM	1	74	16.79	16.90	16.88				
15	256QAM	36	0	16.81	16.93	16.87				
15	256QAM	36	20	16.75	16.82	16.77				
15	256QAM	36	36	16.76	16.82	16.81				
15	256QAM	75	0	16.84	16.91	16.80	18	5		
Channel										
Frequency (MHz)				37950	38050	38150	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	21.91	21.99	21.88	23	0		
5	QPSK	1	12	21.78	21.85	21.77				
5	QPSK	1	24	21.75	21.85	21.77				
5	QPSK	12	0	20.86	21.01	20.82				
5	QPSK	12	7	20.79	20.95	20.76				
5	QPSK	12	13	20.87	20.79	20.77	22	1		
5	QPSK	25	0	21.06	20.99	20.90				
5	HQAM	1	0	20.87	21.02	20.92				
5	HQAM	1	12	20.81	20.89	20.88				
5	HQAM	1	24	20.76	20.90	20.76				
5	HQAM	12	0	19.82	19.98	19.86	21	2		
5	HQAM	12	7	19.81	19.91	19.87				
5	HQAM	12	13	19.87	19.94	19.81				
5	HQAM	25	0	19.79	19.98	19.90				
5	HQAM	1	0	19.98	20.07	19.91				
5	HQAM	1	12	19.87	19.89	19.90	21	2		
5	HQAM	1	24	19.94	19.98	19.88				
5	HQAM	12	0	18.88	19.08	18.88				
5	HQAM	12	7	18.93	18.89	18.74				
5	HQAM	12	13	18.91	19.00	18.89				
5	HQAM	25	0	18.83	18.93	18.76	18	5		
5	256QAM	1	0	16.97	17.05	16.98				
5	256QAM	1	12	16.93	16.95	17.01				
5	256QAM	1	24	16.82	16.91	16.81				
5	256QAM	12	0	16.82	17.02	16.83				
5	256QAM	12	7	16.75	16.88	16.71	18	5		
5	256QAM	12	13	16.88	16.97	16.78	18	5		



Band 38 Other PA Ant3 DSI2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel										
Frequency (MHz)				37465	38050	38150				
20	QPSK	1	0	17.06	17.06	16.94				
20	QPSK	1	48	17.04	17.01	16.81		18.2	0	
20	QPSK	1	88	16.96	17.02	16.94				
20	QPSK	50	0	16.95	16.97	16.84				
20	QPSK	50	24	16.94	16.93	16.80				
20	QPSK	50	50	16.97	17.00	16.88		17.2	1	
20	QPSK	100	0	16.85	16.92	16.77				
20	HQAM	1	48	16.94	16.84	16.74		18.2	0	
20	HQAM	1	88	16.97	17.00	16.81				
20	HQAM	1	99	16.83	16.81	16.84				
20	HQAM	50	0	16.94	16.96	16.79				
20	HQAM	50	24	16.97	17.00	16.81		18.2	0	
20	HQAM	50	50	16.89	16.89	16.74				
20	HQAM	100	0	16.84	17.00	16.72				
20	HQAM	100	24	16.85	16.85	16.66		18.2	0	
20	HQAM	100	50	16.97	17.01	16.87				
20	HQAM	100	99	16.89	16.88	16.85				
20	25QAM	1	0	16.84	16.92	16.83				
20	25QAM	1	48	16.86	16.92	16.81		18.2	0	
20	25QAM	1	99	16.89	16.92	16.80				
20	25QAM	50	0	16.94	16.95	16.80				
20	25QAM	50	24	16.91	16.93	16.71		18.2	0	
20	25QAM	50	50	16.79	16.80	16.82				
20	25QAM	100	0	16.85	16.92	16.81				
Channel										
Frequency (MHz)				37455	38050	38175	Turn-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	17.05	16.93	16.92				
15	QPSK	1	37	16.84	16.81	16.76		18.2	0	
15	QPSK	1	74	16.73	16.86	16.84				
15	QPSK	36	0	16.90	16.88	16.81				
15	QPSK	36	20	16.74	16.75	16.73		17.2	1	
15	QPSK	75	0	16.72	16.85	16.87				
15	HQAM	1	0	16.95	16.85	16.81				
15	HQAM	1	74	16.76	16.82	16.81		18.2	0	
15	HQAM	36	0	16.85	16.82	16.76				
15	HQAM	36	20	16.75	16.77	16.54		18.2	0	
15	HQAM	75	0	16.81	16.80	16.81				
15	HQAM	75	20	16.74	16.75	16.51		18.2	0	
15	HQAM	100	0	16.86	16.82	16.80				
15	HQAM	100	20	16.78	16.79	16.54				
15	HQAM	100	36	16.85	16.82	16.81				
15	HQAM	100	75	16.74	16.75	16.51		18.2	0	
15	HQAM	100	100	16.81	16.80	16.81				
15	25QAM	1	0	16.89	16.92	16.86				
15	25QAM	1	37	16.84	16.82	16.81		18.2	0	
15	25QAM	1	74	16.73	16.86	16.84				
15	25QAM	36	0	16.89	16.88	16.81				
15	25QAM	36	20	16.74	16.75	16.51		18.2	0	
15	25QAM	75	0	16.79	16.85	16.87				
15	25QAM	75	20	16.75	16.76	16.51		18.2	0	
15	25QAM	100	0	16.84	16.82	16.81				
15	25QAM	100	20	16.76	16.77	16.51		18.2	0	
15	25QAM	100	36	16.85	16.82	16.81				
15	25QAM	100	75	16.74	16.75	16.51		18.2	0	
15	25QAM	100	100	16.81	16.80	16.81				
Channel										
Frequency (MHz)				25175	25175	25175	Turn-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	17.03	17.03	16.84				
5	QPSK	1	12	16.96	16.90	16.86		18.2	0	
5	QPSK	1	24	16.86	16.86	16.86				
5	QPSK	12	0	16.75	16.81	16.71				
5	QPSK	12	7	16.84	16.76	16.80		17.2	1	
5	QPSK	12	13	16.86	16.73	16.69				
5	QPSK	25	0	16.74	16.82	16.81				
5	HQAM	1	0	16.80	16.88	16.85				
5	HQAM	1	12	16.88	16.86	16.78		18.2	0	
5	HQAM	1	24	16.87	16.78	16.75				
5	HQAM	12	0	16.96	16.81	16.86				
5	HQAM	12	7	16.83	16.75	16.80		18.2	0	
5	HQAM	12	13	16.71	16.81	16.85				
5	HQAM	25	0	16.74	16.89	16.85				
5	HQAM	25	0	16.88	16.87	16.87				
5	HQAM	25	7	16.76	16.82	16.84		18.2	0	
5	HQAM	25	13	16.87	16.87	16.87				
5	HQAM	25	25	16.82	16.90	16.87				
5	HQAM	12	0	16.86	16.88	16.85		18.2	0	
5	HQAM	12	7	16.71	16.72	16.65				
5	HQAM	12	13	16.74	16.88	16.88		18.2	0	
5	HQAM	25	0	16.74	16.89	16.85				
5	HQAM	25	7	16.71	16.72	16.65				
5	HQAM	25	13	16.71	16.76	16.71		18.2	0	
5	HQAM	25	25	16.81	16.89	16.85				

Band 41 Other PA Ant3 DSI2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	17.05	17.06	17.03	17.13	17.05		
20	QPSK	1	48	17.04	17.05	17.15	17.08	16.94	18.2	0
20	QPSK	1	88	16.96	16.92	17.01	17.07	16.81		
20	QPSK	50	0	16.98	17.05	17.19	16.93	16.89		
20	QPSK	50	24	17.06	16.90	17.16	16.88	16.76	18.2	0
20	QPSK	50	50	16.93	16.80	16.87	16.82	16.80		
20	QPSK	100	0	16.87	17.01	17.12	16.88	16.85		
20	15QAM	1	0	17.02	16.99	17.09	17.00	16.81		
20	15QAM	50	24	16.90	16.85	16.89	17.02	16.82		18.2
20	15QAM	100	0	16.85	17.03	17.03	16.81	16.87		
20	15QAM	100	24	16.92	16.81	16.82	16.82	16.84		
20	15QAM	100	50	16.95	16.79	16.87	16.85	16.75		18.2
20	64QAM	1	48	16.85	17.03	17.02	16.73	16.88		18.2
20	64QAM	1	99	17.01	16.90	17.13	17.05	16.73		
20	64QAM	50	24	16.78	16.90	16.92	16.97	16.71		
20	64QAM	50	24	16.81	17.05	16.90	16.94	16.71		18.2
20	64QAM	50	50	16.93	16.87	16.99	16.90	16.82		
20	64QAM	100	0	16.86	16.93	16.89	16.98	16.90		
20	25QAM	1	0	16.83	16.87	16.95	16.81	16.73		
20	25QAM	1	48	16.86	16.90	17.11	16.90	16.74		18.2
20	25QAM	1	99	16.84	16.92	16.96	17.09	16.84		
20	25QAM	50	0	16.97	16.91	16.91	16.78	16.76		
20	25QAM	50	24	16.95	16.93	16.95	17.09	16.72	18.2	0
20	25QAM	50	50	16.78	16.92	16.81	17.08	16.85		
20	25QAM	100	0	16.88	16.95	16.93	16.73	16.83		
Channel										
Frequency (MHz)				39725	40173	40620	41058	41515	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	0	17.05	16.93	17.13	17.03	16.92		
15	QPSK	1	37	16.83	16.82	16.88	16.88	16.84	18	0
15	QPSK	1	74	16.70	16.84	16.82	17.01	16.72		
15	QPSK	36	0	16.87	16.80	17.03	16.95	16.86		18.2
15	QPSK	36	20	16.83	16.76	17.03	16.81	16.72		18.2
15	QPSK	75	0	16.86	16.80	16.74	16.81	16.86		
15	15QAM	1	0	17.02	16.94	16.90	17.03	16.81		
15	15QAM	1	74	16.85	16.80	16.79	16.89	16.73		18.2
15	15QAM	1	74	16.87	16.88	16.75	16.85	16.65		
15	15QAM	36	0	16.82	16.78	16.90	16.93	16.72		
15	15QAM	36	20	16.82	16.75	16.90	16.89	16.72		18.2
15	15QAM	36	36	16.71	16.86	16.99	16.81	16.66		
15	15QAM	75	0	17.03	16.76	17.08	16.90	16.73		
15	64QAM	1	37	16.78	16.94	16.87	16.73	16.82		18.2
15	64QAM	74	0	16.90	16.85	16.88	17.06	16.81		
15	64QAM	36	0	16.78	16.83	16.87	16.90	16.85		
15	64QAM	36	20	16.75	16.87	16.82	16.81	16.82		18.2
15	64QAM	36	36	16.85	16.80	16.89	16.87	16.69		
15	64QAM	75	0	16.92	16.84	16.74	16.93	16.71		
15	25QAM	1	0	16.81	16.74	16.77	16.81	16.59		
15	25QAM	1	37	16.83	16.77	16.84	16.73	16.73		18.2
15	25QAM	1	74	16.73	16.89	16.90	16.99	16.64		
15	25QAM	36	0	16.87	16.97	16.79	16.82	16.81		18.2
15	25QAM	36	20	16.78	16.82	16.94	17.00	16.84		
15	25QAM	36	36	16.80	16.90	16.77	16.97	16.74	18.2	0
15	25QAM	75	0	16.84	16.97	16.77	16.91	16.75		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41560	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	0	17.03	17.04	17.03	17.14	17.04		
10	QPSK	1	25	17.04	17.07	17.01	17.09	16.94	18	0
10	QPSK	1	45	16.96	16.93	17.04	17.06	16.87		
10	QPSK	25	0	16.89	17.00	17.09	17.01	16.73		
10	QPSK	25	12	16.89	16.81	16.93	16.94	16.86		18.2
10	QPSK	25	25	16.90	16.86	16.94	16.97	16.82		
10	QPSK	50	0	16.87	16.83	16.72	16.76	16.82		
10	15QAM	1	0	16.83	16.86	17.03	17.08	16.73		
10	15QAM	1	45	16.96	16.90	16.88	17.09	16.71		18.2
10	15QAM	1	49	16.74	16.77	16.88	16.69	16.62		
10	15QAM	25	12	16.77	16.76	16.93	16.91	16.76		
10	15QAM	25	25	16.84	16.84	16.84	16.89	16.69		18.2
10	15QAM	50	0	16.83	16.85	16.84	16.81	16.67		
10	64QAM	1	25	17.03	17.12	17.00	17.04	16.81		
10	64QAM	1	49	16.91	16.75	17.16	17.10	16.79		
10	64QAM	1	25	16.87	17.03	17.02	17.02	16.81		18.2
10	64QAM	25	12	16.80	16.81	16.84	16.84	16.69		
10	64QAM	25	0	16.75	16.78	16.76	16.94	16.55		
10	64QAM	25	12	16.80	16.84	16.82	16.80	16.65		18.2
10	64QAM	25	25	16.84	16.84	16.84	16.84	16.69		
10	64QAM	50	0	16.84	16.74	16.69	16.82	16.75		
10	64QAM	50	12	16.83	16.78	16.81	16.81	16.58		
10	25QAM	1	25	16.85	16.56	17.05	16.83	16.70		
10	25QAM	1	49	16.70	16.88	16.95	17.06	16.83		
10	25QAM	25	12	16.86	16.82	16.84	16.83	16.62		18.2
10	25QAM	25	25	16.77	16.81	16.85	16.86	16.69		
10	25QAM	25	25	16.81	16.74	16.68	16.86	16.67		
10	25QAM	50	0	16.80	16.88	16.85	16.85	16.66		
Channel										
Frequency (MHz)				39675 <th>40144</th> <th>40620<th>41093<th>41565</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th></th></th>	40144	40620 <th>41093<th>41565</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th></th>	41093 <th>41565</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	41565	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	0	17.03	17.03	17.18	17.08	16.99		
5	QPSK	1	12	17.03	17.06	16.94	16.95	16.87	18	0
5	QPSK	1	24	16.93	16.96	16.93	16.93	16.84		
5	QPSK	12	0	16.88	16.91	16.93	16.97	16.84		
5	QPSK	12	7	16.91	16.95	16.96	16.99	16.77		
5	15QAM	1	0	16.81	16.87	17.06	17.06	16.73		18.2
5	15QAM	1	24	16.92	16.87	17.00	17.00	16.84		
5	15QAM	12	12	16.83	16.72	16.89	16.79	16.84		
5	15QAM	1	24	16.71	16.72	16.89	16.81	16.69		
5	15QAM	12	7	16.86	16.84	16.85	16.85	16.73		
5	64QAM	1	12	16.83	16.62	16.75	16.80	16.56	18.2	0
5	64QAM	12	13	16.72	16.93	16.99	16.98	16.85		
5	64QAM	1	0	17.03	16.84	16.83	16.83	16.81		
5	64QAM	1	12	16.87	17.02	16.94	16.88	16.91		
5	64QAM	1	24	16.92	16.92	16.80	17.04	16.88		18.2
5	64QAM	12	13	16.80	16.70	16.81	16.80	16.62		
5	64QAM	12	13	16.80	16.72	16.80	16.82	16.80		
5	64QAM	25	0	16.84	16.80	16.80	16.83	16.75		
5	25QAM	1	12	16.82	16.78	16.88	16.87	16.65		
5	25QAM	12	13	16.82	16.86	17.05	16.88	16.61		
5	25QAM	1	24	16.82	16.86	16.75	16.93	16.69		
5	25QAM	12	5	16.89	16.72	16.94	16.85	16.74		
5	25QAM	12	7	16.75	16.71	16.93	17.02	16.88		
5	25QAM	12	13	16.91	17.01	16.94	16.95	16.89		
5	25QAM	12	13	16.85	16.95	16.85	16.85	16.84		



Reduced Power Mode for Other PA DSI3 Simultaneous

Band 2 Other PA Ant0 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.17	22.20	22.23	23	0	
20	QPSK	1	0	22.17	22.20	22.23			
20	QPSK	1	99	22.15	22.20	22.07			
20	QPSK	50	0	22.09	22.15	22.07			
20	QPSK	50	24	22.03	22.09	22.12			
20	QPSK	100	0	22.05	22.10	22.10			
20	QPSK	100	0	22.05	22.10	22.10			
20	16QAM	1	0	22.12	22.09	22.20	23	0	
20	16QAM	1	49	21.98	22.12	22.06			
20	16QAM	50	24	21.99	22.12	22.08			
20	16QAM	50	0	21.98	22.12	22.16			
20	16QAM	100	0	21.93	22.12	22.01			
20	16QAM	1	0	22.07	22.20	22.08	23	0	
20	16QAM	1	99	22.07	22.20	22.11			
20	16QAM	50	0	21.42	21.54	21.32	22	1	
20	16QAM	50	24	21.35	21.49	21.18			
20	16QAM	100	0	21.48	21.57	21.38	20.5	2.5	
20	16QAM	100	0	21.39	21.60	21.48			
20	16QAM	1	0	19.43	19.44	19.37	20.5	2.5	
20	16QAM	1	99	19.45	19.52	19.48			
20	16QAM	50	24	19.43	19.52	19.32	20.5	2.5	
20	16QAM	50	24	19.34	19.52	19.32			
20	16QAM	100	0	19.43	19.52	19.32	20.5	2.5	
20	16QAM	100	0	19.43	19.52	19.32			
20	16QAM	100	0	19.43	19.52	19.32			
20	16QAM	100	0	19.43	19.52	19.32			
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.67	18.69	18.71	23	0	
16	QPSK	1	0	18.67	18.69	18.71			
16	QPSK	1	37	22.08	22.10	21.98	23	0	
16	QPSK	1	74	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK	36	39	21.99	22.00	22.03	23	0	
16	QPSK	36	39	21.99	22.00	22.03			
16	QPSK								



Band 38 Other PA Ant0 DSI3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37950	38050	38150				
20	QPSK	1	0	21.90	21.95	21.96	23.4	0		
20	QPSK	1	48	21.72	21.80	21.71				
20	QPSK	1	88	21.51	21.50	21.76				
20	QPSK	50	0	21.69	21.50	21.82				
20	QPSK	50	24	21.87	21.88	21.83	23.4	0		
20	QPSK	50	48	21.83	21.86	21.85				
20	QPSK	100	0	21.72	21.87	21.86				
20	QPSK	100	24	21.86	21.76	21.76				
20	HQAM	1	48	21.58	21.61	21.75	23.4	0		
20	HQAM	1	96	21.76	21.79	21.76				
20	HQAM	50	0	21.27	21.31	21.22				
20	HQAM	50	24	21.27	21.31	21.22				
20	HQAM	50	50	20.13	20.07	21.11	22.9	0.5		
20	HQAM	100	0	21.22	21.26	21.15				
20	HQAM	100	24	21.14	21.15	21.04				
20	HQAM	1	48	21.62	21.68	21.19				
20	HQAM	1	96	20.96	21.13	20.96	21.9	1.5		
20	HQAM	50	0	20.12	20.30	20.21				
20	HQAM	50	24	20.03	20.19	20.10				
20	HQAM	50	50	20.15	20.32	20.27				
20	HQAM	100	0	20.12	20.24	20.12	19.9	3.5		
20	25QAM	1	0	18.33	18.25	18.25				
20	25QAM	1	48	18.22	18.30	18.20				
20	25QAM	1	96	18.11	18.18	18.10				
20	25QAM	50	0	18.35	18.28	18.30	19.9	3.5		
20	25QAM	50	24	18.04	18.33	18.10				
20	25QAM	50	50	18.01	18.25	18.04				
20	25QAM	100	0	18.04	18.30	18.10				
Channel										
Frequency (MHz)				37925	38025	38125	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	21.73	21.65	21.72	23.4	0		
15	QPSK	1	37	21.81	21.71	21.61				
15	QPSK	1	74	21.84	21.77	21.74				
15	QPSK	36	0	21.64	21.85	21.76				
15	QPSK	36	20	21.83	21.83	21.73	23.4	0		
15	QPSK	36	38	21.76	21.83	21.69				
15	QPSK	75	0	21.52	21.76	21.74				
15	HQAM	1	0	21.86	21.68	21.58				
15	HQAM	1	37	21.75	21.63	21.66	23.4	0		
15	HQAM	1	74	21.58	21.63	21.76				
15	HQAM	36	0	21.09	21.25	21.18				
15	HQAM	36	20	20.32	21.04	21.07				
15	HQAM	36	36	20.92	21.04	21.07	22.9	0.5		
15	HQAM	75	0	21.16	21.28	21.03				
15	HQAM	75	24	21.13	20.97	21.75				
15	HQAM	1	37	20.93	20.98	21.02				
15	25QAM	1	0	20.93	21.02	21.03	21.9	1.5		
15	25QAM	1	48	20.93	20.95	20.97				
15	25QAM	1	96	20.97	20.99	20.11				
15	25QAM	50	0	20.95	20.95	20.95				
15	25QAM	50	0	20.06	20.12	19.95	19.9	3.5		
15	25QAM	1	0	18.12	18.21	18.25				
15	25QAM	1	37	18.05	18.05	18.05				
15	25QAM	1	74	17.91	18.00	18.04				
15	25QAM	36	0	18.06	18.40	18.20	19.9	3.5		
15	25QAM	36	20	18.04	18.27	18.04				
15	25QAM	36	36	17.95	18.26	18.07				
15	25QAM	75	0	18.12	17.96	18.01				
15	25QAM	75	24	18.04	18.30	18.10				
Channel										
Frequency (MHz)				37900	38000	38100	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	21.67	21.67	21.67	23.4	0		
10	QPSK	1	25	21.83	21.84	21.82				
10	QPSK	1	48	21.50	21.89	21.68				
10	QPSK	25	0	21.65	21.77	21.62				
10	QPSK	25	12	21.65	21.77	21.62	23.4	0		
10	QPSK	25	25	21.81	21.76	21.87				
10	HQAM	1	0	21.72	21.69	21.69				
10	HQAM	1	25	21.80	21.82	21.77				
10	HQAM	1	48	21.67	21.62	21.66	22.9	0.5		
10	HQAM	25	0	21.11	21.18	21.11				
10	HQAM	25	12	21.04	21.16	20.96				
10	HQAM	25	25	21.05	21.06	21.04				
10	HQAM	50	0	21.02	21.18	20.96	22.9	0.5		
10	HQAM	50	12	21.04	21.03	21.04				
10	HQAM	50	25	21.05	21.06	21.04				
10	HQAM	100	0	21.02	21.18	20.96				
10	HQAM	1	25	20.93	20.94	21.08	22.9	0.5		
10	HQAM	1	48	20.95	21.13	20.92				
10	HQAM	25	0	20.05	20.18	20.00				
10	HQAM	25	12	20.02	20.11	20.03				
10	HQAM	25	25	20.13	20.16	20.12	21.9	1.5		
10	HQAM	50	0	19.95	20.25	19.95				
10	25QAM	1	0	18.13	18.17	18.21				
10	25QAM	1	48	18.15	18.20	18.21				
10	25QAM	1	96	17.95	18.08	18.04	19.9	3.5		
10	25QAM	25	0	18.07	18.32	18.08				
10	25QAM	25	12	18.06	18.35	18.06				
10	25QAM	25	25	17.94	18.07	18.02				
10	25QAM	50	0	17.94	18.13	18.22	19.9	3.5		
Channel										
Frequency (MHz)				37975	38075	38175	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	21.71	21.76	21.72	23.4	0		
5	QPSK	1	12	21.53	21.89	21.63				
5	QPSK	1	24	21.50	21.76	21.59				
5	QPSK	12	0	21.50	21.82	21.61				
5	QPSK	12	7	21.79	21.80	21.61	23.4	0		
5	QPSK	12	13	21.84	21.84	21.80				
5	QPSK	25	0	21.72	21.71	21.62				
5	HQAM	1	0	21.68	21.76	21.75				
5	HQAM	1	12	21.73	21.80	21.76	23.4	0		
5	HQAM	1	24	21.76	21.82	21.79				
5	HQAM	12	0	21.26	21.23	21.21				
5	HQAM	12	7	20.91	21.16	21.04				
5	HQAM	12	13	20.99	20.91	21.06	22.9	0.5		
5	HQAM	25	0	21.23	21.26	20.93				
5	HQAM	25	12	21.11	21.07	21.00				
5	HQAM	25	12	20.94	21.11	21.18				
5	HQAM	1	24	20.91	21.08	20.92	21.9	1.5		
5	HQAM	12	0	20.08	20.16	20.04				
5	HQAM	12	7	18.07	20.80	20.12				
5	HQAM	12	13	18.16	20.11	20.06				
5	25QAM	1	0	18.36	18.11	18.08	19.9	3.5		
5	25QAM	1	12	18.22	18.32	18.21				
5	25QAM	1	24	18.07	17.88	18.02				
5	25QAM	12	0	18.07	18.18	18.22	19.9	3.5		
5	25QAM	12	7	17.88	18.20	18.10				
5	25QAM	12	13	18.01	18.12	17.89				



Band 2 Other PA Ant1 DS13 Simultaneous

BW [MHz]	Modulation	RIS Size	RIS Offset	Low Power Ch / Freq	Med Power Ch / Freq	High Power Ch / Freq	Turn-up Time (sec)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	17.00	17.02	17.01	18	0
20	QPSK	1	49	16.82	17.02	16.83		
20	QPSK	1	99	16.87	16.81	16.91		
20	QPSK	50	0	16.68	17.02	16.69		
20	QPSK	50	49	16.75	16.82	16.80	18	0
20	QPSK	50	99	16.89	16.71	16.74		
20	QPSK	100	0	16.71	17.02	16.81		
20	QPSK	100	49	16.70	17.02	16.80		
20	QPSK	1	49	16.68	16.79	16.95	18	0
20	QPSK	50	99	16.69	16.65	16.69		
20	QPSK	50	99	16.82	17.01	16.86		
20	QPSK	50	24	16.52	16.67	16.92		
20	QPSK	50	50	16.81	16.97	16.79	18	0
20	QPSK	100	0	16.89	17.11	16.87		
20	QPSK	1	0	16.67	16.50	16.75		
20	QPSK	1	49	16.59	16.25	16.90		
20	QPSK	1	99	16.52	16.50	17.07	18	0
20	QPSK	50	99	16.59	16.59	16.90		
20	QPSK	50	99	16.82	16.81	16.80		
20	QPSK	50	24	16.64	16.67	16.93		
20	QPSK	50	50	16.87	16.85	16.90	18	0
20	QPSK	100	0	16.81	16.76	16.79		
20	QPSK	100	0	16.89	17.11	16.87		
20	QPSK	100	0	16.51	16.76	16.71		
20	QPSK	1	49	16.75	16.52	16.98	18	0
20	QPSK	50	99	16.60	16.67	16.89		
20	QPSK	50	99	16.80	16.80	16.80		
20	QPSK	50	24	16.60	16.60	16.88		
20	QPSK	1	37	16.58	16.58	16.95	18	0
20	QPSK	50	99	16.57	16.57	16.96		
20	QPSK	50	99	16.80	16.80	16.80		
20	QPSK	50	24	16.44	16.60	16.94		
20	QPSK	50	50	16.87	16.86	16.86	18	0
20	QPSK	100	0	16.85	17.09	16.86		
20	QPSK	100	0	16.85	17.09	16.86		
20	QPSK	100	0	16.53	16.54	16.58		
20	QPSK	1	0	16.54	16.27	16.81	18	0
20	QPSK	1	49	16.51	16.50	16.74		
20	QPSK	1	99	16.52	16.50	16.94		
20	QPSK	50	99	16.54	16.58	16.94		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99		
20	QPSK	50	99	16.75	16.52	16.99	18	0



Band 38 Other PA Ant1 DS13 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dBm)	MFR (dB)		
Channel				37950	38050	38150				
Frequency (MHz)				24.75	24.75	24.75				
20	QPSK	1	0	21.08	21.05	21.11	21.6	0		
20	QPSK	1	48	21.03	21.05	21.00				
20	QPSK	1	88	20.97	21.02	20.98	21.6	0		
20	QPSK	50	0	20.95	21.05	20.90				
20	QPSK	50	24	20.89	21.01	20.87	21.6	0		
20	QPSK	50	48	20.95	21.02	20.92				
20	QPSK	100	0	21.09	21.11	20.82	21.6	0		
20	QPSK	100	1	20.93	21.13	20.91				
20	HQAM	1	48	20.96	21.01	20.90	21.6	0		
20	HQAM	50	24	20.98	21.01	20.90				
20	HQAM	50	48	20.96	21.01	20.86	21.6	0		
20	HQAM	100	0	21.05	21.07	20.87				
20	HQAM	100	1	21.08	21.05	20.91	21.6	0		
20	HQAM	1	48	21.00	21.08	20.85				
20	HQAM	1	88	20.95	21.02	21.00	21.1	0.5		
20	HQAM	50	0	19.98	19.92	19.91				
20	HQAM	50	24	19.94	19.99	19.93	21.1	0.5		
20	HQAM	50	48	19.95	19.93	19.98				
20	HQAM	100	0	19.95	19.98	19.98	19.1	2.5		
20	HQAM	100	1	17.58	17.62	17.57				
20	HQAM	1	88	17.57	17.60	17.56	19.1	2.5		
20	HQAM	50	0	17.59	17.54	17.49				
20	HQAM	50	24	17.57	17.58	17.56	19.1	2.5		
20	HQAM	50	48	17.54	17.61	17.38				
20	HQAM	100	0	17.43	17.69	17.42	19.1	2.5		
20	HQAM	100	1	17.43	17.57	17.42				
Channel				37925	38050	38175	Turn-up Int. (dBm)	MFR (dB)		
Frequency (MHz)				21.73	21.73	21.73				
15	QPSK	1	0	20.73	21.54	20.70	21.6	0		
15	QPSK	1	37	20.86	20.88	20.81				
15	QPSK	1	74	20.93	21.00	20.77	21.6	0		
15	QPSK	36	0	20.91	21.00	20.80				
15	QPSK	36	20	20.77	20.90	20.69	21.6	0		
15	QPSK	75	0	20.95	20.95	20.85				
15	HQAM	1	0	20.84	21.06	20.91	21.6	0		
15	HQAM	1	37	20.75	20.94	20.70				
15	HQAM	1	74	21.09	21.10	20.70	21.6	0		
15	HQAM	36	0	20.79	20.80	20.70				
15	HQAM	36	20	20.81	21.02	20.70	21.6	0		
15	HQAM	75	0	20.94	21.03	20.83				
15	HQAM	75	0	20.99	21.12	20.80	21.6	0		
15	HQAM	1	37	20.79	21.04	20.72				
15	HQAM	1	74	20.90	21.02	20.86	21.1	0.5		
15	HQAM	36	0	19.82	19.85	19.85				
15	HQAM	36	20	19.89	19.57	19.38	19.1	2.5		
15	HQAM	75	0	19.23	19.50	19.43				
15	HQAM	75	0	19.86	19.69	19.52	19.1	2.5		
15	HQAM	1	0	17.63	17.73	17.37				
15	HQAM	1	37	17.64	17.61	17.29	19.1	2.5		
15	HQAM	1	74	17.38	17.58	17.48				
15	HQAM	36	0	17.63	17.73	17.37	19.1	2.5		
15	HQAM	36	20	17.61	17.64	17.40				
15	HQAM	75	0	17.48	17.64	17.48	19.1	2.5		
15	HQAM	75	0	17.46	17.46	17.33				
Channel				37925	38050	38175	Turn-up Int. (dBm)	MFR (dB)		
Frequency (MHz)				24.75	24.75	24.75				
10	QPSK	1	0	20.73	21.54	20.70	21.6	0		
10	QPSK	1	25	20.81	20.91	20.66				
10	QPSK	1	48	20.77	21.05	20.88	21.6	0		
10	QPSK	25	0	20.81	20.89	20.85				
10	QPSK	25	12	20.81	20.89	20.85	21.6	0		
10	QPSK	50	0	20.94	20.90	20.84				
10	HQAM	1	0	20.80	21.08	20.84	21.6	0		
10	HQAM	1	25	20.84	21.00	20.85				
10	HQAM	1	48	20.91	21.00	20.80	21.6	0		
10	HQAM	25	0	20.77	20.89	20.83				
10	HQAM	25	12	20.80	21.12	20.81	21.6	0		
10	HQAM	50	0	21.00	21.05	20.91				
10	HQAM	50	0	20.98	21.02	20.85	21.6	0		
10	HQAM	1	48	20.74	21.09	21.00				
10	HQAM	25	0	19.47	19.71	19.41	21.1	0.5		
10	HQAM	25	12	19.54	19.57	19.37				
10	HQAM	25	25	19.36	19.63	19.64	19.1	2.5		
10	HQAM	50	0	19.35	19.34	19.55				
10	HQAM	50	1	17.61	17.49	17.52	19.1	2.5		
10	HQAM	1	25	17.48	17.58	17.69				
10	HQAM	1	48	17.47	17.57	17.50	19.1	2.5		
10	HQAM	25	0	17.51	17.70	17.32				
10	HQAM	25	12	17.56	17.58	17.36	19.1	2.5		
10	HQAM	25	25	17.53	17.51	17.25				
10	HQAM	50	0	17.48	17.64	17.51	19.1	2.5		
10	HQAM	50	1	17.48	17.57	17.41				

Band 41 Other PA Ant1 DS13 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Freq / Freq	Turn-up Int. (dBm)	MFR (dB)	
Channel				38750	40185	40620	41055	41490		
Frequency (MHz)				25.10	25.10	25.10	25.10	25.10		
20	QPSK	1	0	25.10	25.10	25.10	25.10	25.10	21.6	0
20	QPSK	1	48	19.95	19.88	20.16	19.89	20.06		
20	QPSK	1	88	20.11	20.10	20.34	19.98	20.02	21.6	0
20	QPSK	50	0	20.02	19.99	20.17	19.93	20.02		
20	QPSK	50	24	20.02	19.96	20.09	19.98	19.98	21.6	0
20	QPSK	50	48	19.97	19.92	19.90	19.94	19.97		
20	QPSK	100	0	20.07	19.97	20.12	19.93	19.92	21.6	0
20	15QAM	1	0	20.06	20.18	20.17	20.15	20.10		
20	15QAM	50	24	20.08	19.87	20.11	19.83	19.92	21.6	0
20	15QAM	50	48	19.98	20.05	20.20	19.99	20.03		
20	15QAM	100	0	20.07	20.15	20.20	19.98	19.93	21.6	0
20	15QAM	100	1	20.05	20.01	20.12	19.97	20.02		
20	64QAM	1	48	20.21	19.91	20.23	19.94	20.12	21.6	0
20	64QAM	50	0	19.89	19.81	19.88	19.56	19.51		
20	64QAM	50	24	19.31	19.39	19.68	19.73	19.45	21.1	0.5
20	64QAM	50	48	19.42	19.72	19.81	19.73	19.47		
20	64QAM	100	0	19.69	19.54	19.60	19.51	19.51	19.1	2.5
20	256QAM	1	0	17.53	17.50	17.74	17.84	17.81		
20	256QAM	1	88	17.58	17.65	17.82	17.83	17.81	19.1	2.5
20	256QAM	1	9	17.57	17.67	17.82	17.77	17.78	19.1	2.5
20	256QAM	50	24	17.28	17.47	17.57	17.68	17.31		
20	256QAM	50	48	17.41	17.71	17.78	17.77	17.38	19.1	2.5
20	256QAM	100	0	17.53	17.73	17.66	17.69	17.59		
20	256QAM	100	1	17.51	17.47	17.77	17.66	17.48		
Channel				38750	40185	40620	41055	41490	Turn-up Int. (dBm)	MFR (dB)
Frequency (MHz)				25.10	25.10	25.10	25.10	25.10		
15	QPSK	1	37	19.98	19.92	19.88	19.89	19.92	22	0
15	QPSK	1	74	20.06	19.99	19.98	20.02	19.91		
15	QPSK	25	0	19.93	19.93	19.95	19.95	19.91	21.6	0
15	QPSK	36	20	19.82	19.87	19.87	19.88	19.89		
15	QPSK	36	56	19.71	19.84	19.85	19.74	19.81	21.6	0
15	QPSK	75	0	20.03	19.94	20.00	19.87	19.92		
15	15QAM	1	9	19.85	20.13	20.28	19.99	19.97	21.6	0
15	15QAM	1	25	19.97	19.93	20.01	19.79	19.83		
15	15QAM	1	74	20.14	19.97	20.08	19.85	19.97	21.6	0
15	15QAM	36	20	20.04	19.79	19.97	19.88	19.90		
15	15QAM	36	56	19.82	19.87	20.00	19.79	19.83	21.6	0
15	15QAM	75	0	19.78	19.91	20.01	19.89	19.96		
15	15QAM	75	20	19.69	19.84	19.95	19.84	19.84	21.6	0
15	64QAM	1	0	19.99	19.96	20.00	19.82	19.81		
15	64QAM	1	37	20.04	19.93	20.12	19.78	19.93	21.6	0
15	64QAM	1	74	20.02	19.93	19.95	19.88	19.94		
15	64QAM	25	0	19.87	19.73	19.74	19.55	19.51	21.1	0.5
15	64QAM	36	20	19.37	19.49	19.76	19.44	19.36		
15	64QAM	36	56	19.40	19.62	19.67	19.43	19.43	21.1	0.5
15	64QAM	75	0	19.55	19.73	19.68	19.53	19.53		
15	256QAM	1	37	17.57	17.63	17.62	17.46	17.47	19.1	2.5
15	256QAM	1	74	17.53	17.58	17.64	17.47	17.34		
15	256QAM	1	9	17.52	17.61	17.62	17.46	17.51	19.1	2.5
15	256QAM	36	20	17.29	17.64	17.37	17.52	17.40		
15	256QAM	36	56	17.48	17.49	17.51	17.48	17.59	19.1	2.5
15	256QAM	75	0	17.51	17.72	17.73	17.66	17.48		
Channel				38700	40165	40620	41050	41480	Turn-up Int. (dBm)	MFR (dB)
Frequency (MHz)				25.10	25.10	25.10	25.10	25.10		
10	QPSK	1	25	19.81	19.83	20.10	20.06	19.95	22	0
10	QPSK	1	62	19.91	19.89	20.08	19.96	19.96		
10	QPSK	25	0	19.89	19.81	20.07	19.89	19.90	21.6	0
10	QPSK	25	12	19.89	19.83	20.01	19.78	19.89		
10	QPSK	25	37	19.85	19.87	19.95	19.79	19.92	21.6	0
10	QPSK	50	0	19.91	19.88	20.02	19.75	19.89		
10	15QAM	1	9	19.89	20.19	19.86	19.88	19.91	21.6	0
10	15QAM	1	25	19.97	19.93	20.01	19.79	19.83		
10	15QAM	1	62	19.89	19.81	20.12	19.85	19.88	21.6	0
10	15QAM	25	0	20.02	19.72	20.14	19.95	19.83		
10	15QAM	25	12	19.87	19.83	19.95	19.83	19.83	21.1	0.5
10	15QAM	25	37	19.77	19.87	20.17	19.51	19.87		
10	15QAM	50	0	19.93	19.88	20.00	19.74	19.86	21.6	0
10	64QAM	1	0	20.04	20.03	20.13	19.77	19.77		
10	64QAM	1	25	20.20	19.75	20.13	19.83	19.51	21.6	0
10	64QAM	1	62	19.87	19.87	19.95	19.88	19.92		
10	64QAM	25	0	19.78	19.65	19.72	19.51	19.66	21.1	0.5
10	64QAM	25	12	19.35	19.54	19.66	19.57	19.37		
10	64QAM	25	37	19.38	19.54	19.62	19.58	19.32	21.1	0.5
10	64QAM	50	0	19.71	19.68	19.75	19.37	19.50		
10	64QAM	50	12	19.72	19.40	19.71	19.40	19.51	21.6	0
10	256QAM	1	25	17.47	17.77	17.58	17.62	17.45		
10	256QAM	1	49	17.65	17.63	17.66	17.59	17.38	19.1	2.5
10	256QAM	1	25	17.73	17.60	17.62	17.43	17.43		
10	256QAM	25	12	17.43	17.47	17.41	17.52	17.48	19.1	2.5
10	256QAM	25	37	17.49	17.57	17.41	17.53	17.49		
10	256QAM	50	0	17.49	17.59	17.58	17.61	17.49		
Channel				38670	40145	40620	41050	41480	Turn-up Int. (dBm)	MFR (dB)
Frequency (MHz)				25.10	25.10	25.10	25.10	25.10		
5	QPSK	1	0	20.02	20.07	20.17	19.98	19.79	22	0
5	QPSK	1	12	19.84	19.82	20.05	19.78	19.92		
5	QPSK	1	24	19.82	19.81	20.01	19.86	19.97	21.6	0
5	QPSK	12	0	19.95	19.91	19.99	19.92	19.93		
5	QPSK	12	7	19.89	19.87	19.93	19.87	19.93	21.6	0
5	QPSK	25	0	19.88	19.87	19.97	19.77	19.23		
5	QPSK	25	0	20.00	20.11	20.04	20.14	19.97	21.6	0
5	QPSK	12	12	19.88	19.87	19.95	19.83	19.91		
5	15QAM	1	24	20.04	19.99	20.05	19.95	19.87	21.6	0
5	15QAM	1	6	19.95	19.91	20.02	19.87	19.97		
5	15QAM	12	7	19.95	19.81	20.02	19.95	20.00	21.6	0
5	15QAM	12	13	19.83	19.91	20.12	20.09	19.91		
5	15QAM	25	0	19.91	19.87	19.92	19.82	19.72	21.6	0
5	64QAM	1	0	19.91	20.01	20.20	19.88	19.71		
5	64QAM	1	12	20.06	19.71	20.07	19.78	19.94	21.6	0
5	64QAM	1	24	19.95	19.87	19.95	19.81	19.92		
5	64QAM	12	0	19.87	19.52	19.75	19.54	19.58	21.1	0.5
5	64QAM	12	7	19.54	19.57	19.73	19.53	19.33		
5	64QAM	25	0	19.81	19.51	19.50	19.37	19.48	21.1	0.5
5	64QAM	25	12	17.48	17.47	17.58	17.46	17.49		
5	256QAM	1	12	17.48	17.67	17.55	17.73	17.41	19.1	2.5
5	256QAM	1	24	17.57	17.65	17.66	17.78	17.42		
5	256QAM	1	12	17.73	17.60	17.62	17.73	17.43	19.1	2.5
5	256QAM	12	7	17.26	17.62	17.38	17.50	17.51		
5	256QAM	12	13	17.35	17.61	17.45	17.50	17.43	19.1	2.5
5	256QAM	25	0	17.41	17.72	17.56	17.61	17.43		



Band 2 Other PA Ant2 DS13

BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turn-up Time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.19	20.23	20.12	21	0		
20	QPSK	1	49	20.09	20.25	20.09				
20	QPSK	1	99	19.99	20.27	20.12	21	0		
20	QPSK	50	0	20.05	20.17	20.02				
20	QPSK	50	24	19.99	20.20	20.05	21	0		
20	QPSK	50	50	20.01	20.20	20.05				
20	QPSK	100	0	20.20	20.25	20.09	21	0		
20	QPSK	100	50	19.97	20.21	20.16				
20	QPSK	1	49	20.02	20.19	19.92	21	0		
20	QPSK	1	99	20.21	20.16	19.98				
20	QPSK	50	0	20.17	20.26	20.02	21	0		
20	QPSK	50	50	19.96	20.22	19.99				
20	QPSK	100	0	20.09	20.29	20.09	21	0		
20	QPSK	100	50	20.21	20.09	19.99				
20	QPSK	1	49	20.14	20.25	20.03	21	0		
20	QPSK	1	99	20.14	20.25	20.03				
20	QPSK	50	24	19.90	19.93	19.89	20	1		
20	QPSK	50	50	19.95	19.98	19.99				
20	QPSK	100	0	19.91	19.90	19.89	18	3		
20	QPSK	100	50	19.96	19.92	19.89				
20	QPSK	1	49	19.77	17.17	17.05	18	3		
20	QPSK	1	99	17.09	17.16	17.06				
20	QPSK	50	0	19.85	17.02	17.12	18	3		
20	QPSK	50	50	19.85	16.98	16.90				
20	QPSK	50	24	19.87	17.09	16.89	18	3		
20	QPSK	50	50	17.10	17.09	16.89				
20	QPSK	100	0	19.85	17.02	16.89	18	3		
20	QPSK	100	50	16.91	17.07	16.89				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.14	20.16	19.98	21	0		
20	QPSK	1	49	19.99	20.09	19.99				
20	QPSK	1	99	19.99	20.09	19.99	21	0		
20	QPSK	50	0	19.87	20.20	20.01				
20	QPSK	50	50	19.99	20.19	19.99	21	0		
20	QPSK	50	24	19.99	20.20	19.99				
20	QPSK	50	50	19.84	20.20	19.92	21	0		
20	QPSK	50	0	19.84	20.20	19.92				
20	QPSK	100	0	19.84	20.20	19.92	21	0		
20	QPSK	100	50	19.84	20.20	19.92				
20	QPSK	1	49	19.84	20.20	19.92	21	0		
20	QPSK	1	99	19.84	20.20	19.92				
20	QPSK	50	0	19.85	19.85	19.85	20	1		
20	QPSK	50	24	19.85	19.85	19.85				
20	QPSK	50	50	19.87	19.85	19.85	20	1		
20	QPSK	50	0	19.87	19.85	19.85				
20	QPSK	100	0	19.87	19.85	19.85	18	3		
20	QPSK	100	50	19.87	19.85	19.85				
20	QPSK	1	49	17.07	17.15	17.05	18	3		
20	QPSK	1	99	17.09	17.16	17.06				
20	QPSK	50	0	19.85	17.02	17.12	18	3		
20	QPSK	50	50	19.85	16.98	16.90				
20	QPSK	50	24	19.87	17.09	16.89	18	3		
20	QPSK	50	50	17.10	17.09	16.89				
20	QPSK	100	0	19.85	17.02	16.91	18	3		
20	QPSK	100	50	16.91	16.90	16.89				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.14	20.16	19.98	21	0		
20	QPSK	1	49	19.99	20.09	19.99				
20	QPSK	1	99	19.99	20.09	19.99	21	0		
20	QPSK	50	0	19.87	20.20	20.01				
20	QPSK	50	50	19.99	20.19	19.99	21	0		
20	QPSK	50	24	19.99	20.20	19.99				
20	QPSK	50	50	19.84	20.20	19.92	21	0		
20	QPSK	50	0	19.84	20.20	19.92				
20	QPSK	100	0	19.84	20.20	19.92	21	0		
20	QPSK	100	50	19.84	20.20	19.92				
20	QPSK	1	49	19.84	20.20	19.92	21	0		
20	QPSK	1	99	19.84	20.20	19.92				
20	QPSK	50	0	19.85	19.85	19.85	20	1		
20	QPSK	50	24	19.85	19.85	19.85				
20	QPSK	50	50	19.87	19.85	19.85	20	1		
20	QPSK	50	0	19.87	19.85	19.85				
20	QPSK	100	0	19.87	19.85	19.85	18	3		
20	QPSK	100	50	19.87	19.85	19.85				
20	QPSK	1	49	17.07	17.15	17.05	18	3		
20	QPSK	1	99	17.09	17.16	17.06				
20	QPSK	50	0	19.85	17.02	17.12	18	3		
20	QPSK	50	50	19.85	16.98	16.90				
20	QPSK	50	24	19.87	17.09	16.89	18	3		
20	QPSK	50	50	17.10	17.09	16.89				
20	QPSK	100	0	19.85	17.02	16.91	18	3		
20	QPSK	100	50	16.91	16.90	16.89				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.14	20.16	19.98	21	0		
20	QPSK	1	49	19.99	20.09	19.99				
20	QPSK	1	99	19.99	20.09	19.99	21	0		
20	QPSK	50	0	19.87	20.20	20.01				
20	QPSK	50	50	19.99	20.19	19.99	21	0		
20	QPSK	50	24	19.99	20.20	19.99				
20	QPSK	50	50	19.84	20.20	19.92	21	0		
20	QPSK	50	0	19.84	20.20	19.92				
20	QPSK	100	0	19.84	20.20	19.92	21	0		
20	QPSK	100	50	19.84	20.20	19.92				
20	QPSK	1	49	19.84	20.20	19.92	21	0		
20	QPSK	1	99	19.84	20.20	19.92				
20	QPSK	50	0	19.85	19.85	19.85	20	1		
20	QPSK	50	24	19.85	19.85	19.85				
20	QPSK	50	50	19.87	19.85	19.85	20	1		
20	QPSK	50	0	19.87	19.85	19.85				
20	QPSK	100	0	19.87	19.85	19.85	18	3		
20	QPSK	100	50	19.87	19.85	19.85				
20	QPSK	1	49	17.07	17.15	17.05	18	3		
20	QPSK	1	99	17.09	17.16	17.06				
20	QPSK	50	0	19.85	17.02	17.12	18	3		
20	QPSK	50	50	19.85	16.98	16.90				
20	QPSK	50	24	19.87	17.09	16.89	18	3		
20	QPSK	50	50	17.10	17.09	16.89				
20	QPSK	100	0	19.85	17.02	16.91	18	3		
20	QPSK	100	50	16.91	16.90	16.89				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.14	20.16	19.98	21	0		
20	QPSK	1	49	19.99	20.09	19.99				
20	QPSK	1	99	19.99	20.09	19.99	21	0		
20	QPSK	50	0	19.87	20.20	20.01				
20	QPSK	50	50	19.99	20.19	19.99	21	0		
20	QPSK	50	24	19.99	20.20	19.99				
20	QPSK	50	50	19.84	20.20	19.92	21	0		
20	QPSK	50	0	19.84	20.20	19.92				
20	QPSK	100	0	19.84	20.20	19.92	21	0		
20	QPSK	100	50	19.84	20.20	19.92				
20	QPSK	1	49	19.84	20.20	19.92	21	0		
20	QPSK	1	99	19.84	20.20	19.92				
20	QPSK	50	0	19.85	19.85	19.85	20	1		
20	QPSK	50	24	19.85	19.85	19.85				
20	QPSK	50	50	19.87	19.85	19.85	20	1		
20	QPSK	50	0	19.87	19.85	19.85				
20	QPSK	100	0	19.87	19.85	19.85	18	3		
20	QPSK	100	50	19.87	19.85	19.85				
20	QPSK	1	49	17.07	17.15	17.05	18	3		
20	QPSK	1	99	17.09	17.16	17.06				
20	QPSK	50	0	19.85	17.02	17.12	18	3		
20	QPSK	50	50	19.85	16.98	16.90				
20	QPSK	50	24	19.87	17.09	16.89	18	3		
20	QPSK	50	50	17.10	17.09	16.89				
20	QPSK	100	0	19.85	17.02	16.91	18	3		
20	QPSK	100	50	16.91	16.90	16.89				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.14	20.16	19.98	21	0		
20	QPSK	1	49	19.99	20.09	19.99				
20	QPSK	1	99	19.99	20.09	19.99	21	0		
20	QPSK	50	0	19.87	20.20	20.01				
20	QPSK	50	50	19.99	20.19	19.99	21	0		
20	QPSK	50	24	19.99	20.20	19.99				
20	QPSK	50	50	19.84	20.20	19.92	21	0		
20	QPSK	50	0	19.84	20.20	19.92				
20	QPSK	100	0	19.84	20.20	19.92	21	0		
20	QPSK	100	50	19.84	20.20	19.92				
20	QPSK	1	49	19.84	20.20	19.92	21	0		
20	QPSK	1	99	19.84	20.20	19.92				
20	QPSK	50	0	19.85	19.85	19.85	20	1		
20	QPSK	50	24	19.85	19.85	19.85				
20	QPSK	50	50	19.87	19.85	19.85	20	1		
20	QPSK	50	0	19.87	19.85	19.85				
20	QPSK	100	0	19.87	19.85	19.85	18	3		
20	QPSK	100	50	19.87	19.85	19.85				
20	QPSK	1	49	17.07	17.15	17.05	18	3		
20	QPSK	1	99	17.09	17.16	17.06				
20	QPSK	50	0	19.85	17.02	17.12	18	3		
20	QPSK	50	50	19.85	16.98	16.90				
20	QPSK	50	24	19.87	17.09	16.89	18	3		
20	QPSK	50	50	17.10	17.09	16.89				
20	QPSK	100	0	19.85	17.02	16.91	18	3		
20	QPSK	100	50	16.91	16.90	16.89				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.14	20.16	19.98	21	0		
20	QPSK	1	49	19.99	20.09	19.99				
20	QPSK	1	99	19.99	20.09	19.99	21	0		
20	QPSK	50	0	19.87	20.20	20.01				
20	QPSK	50	50	19.99	20.19	19.99	21	0		
20	QPSK	50	24	19.99	20.20	19.99				
20	QPSK	50	50	19.84	20.20	19.92	21	0		
20	QPSK	50	0	19.84	20.20	19.92				
20	QPSK	100	0	19.84	20.20	19.92	21	0		
20	QPSK	100	50							



Band 38 Other PA Ant2 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)				37965	38050	38160					
20	QPSK	1	0	22.03	22.05	22.01	23	0			
20	QPSK	1	48	21.91	21.87	21.87					
20	QPSK	1	88	21.87	21.92	21.81	22	1			
20	QPSK	50	0	20.95	21.04	20.90					
20	QPSK	50	24	20.92	20.88	20.90	22	1			
20	QPSK	50	48	20.84	20.89	20.86					
20	QPSK	100	0	21.05	21.11	20.99	22	1			
20	HQAM	1	0	20.91	21.05	20.96					
20	HQAM	1	48	20.89	20.98	20.92	22	1			
20	HQAM	50	24	19.96	20.10	19.97					
20	HQAM	50	50	19.94	20.00	19.91	21	2			
20	HQAM	100	0	20.04	20.09	20.00					
20	HQAM	1	48	20.02	20.07	19.94	21	2			
20	HQAM	1	88	19.95	20.03	19.95					
20	HQAM	50	0	19.98	19.91	19.95	20	3			
20	HQAM	50	24	19.96	19.92	19.87					
20	HQAM	50	50	19.94	19.97	19.89	18	5			
20	HQAM	100	0	19.91	19.99	19.87					
20	25QAM	1	0	17.08	17.13	17.08	18	5			
20	25QAM	1	48	17.07	17.10	17.04					
20	25QAM	1	88	16.90	17.05	16.93	18	5			
20	25QAM	50	0	16.93	17.05	16.96					
20	25QAM	50	24	16.84	16.95	16.83	18	5			
20	25QAM	50	50	16.88	17.01	16.88					
20	25QAM	100	0	16.99	17.08	16.89					
Channel											
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	0	22.03	22.01	21.93	23	0			
15	QPSK	1	37	21.76	21.84	21.77					
15	QPSK	1	74	21.76	21.86	21.71	22	1			
15	QPSK	36	0	20.83	20.85	20.80					
15	QPSK	36	20	20.86	20.89	20.80	22	1			
15	QPSK	36	38	20.73	20.81	20.77					
15	QPSK	75	0	21.01	21.00	20.91	22	1			
15	HQAM	1	0	20.88	21.01	20.87					
15	HQAM	1	37	20.76	20.89	20.74	22	1			
15	HQAM	1	74	20.77	20.92	20.77					
15	HQAM	36	0	19.85	19.96	19.86	21	2			
15	HQAM	36	20	19.85	19.92	19.85					
15	HQAM	36	38	19.80	19.93	19.84	20	3			
15	HQAM	75	0	19.83	19.89	19.82					
15	HQAM	75	0	19.85	19.97	19.85	20	3			
15	HQAM	36	0	19.85	19.90	19.83					
15	HQAM	36	20	19.86	19.90	19.83	18	5			
15	HQAM	36	38	19.80	19.92	19.81					
15	HQAM	75	0	19.86	19.95	19.75					
15	25QAM	1	0	16.98	16.99	16.95	18	5			
15	25QAM	1	37	16.92	17.05	16.90					
15	25QAM	1	74	16.79	16.90	16.88	18	5			
15	25QAM	36	0	16.81	16.93	16.87					
15	25QAM	36	20	16.75	16.82	16.77	18	5			
15	25QAM	36	38	16.76	16.82	16.81					
15	25QAM	75	0	16.94	16.91	16.86					
Channel											
Frequency (MHz)				37965	38050	38200	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	0	21.81	21.84	21.78	23	0			
10	QPSK	1	25	21.78	21.85	21.77					
10	QPSK	1	48	21.80	21.76	21.66	22	1			
10	QPSK	25	0	20.90	20.95	20.86					
10	QPSK	25	12	20.87	20.94	20.77	22	1			
10	QPSK	25	25	20.72	20.79	20.81					
10	QPSK	50	0	20.95	21.00	20.91	22	1			
10	HQAM	1	0	20.77	21.09	20.91					
10	HQAM	1	25	20.76	20.88	20.85	22	1			
10	HQAM	1	48	20.79	20.89	20.74					
10	HQAM	25	0	19.90	19.98	19.92	21	2			
10	HQAM	25	12	19.78	19.92	19.85					
10	HQAM	25	25	19.83	19.96	19.85	21	2			
10	HQAM	50	0	19.81	19.92	19.87					
10	HQAM	1	0	19.86	20.07	19.86	21	2			
10	HQAM	1	48	19.85	19.95	19.88					
10	HQAM	25	0	19.84	19.97	19.86	20	3			
10	HQAM	25	12	19.80	19.90	19.76					
10	HQAM	25	25	19.86	19.98	19.82	20	3			
10	HQAM	50	0	19.83	19.88	19.73					
10	25QAM	1	0	17.02	17.02	16.98	18	5			
10	25QAM	1	25	16.97	17.02	17.01					
10	25QAM	1	48	16.86	16.97	16.84	18	5			
10	25QAM	25	0	16.88	16.95	16.83					
10	25QAM	25	12	16.76	16.90	16.76	18	5			
10	25QAM	25	25	16.78	16.97	16.75					
10	25QAM	50	0	16.85	16.96	16.81					
Channel											
Frequency (MHz)				37975	38060	38225	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	0	21.91	21.99	21.88	23	0			
5	QPSK	1	12	21.81	21.93	21.84					
5	QPSK	1	24	21.75	21.85	21.69	22	1			
5	QPSK	12	0	20.86	21.01	20.82					
5	QPSK	12	7	20.79	20.95	20.76	22	1			
5	QPSK	12	13	20.87	20.79	20.70					
5	QPSK	25	0	21.06	20.99	20.95	22	1			
5	HQAM	1	0	20.87	21.02	20.92					
5	HQAM	1	12	20.81	20.89	20.88	22	1			
5	HQAM	1	24	20.76	20.90	20.76					
5	HQAM	12	0	19.82	19.98	19.86	21	2			
5	HQAM	12	7	19.81	19.91	19.87					
5	HQAM	12	13	19.87	19.94	19.81	21	2			
5	HQAM	25	0	19.79	19.98	19.80					
5	HQAM	1	0	19.98	20.07	19.91	20	3			
5	HQAM	1	12	19.87	19.89	19.90					
5	HQAM	1	24	19.94	19.88	19.81	20	3			
5	HQAM	12	0	16.88	16.98	16.74					
5	HQAM	12	7	16.83	16.93	16.76	18	5			
5	HQAM	12	13	16.81	16.95	16.89					
5	HQAM	25	0	16.83	16.93	16.76	18	5			
5	HQAM	25	12	16.87	17.05	16.98					
5	25QAM	1	0	16.93	16.95	17.01	18	5			
5	25QAM	1	24	16.82	16.91	16.81					
5	25QAM	12	0	16.82	17.02	16.83	18	5			
5	25QAM	12	7	16.75	16.88	16.71					
5	25QAM	12	13	16.80	16.99	16.78	18	5			
5	25QAM	25	0	16.82	16.97	16.84					



Band 2 Other PA Ant3 DS3 Simultaneous

BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Mod Ch / Freq	Turn-up Time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.42	18.50	18.35	19.6	0		
20	QPSK	1	49	18.31	18.45	18.36				
20	QPSK	1	99	18.47	18.59	18.29				
20	QPSK	50	0	18.39	18.50	18.36				
20	QPSK	50	24	18.24	18.29	18.22	19.6	0		
20	QPSK	50	50	18.30	18.49	18.22				
20	QPSK	100	0	18.34	18.50	18.31				
20	QPSK	100	24	18.48	18.49	18.30				
20	HQAM	1	49	18.34	18.44	18.36	19.6	0		
20	HQAM	1	99	18.26	18.10	18.27				
20	HQAM	50	0	18.20	18.40	18.37				
20	HQAM	50	24	18.33	18.20	18.13				
20	HQAM	50	50	18.23	18.20	18.16	19.6	0		
20	HQAM	100	0	18.20	18.20	18.16				
20	HQAM	100	24	18.24	18.40	18.14				
20	HQAM	100	50	18.11	18.10	18.00				
20	HQAM	1	49	18.43	18.24	18.19	19.6	0		
20	HQAM	1	99	18.42	18.37	18.23				
20	HQAM	50	0	18.43	18.24	18.19				
20	HQAM	50	24	18.40	18.20	18.02				
20	HQAM	50	50	18.35	18.20	18.16	19.6	0		
20	HQAM	100	0	18.44	18.20	18.23				
20	HQAM	100	24	18.35	18.20	18.16				
20	HQAM	100	50	18.25	18.20	18.16				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.29	18.38	18.33	19.6	0		
15	QPSK	1	49	18.31	18.49	18.36				
15	QPSK	1	99	18.31	18.08	18.27				
15	QPSK	50	0	18.20	18.37	18.20				
15	QPSK	50	24	18.22	18.37	18.15	19.6	0		
15	QPSK	50	50	18.39	18.29	18.15				
15	QPSK	100	0	18.45	18.41	18.35				
15	QPSK	100	24	18.34	18.43	18.35				
15	HQAM	1	37	18.28	18.28	18.14	19.6	0		
15	HQAM	1	74	18.31	18.43	18.35				
15	HQAM	50	0	18.10	18.24	18.05				
15	HQAM	50	24	18.27	18.43	18.36				
15	HQAM	50	50	18.20	18.40	18.36	19.6	0		
15	HQAM	100	0	18.35	18.11	18.17				
15	HQAM	100	24	18.31	18.20	18.06				
15	HQAM	100	50	18.01	18.20	18.07				
15	HQAM	1	37	18.32	18.43	18.35	19.6	0		
15	HQAM	1	74	18.30	18.43	18.35				
15	HQAM	50	0	18.36	18.03	18.00				
15	HQAM	50	24	18.23	18.20	18.14				
15	HQAM	50	50	18.27	18.32	18.24	19.6	0		
15	HQAM	100	0	18.30	18.22	18.24				
15	HQAM	100	24	18.30	18.22	18.24				
15	HQAM	100	50	18.30	18.22	18.24				
15	HQAM	1	37	18.30	18.17	18.15	19.6	0		
15	HQAM	1	74	18.27	18.42	18.18				
15	HQAM	50	0	18.25	18.18	18.15				
15	HQAM	50	24	18.32	18.39	18.13				
15	HQAM	50	50	18.30	18.39	18.13	19.6	0		
15	HQAM	100	0	18.43	18.35	18.17				
15	HQAM	100	24	18.43	18.35	18.17				
15	HQAM	100	50	18.38	18.17	18.17				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.33	18.31	18.37	19.6	0		
15	QPSK	1	49	18.29	18.23	18.29				
15	QPSK	1	99	18.29	18.32	18.26				
15	QPSK	50	0	18.20	18.32	18.30				
15	QPSK	50	24	18.24	18.27	18.20	19.6	0		
15	QPSK	50	50	18.30	18.33	18.22				
15	QPSK	100	0	18.25	18.36	18.32				
15	QPSK	100	24	18.26	18.24	18.17				
15	HQAM	1	37	18.25	18.32	18.30	19.6	0		
15	HQAM	1	74	18.31	18.21	18.21				
15	HQAM	50	0	18.34	18.19	18.20				
15	HQAM	50	24	18.46	18.15	18.20				
15	HQAM	50	50	18.39	18.23	18.21	19.6	0		
15	HQAM	100	0	18.32	18.20	18.38				
15	HQAM	100	24	18.39	18.21	18.21				
15	HQAM	100	50	18.21	18.21	18.21				
15	HQAM	1	37	18.37	18.29	18.32	19.6	0		
15	HQAM	1	74	18.37	18.31	18.17				
15	HQAM	50	0	18.37	18.23	18.31				
15	HQAM	50	24	18.39	18.27	18.25				
15	HQAM	50	50	18.30	18.27	18.25	19.6	0		
15	HQAM	100	0	18.37	18.23	18.31				
15	HQAM	100	24	18.37	18.23	18.31				
15	HQAM	100	50	18.37	18.23	18.31				
15	HQAM	1	37	18.25	18.29	18.31	19.6	0		
15	HQAM	1	74	18.39	18.29	18.34				
15	HQAM	50	0	18.45	18.30	18.36				
15	HQAM	50	24	18.47	18.31	18.35				
15	HQAM	50	50	18.40	18.22	18.32	19.6	0		
15	HQAM	100	0	18.40	18.22	18.32				
15	HQAM	100	24	18.40	18.22	18.32				
15	HQAM	100	50	18.25	18.25	18.37				
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.43	18.31	18.37	19.6	0		
20	QPSK	1	49	18.39	18.23	18.29				
20	QPSK	1	99	18.39	18.32	18.26				
20	QPSK	50	0	18.20	18.32	18.30				
20	QPSK	50	24	18.24	18.27	18.20	19.6	0		
20	QPSK	50	50	18.30	18.33	18.22				
20	QPSK	100	0	18.25	18.36	18.32				
20	QPSK	100	24	18.26	18.24	18.17				
20	HQAM	1	37	18.25	18.32	18.30	19.6	0		
20	HQAM	1	74	18.31	18.21	18.21				
20	HQAM	50	0	18.34	18.19	18.20				
20	HQAM	50	24	18.46	18.15	18.20				
20	HQAM	50	50	18.39	18.23	18.21	19.6	0		
20	HQAM	100	0	18.32	18.20	18.38				
20	HQAM	100	24	18.39	18.21	18.21				
20	HQAM	100	50	18.21	18.21	18.21				
20	HQAM	1	37	18.37	18.29	18.32	19.6	0		
20	HQAM	1	74	18.37	18.31	18.17				
20	HQAM	50	0	18.37	18.23	18.31				
20	HQAM	50	24	18.39	18.27	18.25				
20	HQAM	50	50	18.30	18.27	18.25	19.6	0		
20	HQAM	100	0	18.37	18.23	18.31				
20	HQAM	100	24	18.37	18.23	18.31				
20	HQAM	100	50	18.37	18.23	18.31				
20	HQAM	1	37	18.25	18.29	18.31	19.6	0		
20	HQAM	1	74	18.39	18.29	18.34				
20	HQAM	50	0	18.45	18.30	18.36				
20	HQAM	50	24	18.47	18.31	18.35				
20	HQAM	50	50	18.40	18.22	18.32	19.6	0		
20	HQAM	100	0	18.40	18.22	18.32				
20	HQAM	100	24	18.40	18.22	18.32				
20	HQAM	100	50	18.25	18.25	18.37				
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.43	18.31	18.37	19.6	0		
20	QPSK	1	49	18.39	18.23	18.29				
20	QPSK	1	99	18.39	18.32	18.26				
20	QPSK	50	0	18.20	18.32	18.30				
20	QPSK	50	24	18.24	18.27	18.20	19.6	0		
20	QPSK	50	50	18.30	18.33	18.22				
20	QPSK	100	0	18.25	18.36	18.32				
20	QPSK	100	24	18.26	18.24	18.17				
20	HQAM	1	37	18.25	18.32	18.30	19.6	0		
20	HQAM	1	74	18.31	18.21	18.21				
20	HQAM	50	0	18.34	18.19	18.20				
20	HQAM	50	24	18.46	18.15	18.20				
20	HQAM	50	50	18.39	18.23	18.21	19.6	0		
20	HQAM	100	0	18.32	18.20	18.38				
20	HQAM	100	24	18.39	18.21	18.21				
20	HQAM	100	50	18.21	18.21	18.21				
20	HQAM	1	37	18.37	18.29	18.32	19.6	0		
20	HQAM	1	74	18.37	18.31	18.17				
20	HQAM	50	0	18.37	18.23	18.31				
20	HQAM	50	24	18.39	18.27	18.25				
20	HQAM	50	50	18.30	18.27	18.25	19.6	0		
20	HQAM	100	0	18.37	18.23	18.31				
20	HQAM	100	24	18.37	18.23	18.31				
20	HQAM	100	50	18.37	18.23	18.31				
20	HQAM	1	37	18.25	18.29	18.31	19.6	0		
20	HQAM	1	74	18.39	18.29	18.34				
20	HQAM	50	0	18.45	18.30	18.36				
20	HQAM	50	24	18.47	18.31	18.35				
20	HQAM	50	50	18.40	18.22	18.32	19.6	0		
20	HQAM	100	0	18.40	18.22	18.32				
20	HQAM	100	24	18.40	18.22	18.32				
20	HQAM	100	50	18.25	18.25	18.37				
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.43	18.31	18.37	19.6	0		
20	QPSK	1	49	18.39	18.23	18.29				
20	QPSK	1	99	18.39	18.32	18.26				
20	QPSK	50	0	18.20	18.32	18.30				
20	QPSK	50	24	18.24	18.27	18.20	19.6	0		
20	QPSK	50	50	18.30	18.33	18.22				
20	QPSK	100	0	18.25	18.36	18.32				
20	QPSK	100	24	18.26	18.24	18.17				
20	HQAM	1	37	18.25	18.32	18.30	19.6	0		
20	HQAM	1	74	18.31	18.21	18.21				
20	HQAM	50	0	18.34	18.19	18.20				
20	HQAM	50	24	18.46	18.15	18.20				
20	HQAM	50	50	18.39	18.23	18.21	19.6	0		
20	HQAM	100	0	18.32	18.20	18.38				
20	HQAM	100	24	18.39	18.21	18.21				
20	HQAM	100	50	18.21	18.21	18.21				
20	HQAM	1	37	18.37	18.29	18.32	19.6	0		
20	HQAM	1	74	18.37	18.31	18.17				
20	HQAM	50	0	18.37	18.23	18.31				
20	HQAM	50	24	18.39	18.27	18.25				
20	HQAM	50	50	18.30	18.27	18.25	19.6	0		
20	HQAM	100	0	18.37	18.23	18.31				
20	HQAM	100	24	18.37	18.23	18.31				
20	HQAM	100	50	18.37	18.23	18.31				
20	HQAM	1	37	18.25	18.29	18.31	19.6	0		
20	HQAM	1	74	18.39	18.29	18.34				
20	HQAM	50	0	18.45	18.30	18.36				
20	HQAM	50	24	18.47	18.31	18.35				



Band 38 Other PA DSI3 DSI3 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37950	38050	38150				
20	QPSK	1	0	21.58	21.70	21.84	22.2	0		
20	QPSK	1	48	21.72	21.89	21.80				
20	QPSK	50	0	21.59	21.69	21.84	22.2	0		
20	QPSK	50	24	21.62	21.87	21.61				
20	QPSK	50	48	21.58	21.60	21.62	22.2	0		
20	QPSK	100	0	21.68	21.77	21.65				
20	HQAM	1	0	21.68	21.76	21.69	22.2	0		
20	HQAM	1	96	21.71	21.68	21.63				
20	HQAM	50	0	21.70	21.70	21.84	22.2	0		
20	HQAM	50	24	21.61	21.72	21.66				
20	HQAM	50	50	21.60	21.69	21.65	22.2	0		
20	HQAM	100	0	21.72	21.72	21.86				
20	HQAM	100	1	21.67	21.78	21.69	22.2	0		
20	HQAM	1	48	21.76	21.67	21.69				
20	HQAM	1	96	21.56	21.58	21.60	21.2	1		
20	HQAM	50	0	19.56	19.71	19.60				
20	HQAM	50	24	19.31	19.67	19.70	21.2	1		
20	HQAM	50	50	19.44	19.69	19.57				
20	HQAM	100	0	19.44	19.69	19.57	19.2	3		
20	HQAM	100	1	17.86	17.85	17.88				
20	HQAM	1	48	17.56	17.80	17.80	19.2	3		
20	HQAM	1	96	17.52	17.63	17.58				
20	HQAM	50	0	17.71	17.82	17.86	19.2	3		
20	HQAM	50	24	17.56	17.54	17.52				
20	HQAM	50	50	17.50	17.64	17.55	19.2	3		
20	HQAM	100	0	17.58	17.70	17.69				
Channel										
Frequency (MHz)				37950	38050	38150	Tune-up Int. (dBm)	MFR (dB)		
15	QPSK	1	0	21.57	21.70	21.84	22.2	0		
15	QPSK	1	37	21.43	21.48	21.64				
15	QPSK	1	74	21.54	21.61	21.64	22.2	0		
15	QPSK	36	0	21.51	21.54	21.58				
15	QPSK	36	20	21.64	21.50	21.43	22.2	0		
15	QPSK	36	36	21.49	21.63	21.68				
15	QPSK	75	0	21.64	21.52	21.48	22.2	0		
15	HQAM	1	0	21.50	21.47	21.50				
15	HQAM	1	37	21.46	21.50	21.42	22.2	0		
15	HQAM	1	74	21.47	21.52	21.55				
15	HQAM	36	0	21.64	21.58	21.42	22.2	0		
15	HQAM	36	20	21.56	21.52	21.58				
15	HQAM	36	36	21.50	21.52	21.59	22.2	0		
15	HQAM	75	0	21.58	21.53	21.50				
15	HQAM	75	0	21.49	21.63	21.68	22.2	0		
15	HQAM	1	37	21.56	21.58	21.45				
15	HQAM	74	21.54	21.44	21.61	21.2	1			
15	HQAM	36	0	19.67	19.61	19.52				
15	HQAM	36	20	19.40	19.45	19.55	21.2	1		
15	HQAM	36	36	19.57	19.58	19.55				
15	HQAM	75	0	19.51	19.56	19.55	19.2	3		
15	HQAM	75	0	17.86	17.85	17.79				
15	HQAM	1	74	17.44	17.72	17.64	19.2	3		
15	HQAM	36	0	17.53	17.79	17.50				
15	HQAM	36	20	17.62	17.63	17.65	19.2	3		
15	HQAM	36	36	17.51	17.81	17.61				
15	HQAM	75	0	17.57	17.72	17.69	19.2	3		
15	HQAM	75	0	17.47	17.72	17.69				
Channel										
Frequency (MHz)				37950	38050	38150	Tune-up Int. (dBm)	MFR (dB)		
10	QPSK	1	0	21.52	21.54	21.48	22.2	0		
10	QPSK	1	25	21.52	21.54	21.48				
10	QPSK	1	48	21.43	21.57	21.42	22.2	0		
10	QPSK	25	0	21.52	21.53	21.47				
10	QPSK	25	12	21.57	21.50	21.61	22.2	0		
10	QPSK	25	25	21.44	21.73	21.43				
10	QPSK	50	0	21.44	21.46	21.43	22.2	0		
10	HQAM	1	0	21.44	21.46	21.43				
10	HQAM	1	25	21.49	21.49	21.59	22.2	0		
10	HQAM	1	48	21.44	21.57	21.64				
10	HQAM	25	0	21.66	21.39	21.56	22.2	0		
10	HQAM	25	12	21.46	21.47	21.45				
10	HQAM	25	25	21.40	21.67	21.44	22.2	0		
10	HQAM	50	0	21.40	21.43	21.45				
10	HQAM	50	0	21.54	21.71	21.40	22.2	0		
10	HQAM	1	25	21.52	21.43	21.55				
10	HQAM	1	48	21.57	21.44	21.56	22.2	0		
10	HQAM	25	0	19.70	19.64	19.59				
10	HQAM	25	12	19.40	19.51	19.70	21.2	1		
10	HQAM	25	25	19.51	19.53	19.72				
10	HQAM	50	0	19.37	19.62	19.49	19.2	3		
10	HQAM	50	0	17.80	17.85	17.84				
10	HQAM	1	48	17.59	17.81	17.82	19.2	3		
10	HQAM	1	96	17.62	17.64	17.75				
10	HQAM	25	0	17.80	17.82	17.65	19.2	3		
10	HQAM	25	12	17.64	17.71	17.74				
10	HQAM	25	25	17.53	17.54	17.54	19.2	3		
10	HQAM	50	0	17.72	17.69	17.70				
Channel										
Frequency (MHz)				37950	38050	38150	Tune-up Int. (dBm)	MFR (dB)		
5	QPSK	1	0	21.59	21.59	21.56	22.2	0		
5	QPSK	1	12	21.54	21.62	21.45				
5	QPSK	1	24	21.35	21.65	21.51	22.2	0		
5	QPSK	12	0	21.66	21.57	21.39				
5	QPSK	12	7	21.68	21.48	21.50	22.2	0		
5	QPSK	12	13	21.42	21.66	21.43				
5	QPSK	25	0	21.76	21.59	21.39	22.2	0		
5	HQAM	1	0	21.39	21.49	21.60				
5	HQAM	1	12	21.46	21.46	21.47	22.2	0		
5	HQAM	1	24	21.43	21.45	21.43				
5	HQAM	12	0	21.67	21.58	21.57	22.2	0		
5	HQAM	12	7	21.48	21.67	21.54				
5	HQAM	12	13	21.53	21.73	21.48	22.2	0		
5	HQAM	25	0	21.60	21.68	21.40				
5	HQAM	25	0	21.42	21.68	21.51	22.2	0		
5	HQAM	12	7	21.58	21.62	21.56				
5	HQAM	1	24	21.54	21.49	21.49	21.2	1		
5	HQAM	12	0	19.63	19.58	19.62				
5	HQAM	12	7	19.37	19.58	19.63	21.2	1		
5	HQAM	25	0	19.31	19.64	19.50				
5	HQAM	25	12	17.71	17.72	17.72	19.2	3		
5	HQAM	25	25	17.58	17.80	17.47				
5	HQAM	12	7	17.67	17.70	17.40	19.2	3		
5	HQAM	12	13	17.56	17.72	17.50				
Channel										
Frequency (MHz)				37950	38050	38150	Tune-up Int. (dBm)	MFR (dB)		
5	QPSK	1	0	21.59	21.59	21.56	22.2	0		
5	QPSK	1	12	21.54	21.62	21.45				
5	QPSK	1	24	21.35	21.65	21.51	22.2	0		
5	QPSK	12	0	21.66	21.57	21.39				
5	QPSK	12	7	21.68	21.48	21.50	22.2	0		
5	QPSK	12	13	21.42	21.66	21.43				
5	QPSK	25	0	21.76	21.59	21.39	22.2	0		
5	HQAM	1	0	21.39	21.49	21.60				
5	HQAM	1	12	21.46	21.46	21.47	22.2	0		
5	HQAM	1	24	21.43	21.45	21.43				
5	HQAM	12	0	21.67	21.58	21.57	22.2	0		
5	HQAM	12	7	21.48	21.67	21.54				
5	HQAM	12	13	21.53	21.73	21.48	22.2	0		
5	HQAM	25	0	21.60	21.68	21.40				
5	HQAM	25	0	21.42	21.68	21.51	22.2	0		
5	HQAM	12	7	21.58	21.62	21.56				
5	HQAM	1	24	21.54	21.49	21.49	21.2	1		
5	HQAM	12	0	19.63	19.58	19.62				
5	HQAM	12	7	19.37	19.58	19.63	21.2	1		
5	HQAM	25	0	19.31	19.64	19.50				
5	HQAM	25	12	17.71	17.72	17.72	19.2	3		
5	HQAM	25	25	17.58	17.80	17.47				
5	HQAM	12	7	17.67	17.70	17.40	19.2	3		
5	HQAM	12	13	17.56	17.72	17.50				
Channel										
Frequency (MHz)				37950	38050	38150	Tune-up Int. (dBm)	MFR (dB)		
5	QPSK	1	0	21.59	21.59	21.56	22.2	0		
5	QPSK	1	12	21.54	21.62	21.45				
5	QPSK	1	24	21.35	21.65	21.51	22.2	0		
5	QPSK	12	0	21.66	21.57	21.39				
5	QPSK	12	7	21.68	21.48	21.50	22.2	0		
5	QPSK	12	13	21.42	21.66	21.43				
5	QPSK	25	0	21.76	21.59	21.39	22.2	0		
5	HQAM	1	0	21.39	21.49	21.60				
5	HQAM	1	12	21.46	21.46	21.47	22.2	0		
5	HQAM	1	24	21.43	21.45	21.43				
5	HQAM	12	0	21.67	21.58	21.57	22.2	0		
5	HQAM	12	7	21.48	21.67	21.54				
5	HQAM	12	13	21.53	21.73	21.48	22.2	0		
5	HQAM	25	0	21.60	21.68	21.40				
5	HQAM	25	0	21.42	21.68	21.51	22.2	0		
5	HQAM	12	7	21.58	21.62	21.56				
5	HQAM	1	24	21.54	21.49	21.49	21.2	1		
5	HQAM	12	0	19.63	19.58	19.62				
5	HQAM	12	7	19.37	19.58	19.63	21.2	1		
5	HQAM	25	0	19.31						



Reduced Power Mode for Other PA DS3

Band 2 Other PA Ant0 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Freq Ch / Freq	Power Freq Ch / Freq	Turn-up time (s)	MPR (dB)	
Channel Frequency (MHz)									
20	QPSK	1	0	22.17	22.28	22.23			
20	QPSK	1	49	22.09	22.13	22.12			
20	QPSK	1	99	22.15	22.20	22.07			
20	QPSK	50	0	22.09	22.20	22.09			
20	QPSK	50	24	22.05	22.10	22.04			
20	QPSK	50	60	22.03	22.05	22.12			23
20	QPSK	100	0	22.05	22.20	22.10			
20	QPSK	100	0	22.08	22.12	22.10			
20	16QAM	1	49	22.12	22.09	22.20			
20	16QAM	1	99	22.11	22.18	22.01			
20	16QAM	50	24	21.99	22.12	22.06			23
20	16QAM	50	50	22.04	22.26	22.02			
20	16QAM	100	0	22.08	22.20	22.04			
20	16QAM	1	0	22.13	22.10	22.01			
20	16QAM	1	49	22.07	22.25	22.08			
20	16QAM	50	0	21.97	22.20	22.11			
20	16QAM	50	24	21.35	21.46	21.18			22
20	16QAM	50	24	21.30	21.41	21.08			
20	16QAM	100	0	21.39	21.60	21.48			
20	256QAM	1	0	18.89	18.67	18.44			
20	256QAM	1	49	18.87	18.84	18.87			20.5
20	256QAM	1	99	18.85	18.92	18.48			
20	256QAM	50	0	18.43	18.55	18.52			
20	256QAM	50	24	18.34	18.52	18.43			20.5
20	256QAM	50	50	18.24	18.48	18.34			
20	256QAM	100	0	18.29	18.42	18.31			
Channel Frequency (MHz)									
18	QPSK	1	0	22.13	22.24	22.21			
18	QPSK	1	49	22.07	22.18	22.15			23
18	QPSK	1	74	21.99	22.00	22.03			
18	QPSK	36	0	21.86	22.05	21.88			
18	QPSK	36	0	21.87	22.07	21.98			23
18	QPSK	36	39	21.97	22.07	21.96			
18	QPSK	36	39	22.01	22.17	22.02			
18	16QAM	1	0	21.97	22.08	21.96			
18	16QAM	1	37	22.02	22.06	22.17			23
18	16QAM	1	74	21.88	22.12	21.85			
18	16QAM	36	0	21.84	21.94	21.88			
18	16QAM	36	20	21.91	22.02	21.87			23
18	16QAM	36	39	22.02	22.22	21.89			
18	16QAM	1	0	21.52	22.00	22.00			23
18	16QAM	1	37	22.02	22.17	22.01			
18	16QAM	20	0	21.86	21.92	21.86			
18	16QAM	36	0	21.36	21.50	21.32			
18	16QAM	36	20	21.34	21.57	21.15			
18	16QAM	36	39	21.05	21.25	21.05			
18	16QAM	75	0	21.20	21.46	21.33			
18	16QAM	75	0	18.53	18.40	18.33			
18	256QAM	13	37	22.03	22.18	22.06			20.5
18	256QAM	1	74	18.47	18.40	18.36			
18	256QAM	1	99	18.32	18.42	18.34			
18	256QAM	36	20	18.34	18.45	18.29			
18	256QAM	36	39	18.06	18.36	18.24			
18	256QAM	75	0	18.20	18.22	18.22			
18	256QAM	50	0	18.17	18.26	18.30			
18	256QAM	50	0	18.17	18.31	18.23			
Channel Frequency (MHz)									
15	QPSK	1	0	22.00	22.27	22.18			
15	QPSK	1	26	22.06	22.03	22.18			23
15	QPSK	1	49	22.00	22.24	22.00			
15	QPSK	25	0	22.00	22.20	22.05			
15	QPSK	25	12	21.99	22.04	22.08			
15	QPSK	25	26	21.96	21.97	21.96			
15	QPSK	25	26	22.01	22.12	21.97			
15	16QAM	1	0	22.06	22.05	22.19			
15	16QAM	1	26	22.00	22.01	22.21			
15	16QAM	1	49	22.09	22.06	21.84			
15	16QAM	25	0	21.98	22.19	21.96			22
15	16QAM	25	12	21.93	22.10	21.87			
15	16QAM	25	26	21.88	22.19	22.00			
15	16QAM	25	49	21.86	22.11	21.97			
15	16QAM	1	0	22.11	21.81	21.89			
15	16QAM	1	26	22.05	22.22	21.90			23
15	16QAM	1	49	22.09	22.20	21.90			
15	16QAM	25	0	21.20	21.41	21.47			
15	16QAM	25	12	21.23	21.41	21.14			
15	16QAM	25	26	21.38	21.36	21.40			22
15	16QAM	25	49	21.43	21.34	21.34			
15	16QAM	25	0	18.47	18.54	18.28			
15	16QAM	25	12	18.33	18.46	18.36			20.5
15	16QAM	25	26	18.24	18.36	18.37			
15	16QAM	25	49	18.17	18.26	18.30			20.5
15	16QAM	50	0	18.17	18.26	18.30			
15	16QAM	50	0	18.17	18.31	18.23			
Channel Frequency (MHz)									
5	QPSK	1	0	22.12	22.18	22.24			
5	QPSK	1	12	22.08	22.14	22.12			23
5	QPSK	1	24	21.86	22.23	21.84			
5	QPSK	12	0	21.97	22.10	22.00			
5	QPSK	12	7	21.88	22.14	22.07			
5	QPSK	12	13	21.97	21.93	21.99			
5	QPSK	26	0	21.85	22.08	21.91			
5	16QAM	1	24	21.90	22.14	21.98			23
5	16QAM	1	12	21.84	22.06	22.15			
5	16QAM	1	24	22.01	22.01	21.85			
5	16QAM	12	0	21.89	22.20	22.15			23
5	16QAM	12	7	21.99	22.15	22.08			
5	16QAM	12	13	21.89	22.22	21.94			
5	16QAM	26	0	21.84	22.20	21.99			
5	16QAM	1	0	21.93	21.90	21.95			
5	16QAM	1	12	21.95	22.20	21.91			23
5	16QAM	1	24	22.06	22.13	21.91			
5	16QAM	12	0	21.25	21.50	21.15			
5	16QAM	12	7	21.15	21.39	21.20			22
5	16QAM	12	13	21.32	21.44	21.25			
5	16QAM	26	0	21.26	21.42	21.48			
5	16QAM	26	0	21.67	21.46	21.47			
5	16QAM	1	13	18.33	18.41	18.28			20.5
5	16QAM	1	24	18.35	18.41	18.28			
5	16QAM	12	0	18.23	18.36	18.39			
5	16QAM	12	7	18.23	18.36	18.39			20.5
5	16QAM	12	13	18.23	18.36	18.39			20.5
5	16QAM	26	0	18.31	18.34	18.27			
5	16QAM	26	0	18.00	18.00	18.00			
Channel Frequency (MHz)									
3	QPSK	1	0	22.10	22.16	22.21			
3	QPSK	1	14	22.01	22.20	22.09			23
3	QPSK	1	5	22.03	22.20	22.04			
3	QPSK	8	0	21.91	22.07	21.99			
3	QPSK	8	7	22.04	21.96	21.96			
3	QPSK	15	0	21.89	22.08	21.96			
3	QPSK	15	0	21.91	22.08	22.06			
3	16QAM	1	0	22.03	22.14	21.89			
3	16QAM	1	8	22.08	22.03	22.05			
3	16QAM	1	14	22.00	22.15	21.83			
3	16QAM	8	0	21.92	21.94	22.00			
3	16QAM	8	4	21.81	22.04	21.94			23
3	16QAM	8	7	22.01	22.06	22.02			
3	16QAM	15	0	22.04	22.19	21.90			
3	16QAM	1	0	22.00	22.04	21.80			23
3	16QAM	1	8	22.00	22.16	21.96			
3	16QAM	1	14	22.18	22.18	21.96			
3	16QAM	8	0	21.29	21.47	21.27			
3	16QAM	8	4	21.26	21.40	21.10			22
3	16QAM	8	7	21.45	21.59	21.28			
3	16QAM	15	0	21.27	21.61	21.40			
3	256QAM	1	8	18.36	18.41	18.32			
3	256QAM	1	8	18.36	18.38	18.36			
3	256QAM	1	14	18.43	18.37	18.29			
3	256QAM	8	4	18.13	18.38	18.16			
3	256QAM	8	7	18.07	18.39	18.28			20.5
3	256QAM	15	0	18.08	18.35	18.20			
Channel Frequency (MHz)									
1.4	QPSK	1	0	22.01	22.07	22.08			
1.4	QPSK	1	5	22.03	22.00	21.96			
1.4	QPSK	1	5	22.05	22.05	22.02			23
1.4	QPSK	3	0	22.06	22.07	22.09			
1.4	QPSK	3	3	22.01	21.96	22.02			
1.4	QPSK	3	8	22.02	22.03	22.06			
1.4	16QAM	1	0	21.91	22.10	21.94			23
1.4	16QAM	1	3	21.91	21.89	22.17			
1.4	16QAM	1	8	22.00	22.15	22.03			
1.4	16QAM	3	0	21.92	21.97	22.07			
1.4	16QAM	3	1	21.78	21.94	21.91			23
1.4	16QAM	3	5	22.00	22.15	22.03			
1.4	16QAM	3	8	21.97	21.99	21.96			23
1.4	16QAM	1	0	21.96	21.96	21.82			
1.4	16QAM	1	8	22.02	22.05	21.87			
1.4	16QAM	1	5	22.08	22.21	22.03			
1.4	16QAM	3	0	21.83	21.93	21.75			23
1.4	16QAM	3	1	21.84	22.00	21.76			
1.4	16QAM	3	3	22.08	21.99	22.02			
1.4	16QAM	3							



Band 38 Other PA Ant0 DSI3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				37650	38650	38150					
Frequency (MHz)				21.70	21.65	21.60					
20	QPSK	1	0	21.50	21.65	21.80	23.4	0			
20	QPSK	1	48	21.72	21.60	21.71					
20	QPSK	1	96	21.51	21.52	21.76					
20	QPSK	50	0	21.69	21.50	21.82					
20	QPSK	50	24	21.87	21.88	21.83	23.4	0			
20	QPSK	50	48	21.83	21.86	21.85					
20	QPSK	100	0	21.72	21.67	21.86					
20	QPSK	100	48	21.86	21.76	21.76					
20	HQAM	1	0	21.46	21.46	21.46	23.4	0			
20	HQAM	1	48	21.53	21.53	21.53					
20	HQAM	1	96	21.76	21.76	21.76					
20	HQAM	50	0	21.27	21.31	21.22					
20	HQAM	50	24	21.52	21.51	21.22	22.9	0.5			
20	HQAM	50	48	21.52	21.51	21.51					
20	HQAM	100	0	21.26	21.28	21.15					
20	HQAM	100	48	21.14	21.15	21.14					
20	HQAM	1	48	21.62	21.68	21.59	22.9	0.5			
20	HQAM	1	96	20.96	21.13	20.91					
20	HQAM	50	0	20.12	20.30	20.21					
20	HQAM	50	24	20.03	20.19	20.10					
20	HQAM	100	0	20.12	20.24	20.12	21.9	1.5			
20	HQAM	100	48	18.33	18.25	18.26					
20	HQAM	1	48	18.32	18.33	18.26					
20	HQAM	1	96	18.11	18.18	18.10					
20	HQAM	50	0	18.33	18.38	18.38	19.9	3.5			
20	HQAM	50	24	18.33	18.38	18.38					
20	HQAM	50	48	18.04	18.33	18.10					
20	HQAM	50	50	18.01	18.25	18.04					
20	HQAM	100	0	18.04	18.38	18.04	19.9	3.5			
20	HQAM	100	48	18.04	18.38	18.04					
20	HQAM	100	96	18.04	18.38	18.04					
20	HQAM	100	144	18.04	18.38	18.04					
Channel				37650	38650	38150					
Frequency (MHz)				21.70	21.65	21.60					
15	QPSK	1	0	21.70	21.65	21.60	23.4	0			
15	QPSK	1	37	21.81	21.71	21.61					
15	QPSK	1	74	21.84	21.77	21.74					
15	QPSK	36	0	21.84	21.85	21.76					
15	QPSK	36	20	21.83	21.83	21.73	23.4	0			
15	QPSK	36	38	21.76	21.83	21.69					
15	QPSK	75	0	21.52	21.76	21.74					
15	HQAM	1	0	21.86	21.68	21.58					
15	HQAM	1	37	21.75	21.63	21.63	23.4	0			
15	HQAM	1	74	21.58	21.63	21.76					
15	HQAM	36	0	21.69	21.25	21.18					
15	HQAM	36	20	20.32	21.04	21.07					
15	HQAM	36	36	20.92	21.04	21.07	22.9	0.5			
15	HQAM	75	0	21.16	21.26	21.03					
15	HQAM	75	37	21.07	20.97	21.07					
15	HQAM	1	37	21.03	20.98	21.02					
15	HQAM	1	74	20.93	21.02	21.03	22.9	0.5			
15	HQAM	36	0	20.93	20.95	20.97					
15	HQAM	36	20	19.97	19.99	20.11					
15	HQAM	36	36	20.93	20.95	20.97					
15	HQAM	75	0	20.06	20.12	19.95	19.9	3.5			
15	HQAM	75	0	18.12	18.21	18.25					
15	HQAM	1	37	17.91	18.00	18.04					
15	HQAM	1	74	17.91	18.00	18.04					
15	HQAM	36	0	18.06	18.40	18.20	19.9	3.5			
15	HQAM	36	20	18.04	18.27	18.04					
15	HQAM	36	36	17.95	18.26	18.07					
15	HQAM	75	0	18.12	17.96	18.01					
Channel				37650	38650	38150					
Frequency (MHz)				21.70	21.65	21.60					
10	QPSK	1	0	21.71	21.70	21.72	23.4	0			
10	QPSK	1	25	21.83	21.84	21.82					
10	QPSK	1	48	21.50	21.89	21.68					
10	QPSK	25	0	21.65	21.77	21.62					
10	QPSK	25	12	21.65	21.77	21.62	23.4	0			
10	QPSK	25	25	21.81	21.76	21.68					
10	QPSK	50	0	21.72	21.69	21.69					
10	HQAM	1	0	21.72	21.66	21.61					
10	HQAM	1	25	21.80	21.82	21.77	23.4	0			
10	HQAM	1	48	21.67	21.62	21.66					
10	HQAM	25	0	21.11	21.18	21.11					
10	HQAM	25	12	21.01	21.16	20.96					
10	HQAM	50	0	21.02	21.18	20.96	22.9	0.5			
10	HQAM	50	12	21.05	21.06	21.04					
10	HQAM	50	25	20.95	21.05	21.04					
10	HQAM	50	50	21.02	21.18	20.96					
10	HQAM	100	0	20.93	20.94	21.08	22.9	0.5			
10	HQAM	100	25	20.93	20.94	21.08					
10	HQAM	1	48	20.95	21.13	20.92					
10	HQAM	25	0	20.05	20.18	20.00					
10	HQAM	25	12	20.92	20.11	20.03	21.9	1.5			
10	HQAM	25	25	20.13	20.16	20.12					
10	HQAM	50	0	19.95	20.25	19.95					
10	HQAM	50	0	18.13	18.17	18.21					
10	HQAM	1	25	18.15	18.20	18.21	19.9	3.5			
10	HQAM	1	48	17.95	18.08	18.04					
10	HQAM	25	0	18.07	18.32	18.08					
10	HQAM	25	12	18.06	18.32	18.06					
10	HQAM	25	12	17.94	18.07	18.02	19.9	3.5			
10	HQAM	25	25	17.94	18.07	18.02					
10	HQAM	50	0	17.94	18.13	18.22					
10	HQAM	50	0	17.94	18.13	18.22					
Channel				37650	38650	38150					
Frequency (MHz)				21.70	21.65	21.60					
5	QPSK	1	0	21.71	21.70	21.72	23.4	0			
5	QPSK	1	12	21.53	21.89	21.63					
5	QPSK	1	24	21.50	21.76	21.59					
5	QPSK	12	0	21.50	21.82	21.61					
5	QPSK	12	7	21.79	21.80	21.61	23.4	0			
5	QPSK	12	13	21.84	21.84	21.60					
5	QPSK	25	0	21.72	21.71	21.62					
5	HQAM	1	0	21.68	21.76	21.75					
5	HQAM	1	12	21.73	21.80	21.76	23.4	0			
5	HQAM	1	24	21.76	21.82	21.79					
5	HQAM	12	0	21.26	21.23	21.05					
5	HQAM	12	7	20.91	21.16	21.04					
5	HQAM	12	13	20.99	20.91	21.06	22.9	0.5			
5	HQAM	25	0	21.23	21.26	20.93					
5	HQAM	25	0	21.11	21.07	21.00					



Frequency (MHz)		1717.5	1745	1772.3	Int. (dB)	M (dB)
QPSK	1	18.15	18.09	18.03		
8	QPSK <td>1</td> <td>18.15<td>18.09<td rowspan="2">17.6</td><td rowspan="2"></td></td></td>	1	18.15 <td>18.09<td rowspan="2">17.6</td><td rowspan="2"></td></td>	18.09 <td rowspan="2">17.6</td> <td rowspan="2"></td>	17.6	
16	QPSK <td>1</td> <td>18.15<td>18.12</td></td>	1	18.15 <td>18.12</td>	18.12		
32	QPSK <td>1</td> <td>18.12<td>18.05<td rowspan="2">17.6</td><td rowspan="2"></td></td></td>	1	18.12 <td>18.05<td rowspan="2">17.6</td><td rowspan="2"></td></td>	18.05 <td rowspan="2">17.6</td> <td rowspan="2"></td>	17.6	
64	QPSK <td>36</td> <td>0</td> <td>18.12</td>	36	0	18.12		
128	QPSK <td>36</td> <td>0</td> <td>18.12<td rowspan="2">17.6</td><td rowspan="2"></td></td>	36	0	18.12 <td rowspan="2">17.6</td> <td rowspan="2"></td>	17.6	
256	QPSK <td>36</td> <td>36</td> <td>18.09</td>	36	36	18.09		
512	QPSK <td>75</td> <td>0</td> <td>18.05<td rowspan="2">17.6</td><td rowspan="2"></td></td>	75	0	18.05 <td rowspan="2">17.6</td> <td rowspan="2"></td>	17.6	
1024	QPSK <td>150</td> <td>0</td> <td>18.05</td>	150	0	18.05		
16384	1	37	16.20	15.96 <td rowspan="2">17.6</td> <td rowspan="2"></td>	17.6	
16384	1	74	16.20	15.92		
16384	36	0	15.87	15.93	17.6	
16384	36	20	16.12	15.96		
16384	36	20	16.12	15.96	17.6	
16384	36	36	16.10	15.74		
16384	75	0	15.88	15.98	17.6	
16384	1	37	16.11	15.92		
16384	1	74	15.99	15.83	17.6	
16384	36	0	16.01	16.07		
16384	36	20	15.99	15.85	17.6	
16384	36	36	15.81	15.87		
16384	75	0	15.88	15.80	17.6	
16384	1	37	15.97	15.79		
256000	1	37	15.97	15.79	17.6	
256000	1	74	15.83	15.84		
256000	36	0	15.83	15.80	17.6	
256000	36	20	15.89	15.94		
256000	36	20	15.89	15.94	17.6	
256000	36	36	15.83	16.11		
256000	75	0	15.70	15.81	17.6	
256000	1	37	15.70	15.81		
Channel						
Frequency (MHz)		1500.2	1503.2	1506.2	Interp. (dB)	M (dB)
Frequency (MHz)		1715	1745	1775	Int. (dB)	M (dB)
8	QPSK <td>1</td> <td>18.15</td> <td>18.03</td> <td rowspan="2">17.6</td> <td rowspan="2"></td>	1	18.15	18.03		
16	QPSK <td>1</td> <td>18.15</td> <td>18.03</td> <td rowspan="2">17.6</td> <td rowspan="2"></td>	1	18.15	18.03	17.6	
32	QPSK <td>1</td> <td>18.15</td> <td>18.03</td> <td rowspan="2">17.6</td> <td rowspan="2"></td>	1	18.15	18.03		
64	QPSK <td>1</td> <td>18.15</td> <td>18.03</td> <td rowspan="2">17.6</td> <td rowspan="2"></td>	1	18.15	18.03	17.6	
128	QPSK <td>1</td> <td>18.15</td> <td>18.03</td> <td rowspan="2">17.6</td> <td rowspan="2"></td>	1	18.15	18.03		
256	QPSK <td>1</td> <td>18.15</td> <td>18.03</td> <td rowspan="2">17.6</td> <td rowspan="2"></td>	1	18.15	18.03	17.6	
512	QPSK <td>1</td> <td>18.15</td> <td>18.03</td> <td rowspan="2">17.6</td> <td rowspan="2"></td>	1	18.15	18.03		
1024	QPSK <td>1</td> <td>18.15</td> <td>18.03</td> <td rowspan="2">17.6</td> <td rowspan="2"></td>	1	18.15	18.03	17.6	
16384	1	25	16.09	16.02		
16384	1	50	15.92	15.94	17.6	
16384	25	12	15.86	15.91		
16384	25	12	15.86	15.91	17.6	
16384	50	0	15.99	15.81		
16384	50	0	15.99	15.81	17.6	
16384	25	12	15.86	15.75		
16384	25	12	15.97	15.99	17.6	
16384	1	49	15.83	15.97		
16384	1	98	15.83	15.97	17.6	
16384	25	12	15.86	15.75		
16384	25	12	15.93	15.75	17.6	
16384	25	12	15.86	15.84		
16384	25	12	15.93	15.85	17.6	
256000	1	0	15.95	15.85		
256000	1	0	15.95	15.86	17.6	
256000	1	0	15.95	15.86		
256000	1	0	15.95	15.87	17.6	
256000	25	12	15.86	15.84		
256000	50	0	15.84	15.83	17.6	
256000	50	0	15.84	15.83		
256000	25	12	15.86	15.75	17.6	
256000	25	12	15.97	15.99		
256000	1	12	15.84	15.76	17.6	
256000	1	24	15.81	15.87		
256000	12	0	15.14	15.16	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77	15.83	17.6	
256000	12	0	15.77	15.83		
256000	12	0	15.77			

Frequency (MHz)		17.07	17.04	17.05	17.79.3	Inst. (dB)
1A	QPSK 1 d	15.10	15.94	15.96		
1A	QPSK 1 d	15.31	15.70	16.05		
1A	QPSK 1 d	15.52	15.58	15.79		17.5
1A	QPSK 1 d	15.67	15.59	16.07		
1A	QPSK 1 d	15.79	15.84	15.91		
1A	QPSK 1 d	15.77	15.90	16.05		
1A	QPSK 6 d	15.88	15.85	15.78	17.6	
1A	16QAM 1 d	15.95	16.11	15.95		
1A	16QAM 1 d	16.19	16.33	16.02		
1A	16QAM 1 d	16.19	16.33	16.02		17.8
1A	16QAM 3 d	15.99	16.03	15.87		
1A	16QAM 3 d	16.17	16.11	15.98		
1A	16QAM 3 d	16.33	16.09	15.72	17.5	
1A	64QAM 1 d	16.16	16.08	15.84		
1A	64QAM 1 d	16.33	15.91	15.86		
1A	64QAM 1 d	16.08	15.94	15.73		
1A	64QAM 3 d	16.09	16.07	15.85		
1A	64QAM 3 d	15.81	15.96	15.70		
1A	256QAM 3 d	15.83	15.90	15.78		
1A	256QAM 3 d	16.01	15.83	15.55	17.8	
1A	256QAM 3 d	15.97	15.82	15.96		
1A	256QAM 3 d	16.09	16.01	15.91		
1A	256QAM 3 d	15.95	15.85	15.82		17.6
1A	256QAM 3 d	16.08	15.95	15.84		
1A	256QAM 3 d	15.85	15.90	15.88		
1A	256QAM 3 d	15.98	15.88	15.67		
1A	256QAM 6 d	16.03	15.77	15.77	17.8	



Band 38 Other PA Ant1 DS13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38050	38150				
Frequency (MHz)				24.98	25.02	25.05				
20	QPSK	1	0	21.09	21.02	21.03	22.6	0		
20	QPSK	1	48	21.08	21.07	21.04				
20	QPSK	1	88	21.05	21.03	21.04	22.6	0		
20	QPSK	50	0	21.05	21.20	20.95				
20	QPSK	50	24	20.94	21.15	20.99	22.6	0		
20	QPSK	50	48	20.93	21.02	21.01				
20	QPSK	100	0	20.92	21.07	20.93	22.6	0		
20	16QAM	1	0	20.95	21.18	21.00				
20	16QAM	1	96	20.95	21.26	21.00	22.6	0		
20	16QAM	50	0	20.94	20.99	20.91				
20	16QAM	50	24	20.94	20.92	20.93	22.1	0.5		
20	16QAM	50	50	20.94	20.92	20.93				
20	16QAM	100	0	20.95	20.95	20.95	22.1	0.5		
20	16QAM	100	1	48	20.91	20.99			20.94	
20	16QAM	1	96	20.96	20.91	20.94	22.1	0.5		
20	16QAM	50	0	19.93	19.95	19.49				
20	16QAM	50	24	19.49	19.93	19.47	21.1	1.5		
20	16QAM	50	50	19.42	19.94	19.47				
20	16QAM	100	0	19.33	19.42	19.48	21.1	1.5		
20	256QAM	1	0	17.58	17.61	17.46				
20	256QAM	1	48	17.56	17.58	17.57	19.1	3.5		
20	256QAM	1	96	17.42	17.46	17.52				
20	256QAM	50	0	17.34	17.72	17.56	19.1	3.5		
20	256QAM	50	24	17.34	17.45	17.28				
20	256QAM	50	50	17.43	17.63	17.47	19.1	3.5		
20	256QAM	100	0	17.37	17.62	17.43				
Channel				37850	38050	38150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				21.73	21.75	21.73				
15	QPSK	1	0	20.35	20.35	20.35	22.6	0		
15	QPSK	1	37	21.09	20.93	20.90				
15	QPSK	1	74	20.90	20.92	20.92	22.6	0		
15	QPSK	36	0	20.92	21.03	20.92				
15	QPSK	36	20	20.94	21.21	20.92	22.6	0		
15	QPSK	36	36	20.93	21.00	20.93				
15	QPSK	75	0	20.88	20.92	20.85	22.6	0		
15	16QAM	1	0	20.81	21.06	20.84				
15	16QAM	1	37	20.75	20.91	21.02	22.6	0		
15	16QAM	1	74	20.97	21.05	20.99				
15	16QAM	36	0	20.93	20.43	20.40	22.1	0.5		
15	16QAM	36	20	19.38	19.59	19.27				
15	16QAM	36	36	19.37	19.59	19.27	21.1	1.5		
15	16QAM	75	0	19.20	19.20	19.20				
15	256QAM	1	0	17.38	17.63	17.38	19.1	3.5		
15	256QAM	1	37	17.32	17.38	17.32				
15	256QAM	1	74	17.23	17.28	17.33	19.1	3.5		
15	256QAM	36	0	17.21	17.40	17.18				
15	256QAM	36	20	17.28	17.42	17.44	19.1	3.5		
15	256QAM	36	36	17.38	17.58	17.44				
15	256QAM	75	0	17.17	17.56	17.46	19.1	3.5		
15	256QAM	75	37	17.17	17.56	17.46				
Channel				37850	38050	38150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				25.71	25.75	25.75				
10	QPSK	1	0	20.94	21.13	20.91	22.6	0		
10	QPSK	1	25	20.94	21.04	20.96				
10	QPSK	1	48	20.97	20.86	20.88	22.6	0		
10	QPSK	25	0	20.96	21.05	20.96				
10	QPSK	25	12	20.89	21.21	20.97	22.6	0		
10	QPSK	25	25	20.80	20.88	21.04				
10	HQAM	1	0	20.84	21.12	20.97	22.6	0		
10	HQAM	1	25	20.80	21.03	21.00				
10	HQAM	1	48	20.97	21.09	21.07	22.1	0.5		
10	HQAM	25	0	20.42	20.39	20.99				
10	HQAM	25	12	20.32	20.39	20.47	22.1	0.5		
10	HQAM	25	25	20.42	20.43	20.47				
10	HQAM	50	0	20.37	20.43	20.41	22.1	0.5		
10	HQAM	50	25	20.32	20.43	20.47				
10	HQAM	1	0	19.46	19.49	19.33	21.1	1.5		
10	HQAM	1	25	19.34	19.40	19.34				
10	HQAM	25	0	19.35	19.44	19.47	21.1	1.5		
10	HQAM	25	12	19.33	19.35	19.38				
10	HQAM	25	25	19.25	19.40	19.46	21.1	1.5		
10	HQAM	50	0	19.33	19.44	19.47				
10	256QAM	1	0	17.47	17.57	17.33	19.1	3.5		
10	256QAM	1	25	17.57	17.33	17.37				
10	256QAM	1	48	17.33	17.59	17.43	19.1	3.5		
10	256QAM	25	0	17.32	17.43	17.28				
10	256QAM	25	12	17.35	17.51	17.38	19.1	3.5		
10	256QAM	25	25	17.21	17.50	17.31				
10	256QAM	50	0	17.30	17.48	17.23	19.1	3.5		
10	256QAM	50	25	17.30	17.48	17.23				
Channel				37850	38050	38150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				21.73	21.75	21.73				
5	QPSK	1	0	21.00	21.13	20.91	22.6	0		
5	QPSK	1	12	21.04	21.00	20.98				
5	QPSK	1	24	20.91	20.99	20.98	22.6	0		
5	QPSK	12	0	21.00	20.91	20.98				
5	QPSK	12	7	20.94	21.08	21.01	22.6	0		
5	QPSK	12	13	20.94	20.99	20.90				
5	QPSK	25	0	20.76	21.09	20.91	22.6	0		
5	16QAM	1	0	20.74	21.00	20.98				
5	16QAM	1	12	20.81	20.89	20.93	22.6	0		
5	16QAM	1	24	20.86	21.05	20.96				
5	16QAM	12	0	20.33	20.99	20.50	22.1	0.5		
5	16QAM	12	7	20.45	20.32	20.43				
5	16QAM	12	13	20.36	20.37	20.36	22.1	0.5		
5	16QAM	25	0	20.34	20.64	20.38				
5	16QAM	25	0	20.44	20.43	20.21	22.1	0.5		
5	16QAM	25	12	20.36	20.49	20.32				
5	16QAM	1	24	20.34	20.27	20.35	21.1	1.5		
5	16QAM	12	0	19.41	19.37	19.37				
5	16QAM	12	7	19.37	19.32	19.37	21.1	1.5		
5	16QAM	12	13	19.34	19.40	19.34				
5	16QAM	25	0	19.15	19.38	19.20	19.1	3.5		
5	256QAM	1	0	17.47	17.57	17.33				
5	256QAM	1	12	17.50	17.33	17.37	19.1	3.5		
5	256QAM	1	24	17.30	17.52	17.42				
5	256QAM	12	0	17.23	17.42	17.41	19.1	3.5		
5	256QAM	12	7	17.23	17.42	17.23				
5	256QAM	12	13	17.28	17.33	17.13	19.1	3.5		
5	256QAM	25	0	17.34	17.62	17.41				
5	256QAM	25	12	17.33	17.51	17.41	19.1	3.5		
5	256QAM	25	25	17.28	17.33	17.13				



Band 2 Other PA Ant2 DS13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power Hsp Ch / Freq	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.19	20.23	20.12	21	0		
20	QPSK	1	49	20.09	20.25	20.09				
20	QPSK	50	0	19.99	20.29	20.04	21	0		
20	QPSK	50	50	20.05	20.17	20.02				
20	QPSK	100	0	19.99	20.20	20.05	21	0		
20	QPSK	100	50	20.20	20.25	20.09				
20	QPSK	1	49	19.97	20.21	19.91	21	0		
20	QPSK	1	99	20.21	20.16	19.98				
20	QPSK	50	0	19.77	17.05	17.06	18	3		
20	QPSK	50	50	19.98	19.90	19.98				
20	QPSK	100	0	19.91	19.90	19.89	21	0		
20	QPSK	100	50	19.95	19.98	19.98				
20	QPSK	1	49	19.77	17.17	17.06	18	3		
20	QPSK	1	99	17.09	17.16	17.06				
20	QPSK	50	0	17.02	17.08	17.04	18	3		
20	QPSK	50	50	16.87	16.98	16.89				
20	QPSK	100	0	16.87	17.09	16.89	18	3		
20	QPSK	100	50	17.10	17.09	16.89				
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.97	18.98	18.95	21	0		
20	QPSK	1	49	18.97	18.98	18.95				
20	QPSK	50	0	19.99	20.19	19.95	21	0		
20	QPSK	50	50	19.94	20.29	20.01				
20	QPSK	100	0	20.17	20.24	20.09	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	20.04	20.03	19.80	21	0		
20	QPSK	1	99	20.11	20.20	19.83				
20	QPSK	50	0	19.85	19.86	19.88	21	0		
20	QPSK	50	50	19.85	19.86	19.88				
20	QPSK	100	0	19.87	19.90	19.92	20	1		
20	QPSK	100	50	19.87	19.90	19.92				
20	QPSK	1	49	17.01	17.13	16.93	18	3		
20	QPSK	1	99	16.89	17.05	17.06				
20	QPSK	50	0	16.89	16.90	16.92	18	3		
20	QPSK	50	50	16.89	16.90	16.92				
20	QPSK	100	0	16.89	16.87	16.88	18	3		
20	QPSK	100	50	16.70	16.89	16.89				
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.95	19.96	19.95	21	0		
20	QPSK	1	49	19.99	20.10	19.99				
20	QPSK	1	99	19.77	20.14	19.95	21	0		
20	QPSK	1	0	19.82	20.26	19.99				
20	QPSK	50	0	19.99	20.19	19.95	21	0		
20	QPSK	50	50	19.92	20.27	19.87				
20	QPSK	100	0	19.89	20.19	19.90	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	20.08	20.30	19.99	21	0		
20	QPSK	1	99	19.91	20.16	20.04				
20	QPSK	50	0	19.79	20.19	19.98	21	0		
20	QPSK	50	50	19.90	20.29	20.04				
20	QPSK	100	0	19.90	20.20	19.95	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	19.84	20.10	19.88	20	1		
20	QPSK	1	99	19.84	20.10	19.88				
20	QPSK	50	0	19.87	19.90	19.92	20	1		
20	QPSK	50	50	19.87	19.90	19.92				
20	QPSK	100	0	19.87	19.90	19.92	20	1		
20	QPSK	100	50	19.87	19.90	19.92				
20	QPSK	1	49	17.01	17.13	16.93	18	3		
20	QPSK	1	99	16.89	17.05	17.06				
20	QPSK	50	0	16.89	16.90	16.92	18	3		
20	QPSK	50	50	16.89	16.90	16.92				
20	QPSK	100	0	16.89	16.87	16.88	18	3		
20	QPSK	100	50	16.70	16.89	16.82				
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.97	20.26	19.99	21	0		
20	QPSK	1	49	19.97	20.26	19.99				
20	QPSK	1	99	19.95	20.17	19.93	21	0		
20	QPSK	1	0	19.81	20.08	19.13				
20	QPSK	50	0	19.99	20.19	19.95	21	0		
20	QPSK	50	50	19.92	20.27	19.87				
20	QPSK	100	0	19.89	20.19	19.90	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	20.08	20.30	19.99	21	0		
20	QPSK	1	99	19.91	20.16	20.07				
20	QPSK	50	0	19.79	20.19	19.98	21	0		
20	QPSK	50	50	19.90	20.29	20.07				
20	QPSK	100	0	19.90	20.20	19.95	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	19.84	20.10	19.88	21	0		
20	QPSK	1	99	19.84	20.10	19.88				
20	QPSK	50	0	19.87	19.90	19.92	21	0		
20	QPSK	50	50	19.87	19.90	19.92				
20	QPSK	100	0	19.87	19.90	19.92	21	0		
20	QPSK	100	50	19.87	19.90	19.92				
20	QPSK	1	49	17.03	17.05	16.93	18	3		
20	QPSK	1	99	16.88	16.90	16.82				
20	QPSK	50	0	16.88	16.89	16.89	18	3		
20	QPSK	50	50	16.88	16.89	16.89				
20	QPSK	100	0	16.88	16.83	16.83	18	3		
20	QPSK	100	50	16.70	16.83	16.82				
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.97	19.99	19.93	21	0		
20	QPSK	1	49	19.97	19.99	19.93				
20	QPSK	1	99	19.95	20.11	19.93	21	0		
20	QPSK	1	0	19.81	20.08	19.13				
20	QPSK	50	0	19.99	20.19	19.95	21	0		
20	QPSK	50	50	19.92	20.27	19.87				
20	QPSK	100	0	19.89	20.19	19.90	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	20.08	20.30	19.99	21	0		
20	QPSK	1	99	19.91	20.16	20.07				
20	QPSK	50	0	19.79	20.19	19.98	21	0		
20	QPSK	50	50	19.90	20.29	20.07				
20	QPSK	100	0	19.90	20.20	19.95	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	19.84	20.10	19.88	21	0		
20	QPSK	1	99	19.84	20.10	19.88				
20	QPSK	50	0	19.87	19.90	19.92	21	0		
20	QPSK	50	50	19.87	19.90	19.92				
20	QPSK	100	0	19.87	19.90	19.92	21	0		
20	QPSK	100	50	19.87	19.90	19.92				
20	QPSK	1	49	17.03	17.05	16.93	18	3		
20	QPSK	1	99	16.88	16.90	16.83				
20	QPSK	50	0	16.88	16.89	16.89	18	3		
20	QPSK	50	50	16.88	16.89	16.89				
20	QPSK	100	0	16.88	16.83	16.83	18	3		
20	QPSK	100	50	16.70	16.83	16.82				
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.97	19.99	19.93	21	0		
20	QPSK	1	49	19.97	19.99	19.93				
20	QPSK	1	99	19.95	20.11	19.93	21	0		
20	QPSK	1	0	19.81	20.08	19.13				
20	QPSK	50	0	19.99	20.19	19.95	21	0		
20	QPSK	50	50	19.92	20.27	19.87				
20	QPSK	100	0	19.89	20.19	19.90	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	20.08	20.30	19.99	21	0		
20	QPSK	1	99	19.91	20.16	20.07				
20	QPSK	50	0	19.79	20.19	19.98	21	0		
20	QPSK	50	50	19.90	20.29	20.07				
20	QPSK	100	0	19.90	20.20	19.95	21	0		
20	QPSK	100	50	19.94	20.29	19.99				
20	QPSK	1	49	19.84	20.10	19.88	21	0		
20	QPSK	1	99	19.84	20.10	19.88				
20	QPSK	50	0	19.87	19.90	19.92	21	0		
20	QPSK	50	50	19.87	19.90	19.92				
20	QPSK	100	0	19.87	19.90	19.92	21	0		
20	QPSK	100	50	19.87	19.90	19.92				
20	QPSK	1	49	17.03	17.05	16.93	18	3		
20	QPSK	1	99	16.88	16.90	16.83				
20	QPSK	50	0	16.88	16.89	16.89	18	3		
20	QPSK	50	50	16.88	16.89	16.89				
20	QPSK	100	0	16.88	16.83	16.83	18	3		
20	QPSK	100	50	16.70	16.83	16.82				

Band 38 Other PA Ant2 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power (dBm) C/Freq	Power (dBm) C/Freq	Power (dBm) C/Freq	Tx-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)				37865	37865	38100			
15	QPSK	1	0	22.03	22.03	22.03			
15	QPSK	1	49	21.81	21.81	21.87	23	0	
15	QPSK	1	98	21.87	21.87	21.87			
15	QPSK	50	0	20.86	20.86	20.86			
15	QPSK	50	24	20.92	20.92	20.90	22	1	
15	QPSK	50	49	20.98	20.98	20.90			
15	QPSK	100	0	21.05	21.11	20.90			
15	16QAM	1	0	20.91	21.05	20.98			
15	16QAM	1	49	20.97	21.05	20.92	22	1	
15	16QAM	1	98	20.82	20.85	20.88			
15	16QAM	50	0	19.96	20.10	19.97			
15	16QAM	50	24	19.99	20.13	19.98			
15	16QAM	50	49	19.94	20.08	19.91	21	2	
15	16QAM	100	0	19.94	20.07	19.96			
15	16QAM	100	24	19.95	20.13	19.98			
15	64QAM	1	49	20.02	20.07	19.94	21	2	
15	64QAM	1	98	20.08	20.13	19.93			
15	64QAM	50	0	19.98	19.91	19.87			
15	64QAM	50	24	19.96	19.92	19.89	20	3	
15	64QAM	50	49	19.93	19.91	19.89			
15	64QAM	100	0	19.91	19.89	19.87			
15	256QAM	1	0	17.06	17.13	17.09			
15	256QAM	1	49	17.07	17.15	17.04	18	5	
15	256QAM	1	99	16.90	17.06	16.93			
15	256QAM	50	0	16.90	16.93	16.89			
15	256QAM	50	24	16.84	16.95	16.83	18	5	
15	256QAM	50	49	16.88	17.01	16.89			
15	256QAM	100	0	16.88	17.03	16.89			
Channel									
Frequency (MHz)				37865	37865	38110			
15	QPSK	1	0	22.74	22.74	22.74			
15	QPSK	1	37	21.76	21.84	21.77	23	0	
15	QPSK	1	74	21.79	21.88	21.71			
15	QPSK	50	0	20.86	20.86	20.86			
15	QPSK	50	20	20.86	20.89	20.80	22	1	
15	QPSK	50	40	20.86	20.89	20.77			
15	QPSK	75	0	21.01	21.01	20.99			
15	16QAM	1	0	20.88	21.01	20.87			
15	16QAM	1	37	20.91	21.03	20.85	22	1	
15	16QAM	1	74	20.77	20.92	20.77			
15	16QAM	50	0	19.96	19.96	19.96			
15	16QAM	50	20	19.97	19.91	19.88	21	2	
15	16QAM	50	36	19.90	19.93	19.84			
15	16QAM	75	0	19.92	19.92	19.92			
15	64QAM	1	0	19.92	20.09	19.91			
15	64QAM	1	37	19.91	19.94	19.88	21	2	
15	64QAM	1	74	19.87	19.92	19.80			
15	64QAM	50	0	18.86	19.07	18.80			
15	64QAM	50	20	18.88	18.90	18.73	20	3	
15	64QAM	50	36	18.88	18.91	18.80			
15	64QAM	75	0	18.86	18.96	18.73			
15	256QAM	1	0	16.99	17.09	17.06			
15	256QAM	1	49	16.99	17.09	16.99	18	5	
15	256QAM	1	99	16.87	17.03	16.81			
15	256QAM	50	0	16.97	16.97	16.97			
15	256QAM	50	20	16.75	16.92	16.77	18	5	
15	256QAM	50	49	16.78	16.97	16.76			
15	256QAM	50	65	16.78	16.97	16.76			
Channel									
Frequency (MHz)				37865	37865	38220			
15	QPSK	1	0	22.74	22.74	22.74			
15	QPSK	1	12	21.81	21.89	21.84	23	0	
15	QPSK	1	24	21.75	21.88	21.69			
15	QPSK	12	0	20.86	20.86	20.86			
15	QPSK	12	7	20.79	20.95	20.78	22	1	
15	QPSK	12	14	20.81	21.02	20.73			
15	QPSK	24	0	21.02	21.09	20.95			
15	16QAM	1	0	20.87	21.02	20.87			
15	16QAM	1	12	20.91	21.05	20.88	22	1	
15	16QAM	1	24	20.73	20.98	20.78			
15	16QAM	12	0	19.92	19.98	19.92			
15	16QAM	12	7	19.92	19.99	19.87	21	2	
15	16QAM	12	13	19.87	19.94	19.81			
15	16QAM	24	0	19.92	19.92	19.92			
15	64QAM	1	0	19.96	20.07	19.91			
15	64QAM	1	12	19.97	19.99	19.90	20	1	
15	64QAM	1	24	19.84	19.92	19.81			
15	64QAM	12	0	18.89	18.98	18.88			
15	64QAM	12	7	18.90	18.93	18.74	20	3	
15	64QAM	12	12	18.91	18.90	18.89			
15	64QAM	24	0	18.83	18.88	18.73			
15	256QAM	1	0	16.97	17.06	16.98			
15	256QAM	1	12	16.93	16.98	17.01	18	5	
15	256QAM	1	24	16.82	16.91	16.81			
15	256QAM	12	0	16.82	17.02	16.83			
15	256QAM	12	7	16.75	16.88	16.71	18	5	
15	256QAM	12	13	16.85	16.97	16.78			
15	256QAM	24	0	16.85	16.97	16.84			

Band 41 Other PA Ant2 Default											
RF (MHz)	Modulation	RIS Size	RF Offset	Power (W) Ch1 / Freq	Power (W) Ch2 / Freq	Power (W) Ch3 / Freq	Power (W) Ch4 / Freq	Power (W) Ch5 / Freq	Turn-up time (sec)	MFR (dB)	
Channel											
Frequency (MHz)				40650	40185	40620	41065	41460			
20	QPSK	5	0	22.07	22.27	22.27	22.13	22.21	22.29	23	0
20	QPSK	1	48	21.91	22.14	22.27	22.28	22.21			
20	QPSK	5	0	22.02	22.17	22.22	22.11	22.20			
20	QPSK	50	21	21.86	22.14	22.21	21.93	22.03			
20	QPSK	50	24	20.91	21.13	21.24	21.11	21.06			
20	QPSK	5	0	22.07	22.16	22.21	22.07	22.09			21
20	QPSK	100	5	21.03	21.26	21.33	21.35	21.14			
20	16QAM	1	0	21.22	21.38	21.42	21.30	21.27			
20	16QAM	1	48	21.13	21.23	21.26	21.23	21.13			22
20	16QAM	1	96	21.10	21.27	21.32	21.32	21.24			
20	16QAM	50	0	20.02	20.23	20.32	20.22	20.11			
20	16QAM	50	24	19.96	20.15	20.20	20.15	20.10			21
20	16QAM	50	0	19.94	20.08	20.22	20.14	20.09			
20	16QAM	100	0	19.78	19.94	20.06	20.06	19.98			
20	64QAM	1	48	20.09	20.21	20.36	20.26	20.18			21
20	64QAM	50	0	19.97	20.07	20.15	20.07	20.06			
20	64QAM	50	0	19.94	20.01	20.13	20.07	20.06			
20	64QAM	50	0	19.08	19.27	19.35	19.27	19.19			
20	64QAM	50	24	19.11	19.21	19.26	19.13	19.07			20
20	64QAM	50	0	19.11	19.26	19.31	19.26	19.19			
20	64QAM	100	0	18.96	19.17	19.23	19.13	19.07			
20	25QPSK	1	0	17.10	17.27	17.34	17.25	17.14			
20	25QPSK	1	48	17.04	17.17	17.23	17.20	17.16			18
20	25QPSK	1	96	16.92	17.13	17.26	17.20	17.01			
20	25QPSK	50	0	17.07	17.14	17.19	17.14	17.07			
20	25QPSK	50	24	16.94	17.18	17.26	17.21	17.17			18
20	25QPSK	50	0	16.87	17.17	17.32	17.24	17.11			
20	25QPSK	100	0	16.70	17.00	17.15	17.10	17.06			
Channel											
Frequency (MHz)				40670	40173	40620	41068	41416	Turn-up time (sec)	MFR (dB)	
15	QPSK	5	0	22.00	22.22	22.23	22.13	22.21	23	0	
15	QPSK	1	37	21.80	22.07	22.19	22.09	21.92			
15	QPSK	1	74	21.97	22.04	22.08	22.05	21.91			
15	QPSK	50	21	21.86	22.14	22.21	21.93	22.04			
15	QPSK	36	20	20.79	21.08	21.12	21.04	20.93			
15	QPSK	36	0	20.79	21.01	21.05	21.01	20.93			22
15	QPSK	75	0	20.90	21.11	21.32	21.22	20.99			
15	16QAM	1	0	21.12	21.31	21.39	21.22	21.11			
15	16QAM	1	37	21.05	21.21	21.26	21.23	21.03			
15	16QAM	1	74	20.96	21.20	21.26	21.14	21.01			
15	16QAM	36	0	19.98	20.15	20.22	20.14	20.02			
15	16QAM	36	0	19.98	20.14	20.20	20.14	20.02			21
15	16QAM	36	0	19.98	20.11	20.22	20.11	20.02			
15	16QAM	75	0	20.11	20.30	20.35	20.21	20.05			
15	64QAM	1	37	20.02	20.11	20.23	20.21	20.08			21
15	64QAM	25	74	19.92	20.05	20.10	20.03	19.94			
15	64QAM	36	0	19.07	19.18	19.28	19.19	19.13			
15	64QAM	36	20	19.98	19.98	19.15	19.08	19.10			20
15	64QAM	36	0	19.98	19.98	19.14	19.07	19.10			
15	64QAM	75	0	19.84	19.08	19.11	19.02	19.06			
15	25QPSK	1	0	16.96	17.12	17.25	17.12	17.07			
15	25QPSK	1	48	16.94	17.18	17.24	17.18	17.05			18
15	25QPSK	1	74	16.78	17.08	17.17	17.10	16.88			
15	25QPSK	50	0	17.07	17.14	17.19	17.14	17.07			
15	25QPSK	50	24	16.90	17.10	17.15	17.10	16.95			18
15	25QPSK	50	0	16.87	17.04	17.21	17.16	16.87			
15	25QPSK	100	0	16.70	17.00	17.15	17.10	17.06			
Channel											
Frequency (MHz)				40670	40168	40620	41068	41663	Turn-up time (sec)	MFR (dB)	
5	QPSK	5	0	22.00	22.12	22.20	22.16	22.26	23	0	
5	QPSK	1	25	21.86	22.07	22.14	22.09	21.95			23
5	QPSK	1	48	21.91	22.14	22.09	21.98	21.94			
5	QPSK	50	21	21.86	22.14	22.21	21.93	22.04			
5	QPSK	25	12	20.90	21.00	21.09	21.09	20.98			
5	QPSK	25	0	20.79	21.01	21.05	21.01	20.93			22
5	QPSK	60	5	20.98	21.18	21.33	21.22	21.04			
5	16QAM	1	0	21.13	21.29	21.28	21.21	21.19			
5	16QAM	1	24	21.05	21.21	21.23	21.23	21.07			22
5	16QAM	1	48	20.95	21.18	21.28	21.10	21.20			
5	16QAM	25	0	19.98	20.09	20.21	20.10	20.03			
5	16QAM	25	12	19.88	20.12	20.20	20.08	20.02			21
5	16QAM	25	0	19.94	20.04	20.20	20.10	20.02			
5	16QAM	60	10	19.96	20.06	20.20	20.10	20.02			
5	64QAM	1	0	20.13	20.32	20.35	20.22	20.11			
5	64QAM	1	25	19.98	20.15	20.25	20.14	20.11			21
5	64QAM	25	0	19.88	20.05	20.20	20.10	20.04			
5	64QAM	25	0	19.87	19.13	19.22	19.12	19.09			
5	64QAM	25	12	19.07	19.11	19.15	18.86	19.03			20
5	64QAM	25	0	19.08	19.17	19.17	19.11	19.06			
5	64QAM	60	0	19.84	19.02	19.15	19.02	19.04			
5	25QPSK	1	0	17.00	17.23	17.24	17.19	17.04			
5	25QPSK	1	25	16.96	17.18	17.21	17.16	17.01			18
5	25QPSK	1	48	16.88	17.03	17.19	17.08	16.88			
5	25QPSK	50	0	17.04	17.11	17.16	17.11	17.03			
5	25QPSK	50	12	16.75	17.14	17.13	17.12	16.94			18
5	25QPSK	25	0	16.80	17.03	17.28	17.15	16.87			
5	25QPSK	60	0	16.85	17.07	17.15	17.10	17.06			
Channel											
Frequency (MHz)				40670	40168	40620	41068	41663	Turn-up time (sec)	MFR (dB)	
5	QPSK	1	24	21.84	22.08	22.16	22.09	21.92			
5	QPSK	1	24	21.80	22.02	22.15	22.05	21.88			
5	QPSK	12	7	20.62	21.00	21.16	21.08	20.98			21
5	QPSK	1	12	21.78	21.98	21.98	21.98	21.99			
5	QPSK	25	0	20.80	21.11	21.29	21.29	21.03			
5	16QAM	1	0	21.17	21.25	21.35	21.23	21.17			
5	16QAM	1	12	21.08	21.19	21.23	21.23	21.14			22
5	16QAM	1	24	20.90	21.15	21.24	21.17	21.07			
5	16QAM	12	0	19.87	20.20	20.28	20.19	20.11			
5	16QAM	12	0	19.88	20.02	20.20	20.10	20.02			21
5	16QAM	12	13	19.94	20.10	20.18	20.10	19.96			
5	64QAM	1	0	20.09	20.16	20.25	20.19	20.09			
5	64QAM	1	12	19.90	20.32	20.32	20.15	19.19			
5	64QAM	1	12	19.88	20.10	20.22	20.14	20.13			21
5	64QAM	1	24	19.80	20.14	20.23	20.14	20.03			
5	64QAM	12	0	19.03	19.18	19.24	19.18	19.08			
5	64QAM	12	7	16.98	19.15	19.18	19.06	18.98			20
5	64QAM	19	14	19.91	19.13	19.14	19.13	19.07			
5	64QAM	25	0	19.83	19.03	19.11	19.01	19.00			
5	25QPSK	1	0	17.00	17.16	17.23	17.14	17.00			
5	25QPSK	1	12	16.98	17.15	17.21	17.16	17.02			
5	25QPSK	1	24	16.87	17.01	17.17	17.08	16.82			
5	25QPSK	50	0	17.02	17.11	17.17	17.16	17.03			
5	25QPSK	12	7	16.82	17.14	17.17	17.10	16.94			18
5	25QPSK	12	13	16.82	17.06	17.23	17.20	17.06			

Band 41 HPUE Other PA Ant2 default										
BSF [MHz]	Modulation	RB Size	RB Offset	Power Low Power Ch/Freq	Power Low Power Ch/Freq	Power Power Ch/Freq	Power Power Ch/Freq	Power Power Ch/Freq	Turn-up time (s)	MFR (dB)
Channel				39750	40185	40620	41055	41500		
Frequency (MHz)										
20	QPSK	1	0	24.09	24.09	24.09	24.36	24.74		
20	QPSK	1	49	24.08	24.88	24.32	24.24	24.10	26	0
20	QPSK	1	99	24.01	24.73	24.28	25.18	24.12		
20	QPSK	50	24	24.01	24.88	24.32	24.10	24.12		
20	QPSK	50	24	24.33	23.25	23.60	25.25	23.10	25	1
20	QPSK	100	0	23.42	24.13	23.58	24.61	23.14		
20	QPSK	100	0	23.47	23.86	23.94	23.78	23.77		
20	QPSK	1	99	23.72	23.87	23.52	23.74	23.73	25	1
20	QPSK	1	99	23.74	23.64	23.83	23.79	23.80		
20	QPSK	50	0	22.74	22.87	22.87	22.72	22.86		
20	QPSK	50	0	22.74	22.80	22.79	22.68	22.88	24	2
20	QPSK	50	50	22.82	22.58	22.70	22.68	22.73		
20	QPSK	100	0	22.76	22.72	22.96	22.78	22.68		
20	QPSK	100	0	23.17	23.19	23.19	23.10	23.18	24	2
20	QPSK	1	49	23.06	23.02	23.14	23.10	23.04		
20	QPSK	1	99	23.05	23.05	23.05	23.05	23.05		
20	QPSK	50	0	21.89	21.99	22.00	22.04	21.97		
20	QPSK	50	24	21.83	21.86	21.88	21.84	21.90	23	3
20	QPSK	50	24	21.81	21.81	21.81	21.81	21.81		
20	QPSK	100	0	21.83	21.76	21.80	21.81	21.89		
20	QPSK	1	0	20.51	20.54	20.61	20.44	20.46		
20	QPSK	1	0	20.49	20.45	20.45	20.32	20.34	21	5
20	QPSK	1	99	20.49	20.48	20.58	20.55	20.54		
20	QPSK	50	0	20.49	20.49	20.49	20.49	20.49		
20	QPSK	50	24	20.27	20.12	20.21	20.24	20.22	21	5
20	QPSK	50	50	20.05	19.96	20.06	19.97	20.03		
20	QPSK	100	0	20.01	20.11	20.10	20.08	20.05		
Channel				39755	40173	40626	41060	41515	Turn-up time (s)	MFR (dB)
Frequency (MHz)										
15	QPSK	1	0	24.12	24.13	24.41	24.17	24.53		
15	QPSK	1	49	24.15	24.78	24.40	24.21	24.04	26	0
15	QPSK	1	99	24.10	24.64	24.36	25.01	24.01		
15	QPSK	50	24	24.12	24.12	24.36	24.19	24.77		
15	QPSK	50	24	23.34	24.17	23.60	24.48	23.10	25	1
15	QPSK	100	0	23.34	23.60	23.60	23.48	23.48		
15	QPSK	75	0	23.37	24.00	23.42	24.63	23.64		
15	QPSK	1	0	23.74	23.74	23.80	23.69	23.62	25	1
15	QPSK	1	49	23.76	23.66	23.83	23.71	23.89		
15	QPSK	1	99	23.72	23.62	23.63	23.65	23.74		
15	QPSK	50	0	22.70	22.75	22.71	22.60	22.86		
15	QPSK	50	0	22.70	22.65	22.65	22.38	22.86	24	2
15	QPSK	50	99	22.48	22.42	22.70	22.67	22.85		
15	QPSK	75	0	22.42	23.17	23.18	23.20	23.05		
15	QPSK	1	0	22.56	22.51	22.68	22.54	22.86	24	2
15	QPSK	1	49	22.58	22.48	22.65	22.59	22.89		
15	QPSK	1	99	22.54	22.44	22.61	22.57	22.87		
15	QPSK	50	0	21.79	21.80	21.80	21.96	21.84		
15	QPSK	50	24	21.80	21.77	21.80	21.68	21.81	23	3
15	QPSK	50	24	21.78	21.78	21.78	21.70	21.83		
15	QPSK	100	0	21.78	21.71	21.75	21.76	21.81		
15	QPSK	1	0	20.41	20.37	20.38	20.30	20.41		
15	QPSK	1	0	20.39	20.30	20.34	20.22	20.34	21	5
15	QPSK	1	99	20.41	20.39	20.46	20.40	20.41		
15	QPSK	50	0	20.41	20.41	20.41	20.41	20.41		
15	QPSK	50	24	20.19	20.11	20.20	20.18	20.19	21	5
15	QPSK	50	50	19.87	19.85	19.86	19.86	19.81		
15	QPSK	100	0	19.85	19.95	19.95	19.81	19.87		
Channel				39755	40189	40626	41060	41560	Turn-up time (s)	MFR (dB)
Frequency (MHz)										
10	QPSK	1	0	24.09	24.09	24.09	24.36	24.63		
10	QPSK	1	25	24.05	24.78	24.14	25.20	24.12	26	0
10	QPSK	1	49	24.12	24.89	24.22	25.09	24.01		
10	QPSK	1	99	24.04	24.86	24.36	25.18	24.07		
10	QPSK	50	24	24.04	24.86	24.36	24.07	24.07		
10	QPSK	50	24	23.31	24.17	23.58	24.64	23.10	25	1
10	QPSK	100	0	23.31	24.00	23.42	24.64	23.10		
10	QPSK	50	0	23.20	24.04	23.60	24.67	23.55		
10	QPSK	1	0	23.63	23.63	23.63	23.69	23.63	25	1
10	QPSK	1	49	23.63	23.53	23.63	23.59	23.63		
10	QPSK	1	99	23.63	23.53	23.63	23.59	23.63		
10	QPSK	50	0	22.74	22.74	22.74	22.60	22.76		
10	QPSK	50	0	22.74	22.69	22.69	22.40	22.80	24	2
10	QPSK	50	24	22.49	22.54	22.73	23.52	22.69		
10	QPSK	100	0	22.74	22.70	22.70	22.60	22.81		
10	QPSK	1	0	23.03	23.05	23.04	23.00	22.99		
10	QPSK	1	25	22.88	22.96	23.01	23.01	23.01	24	2
10	QPSK	1	49	22.88	22.88	22.88	22.88	22.88		
10	QPSK	1	99	22.75	22.82	22.82	22.72	22.86		
10	QPSK	50	0	21.75	21.82	21.87	21.92	21.95		
10	QPSK	50	24	21.84	21.89	21.87	21.73	21.84	23	3
10	QPSK	50	24	21.82	21.82	21.82	21.68	21.84		
10	QPSK	100	0	21.75	21.73	21.77	21.70	21.78		
10	QPSK	1	0	20.42	20.50	20.52	20.39	20.32		
10	QPSK	1	0	20.40	20.32	20.36	20.27	20.18	21	5
10	QPSK	1	99	20.44	20.28	20.40	20.52	20.36		
10	QPSK	50	0	20.44	20.44	20.44	20.44	20.44		
10	QPSK	50	24	20.19	19.94	20.05	20.19	20.17	21	5
10	QPSK	50	50	19.83	19.85	19.84	19.86	19.84		
10	QPSK	100	0	19.85	19.95	19.95	19.81	19.85		
Channel				39675	40188	40626	41069	41565	Turn-up time (s)	MFR (dB)
Frequency (MHz)										
5	QPSK	1	0	24.05	24.05	24.05	24.32	24.59		
5	QPSK	1	12	24.02	24.86	24.27	25.10	24.01	26	0
5	QPSK	1	24	24.04	24.82	24.23	25.03	24.05		
5	QPSK	1	24	23.37	24.13	23.53	24.60	23.05	25	1
5	QPSK	12	7	23.26	24.12	23.56	24.69	23.05		
5	QPSK	25	0	23.24	24.00	23.42	24.64	23.05	25	1
5	QPSK	25	0	23.28	24.08	23.48	24.58	23.62		
5	QPSK	1	0	23.65	23.75	23.82	23.72	23.80	25	1
5	QPSK	1	12	23.67	23.57	23.67	23.63	23.72		
5	QPSK	1	24	23.68	23.63	23.63	23.67	23.63		
5	QPSK	12	0	22.74	22.70	22.74	22.58	22.71	24	2
5	QPSK	12	0	22.74	22.69	22.69	22.41	22.66		
5	QPSK	12	13	22.75	22.53	22.73	23.58	22.53		
5	QPSK	25	0	22.74	22.69	22.69	22.41	22.66		
5	QPSK	1	0	23.02	23.16	23.25	23.00	23.16		
5	QPSK	1	12	23.02	22.99	23.00	22.95	23.03	24	2
5	QPSK	1	24	23.03	23.03	23.04	23.01	23.04		
5	QPSK	12	0	21.77	21.78	22.06	21.92	21.80		
5	QPSK	12	7	21.87	21.80	21.86	21.79	21.83	23	3
5	QPSK	12	21	21.89	21.88	21.92	21.73	21.87		
5	QPSK	25	0	21.89	21.68	21.92	21.75	21.73		
5	QPSK	1	0	20.30	20.49	20.48	20.39	20.28		
5	QPSK	1	0	20.28	20.23	20.24	20.16	20.18	21	5
5	QPSK	1	24	20.30	20.28	20.40	20.43	20.31		
5	QPSK	12	0	20.30	20.30	20.30	20.30	20.30		
5	QPSK	25	12	19.23	19.10	19.20	19.07	19.05	21	5
5	QPSK	12	13	19.08	19.08	20.13	19.96	19.97		
5	QPSK	20	19	19.09	19.09	20.04	20.05	20.05		



Band 2 Other PA Ant3 DSI3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freqs	Power Mod RB / Freqs	Power Mod HP / Freqs	Turnup time (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	19.48	19.50	19.34	20.6	0						
20	QPSK	1	49	19.27	19.33	19.33								
20	QPSK	1	99	19.48	19.48	19.28	20.6	0						
20	QPSK	50	0	19.30	19.53	19.12								
20	QPSK	50	24	19.28	19.37	19.35	20.6	0						
20	QPSK	50	50	19.29	19.42	19.43								
20	QPSK	100	0	19.48	19.50	19.23	20.6	0						
20	QPSK	100	0	19.49	19.51	19.24								
20	16QAM	1	49	19.48	19.50	19.18	20.6	0						
20	16QAM	1	99	19.34	19.36	19.36								
20	16QAM	50	0	19.28	19.40	19.16	20.6	0						
20	16QAM	50	24	19.28	19.35	19.28								
20	16QAM	50	50	19.38	19.51	19.27	20.6	0						
20	16QAM	100	0	19.48	19.47	19.21								
20	64QAM	1	0	19.18	19.37	19.27	20.6	0						
20	64QAM	1	49	19.26	19.32	19.16								
20	64QAM	1	99	19.27	19.39	19.10	20.6	0						
20	64QAM	50	24	19.39	19.34	19.14								
20	64QAM	50	50	19.38	19.51	19.27	19.1	1.5						
20	64QAM	100	0	19.39	19.47	19.28								
20	256QAM	1	49	17.84	17.88	17.82	19.1	1.5						
20	256QAM	1	99	17.70	17.89	17.79								
20	256QAM	50	24	17.75	17.77	17.72	19.1	1.5						
20	256QAM	50	50	17.66	17.76	17.73								
20	256QAM	100	0	17.87	17.73	17.86	19.1	1.5						
20	256QAM	100	50	17.87	17.73	17.86								
Channel														
Frequency (MHz)														
15	QPSK	1	0	19.55	19.60	19.55	20.6	0						
15	QPSK	1	49	19.27	19.33	19.33								
15	QPSK	1	74	19.27	19.39	19.18	20.6	0						
15	QPSK	36	0	19.19	19.50	19.13								
15	QPSK	36	39	19.30	19.31	19.18	20.6	0						
15	QPSK	36	39	19.18	19.30	19.13								
15	QPSK	75	0	19.38	19.37	19.13	20.6	0						
15	16QAM	1	31	19.31	19.36	19.22								
15	16QAM	1	37	19.40	19.39	19.12	20.6	0						
15	16QAM	1	74	19.34	19.35	19.26								
15	16QAM	36	0	19.26	19.39	19.16	20.6	0						
15	16QAM	36	20	19.10	19.43	19.13								
15	16QAM	75	0	19.29	19.37	19.24	20.6	0						
15	16QAM	75	0	19.29	19.28	19.28								
15	64QAM	1	0	19.20	19.50	19.17	20.6	0						
15	64QAM	1	49	19.24	19.45	19.19								
15	64QAM	1	74	19.26	19.37	19.19	20.6	0						
15	64QAM	36	0	19.29	19.25	19.17								
15	64QAM	36	39	19.32	19.33	19.16	20.6	0						
15	64QAM	36	39	19.32	19.25	19.10								
15	64QAM	75	0	19.24	19.41	19.18	20.6	0						
15	256QAM	1	37	17.76	17.70	17.84								
15	256QAM	1	74	17.89	17.76	17.89	19.1	1.5						
15	256QAM	36	20	17.75	17.74	17.72								
15	256QAM	36	39	17.88	17.86	17.72	19.1	1.5						
15	256QAM	75	0	17.85	17.83	17.76								
15	256QAM	75	0	17.85	17.83	17.76	19.1	1.5						
15	256QAM	75	0	17.85	17.83	17.76								
Channel														
Frequency (MHz)														
10	QPSK	1	0	19.55	19.60	19.55	20.6	0						
10	QPSK	1	25	19.14	19.47	19.17								
10	QPSK	1	49	19.45	19.25	19.14	20.6	0						
10	QPSK	25	12	19.24	19.24	19.31								
10	QPSK	25	25	19.16	19.39	19.22	20.6	0						
10	QPSK	25	25	19.16	19.39	19.22								
10	16QAM	1	0	19.48	19.47	19.14	20.6	0						
10	16QAM	1	25	19.43	19.43	19.12								
10	16QAM	25	12	19.18	19.52	19.35	20.6	0						
10	16QAM	25	12	19.43	19.27	19.12								
10	16QAM	50	0	19.20	19.37	19.15	20.6	0						
10	16QAM	50	0	19.20	19.27	19.27								
10	16QAM	50	25	19.45	19.23	19.25	20.6	0						
10	16QAM	50	0	19.32	19.30	19.25								
10	256QAM	1	25	17.86	17.73	17.87	19.1	1.5						
10	256QAM	1	25	17.86	17.73	17.87								
10	256QAM	25	12	17.85	17.86	17.82	19.1	1.5						
10	256QAM	25	25	18.02	17.97	17.97								
10	256QAM	50	0	18.01	17.87	17.86	19.1	1.5						
10	256QAM	50	0	18.01	17.87	17.86								
Channel														
Frequency (MHz)														
5	QPSK	1	0	19.14	19.47	19.18	20.6	0						
5	QPSK	1	12	19.34	19.41	19.26								
5	QPSK	1	24	19.34	19.41	19.26	20.6	0						
5	QPSK	12	7	19.11	19.41	19.27								
5	QPSK	12	7	19.11	19.34	19.22	20.6	0						
5	QPSK	12	13	19.26	19.31	19.32								
5	QPSK	12	13	19.42	19.35	19.18	20.6	0						
5	16QAM	1	0	19.28	19.31	19.17								
5	16QAM	1	12	19.35	19.32	19.18	20.6	0						
5	16QAM	1	25	19.28	19.25	19.16								
5	16QAM	12	0	19.11	19.18	19.15	20.6	0						
5	16QAM	12	7	19.23	19.30	19.21								
5	16QAM	25	0	19.41	19.34	19.21	20.6	0						
5	64QAM	1	0	19.12	19.42	19.16								
5	64QAM	1	24	19.28	19.27	19.19	20.6	0						
5	64QAM	12	7	19.31	19.17	19.13								
5	64QAM	12	13	19.42	19.33	19.25	20.6	0						
5	64QAM	25	0	19.40	19.27	19.26								
5	64QAM	25	0	17.88	17.79	17.79	19.1	1.5						
5	256QAM	1	12	17.87	17.87	17.77								
5	256QAM	1	24	17.86	17.85	17.80	19.1	1.5						
5	256QAM	12	7	18.04	17.94	17.86								
5	256QAM	12	13	18.04	17.94	17.86	19.1	1.5						
5	256QAM	25	0	18.02	17.97	17.90								
5	256QAM	25	0	18.02	17.97	17.90	19.1	1.5						
5	256QAM	25	0	18.02	17.97	17.90								
Channel														
Frequency (MHz)														
3	QPSK	1	0	19.28	19.52	19.18	20.6	0						
3	QPSK	1	8	19.15	19.47	19.19								
3	QPSK	1	16	19.15	19.47	19.19	20.6	0						
3	QPSK	8	4	19.31	19.40	19.31								
3	QPSK	8	4	19.19	19.35	19.19	20.6	0						
3	QPSK	8	16	19.31	19.35	19.35								
3	QPSK	16	0	19.23	19.43	19.28	20.6	0						
3	QPSK	16	0	19.48	19.38	19.22								
3	16QAM	1	8	19.18	19.37	19.19	20.6	0						
3	16QAM	1	14	19.15	19.22	19.28								
3	16QAM	8	0	19.12	19.53	19.26	20.6	0						
3	16QAM	8	8	19.18	19.27	19.27								
3	16QAM	8	7	19.23	19.50	19.30	20.6	0						
3	16QAM	16	0	19.32	19.33	19.30								
3	16QAM	16	0	19.24	19.40	19.18	20.6	0						
3	16QAM	8	8	19.34	19.42	19.22								
3	64QAM	1	14	19.22	19.36	19.22	20.6	0						
3	64QAM	8	4	19.17	19.29	19.19								
3	64QAM	8	8	19.31	19.31	19.31	20.6	0						
3	64QAM	16	0	19.41	19.31	19.29								
3	256QAM	1	0	17.79	17.73	17.69	19.1	1.5						
3	256QAM	1	14	17.88	17.84	17.82								
3	256QAM	8	0	18.08	17.79	17.87	19.1	1.5						
3	256QAM	8	8	18.07	17.86	17.86								
3	256QAM	16	0	18.04	18.04	18.00	19.1	1.5						
3	256QAM	16	0	18.02	17.88	17.87								
3	256QAM	16	0	18.05	17.88	17.87	19.1	1.5						
3	256QAM	16	0	18.05	17.88	17.87								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	19.33	19.35	19.38	20.6	0						
1.4	QPSK	1	8	19.35	19.35	19.35								
1.4	QPSK	1	8	19.42	19.35	19.17	20.6	0						
1.4	QPSK	3	0	19.12	19.40	19.20								
1.4	QPSK	3	3	19.31	19.37	19.37	20.6	0						
1.4	QPSK	6	0	19.32	19.37	19.36								
1.4	16QAM	1	3	19.42	19.48	19.10	20.6	0						
1.4	16QAM	1	6	19.22	19.20	19.16								
1.4	16QAM	3	0	19.29	19.32	19.30	20.6	0						
1.4	16QAM	3	3	19.13	19.41	19.21								
1.4	16QAM	3	6	19.23	19.48	19.14	20.6	0						
1.4	16QAM	6	0	19.20	19.32	19.30								
1.4	16QAM	6	3	19.30	19.31	19.19	20.6	0						
1.4	16QAM	6	6	19.33	19.32	19.21								
1.4	16QAM	6	9	19.30	19.33	19.30	20.6	0						
1.4	16QAM	6	12	19.33	19.33	19.33								
1.4	16QAM	12	0	17.89	17.71	17.88	19.1	1.5						
1.4	16QAM	12	3	17.99	17.81	17.88								
1.4	256QAM	3	6	17.89	17.86	17.70	19.1	1.5						
1.4	256QAM	3	9	18.00	18.00	17.96								
1.4	256QAM	6	3	18.07	18.08	17.87	19.1	1.5						
1.4	256QAM	6	6	18.05	18.05	17.87								



Band 38 Other PA Ant3 DSI3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel				37850	38050	38150					
Frequency (MHz)				217.4	217.5	217.6					
20	QPSK	1	0	21.74	21.77	21.67	23.2	0			
20	QPSK	1	48	21.75	21.72	21.66					
20	QPSK	1	88	21.56	21.63	21.66	23.2	0			
20	QPSK	50	0	21.61	21.74	21.65					
20	QPSK	50	24	21.73	21.58	21.69	23.2	0			
20	QPSK	50	48	21.70	21.58	21.47					
20	QPSK	100	0	21.66	21.70	21.60	23.2	0			
20	HQAM	1	0	21.68	21.70	21.52					
20	HQAM	1	48	21.70	21.58	21.47	23.2	0			
20	HQAM	1	96	21.57	21.68	21.60					
20	HQAM	50	0	20.63	20.64	20.64	22.2	1			
20	HQAM	50	24	20.61	20.59	20.49					
20	HQAM	50	50	20.49	20.70	20.49	22.2	1			
20	HQAM	100	0	20.46	20.71	20.49					
20	HQAM	100	0	20.56	20.58	20.55	22.2	1			
20	HQAM	1	48	20.63	20.74	20.49					
20	HQAM	1	96	20.52	20.51	20.38	21.2	2			
20	HQAM	50	0	19.53	19.58	19.55					
20	HQAM	50	24	19.34	19.57	19.59	21.2	2			
20	HQAM	50	50	19.48	19.57	19.67					
20	HQAM	100	0	19.44	19.62	19.54	19.2	4			
20	HQAM	1	0	17.89	17.84	17.78					
20	HQAM	1	48	17.56	17.78	17.73	19.2	4			
20	HQAM	1	96	17.53	17.65	17.64					
20	HQAM	50	0	17.83	17.78	17.69	19.2	4			
20	HQAM	50	24	17.52	17.61	17.45					
20	HQAM	50	48	17.47	17.77	17.68	19.2	4			
20	HQAM	100	0	17.46	17.77	17.68					
Channel				37850	38050	38150					
Frequency (MHz)				217.4	217.5	217.6					
15	QPSK	1	0	21.55	21.65	21.60	23.2	0			
15	QPSK	1	37	21.85	21.57	21.60					
15	QPSK	1	74	21.56	21.54	21.40	23.2	0			
15	QPSK	36	0	21.42	21.59	21.49					
15	QPSK	36	20	21.41	21.39	21.59	23.2	0			
15	QPSK	36	36	21.48	21.69	21.42					
15	QPSK	75	0	21.46	21.69	21.42	23.2	0			
15	HQAM	1	0	21.63	21.60	21.35					
15	HQAM	1	37	21.63	21.63	21.35	23.2	0			
15	HQAM	1	74	21.40	21.61	21.35					
15	HQAM	36	0	20.55	20.55	20.49	22.2	1			
15	HQAM	36	20	20.32	20.59	20.55					
15	HQAM	36	36	20.29	20.58	20.28	22.2	1			
15	HQAM	75	0	20.29	20.65	20.41					
15	HQAM	75	0	20.34	20.67	20.41	22.2	1			
15	HQAM	1	37	20.61	20.59	20.44					
15	HQAM	1	74	20.48	20.36	20.31	21.2	2			
15	HQAM	36	0	19.54	19.57	19.43					
15	HQAM	36	20	19.21	19.58	19.43	19.2	4			
15	HQAM	75	0	19.30	19.41	19.40					
15	HQAM	75	0	19.21	19.58	19.43	19.2	4			
15	HQAM	1	0	17.56	17.77	17.79					
15	HQAM	1	37	17.52	17.58	17.55					
15	HQAM	1	74	17.54	17.57	17.55					
15	HQAM	36	0	17.41	17.75	17.49	19.2	4			
15	HQAM	36	20	17.52	17.58	17.55					
15	HQAM	36	36	17.38	17.79	17.65	19.2	4			
15	HQAM	75	0	17.56	17.62	17.52					
Channel				37850	38050	38150					
Frequency (MHz)				217.4	217.5	217.6					
10	QPSK	1	0	21.63	21.64	21.60	23.2	0			
10	QPSK	1	25	21.65	21.70	21.65					
10	QPSK	1	48	21.54	21.49	21.46	23.2	0			
10	QPSK	25	0	21.62	21.75	21.53					
10	QPSK	25	12	21.61	21.43	21.44	23.2	0			
10	QPSK	25	25	21.40	21.43	21.51					
10	HQAM	1	0	21.65	21.70	21.64	23.2	0			
10	HQAM	1	0	21.85	21.78	21.44					
10	HQAM	1	25	21.61	21.81	21.27	23.2	0			
10	HQAM	1	48	21.41	21.60	21.56					
10	HQAM	25	0	20.59	20.62	20.43	22.2	1			
10	HQAM	25	0	20.42	20.56	20.54					
10	HQAM	25	0	20.36	20.65	20.51	22.2	1			
10	HQAM	50	0	20.38	20.62	20.30					
10	HQAM	50	0	20.36	20.65	20.36	22.2	1			
10	HQAM	1	25	20.63	20.68	20.31					
10	HQAM	1	48	20.48	20.52	20.34	22.2	1			
10	HQAM	25	0	19.45	19.61	19.45					
10	HQAM	25	12	19.31	19.53	19.38	21.2	2			
10	HQAM	25	25	19.29	19.45	19.57					
10	HQAM	50	0	19.31	19.61	19.40	19.2	4			
10	HQAM	50	0	17.66	17.66	17.66					
10	HQAM	1	48	17.56	17.68	17.59	19.2	4			
10	HQAM	1	48	17.34	17.44	17.61					
10	HQAM	25	0	17.47	17.75	17.38	19.2	4			
10	HQAM	25	12	17.44	17.44	17.46					
10	HQAM	25	25	17.35	17.75	17.62	19.2	4			
10	HQAM	50	0	17.47	17.66	17.37					
Channel				37850	38050	38150					
Frequency (MHz)				217.4	217.5	217.6					
5	QPSK	1	0	21.58	21.68	21.45	23.2	0			
5	QPSK	1	12	21.55	21.70	21.45					
5	QPSK	1	24	21.46	21.48	21.44	23.2	0			
5	QPSK	12	0	21.52	21.60	21.61					
5	QPSK	12	7	21.61	21.56	21.55	23.2	0			
5	QPSK	12	13	21.56	21.42	21.44					
5	QPSK	25	0	21.51	21.59	21.59	23.2	0			
5	HQAM	1	0	21.49	21.55	21.30					
5	HQAM	1	12	21.53	21.47	21.35	23.2	0			
5	HQAM	1	24	21.46	21.50	21.58					
5	HQAM	12	0	20.61	20.44	20.64	22.2	1			
5	HQAM	12	7	20.49	20.45	20.45					
5	HQAM	12	13	20.43	20.58	20.35	22.2	1			
5	HQAM	25	0	20.40	20.60	20.57					
5	HQAM	1	0	19.46	19.58	19.37	22.2	1			
5	HQAM	12	7	19.25	19.38	19.50					
5	HQAM	12	13	19.30	19.44	19.50	21.2	2			
5	HQAM	25	0	19.26	19.41	19.51	19.2	4			
5	HQAM	25	12	17.43	17.63	17.60					
5	HQAM	25	12	17.42	17.64	17.72	19.2	4			
5	HQAM	1	24	17.49	17.58	17.71					
5	HQAM	12	13	17.47	17.68	17.43	19.2	4			
5	HQAM	12	7	17.42	17.43	17.46					
5	HQAM	12	13	17.42	17.67	17.60	19.2	4			
5	HQAM	25	0	17.59	17.69	17.41					



Reduced Power Mode for Other PA DS15 Simultaneous

Band 2 Other PA Ant0 DS15 Simultaneous

BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch / Freq	Power Hsp / Freq	Power Hsp / Freq	Turn-up Time (sec)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.55	20.75	20.59		
20	QPSK	1	0	20.55	20.75	20.59		
20	QPSK	1	99	20.32	20.59	20.67		
20	QPSK	50	0	20.35	20.68	20.52		
20	QPSK	50	99	20.44	20.68	20.52		
20	QPSK	50	50	20.41	20.60	20.44		
20	QPSK	100	0	20.41	20.68	20.36		
20	QPSK	100	0	20.54	20.68	20.54		
20	16QAM	1	49	20.38	20.38	20.59		
20	16QAM	1	99	20.27	20.41	20.71		
20	16QAM	50	0	20.52	20.52	20.56		
20	16QAM	50	24	20.38	20.51	20.50		
20	16QAM	50	50	20.43	20.49	20.59		
20	16QAM	100	0	20.52	20.52	20.52		
20	16QAM	1	0	20.61	20.67	20.36		
20	16QAM	1	49	20.49	20.64	20.51		
20	16QAM	50	0	20.52	20.65	20.52		
20	16QAM	50	24	20.32	20.44	20.58		
20	16QAM	50	50	20.32	20.44	20.58		
20	16QAM	100	0	20.47	20.51	20.48		
20	256QAM	1	0	19.42	19.47	19.45		
20	256QAM	1	99	19.42	19.59	19.36		
20	256QAM	1	99	19.39	19.54	19.53		
20	256QAM	50	0	19.47	19.60	19.52		
20	256QAM	50	99	19.49	19.49	19.54		
20	256QAM	50	50	19.27	19.33	19.33		
20	256QAM	100	0	19.31	19.40	19.49		

Channel								
Frequency (MHz)								
15	QPSK	1	0	20.33	20.59	20.53		
15	QPSK	1	24	20.23	20.53	20.43		
15	QPSK	1	74	20.33	20.52	20.48		
15	QPSK	36	0	20.32	20.49	20.38		
15	QPSK	36	24	20.45	20.53	20.32		
15	QPSK	36	39	20.25	20.40	20.42		
15	QPSK	75	0	20.42	20.63	20.25		
15	16QAM	1	37	20.25	20.39	20.30		
15	16QAM	1	74	20.19	20.20	20.57		
15	16QAM	36	0	20.49	20.65	20.38		
15	16QAM	36	20	20.39	20.50	20.42		
15	16QAM	36	39	20.38	20.34	20.28		
15	16QAM	48	0	20.48	20.44	20.37		
15	16QAM	1	0	20.40	20.50	20.22		
15	16QAM	1	37	20.46	20.42	20.50		
15	16QAM	1	74	20.25	20.39	20.29		
15	16QAM	36	0	20.39	20.54	20.52		
15	16QAM	36	20	20.51	20.27	20.52		
15	16QAM	36	39	20.21	20.63	20.48		
15	16QAM	75	0	20.46	20.40	20.40		
15	16QAM	1	0	19.32	19.41	19.30		
15	256QAM	1	99	19.32	19.44	19.19		
15	256QAM	1	74	19.35	19.56	19.35		
15	256QAM	36	0	19.56	19.59	19.50		
15	256QAM	36	39	19.16	19.44	19.36		
15	256QAM	75	0	19.36	19.66	19.16		

Channel								
Frequency (MHz)								
15	QPSK	1	0	20.50	20.74	20.45		
15	QPSK	1	24	20.25	20.43	20.47		
15	QPSK	1	49	20.29	20.47	20.37		
15	QPSK	25	0	20.28	20.48	20.49		
15	QPSK	25	24	20.33	20.57	20.31		
15	QPSK	25	25	20.20	20.47	20.37		
15	QPSK	50	0	20.37	20.47	20.15		
15	16QAM	1	26	20.32	20.36	20.47		
15	16QAM	1	26	20.52	20.26	20.56		
15	16QAM	1	49	20.68	20.25	20.73		
15	16QAM	25	0	20.39	20.33	20.36		
15	16QAM	25	12	20.22	20.54	20.50		
15	16QAM	25	25	20.25	20.44	20.59		
15	16QAM	25	26	20.39	20.50	20.58		
15	16QAM	1	0	20.58	20.53	20.29		
15	16QAM	1	49	20.29	20.59	20.22		
15	16QAM	25	0	20.48	20.43	20.34		
15	16QAM	25	12	20.33	20.53	20.53		
15	16QAM	25	25	20.43	20.60	20.50		
15	16QAM	50	0	20.30	20.34	20.43		
15	256QAM	1	25	19.47	19.57	19.35		
15	256QAM	1	49	19.38	19.63	19.38		
15	256QAM	25	0	19.48	19.57	19.56		
15	256QAM	25	12	19.49	19.57	19.56		
15	256QAM	25	25	19.23	19.31	19.40		
15	256QAM	50	0	19.36	19.36	19.40		

Channel								
Frequency (MHz)								
15	QPSK	1	0	20.57	20.82	20.60		
15	QPSK	1	24	20.49	20.49	20.51		
15	QPSK	1	24	20.18	20.58	20.55		
15	QPSK	12	0	20.19	20.48	20.46		
15	QPSK	12	0	20.23	20.48	20.38		
15	QPSK	12	13	20.30	20.58	20.25		
15	QPSK	25	0	20.49	20.49	20.49		
15	16QAM	1	1	20.50	20.49	20.41		
15	16QAM	1	12	20.63	20.30	20.56		
15	16QAM	12	0	20.38	20.37	20.55		
15	16QAM	12	0	20.38	20.37	20.55		
15	16QAM	12	7	20.26	20.47	20.46		
15	16QAM	12	13	20.41	20.52	20.47		
15	16QAM	25	0	20.37	20.40	20.53		
15	16QAM	1	0	20.47	20.47	20.32		
15	16QAM	1	49	20.48	20.51	20.46		
15	16QAM	1	24	20.22	20.57	20.34		
15	16QAM	12	0	20.42	20.44	20.53		
15	16QAM	12	0	20.63	20.44	20.53		
15	16QAM	12	13	20.58	20.64	20.32		
15	16QAM	25	0	20.25	20.42	20.33		
15	256QAM	1	12	19.47	19.49	19.39		
15	256QAM	1	24	19.48	19.45	19.48		
15	256QAM	12	0	19.38	19.75	19.35		
15	256QAM	12	7	19.50	19.71	19.57		
15	256QAM	12	13	19.34	19.32	19.43		
15	256QAM	25	0	19.47	19.47	19.46		

Channel								
Frequency (MHz)								
3	QPSK	1	8	20.15	20.38	20.53		
3	QPSK	1	14	20.21	20.40	20.52		
3	QPSK	8	0	20.39	20.39	20.47		
3	QPSK	8	0	20.44	20.53	20.40		
3	QPSK	8	7	20.24	20.39	20.41		
3	QPSK	15	0	20.19	20.47	20.34		
3	16QAM	1	0	20.44	20.43	20.37		
3	16QAM	1	8	20.33	20.36	20.64		
3	16QAM	14	0	20.39	20.33	20.50		
3	16QAM	1	0	20.54	20.54	20.55		
3	16QAM	8	4	20.36	20.50	20.41		
3	16QAM	15	0	20.35	20.33	20.50		
3	16QAM	15	0	20.48	20.47	20.44		
3	16QAM	1	0	20.54	20.67	20.25		
3	16QAM	14	0	20.40	20.51	20.38		
3	16QAM	1	14	20.37	20.68	20.37		
3	16QAM	8	9	20.45	20.57	20.44		
3	16QAM	1	0	20.13	20.37	20.53		
3	16QAM	8	7	20.23	20.58	20.53		
3	16QAM	15	0	20.48	20.36	20.30		
3	256QAM	1	8	19.42	19.38	19.39		
3	256QAM	1	14	19.38	19.40	19.36		
3	256QAM	8	0	19.48	19.39	19.36		
3	256QAM	8	4	19.42	19.60	19.55		
3	256QAM	8	7	19.36	19.34	19.53		
3	256QAM	15	0	19.36	19.36	19.36		

Channel								
Frequency (MHz)								
1.4	QPSK	1	0	20.51	20.48	20.57		
1.4	QPSK	1	5	20.16	20.48	20.58		
1.4	QPSK	1	14	20.21	20.58	20.57		
1.4	QPSK	3	1	20.39	20.52	20.36		
1.4	QPSK	3	3	20.27	20.51	20.36		
1.4	16QAM	1	0	20.36	20.68	20.57		
1.4	16QAM	1	0	20.32	20.48	20.36		
1.4	16QAM	1	3	20.38	20.32	20.57		
1.4	16QAM	3	1	20.27	20.27	20.53		
1.4	16QAM	3	1	20.33	20.44	20.29		
1.4	16QAM	6	0	20.36	20.49	20.50		
1.4	16QAM	6	0	20.47	20.60	20.37		
1.4	16QAM	1	0	20.52	20.54	20.29		
1.4	16QAM	1	0	20.31	20.42	20.48		
1.4	16QAM	1	5	20.18	20.50	20.25		
1.4	16QAM	3	9	20.54	20.42	20.45		
1.4	16QAM	3	9	20.33	20.32	20.49		
1.4	256QAM	1	0	20.36	20.48	20.33		
1.4	256QAM	1	3	19.45	19.42	19.18		
1.4	256QAM	3	1	19.48	19.51	19.34		
1.4	256QAM	3	1	19.38	19.58	19.48		
1.4	256QAM	3	1	19.48	19.48	19.41		
1.4	256QAM	3	1	19.34	19.34	19.37		</



Band 38 Other PA Ant0 DS15 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPR (dB)		
Channel				37850	38050	38150				
Frequency (MHz)				37850	38050	38150				
20	QPSK	1	0	19.32	19.32	19.40	20.7	0		
20	QPSK	1	48	19.15	19.34	19.26				
20	QPSK	1	88	19.35	19.30	19.25	20.7	0		
20	QPSK	50	0	19.43	19.07	19.46				
20	QPSK	50	24	19.21	19.31	19.35	20.7	0		
20	QPSK	50	48	19.15	19.48	19.35				
20	HQAM	100	0	19.36	19.46	19.43	20.7	0		
20	HQAM	1	0	19.21	19.35	19.25				
20	HQAM	1	48	19.33	19.48	19.35	20.7	0		
20	HQAM	1	99	19.14	19.29	19.25				
20	HQAM	50	24	19.21	19.44	19.42	20.7	0		
20	HQAM	50	48	19.16	19.30	19.27				
20	HQAM	50	50	19.14	19.32	19.17	20.7	0		
20	HQAM	100	0	19.21	19.32	19.25				
20	BAGAM	1	0	19.12	19.45	19.35	20.7	0		
20	BAGAM	1	48	19.22	19.35	19.33				
20	BAGAM	1	99	19.32	19.33	19.34	20.7	0		
20	BAGAM	50	0	19.19	19.38	19.31				
20	BAGAM	50	24	19.19	19.15	19.11	20.7	0		
20	BAGAM	50	50	19.17	19.22	19.05				
20	BAGAM	100	0	19.21	19.19	19.05	20.7	0		
20	BAGAM	1	0	19.29	19.26	19.19				
20	BAGAM	1	48	19.35	19.29	19.05	19.7	1		
20	BAGAM	1	99	19.23	19.31	19.25				
20	BAGAM	50	0	19.34	19.41	19.05	19.7	1		
20	BAGAM	50	24	19.23	19.36	19.25				
20	BAGAM	50	48	19.30	19.27	19.22	19.7	1		
20	BAGAM	50	50	19.15	19.19	19.25				
20	BAGAM	100	0	19.14	19.39	19.19	19.7	1		
20	BAGAM	100	0	19.14	19.39	19.19				
Channel				37850	38050	38150	Turn-up Int. (dB)	MPR (dB)		
Frequency (MHz)				37850	38050	38150				
15	QPSK	1	0	19.32	19.32	19.40	20.7	0		
15	QPSK	1	37	19.86	19.21	19.16				
15	QPSK	1	74	19.22	19.31	19.16	20.7	0		
15	QPSK	36	0	19.34	19.41	19.05				
15	QPSK	36	20	19.12	19.30	19.25	20.7	0		
15	QPSK	36	36	19.35	19.29	19.25				
15	QPSK	75	0	19.16	19.25	19.19	20.7	0		
15	HQAM	1	0	19.09	19.22	19.17				
15	HQAM	1	37	19.86	19.29	19.16	20.7	0		
15	HQAM	1	74	19.11	19.23	19.15				
15	HQAM	36	0	19.13	19.36	19.25	20.7	0		
15	HQAM	36	20	19.32	19.29	19.25				
15	HQAM	36	36	19.33	19.30	19.04	20.7	0		
15	HQAM	75	0	19.08	19.13	19.02				
15	HQAM	75	0	19.09	19.09	19.05	20.7	0		
15	BAGAM	1	37	19.16	19.16	19.22				
15	BAGAM	1	74	19.24	19.02	19.25	20.7	0		
15	BAGAM	36	0	19.03	19.36	19.19				
15	BAGAM	36	20	19.30	19.27	19.19	20.7	0		
15	BAGAM	36	36	19.30	19.19	19.05				
15	BAGAM	75	0	19.00	19.00	19.05	19.7	1		
15	BAGAM	75	0	19.02	19.02	19.17				
15	BAGAM	1	0	19.22	19.32	19.17	19.7	1		
15	BAGAM	1	37	19.15	19.41	19.15				
15	BAGAM	1	74	19.10	19.39	19.17	19.7	1		
15	BAGAM	36	0	19.14	19.10	19.26				
15	BAGAM	36	20	19.35	19.31	19.26	19.7	1		
15	BAGAM	36	36	19.02	19.36	19.04				
15	BAGAM	75	0	19.18	19.16	19.14	19.7	1		
15	BAGAM	75	0	19.18	19.16	19.14				
Channel				37850	38050	38150	Turn-up Int. (dB)	MPR (dB)		
Frequency (MHz)				37850	38050	38150				
5	QPSK	1	0	19.19	19.44	19.35	20.7	0		
5	QPSK	1	12	19.05	19.19	19.05				
5	QPSK	1	24	19.12	19.15	19.05	20.7	0		
5	QPSK	12	0	19.23	19.42	19.32				
5	QPSK	12	7	19.18	19.21	19.25	20.7	0		
5	QPSK	12	13	19.00	19.29	19.25				
5	QPSK	25	0	19.16	19.41	19.41	20.7	0		
5	HQAM	1	0	19.08	19.24	19.23				
5	HQAM	1	12	19.00	19.46	19.16	20.7	0		
5	HQAM	1	24	19.00	19.10	19.10				
5	HQAM	12	0	19.14	19.39	19.10	20.7	0		
5	HQAM	12	7	19.10	19.20	19.24				
5	HQAM	12	13	19.02	19.29	19.03	20.7	0		
5	HQAM	25	0	19.11	19.16	19.08				
5	HQAM	1	0	19.08	19.37	19.18	20.7	0		
5	HQAM	1	12	19.07	19.16	19.11				
5	BAGAM	1	24	19.25	19.07	19.16	20.7	0		
5	BAGAM	12	7	19.16	19.10	19.08				
5	BAGAM	12	13	19.13	19.13	18.97	19.7	1		
5	BAGAM	25	0	19.16	19.19	19.08				
5	BAGAM	1	0	19.39	19.29	19.31	19.7	1		
5	BAGAM	1	12	19.36	19.43	19.05				
5	BAGAM	1	24	19.12	19.10	19.20	19.7	1		
5	BAGAM	12	7	19.01	19.21	19.14				
5	BAGAM	12	13	19.08	19.20	19.22	19.7	1		
5	BAGAM	25	0	19.18	19.12	19.19				
5	BAGAM	25	0	19.18	19.12	19.19	19.7	1		
5	BAGAM	25	0	19.18	19.12	19.19				

Band 41 Other PA Ant0 DS15 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-up Int. (dB)	MPR (dB)
Channel				39750	40185	40620	41060	41560		
Frequency (MHz)				39750	40185	40620	41060	41560		
20	QPSK	1	0	19.26	19.38	19.51	19.34	19.57	20.7	0
20	QPSK	1	48	19.20	19.42	19.60	19.38	19.48		
20	QPSK	1	88	19.31	19.25	19.51	19.51	19.50	20.7	0
20	QPSK	50	0	19.33	19.23	19.50	19.34	19.38		
20	QPSK	50	24	19.43	19.23	19.49	19.49	19.49	20.7	0
20	QPSK	50	48	19.37	19.26	19.45	19.45	19.44		
20	QPSK	100	0	19.38	19.35	19.54	19.49	19.45	20.7	0
20	HQAM	1	0	19.26	19.44	19.49	19.49	19.37		
20	HQAM	1	48	19.28	19.30	19.47	19.47	19.43	20.7	0
20	HQAM	1	96	19.23	19.24	19.42	19.42	19.48		
20	HQAM	50	0	19.27	19.29	19.54	19.51	19.50	20.7	0
20	HQAM	50	24	19.28	19.23	19.49	19.49	19.47		
20	HQAM	50	48	19.22	19.40	19.39	19.31	19.47	20.7	0
20	HQAM	100	0	19.21	19.20	19.42	19.50	19.39		
20	HQAM	100	0	19.36	19.32	19.46	19.46	19.42	20.7	0
20	HQAM	100	0	19.36	19.32	19.46	19.46	19.42		
20	HQAM	1	49	19.31	19.37	19.51	19.49	19.55	20.7	0
20	HQAM	1	49	19.36	19.36	19.50	19.49	19.53		
20	HQAM	50	0	19.30	19.34	19.39	19.39	19.50	20.7	0
20	HQAM	50	24	19.43	19.37	19.51	19.49	19.49		
20	HQAM	50	48	19.25	19.37	19.50	19.49	19.49	20.7	0
20	HQAM	100	0	19.38	19.32	19.52	19.32	19.38		
20	HQAM	100	0	19.38	19.32	19.52	19.32	19.38	20.7	0
20	HQAM	100	0	19.38	19.32	19.52	19.32	19.38		
20	HQAM	1	0	19.21	19.17	18.16	18.31	18.38	19.7	1
20	HQAM	1	0	19.21	19.18	18.15	18.31	18.21		
20	HQAM	1	96	19.20	18.12	18.15	17.86	18.20	19.7	1
20	HQAM	1	96	19.20	18.12	18.15	17.86	18.20		
20	HQAM	50	24	19.26	19.37	18.38	18.17	18.15	19.7	1
20	HQAM	50	24	19.26	19.37	18.38	18.17	18.15		
20	HQAM	50	48	19.13	18.18	18.30	18.24	18.13	19.7	1
20	HQAM	50	48	19.13	18.18	18.30	18.24	18.13		
Channel				39750	40173	40620	41060	41518	Turn-up Int. (dB)	MPR (dB)
Frequency (MHz)				39750	40173	40620	41060	41518	Turn-up Int. (dB)	MPR (dB)
15	QPSK	1	0	19.11	19.40	19.44	19.28	19.18	20.7	0
15	QPSK	1	37	19.04	19.38	19.39	19.28	19.18		
15	QPSK	1	74	19.22	19.03	19.29	19.29	19.39	21	0
15	QPSK	1	111	19.23	19.03	19.11	19.29	19.29		
15	QPSK	36	20	19.38	19.18	19.45	19.40	19.48	20.7	0
15	QPSK	36	20	19.38	19.18	19.45	19.40	19.48		
15	QPSK	75	0	19.35	19.00	19.41	19.33	19.23	20.7	0
15	QPSK	75	0	19.25	19.38	19.48	19.40	19.38		
15	HQAM	1	0	19.09	19.26	19.47	19.25	19.32	20.7	0
15	HQAM	1	0	19.24	19.22	19.43	19.44	19.44		
15	HQAM	1	74	19.01	19.07	19.35	19.33	19.32	20.7	0
15	HQAM	36	0	19.09	19.28	19.46	19.34	19.30		
15	HQAM	36	0	19.17	19.03	19.30	19.44	19.39	20.7	0
15	HQAM	36	36	19.24	19.42	19.19	19.17	19.36		
15	HQAM	75	0	19.12	19.14	19.40	19.39	19.39	20.7	0
15	HQAM	75	0	19.35	19.14	19.39	19.20	19.43		
15	HQAM	1	37	19.13	19.36	19.38	19.27	19.38	20.7	0
15	HQAM	1	74	19.23	19.05	19.31	19.33	19.48		
15	HQAM	36	0	19.36	19.14	19.31	19.20	19.48	20.7	0
15	HQAM	36	20	19.38	19.20	19.43	19.40	19.38		
15	HQAM	75	0	19.17	19.23	19.43	19.43	19.43	20.7	0
15	HQAM	75	0	19.19	19.23	19.42	19.39	19.39		
15	HQAM	1	37	19.07	19.28	19.05	19.01	19.12	19.7	1
15	HQAM	1	74	19.07	17.90	18.15	17.70	18.05		
15	HQAM	36	0	19.02	18.16	18.15	18.02	18.05	19.7	1
15	HQAM	36	20	18.17	18.25	18.30	18.24	17.94		
15	HQAM	36	39	17.90	18.15	18.19	18.11	18.37	19.7	1
15	HQAM	36	39	17.92	18.08	18.12	18.06	18.21		
Channel				39750	40160	40620	41060	41560	Turn-up Int. (dB)	MPR (dB)
Frequency (MHz)				39750	40160	40620	41060	41560	Turn-up Int. (dB)	MPR (dB)
10	QPSK	1	0	19.11	19.47	19.49	19.33	19.28	20.7	0
10	QPSK	1	25	19.19	19.35	19.55	19.28	19.48		
10	QPSK	1	49	19.27	19.34	19.49	19.33	19.48	21	0
10	QPSK	25	0	19.20	19.21	19.37	19.21	19.48		
10	QPSK	25	12	19.42	19.22	19.43	19.41	19.44	20.7	0
10	QPSK	25	12	19.33	19.20	19.28	19.38	19.47		
10	QPSK	50	0	19.26	19.28	19.48	19.22	19.33	20.7	0
10	HQAM	1	0	19.11	19.40	19.51	19.22	19.39		
10	HQAM	1	49	19.20	19.30	19.40	19.38	19.27	20.7	0
10	HQAM	1	49	19.05	19.08	19.22	19.43	19.40		
10	HQAM	25	12	19.20	19.24	19.36	19.31	19.44	20.7	0
10	HQAM	25	12	19.07	19.01	19.18	19.21	19.38		
10	HQAM	25	12	19.09	19.34	19.27	19.11	19.35	20.7	0
10	HQAM	25	12	19.03	19.29	19.34	19.29	19.38		
10	HQAM	1	0	19.20	19.30	19.41	19.20	19.40	20.7	0
10	HQAM	1	25	19.23	19.37	19.31	19.33	19.38		
10	HQAM	1	49	19.18	19.25	19.25	19.31	19.51	20.7	0
10	HQAM	25	0	19.25	19.12	19.28	19.27	19.48		
10	HQAM	25	12	19.27	19.37	19.53	19.40	19.24	20.7	0
10	HQAM	25	12	19.04	19.29	19.38	19.29	19.37		
10	HQAM	50	0	19.18	19.14	19.52	19.28	19.38	20.7	0
10	HQAM	50	0	19.09	19.18	19.54	19.24	19.51		
10	HQAM	1	26	18.02	18.29	18.10	18.04	18.02	19.7	1
10	HQAM	1	49	17.88	18.10	17.96	17.88	18.18		
10	HQAM	25	12	18.16	18.25	18.26	18.18	18.12	19.7	1
10	HQAM	25	12	18.16	18.25	18.26	18.18	18.12		
10	HQAM	25	20	18.12	18.19	18.12	18.11	18.05	19.7	1
10	HQAM	25	20	17.97	18.17	18.17	18.05	17.94		
Channel				39675	40148	40620	41060	41560	Turn-up Int. (dB)	MPR (dB)
Frequency (MHz)				39675	40148	40620	41060	41560	Turn-up Int. (dB)	MPR (dB)
5	QPSK	1	0	19.08	19.24	19.47	19.30	19.45	20.7	0
5	QPSK	1	12	19.13	19.34	19.50	19.35	19.48		
5	QPSK	1	24	19.23	19.16	19.45	19.35	19.30	21	0
5	QPSK	12	0	19.20	19.03	19.38	19.35	19.34		
5	QPSK	12	7	19.30	19.08	19.43	19.35	19.30	20.7	0
5	QPSK	12	7	19.25	19.12	19.38	19.32	19.33		
5	QPSK	25	0	19.26	19.37	19.47	19.25	19.35	20.7	0
5	HQAM	1	0	19.17	19.40	19.38	19.38	19.17		
5	HQAM	1	12	19.20	19.30	19.40	19.38	19.32	20.7	0
5	HQAM	1	24	19.05	19.03	19.39	19.21	19.40		
5	HQAM	1	24	19.12	19.36	19.44	19.38	19.43	20.7	0
5	HQAM	12	7	19.10	19.21	19.37	19.41	19.44		
5	HQAM	12	13	19.13	19.31	19.34	19.22	19.38	20.7	0
5	HQAM	12	13	19.05	19.30	19.41	19.30	19.18		
5	HQAM	1	0	19.21	19.27	19.46	19.20	19.48	20.7	0
5	HQAM	1	12	19.15	19.32	19.38	19.28	19.41		
5	HQAM	1	24	19.36	19.31	19.31	19.31	19.51	20.7	0
5	HQAM	12	13	19.23	19.36	19.46	19.17	19.48		
5	HQAM	25	0	19.34	19.30	19.47	19.13	19.23	20.7	0
5	HQAM	25	0	17.98	18.16	18.18	18.02	18.08		
5	HQAM	1	12	18.11	18.07	18.07	18.11	18.10	19.7	1
5	HQAM	1	24	18.11	18.11	17.67	17.85	18.19		
5	HQAM	12	13	17.90	18.25	18.25	18.25	18.29	19.7	1
5	HQAM	12	13	17.90	18.25	18.25	18.25	18.29		
5	HQAM	12	7	18.22	18.33	18.38	18.12	17.97	19.7	1
5	HQAM	12	13	18.03	18.14	18.17	18.25	18.02		
5	HQAM	12	13	18.03	18.14	18.17	18.25	17.94	19.7	1
5	HQAM	12	13	18.03	18.14	18.17	18.25	17.94		



Band 2 Other PA Ant1 DSI5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.90	16.90	16.90				
20	QPSK	1	49	17.72	17.87	17.87		19	0	
20	QPSK	1	99	17.72	17.89	17.97				
20	QPSK	50	0	17.87	18.11	17.89				
20	QPSK	50	24	17.83	17.87	17.86				
20	QPSK	50	50	17.88	17.91	17.94		19	0	
20	QPSK	100	0	17.79	18.03	17.91				
20	QPSK	100	49	17.71	18.12	17.92				
20	16QAM	1	49	17.81	17.82	17.99		19	0	
20	16QAM	5	99	17.71	17.86	17.91				
20	16QAM	5	49	17.83	18.14	17.99				
20	16QAM	50	24	17.69	17.79	17.97		19	0	
20	16QAM	50	50	17.83	17.94	17.96				
20	16QAM	100	0	17.82	18.14	17.99				
20	64QAM	1	0	17.73	17.90	17.88				
20	64QAM	1	49	17.74	17.83	17.85		19	0	
20	64QAM	1	99	17.83	18.14	17.92				
20	64QAM	50	24	17.77	17.92	17.87		19	0	
20	64QAM	50	50	17.85	17.91	17.97				
20	64QAM	100	0	17.65	17.77	17.91				
20	256QAM	1	49	17.81	18.09	17.95				
20	256QAM	1	99	17.68	17.79	17.96				
20	256QAM	50	24	17.68	17.79	17.96				
20	256QAM	50	50	17.73	18.11	17.93				
20	256QAM	100	0	17.68	17.81	17.93		19	0	
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.87	16.86	16.83				
15	QPSK	1	49	17.80	17.86	18.03				
15	QPSK	1	99	17.80	18.09	17.97		19	0	
15	QPSK	36	0	17.70	17.95	17.89				
15	QPSK	36	49	17.68	17.91	17.79		19	0	
15	QPSK	36	99	17.66	17.78	17.92				
15	QPSK	75	0	17.64	17.86	17.81				
15	16QAM	1	99	17.67	17.84	17.84				
15	16QAM	1	37	17.76	17.71	17.92		19	0	
15	16QAM	5	74	17.72	17.91	17.86				
15	16QAM	36	20	17.69	17.98	17.78				
15	16QAM	36	20	17.64	17.72	17.98		19	0	
15	16QAM	75	0	17.63	17.75	17.76				
15	64QAM	1	0	17.72	18.10	17.76				
15	64QAM	1	49	17.67	17.86	17.86		19	0	
15	64QAM	36	0	17.78	17.81	17.93				
15	64QAM	36	49	17.76	17.86	17.84		19	0	
15	64QAM	75	0	17.79	17.88	17.73				
15	256QAM	1	37	17.72	17.90	17.90				
15	256QAM	1	74	17.84	17.75	18.01		19	0	
15	256QAM	36	20	17.78	17.81	17.95				
15	256QAM	36	20	17.74	17.58	17.78				
15	256QAM	36	99	17.59	17.68	17.98		19	0	
15	256QAM	75	0	17.67	17.87	17.95				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.92	16.90	16.91				
10	QPSK	1	25	17.74	17.87	18.00		19	0	
10	QPSK	1	49	17.86	17.88	17.96				
10	QPSK	25	12	17.82	17.94	17.97				
10	QPSK	25	25	17.67	17.78	17.82		19	0	
10	QPSK	25	49	17.70	17.81	17.88				
10	16QAM	1	0	17.70	18.03	17.99				
10	16QAM	1	25	17.69	17.87	18.04		19	0	
10	16QAM	1	49	17.86	17.97	17.99				
10	16QAM	25	12	17.82	17.81	17.85				
10	16QAM	25	25	17.84	17.88	17.96		19	0	
10	16QAM	50	0	17.74	17.88	17.78				
10	64QAM	1	0	17.74	17.93	17.86				
10	64QAM	25	0	17.70	17.83	18.05		19	0	
10	64QAM	25	25	17.68	17.86	17.77				
10	64QAM	50	0	17.68	17.63	17.82				
10	256QAM	1	25	17.72	17.88	17.86				
10	256QAM	1	49	17.68	17.67	17.82		19	0	
10	256QAM	25	12	17.75	17.83	17.83				
10	256QAM	25	12	17.71	17.81	17.89				
10	256QAM	25	25	17.61	17.60	17.89		19	0	
10	256QAM	50	0	17.64	17.72	17.72				
Channel										
Frequency (MHz)										
5	QPSK	1	0	17.97	18.01	18.01				
5	QPSK	1	12	17.74	18.11	17.91		19	0	
5	QPSK	1	24	17.83	17.75	17.88				
5	QPSK	12	7	17.83	17.86	17.86				
5	QPSK	12	13	17.80	17.86	17.99		19	0	
5	QPSK	12	13	17.85	17.73	17.78				
5	16QAM	1	0	17.91	18.09	17.97				
5	16QAM	1	12	17.84	17.77	18.03		19	0	
5	16QAM	1	24	17.81	17.83	17.84				
5	16QAM	12	0	17.83	17.87	17.86				
5	16QAM	12	7	17.86	17.71	17.87		19	0	
5	16QAM	12	13	17.82	17.72	17.98				
5	16QAM	25	0	17.82	17.98	17.88				
5	16QAM	25	0	17.80	17.86	17.97		19	0	
5	64QAM	1	24	17.80	17.89	17.76				
5	64QAM	12	0	17.83	18.04	18.01				
5	64QAM	12	7	17.73	17.82	17.80		19	0	
5	64QAM	12	13	17.75	17.87	17.91				
5	64QAM	25	0	17.72	18.01	17.81				
5	64QAM	25	0	17.82	18.05	17.81		19	0	
5	256QAM	1	12	17.83	17.89	17.96				
5	256QAM	1	24	17.78	17.91	17.96		19	0	
5	256QAM	12	0	17.89	17.79	17.93				
5	256QAM	12	7	17.82	18.02	17.89				
5	256QAM	12	13	17.82	17.76	17.82		19	0	
5	256QAM	25	0	17.84	17.79	17.85				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.07	18.00	18.03				
3	QPSK	1	8	17.92	18.00	17.87		19	0	
3	QPSK	1	14	17.78	17.65	17.86				
3	QPSK	8	7	17.66	17.84	17.87				
3	QPSK	8	4	17.75	17.89	17.85		19	0	
3	QPSK	8	7	17.84	17.82	17.96				
3	QPSK	16	0	17.65	17.74	17.97				
3	16QAM	1	0	17.52	17.89	17.76				
3	16QAM	1	8	17.71	17.72	17.85		19	0	
3	16QAM	8	7	17.66	17.88	17.83				
3	16QAM	8	4	17.71	17.71	17.78		19	0	
3	16QAM	15	0	17.81	17.71	17.69				
3	16QAM	15	0	17.86	18.08	17.81				
3	64QAM	1	0	17.79	18.09	17.99				
3	64QAM	1	14	17.85	17.82	17.84		19	0	
3	64QAM	8	7	17.73	17.87	17.81				
3	64QAM	8	7	17.77	18.03	17.65				
3	256QAM	1	0	17.66	17.81	17.72		19	0	
3	256QAM	1	8	17.77	17.89	17.89				
3	256QAM	8	7	17.65	17.89	17.89				
3	256QAM	8	0	17.92	17.99	17.80		19	0	
3	256QAM	15	0	17.70	17.89	17.84				
3	256QAM	15	0	17.68	17.82	17.83		19	0	
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.24	18.00	17.95				
1.4	QPSK	1	3	17.78	18.13	17.96		19	0	
1.4	QPSK	1	5	17.69	17.76	17.88				
1.4	QPSK	3	0	17.87	17.88	17.82				
1.4	QPSK	3	1	17.67	17.94	17.90		19	0	
1.4	QPSK	3	3	17.69	17.96	17.90				
1.4	QPSK	3	6	17.66	17.78	17.93		19	0	
1.4	16QAM	1	0	17.69	18.03	17.69				
1.4	16QAM	1	3	17.72	17.81	17.89		19	0	
1.4	16QAM	3	0	17.65	17.78	17.92				
1.4	16QAM	3	1	17.65	17.98	17.92				
1.4	16QAM	6	0	17.69	17.92	17.97		19	0	
1.4	16QAM	6	1	17.68	18.13	17.97				
1.4	16QAM	6	3	17.66	17.90	17.95				
1.4	16QAM	6	7	17.70	17.78	17.81		19	0	
1.4	256QAM	1	0	17.68	17.85	17.83				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.07	18.00	18.03				
1.4	QPSK	1	8	17.94	18.00	17.87		19	0	
1.4	QPSK	1	14	17.78	17.65	17.86				
1.4	QPSK	8	7	17.66	17.84	17.87				
1.4	QPSK	8	4	17.75	17.89	17.85		19	0	
1.4	QPSK	8	7	17.84	17.82	17.96				
1.4	QPSK	16	0	17.65	17.74	17.97				
1.4	16QAM	1	0	17.52	17.89	17.76				
1.4	16QAM	1	8	17.71	17.72	17.85		19	0	
1.4	16QAM	8	7	17.66	17.88	17.83				
1.4	16QAM	8	4	17.71	17.71	17.78		19	0	
1.4	16QAM	15	0	17.81	17.71	17.69				
1.4	16QAM	15	0	17.86	18.08	17.81				
1.4	64QAM	1	0	17.79	17.81	17.83		19	0	
1.4										



Band 38 Other PA Ant1 DS15 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)		
Channel				37855	38050	38150				
Frequency (MHz)				25.75	25.75	25.75				
20	QPSK	1	0	20.52	20.51	20.54	22.1	0		
20	QPSK	1	48	20.54	20.57	20.43				
20	QPSK	1	96	20.56	20.58	20.50				
20	QPSK	50	0	20.48	20.58	20.50				
20	QPSK	50	24	20.52	20.63	20.58				
20	QPSK	50	48	20.48	20.62	20.46	22.1	0		
20	QPSK	100	0	20.53	20.69	20.47				
20	HQAM	1	0	20.52	20.59	20.46				
20	HQAM	1	48	20.48	20.54	20.45				
20	HQAM	1	96	20.52	20.51	20.48				
20	HQAM	50	24	20.54	20.66	20.45	22.1	0		
20	HQAM	50	48	20.50	20.63	20.46				
20	HQAM	100	0	20.54	20.62	20.45				
20	HQAM	100	24	20.54	20.66	20.45				
20	HQAM	100	48	20.54	20.66	20.45				
20	HQAM	1	0	20.57	20.57	20.57	21.1	1		
20	HQAM	1	48	20.48	20.57	20.58				
20	HQAM	1	96	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM	100	0	20.57	20.57	20.57	19.1	3		
20	HQAM	100	24	20.56	20.59	20.55				
20	HQAM	100	48	20.53	20.53	20.56				
20	HQAM	50	24	20.56	20.59	20.55				
20	HQAM	50	48	20.50	20.51	20.51				
20	HQAM									



Band 2 Other PA Ant2 Default

BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.77	20.82	20.89	21	0		
20	QPSK	1	49	20.81	20.81	20.74				
20	QPSK	1	99	20.83	20.89	20.97	21	0		
20	QPSK	1	50	20.72	20.78	20.74				
20	QPSK	50	0	20.81	20.82	20.84	21	0		
20	QPSK	50	50	20.87	20.87	20.89				
20	QPSK	100	0	20.84	20.85	20.82	21	0		
20	QPSK	100	50	20.89	20.89	20.90				
20	16QAM	1	49	20.36	20.40	20.35	21	0		
20	16QAM	1	99	20.38	20.39	20.36				
20	16QAM	50	0	20.18	20.22	20.19	21	0		
20	16QAM	50	24	20.06	20.10	20.04				
20	16QAM	50	50	20.08	20.10	20.04	21	0		
20	16QAM	100	0	20.07	20.10	20.04				
20	64QAM	1	0	20.55	20.59	20.46	21	0		
20	64QAM	1	49	20.48	20.50	20.44				
20	64QAM	1	99	20.37	20.40	20.30	20	1		
20	64QAM	50	0	19.14	19.22	19.10				
20	64QAM	50	24	19.00	19.14	19.00	20	1		
20	64QAM	50	50	19.05	19.10	19.11				
20	64QAM	100	0	19.05	19.11	19.06	18	3		
20	256QAM	1	49	17.15	17.22	17.16				
20	256QAM	1	99	17.07	17.22	17.18	18	3		
20	256QAM	1	50	17.23	17.28	17.24				
20	256QAM	50	24	17.14	17.19	17.00	18	3		
20	256QAM	50	50	17.16	17.19	17.06				
20	256QAM	100	0	17.04	17.11	17.00	20	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.65	20.70	20.81			21	0
15	QPSK	1	49	20.66	20.68	20.62				
15	QPSK	1	74	20.53	20.57	20.50	21	0		
15	QPSK	36	0	20.87	20.80	20.87				
15	QPSK	36	39	20.49	20.50	20.37	21	0		
15	QPSK	36	39	20.45	20.42	20.50				
15	QPSK	75	0	20.40	20.50	20.50	21	0		
15	QPSK	75	0	20.25	20.29	20.29				
15	16QAM	1	37	20.21	20.20	20.19	21	0		
15	16QAM	1	37	20.15	20.17	20.16				
15	16QAM	36	0	20.11	20.11	20.10	21	0		
15	16QAM	36	20	20.01	20.08	19.97				
15	16QAM	36	20	19.95	20.01	19.90	21	0		
15	16QAM	75	0	19.95	20.01	19.90				
15	64QAM	1	0	20.48	20.55	20.46	21	0		
15	64QAM	1	49	20.43	20.47	20.43				
15	64QAM	1	74	20.29	20.42	20.25	20	1		
15	64QAM	36	0	19.06	19.17	19.12				
15	64QAM	36	39	19.06	19.08	19.03	20	1		
15	64QAM	36	39	19.07	19.14	19.06				
15	64QAM	75	0	19.84	19.87	19.88	18	3		
15	256QAM	1	37	17.02	17.13	17.07				
15	256QAM	1	74	17.00	17.10	17.04	18	3		
15	256QAM	36	39	16.92	17.03	16.96				
15	256QAM	36	39	17.07	17.04	17.00	18	3		
15	256QAM	75	0	16.92	17.10	16.98				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.85	19.89	19.95	21	0		
10	QPSK	1	25	20.58	20.60	20.53				
10	QPSK	1	49	20.53	20.58	20.42	21	0		
10	QPSK	25	12	20.47	20.60	20.53				
10	QPSK	25	12	20.47	20.60	20.53	21	0		
10	QPSK	25	12	20.47	20.60	20.53				
10	QPSK	25	12	20.47	20.60	20.53	21	0		
10	QPSK	25	12	20.47	20.60	20.53				
10	16QAM	1	0	20.29	20.41	20.29	21	0		
10	16QAM	1	25	20.23	20.39	20.25				
10	16QAM	25	12	19.92	20.01	19.95	21	0		
10	16QAM	25	12	19.92	20.01	19.95				
10	16QAM	25	12	19.92	20.01	19.95	21	0		
10	16QAM	25	12	19.92	20.01	19.95				
10	16QAM	50	0	19.93	19.97	19.98	20	1		
10	16QAM	50	0	19.93	19.97	19.98				
10	64QAM	1	0	20.46	20.48	20.43	20	1		
10	64QAM	1	49	20.42	20.38	20.48				
10	64QAM	1	49	20.24	20.41	20.26	20	1		
10	64QAM	25	0	19.05	19.16	19.03				
10	64QAM	25	0	19.05	19.16	19.03	20	1		
10	64QAM	25	0	19.05	19.16	19.03				
10	64QAM	25	0	19.05	19.16	19.03	20	1		
10	64QAM	25	0	19.05	19.16	19.03				
10	64QAM	50	0	19.92	19.98	19.96	18	3		
10	256QAM	1	25	17.07	17.19	17.04				
10	256QAM	1	25	17.07	17.19	17.04	18	3		
10	256QAM	25	12	16.95	17.00	16.86				
10	256QAM	25	12	16.97	17.13	16.98	20	3		
10	256QAM	25	12	16.97	17.13	16.98				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.68	20.72	20.58	21	0		
5	QPSK	1	12	20.53	20.61	20.48				
5	QPSK	1	24	20.58	20.57	20.49	21	0		
5	QPSK	12	0	20.61	20.66	20.61				
5	QPSK	12	7	20.47	20.61	20.49	21	0		
5	QPSK	12	13	20.43	20.59	20.48				
5	QPSK	12	13	20.48	20.53	20.51	21	0		
5	QPSK	12	13	20.48	20.53	20.51				
5	16QAM	1	0	20.25	20.34	20.24	21	0		
5	16QAM	1	12	20.29	20.29	20.29				
5	16QAM	12	0	20.23	20.27	20.22	21	0		
5	16QAM	12	0	20.05	20.18	20.09				
5	16QAM	12	7	19.99	20.08	19.94	21	0		
5	16QAM	12	13	19.97	20.04	19.90				
5	16QAM	25	0	20.02	19.99	19.96	21	0		
5	16QAM	25	0	20.48	20.45	20.41				
5	64QAM	1	0	20.39	20.47	20.37	21	0		
5	64QAM	1	24	20.33	20.43	20.30				
5	64QAM	12	0	19.00	19.17	19.11	20	1		
5	64QAM	12	0	18.99	19.02	18.92				
5	64QAM	12	13	18.91	19.10	18.98	20	1		
5	64QAM	25	0	18.96	19.06	18.93				
5	64QAM	25	0	17.11	17.25	17.08	18	3		
5	256QAM	1	12	17.12	17.24	17.02				
5	256QAM	1	24	17.00	17.10	17.00	18	3		
5	256QAM	12	7	16.97	17.00	16.86				
5	256QAM	12	13	17.11	17.05	17.02	18	3		
5	256QAM	25	0	16.95	17.09	16.94				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.68	20.72	20.58	21	0		
3	QPSK	1	8	20.52	20.63	20.54				
3	QPSK	1	14	20.50	20.56	20.45	21	0		
3	QPSK	8	0	20.68	20.74	20.66				
3	QPSK	8	4	20.51	20.58	20.53	21	0		
3	QPSK	8	7	20.50	20.61	20.47				
3	QPSK	8	7	20.43	20.57	20.50	21	0		
3	QPSK	8	7	20.30	20.41	20.31				
3	16QAM	1	0	20.26	20.30	20.20	21	0		
3	16QAM	1	8	20.26	20.29	20.20				
3	16QAM	8	0	20.22	20.30	20.23	21	0		
3	16QAM	8	4	20.08	20.18	20.16				
3	16QAM	8	4	20.03	20.07	19.96	21	0		
3	16QAM	8	4	19.96	20.06	19.90				
3	16QAM	16	0	19.92	20.09	19.92	21	0		
3	16QAM	16	0	20.40	20.36	20.42				
3	64QAM	1	0	20.35	20.50	20.33	20	1		
3	64QAM	1	14	20.34	20.45	20.36				
3	64QAM	8	4	19.82	19.95	19.85	20	1		
3	64QAM	8	7	18.97	19.05	19.09				
3	64QAM	8	7	19.00	19.03	18.92	20	1		
3	64QAM	8	7	19.01	19.13	18.91				
3	64QAM	16	0	17.08	17.16	17.00	18	3		
3	256QAM	1	8	17.13	17.23	17.11				
3	256QAM	1	14	17.11	17.17	17.03	18	3		
3	256QAM	8	4	16.90	17.01	16.86				
3	256QAM	8	4	17.01	17.09	16.99	18	3		
3	256QAM	8	4	17.11	17.09	16.99				
3	256QAM	16	0	16.94	17.06	17.04				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.73	20.76	20.80	21	0		
1.4	QPSK	1	3	20.49	20.63	20.51				
1.4	QPSK	1	6	20.57	20.67	20.56	21	0		
1.4	QPSK	3	0	20.59	20.68	20.65				
1.4	QPSK	3	3	20.56	20.67	20.58	21	0		
1.4	QPSK	3	6	20.58	20.67	20.62				
1.4	16QAM	1	0	20.48	20.51	20.51	21	0		
1.4	16QAM	1	3	20.26	20.41	20.30				
1.4	16QAM	1	6	20.38	20.49	20.40	21	0		
1.4	16QAM	3	0	20.23	20.29	20.22				
1.4	16QAM	3	3	20.04	20.17	20.11	21	0		
1.4	16QAM	3	6	20.11	20.21	20.20				
1.4	16QAM	3	3	20.02	20.15	20.10	20	1		
1.4	16QAM	3	6	20.07	20.19	20.16				
1.4	64QAM	1	0	20.27	20.40	20.28	21	0		
1.4	64QAM	1	3	20.22	20.38	20.30				
1.4	64QAM	1	6	20.48	20.49	20.46	21	0		
1.4	64QAM	3	0	20.38	20.49	20.39				
1.4	64QAM	3	3	20.22	20.38	20.30	20	1		
1.4	64QAM	3	6	20.07	20.19	20.16				
1.4	64QAM	3	3	17.02	17.16	17.08	18	3		
1.4	256QAM	1	0	17.01	17.13	17.01				
1.4	256QAM	1	3	17.04	17.14	17.07	18	3		
1.4	256QAM	3	0	16.91	17.00	16.94				
1.4	256QAM	3	3	17.11	17.09	16.99	18	3		
1.4	256QAM	3	6	16.91	17.07	17.03				



Band 38 Other PA Ant2 DSI5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel											
				37465	38050	38150					
Frequency (MHz)											
20	QPSK	1	0	22.03	22.05	22.01	23	0			
20	QPSK	1	48	21.91	21.97	21.87					
20	QPSK	1	88	21.87	21.92	21.81	22	1			
20	QPSK	50	0	20.95	21.04	20.90					
20	QPSK	50	24	20.90	20.98	20.90	22	1			
20	QPSK	50	48	20.84	20.89	20.85					
20	QPSK	100	0	21.05	21.11	20.99	22	1			
20	HQAM	1	0	20.91	21.05	20.96					
20	HQAM	1	48	20.99	20.92	20.92	22	1			
20	HQAM	50	24	19.96	20.00	19.97					
20	HQAM	50	50	19.94	20.00	19.91	21	2			
20	HQAM	100	0	19.94	20.00	19.95					
20	HQAM	100	1	20.03	20.13	20.00	21	2			
20	HQAM	1	48	20.02	20.07	19.94					
20	HQAM	1	88	19.95	20.03	19.90	20	3			
20	HQAM	50	0	19.98	19.11	19.95					
20	HQAM	50	24	19.96	19.02	19.87	20	3			
20	HQAM	50	50	19.94	19.07	19.89					
20	HQAM	100	0	19.91	19.99	19.87	18	5			
20	HQAM	100	1	17.08	17.13	17.08					
20	HQAM	1	48	17.07	17.10	17.04	18	5			
20	HQAM	50	0	16.90	17.05	16.93					
20	HQAM	50	0	16.93	17.05	16.96	18	5			
20	HQAM	50	24	16.84	16.95	16.83					
20	HQAM	50	50	16.88	17.01	16.88	18	5			
20	HQAM	100	0	16.84	16.95	16.83					
Channel											
				37425	38050	38175					
Frequency (MHz)											
15	QPSK	1	0	22.03	22.05	21.93	23	0			
15	QPSK	1	37	21.76	21.84	21.77					
15	QPSK	1	74	21.70	21.86	21.71	22	1			
15	QPSK	36	0	20.83	20.95	20.86					
15	QPSK	36	20	20.86	20.89	20.80	22	1			
15	QPSK	36	38	20.73	20.81	20.77					
15	QPSK	75	0	21.01	21.00	20.91	22	1			
15	HQAM	1	0	20.98	21.01	20.97					
15	HQAM	1	37	20.76	20.89	20.86	22	1			
15	HQAM	1	74	20.77	20.92	20.77					
15	HQAM	36	0	19.85	19.96	19.86	21	2			
15	HQAM	36	38	19.85	19.92	19.85					
15	HQAM	36	39	19.90	19.93	19.84	21	2			
15	HQAM	75	0	19.83	19.89	19.82					
15	HQAM	75	0	19.85	19.92	19.85	20	3			
15	HQAM	36	0	19.85	19.97	19.85					
15	HQAM	36	20	19.88	19.90	19.83	20	3			
15	HQAM	36	38	19.85	19.92	19.85					
15	HQAM	75	0	19.86	19.95	19.73	18	5			
15	HQAM	75	0	19.85	19.95	19.85					
15	HQAM	36	0	19.81	19.92	19.87	18	5			
15	HQAM	36	39	19.76	19.82	19.81					
15	HQAM	75	0	19.84	19.91	19.85	18	5			
15	HQAM	75	0	19.84	19.91	19.85					
Channel											
				37465	38050	38225					
Frequency (MHz)											
5	QPSK	1	0	21.91	21.99	21.88	23	0			
5	QPSK	1	12	21.81	21.93	21.84					
5	QPSK	1	24	21.75	21.85	21.77	23	0			
5	QPSK	12	0	20.86	21.01	20.82					
5	QPSK	12	7	20.79	20.95	20.76	22	1			
5	QPSK	12	13	20.67	20.79	20.70					
5	HQAM	1	0	20.91	20.99	20.91	22	1			
5	HQAM	1	0	20.87	21.02	20.92					
5	HQAM	1	12	20.81	20.89	20.88	22	1			
5	HQAM	1	24	20.76	20.90	20.76					
5	HQAM	12	0	19.92	19.98	19.98	21	2			
5	HQAM	12	7	19.81	19.91	19.87					
5	HQAM	12	13	19.87	19.94	19.81	21	2			
5	HQAM	25	0	19.79	19.90	19.90					
5	HQAM	1	0	19.98	20.07	19.91	20	3			
5	HQAM	1	12	19.87	19.89	19.90					
5	HQAM	1	24	19.94	19.98	19.81	18	5			
5	HQAM	12	0	18.93	18.93	18.76					
5	HQAM	12	13	18.91	19.00	18.89	18	5			
5	HQAM	25	0	18.93	19.03	18.76					
5	HQAM	1	0	18.97	17.05	18.98	18	5			
5	HQAM	1	12	18.93	18.95	17.01					
5	HQAM	1	24	18.92	18.91	16.81	18	5			
5	HQAM	12	0	18.92	17.02	18.83					
5	HQAM	12	7	18.75	18.86	18.71	18	5			
5	HQAM	12	13	18.85	18.97	18.76					
5	HQAM	25	0	18.90	18.90	18.84					
5	HQAM	25	0	18.90	18.90	18.84					

Band 41 Other PA Ant2 DSI5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41060	41500	41940		
15	QPSK	1	0	22.07	22.17	22.23	22.15	22.15	22.15	23	0
15	QPSK	1	48	21.91	22.14	22.27	22.18	22.01			
15	QPSK	1	88	22.00	22.17	22.22	22.11	22.11		22	1
15	QPSK	50	0	20.90	21.10	21.17	21.23	21.16			
15	QPSK	50	24	20.91	21.13	21.24	21.17	21.16		22	1
15	QPSK	50	48	20.87	21.07	21.15	21.07	21.06			
15	QPSK	100	0	21.03	21.26	21.39	21.35	21.24		22	1
15	16QAM	1	0	21.22	21.38	21.42	21.33	21.27			
15	16QAM	1	99	21.13	21.31	21.37	21.27	21.21		22	1
15	16QAM	1	99	21.10	21.27	21.32	21.22	21.24			
15	16QAM	50	0	20.92	20.23	20.22	20.22	20.11		21	2
15	16QAM	50	24	20.10	20.20	20.23	20.11	20.10			
15	16QAM	50	50	19.96	20.15	20.28	20.15	20.10		21	2
15	16QAM	100	0	19.94	20.06	20.24	20.14	20.09			
15	16QAM	100	1	20.13	20.39	20.42	20.24	20.18		21	2
15	16QAM	1	48	20.08	20.21	20.36	20.26	20.16			
15	16QAM	1	99	19.97	20.15	20.32	20.23	20.16		20	3
15	16QAM	50	0	19.98	19.27	19.35	19.27	19.19			
15	16QAM	50	24	19.91	19.21	19.25	19.13	19.07		20	3
15	16QAM	50	50	19.11	19.25	19.31	19.19	19.20			
15	256QAM	1	0	17.04	17.27	17.34	17.23	17.14		18	5
15	256QAM	1	17	17.04	17.24	17.31	17.23	17.16			
15	256QAM	1	56	16.92	17.13	17.26	17.20	17.01		18	5
15	256QAM	1	95	16.92	17.13	17.26	17.20	17.01			
15	256QAM	50	24	16.94	17.18	17.26	17.21	17.07		18	5
15	256QAM	50	50	16.87	17.17	17.32	17.24	17.11			
15	256QAM	100	0	17.00	17.18	17.25	17.18	17.07			
Channel											
Frequency (MHz)				39720	40173	40620	41068	41515	41940	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	0	22.09	22.17	22.23	22.15	22.15		23	0
15	QPSK	1	37	21.80	22.07	22.19	22.09	22.11			
15	QPSK	1	76	21.87	22.02	22.09	22.06	21.98		22	1
15	QPSK	1	115	21.87	21.97	22.11	21.94	21.96			
15	QPSK	38	20	21.79	21.08	21.17	21.65	20.93		22	1
15	QPSK	38	58	20.78	21.05	21.15	21.65	20.93			
15	QPSK	76	0	20.90	21.11	21.32	21.22	20.99		22	1
15	16QAM	1	0	21.12	21.31	21.29	21.22	21.19			
15	16QAM	1	37	21.05	21.17	21.23	21.14	21.12		22	1
15	16QAM	1	74	20.96	21.20	21.26	21.14	21.12			
15	16QAM	38	0	19.98	20.15	20.22	20.14	20.03		21	2
15	16QAM	38	38	19.98	20.14	20.23	20.09	20.07			
15	16QAM	38	76	19.94	20.11	20.22	20.11	20.02		21	2
15	16QAM	76	0	19.74	19.96	20.03	19.96	19.84			
15	16QAM	76	0	20.11	20.30	20.30	20.21	20.25		21	2
15	16QAM	1	37	20.02	20.11	20.23	20.23	20.34			
15	16QAM	1	74	19.98	20.06	20.23	20.23	20.36		20	3
15	16QAM	38	0	19.97	19.18	19.28	19.18	19.13			
15	16QAM	38	20	19.96	19.08	19.15	19.09	19.07		20	3
15	16QAM	38	58	19.92	19.07	19.15	19.07	19.17			
15	16QAM	76	0	19.84	19.06	19.11	19.01	18.96		18	5
15	256QAM	1	0	17.04	17.26	17.33	17.23	17.14			
15	256QAM	1	37	16.94	17.16	17.27	17.14	17.05		18	5
15	256QAM	1	74	16.78	17.08	17.18	17.13	16.98			
15	256QAM	38	0	16.76	17.04	17.15	17.06	16.96		18	5
15	256QAM	38	20	16.80	17.10	17.16	17.17	16.98			
15	256QAM	38	58	16.91	17.04	17.21	17.16	16.97		18	5
15	256QAM	76	0	16.78	17.06	17.25	17.13	17.06			
Channel											
Frequency (MHz)				39700	40160	40620	41060	41540	41940	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	0	22.09	22.17	22.23	22.15	22.15		23	0
15	QPSK	1	25	21.86	22.07	22.14	22.09	21.95			
15	QPSK	1	64	21.86	22.07	22.14	22.09	21.95		22	1
15	QPSK	25	0	20.88	21.14	21.15	21.05	20.96			
15	QPSK	25	12	20.88	21.00	21.09	21.09	20.98		22	1
15	QPSK	25	38	20.87	21.05	21.15	21.03	21.02			
15	QPSK	50	0	20.98	21.18	21.33	21.22	21.04		22	1
15	16QAM	1	0	21.13	21.26	21.28	21.21	21.19			
15	16QAM	1	37	21.04	21.18	21.23	21.14	21.11		22	1
15	16QAM	1	48	20.95	21.18	21.28	21.11	21.10			
15	16QAM	1	88	20.99	20.99	20.21	20.10	20.03		21	2
15	16QAM	1	127	20.98	20.99	20.21	20.10	20.03			
15	16QAM	25	12	20.88	21.02	21.09	21.09	20.98		21	2
15	16QAM	25	25	20.84	20.94	20.20	20.09	20.02			
15	16QAM	25	50	20.79	20.93	21.01	20.93	20.85		20	3
15	16QAM	50	0	19.84	19.02	19.15	19.00	18.84			
15	16QAM	50	12	19.84	19.15	19.25	19.15	19.04		20	3
15	16QAM	50	25	19.80	19.12	19.25	19.15	19.04			
15	256QAM	1	26	16.90	17.02	17.21	17.10	17.01		18	5
15	256QAM	1	49	16.88	17.03	17.18	17.09	16.98			
15	256QAM	12	0	16.74	17.04	17.21	17.10	17.01		18	5
15	256QAM	12	12	16.79	17.14	17.13	17.12	16.94			
15	256QAM	25	12	16.90	17.03	17.28	17.15	17.07		18	5
15	256QAM	50	0	16.87	17.06	17.25	17.11	17.07			
Channel											
Frequency (MHz)				39675 <th>40140</th> <th>40620</th> <th>41060</th> <th>41565</th> <th>41940</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	40140	40620	41060	41565	41940	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.00	22.12	22.20	22.14	22.08		23	0
5	QPSK	1	12	21.84	22.08	22.16	22.06	21.95			
5	QPSK	1	24	21.82	22.01	22.15	22.07	21.94		22	1
5	QPSK	12	0	20.86	21.07	21.25	21.10	20.94			
5	QPSK	12	7	20.82	21.10	21.16	21.05	20.96		22	1
5	QPSK	24	0	20.88	21.11	21.29	21.29	21.03			
5	16QAM	1	0	21.17	21.26	21.30	21.23	21.17		22	1
5	16QAM	1	12	21.04	21.18	21.21	21.11	21.07			
5	16QAM	1	24	20.99	21.15	21.24	21.17	21.17		21	2
5	16QAM	12	7	20.87	21.06	21.15	21.06	20.95			
5	16QAM	12	7	19.88	20.08	20.16	20.07	20.00		21	2
5	16QAM	12	13	19.88	20.10	20.18	20.11	20.06			
5	16QAM	24	0	19.86	20.04	20.32	20.15	20.19		21	2
5	16QAM	1	12	19.88	19.15	19.15	19.05	18.98			
5	16QAM	1	24	19.88	19.14	19.24	19.07	19.11		20	3
5	16QAM	12	0	19.93	19.18	19.24	19.18	19.03			
5	16QAM	12	13	19.88	19.15	19.15	19.05	18.98		20	3
5	16QAM	12	13	19.88	19.14	19.14	19.07	18.97			
5	16QAM	25	0	18.93	19.03	19.11	19.01	18.99		18	5
5	256QAM	1	26	17.00	17.16	17.27	17.14	17.04			
5	256QAM	12	7	16.82	17.04	17.17	17.10	16.94		18	5
5	256QAM	12	13	16.92	17.06	17.23	17.20	17.08			
5	256QAM	25	12	16.92	17.11	17.27	17.11	17.06		18	5



Band 2 Other PA Ant3 DS15 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turn-up Time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.52	18.52	18.52	20.1	0	
20	QPSK	1	49	18.43	18.43	18.43		0	
20	QPSK	1	99	18.41	18.39	18.45	20.1	0	
20	QPSK	1	149	18.39	18.35	18.43		0	
20	QPSK	50	0	18.39	18.35	18.39	20.1	0	
20	QPSK	50	24	18.33	18.32	18.35		0	
20	QPSK	50	49	18.41	18.40	18.42	20.1	0	
20	QPSK	100	0	18.44	18.45	18.38		0	
20	QPSK	100	24	18.50	18.39	18.39	20.1	0	
20	QPSK	150	0	18.52	18.50	18.37		0	
20	16QAM	1	49	18.32	18.32	18.41	20.1	0	
20	16QAM	1	99	18.34	18.32	18.28		0	
20	16QAM	1	149	18.47	18.37	18.41	20.1	0	
20	16QAM	50	24	18.41	18.40	18.33		0	
20	16QAM	50	49	18.33	18.32	18.34	20.1	0	
20	16QAM	100	0	18.33	18.35	18.41		0	
20	16QAM	1	0	18.46	18.40	18.42	20.1	0	
20	16QAM	1	49	18.39	18.42	18.40		0	
20	16QAM	1	99	18.34	18.35	18.40	20.1	0	
20	16QAM	50	0	18.35	18.35	18.40		0	
20	16QAM	50	24	18.45	18.41	18.40	20.1	0	
20	16QAM	50	49	18.45	18.41	18.38		0	
20	16QAM	100	0	18.45	18.51	18.45	20.1	0	
20	16QAM	1	49	18.54	18.41	18.38		0	
20	256QAM	1	99	18.40	18.55	18.39	20.1	0	
20	256QAM	1	149	18.45	18.41	18.38		0	
20	256QAM	50	24	18.53	18.42	18.51	20.1	0	
20	256QAM	50	49	18.43	18.45	18.49		0	
20	256QAM	100	0	18.53	18.58	18.49	20.1	0	
20	256QAM	1	49	18.53	18.39	18.36		0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.32	18.30	18.37	20.1	0	
15	QPSK	1	49	18.40	18.38	18.36		0	
15	QPSK	1	99	18.40	18.38	18.27	20.1	0	
15	QPSK	36	0	18.19	18.60	18.11		0	
15	QPSK	36	24	18.27	18.35	18.31	20.1	0	
15	QPSK	36	39	18.36	18.38	18.35		0	
15	QPSK	75	0	18.47	18.39	18.35	20.1	0	
15	16QAM	1	49	18.42	18.32	18.32		0	
15	16QAM	1	37	18.52	18.45	18.33	20.1	0	
15	16QAM	1	74	18.49	18.38	18.33		0	
15	16QAM	36	24	18.32	18.38	18.29	20.1	0	
15	16QAM	36	20	18.21	18.28	18.15		0	
15	16QAM	75	0	18.18	18.51	18.37	20.1	0	
15	16QAM	1	0	18.25	18.41	18.32		0	
15	16QAM	1	49	18.35	18.42	18.35	20.1	0	
15	16QAM	1	74	18.27	18.42	18.26		0	
15	16QAM	36	0	18.32	18.57	18.46	20.1	0	
15	16QAM	36	39	18.37	18.37	18.35		0	
15	16QAM	75	0	18.43	18.45	18.44	20.1	0	
15	16QAM	1	49	18.52	18.38	18.35		0	
15	256QAM	1	37	18.33	18.24	18.22	20.1	0	
15	256QAM	1	74	18.30	18.39	18.19		0	
15	256QAM	36	24	18.30	18.43	18.32	20.1	0	
15	256QAM	36	20	18.41	18.34	18.32		0	
15	256QAM	75	0	18.42	18.34	18.27	20.1	0	
15	256QAM	1	49	18.42	18.35	18.13		0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.55	18.50	18.55	20.1	0	
10	QPSK	1	25	18.25	18.48	18.46		0	
10	QPSK	1	49	18.35	18.23	18.32	20.1	0	
10	QPSK	1	74	18.42	18.38	18.34		0	
10	QPSK	25	12	18.19	18.48	18.12	20.1	0	
10	QPSK	25	25	18.35	18.29	18.36		0	
10	QPSK	25	49	18.45	18.35	18.38	20.1	0	
10	16QAM	1	0	18.44	18.39	18.37		0	
10	16QAM	1	25	18.43	18.42	18.16	20.1	0	
10	16QAM	1	49	18.33	18.35	18.38		0	
10	16QAM	25	12	18.41	18.32	18.11	20.1	0	
10	16QAM	25	12	18.45	18.30	18.35		0	
10	16QAM	50	0	18.24	18.40	18.30	20.1	0	
10	16QAM	1	0	18.26	18.30	18.42		0	
10	16QAM	1	49	18.33	18.48	18.27	20.1	0	
10	16QAM	25	0	18.27	18.49	18.46		0	
10	16QAM	25	12	18.41	18.35	18.38	20.1	0	
10	16QAM	50	0	18.24	18.30	18.26		0	
10	256QAM	1	25	18.30	18.35	18.47	20.1	0	
10	256QAM	1	25	18.48	18.30	18.30		0	
10	256QAM	1	49	18.26	18.33	18.30	20.1	0	
10	256QAM	1	49	18.25	18.34	18.36		0	
10	256QAM	1	74	18.41	18.45	18.35	20.1	0	
10	256QAM	25	12	18.40	18.26	18.38		0	
10	256QAM	25	25	18.34	18.32	18.51	20.1	0	
10	256QAM	25	25	18.20	18.35	18.25		0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.55	18.50	18.55	20.1	0	
5	QPSK	1	12	18.26	18.49	18.36		0	
5	QPSK	1	24	18.29	18.35	18.33	20.1	0	
5	QPSK	1	36	18.30	18.41	18.37		0	
5	QPSK	12	7	18.26	18.50	18.12	20.1	0	
5	QPSK	12	13	18.40	18.29	18.27		0	
5	QPSK	12	13	18.29	18.32	18.36	20.1	0	
5	16QAM	1	0	18.36	18.28	18.30		0	
5	16QAM	1	12	18.51	18.36	18.28	20.1	0	
5	16QAM	1	12	18.28	18.41	18.38		0	
5	16QAM	12	0	18.38	18.57	18.36	20.1	0	
5	16QAM	12	7	18.31	18.42	18.14		0	
5	16QAM	12	13	18.44	18.37	18.18	20.1	0	
5	16QAM	25	0	18.13	18.39	18.33		0	
5	16QAM	1	0	18.38	18.35	18.24	20.1	0	
5	16QAM	1	0	18.20	18.22	18.42		0	
5	16QAM	1	24	18.36	18.54	18.16	20.1	0	
5	16QAM	12	0	18.29	18.42	18.26		0	
5	16QAM	12	13	18.27	18.34	18.21	20.1	0	
5	16QAM	25	0	18.33	18.43	18.39		0	
5	256QAM	1	12	18.36	18.28	18.19	20.1	0	
5	256QAM	1	24	18.20	18.50	18.18		0	
5	256QAM	12	13	18.48	18.26	18.37	20.1	0	
5	256QAM	12	7	18.45	18.21	18.31		0	
5	256QAM	12	13	18.30	18.20	18.41	20.1	0	
5	256QAM	25	0	18.24	18.28	18.25		0	
Channel									
Frequency (MHz)									
3	QPSK	1	0	18.51	18.55	18.54	20.1	0	
3	QPSK	1	8	18.30	18.40	18.46		0	
3	QPSK	1	14	18.28	18.25	18.26	20.1	0	
3	QPSK	8	4	18.38	18.41	18.18		0	
3	QPSK	8	4	18.18	18.58	18.17	20.1	0	
3	QPSK	8	7	18.27	18.37	18.39		0	
3	QPSK	8	7	18.30	18.43	18.26	20.1	0	
3	16QAM	1	0	18.28	18.27	18.29		0	
3	16QAM	1	8	18.42	18.41	18.29	20.1	0	
3	16QAM	1	8	18.18	18.30	18.13		0	
3	16QAM	8	0	18.43	18.40	18.31	20.1	0	
3	16QAM	8	4	18.29	18.31	18.18		0	
3	16QAM	15	0	18.39	18.39	18.31	20.1	0	
3	16QAM	15	0	18.34	18.38	18.32		0	
3	16QAM	1	0	18.42	18.39	18.43	20.1	0	
3	16QAM	1	0	18.20	18.23	18.42		0	
3	16QAM	1	14	18.27	18.49	18.17	20.1	0	
3	16QAM	8	0	18.32	18.40	18.36		0	
3	16QAM	8	4	18.34	18.36	18.35	20.1	0	
3	16QAM	8	7	18.39	18.31	18.30		0	
3	16QAM	1	0	18.48	18.47	18.44	20.1	0	
3	16QAM	1	0	18.48	18.54	18.25		0	
3	256QAM	1	8	18.52	18.57	18.19	20.1	0	
3	256QAM	12	13	18.40	18.27	18.34		0	
3	256QAM	8	0	18.40	18.41	18.34	20.1	0	
3	256QAM	8	4	18.32	18.41	18.47		0	
3	256QAM	15	0	18.39	18.44	18.43	20.1	0	
3	256QAM	15	0	18.30	18.37	18.24		0	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	18.44	18.57	18.51	20.1	0	
1.4	QPSK	1	8	18.31	18.42	18.44		0	
1.4	QPSK	1	16	18.30	18.41	18.42	20.1	0	
1.4	QPSK	3	0	18.23	18.50	18.19		0	
1.4	QPSK	3	8	18.44	18.48	18.40	20.1	0	
1.4	QPSK	3	16	18.37	18.47	18.39		0	
1.4	QPSK	6	0	18.37	18.28	18.31	20.1	0	
1.4	QPSK	6	8	18.32	18.34	18.33		0	
1.4	16QAM	1	0	18.24	18.51	18.22	20.1	0	
1.4	16QAM	1	8	18.28	18.39	18.25		0	
1.4	16QAM	1	16	18.38	18.36	18.29	20.1	0	
1.4	16QAM	3	0	18.46	18.26	18.26		0	
1.4	16QAM	3	8	18.43	18.34	18.43	20.1	0	
1.4	16QAM	3	16	18.22	18.32	18.19		0	
1.4	16QAM	6	0	18.48	18.26	18.29	20.1	0	
1.4	16QAM	6	8	18.36	18.26	18.30		0	
1.4	16QAM	15	0	18.31	18.47	18.32	20.1	0	
1.4	16QAM	15	0	18.40	18.36	18.32		0	
1.4	256QAM	1	8	18.47	18.38	18.39	20.1	0	
1.4	256QAM	1	16	18.44	18.25	18.33		0	
1.4	256QAM	3	0	18.28	18.31	18.19	20.1	0	
1.4	256QAM	3	8	18.40	18.41	18.42		0	
1.4	256QAM	6	0	18.31	18.43	18.27	20.1	0	
1.4	256QAM	6	8	18.34	18.24	18.36		0	
1.4	256QAM	15	0	18.36	18.47	18.48	20.1	0	
1.4	256QAM	15	0	18.36	18.47	18.48		0	



Band 38 Other PA Ant3 DSIS Simultaneous											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)			
Channel				37850	38050	38150					
Frequency (MHz)				21.54	21.64	21.67					
20	QPSK	1	0	21.54	21.64	21.67	23	0			
20	QPSK	1	48	21.62	21.63	21.63					
20	QPSK	1	88	21.54	21.59	21.72					
20	QPSK	50	0	21.70	21.70	21.70					
20	QPSK	50	24	21.60	21.68	21.70	23	0			
20	QPSK	50	48	21.60	21.73	21.68					
20	QPSK	100	0	21.56	21.77	21.76					
20	16QAM	1	0	21.67	21.63	21.67					
20	16QAM	1	48	21.60	21.73	21.63	23	0			
20	16QAM	1	99	21.43	21.62	21.64					
20	16QAM	50	0	20.77	20.79	20.79					
20	16QAM	50	24	20.85	20.83	20.84					
20	16QAM	50	50	20.59	20.79	20.85	22	1			
20	16QAM	100	0	20.57	20.79	20.85					
20	16QAM	100	1	20.57	20.73	20.85					
20	16QAM	100	1	20.57	20.73	20.85					
20	64QAM	1	48	20.83	20.76	20.88	22	1			
20	64QAM	1	99	20.73	20.83	20.85					
20	64QAM	50	0	19.70	19.74	19.76					
20	64QAM	50	24	19.58	19.67	19.65					
20	64QAM	50	50	19.58	19.70	19.76	21	2			
20	64QAM	100	0	19.48	19.77	19.48					
20	256QAM	1	0	17.87	18.80	17.85					
20	256QAM	1	48	17.70	17.89	17.93					
20	256QAM	1	99	17.65	17.73	17.59	19	4			
20	256QAM	1	48	17.66	17.68	17.67					
20	256QAM	50	0	17.66	17.68	17.63					
20	256QAM	50	24	17.63	17.65	17.63					
20	256QAM	50	50	17.63	17.67	17.77	19	4			
20	256QAM	100	0	17.61	17.67	17.77					
20	256QAM	100	0	17.61	17.67	17.77					
20	256QAM	100	0	17.61	17.67	17.77					
Channel				37850	38050	38150					
Frequency (MHz)				21.73	21.82	21.73					
15	QPSK	1	0	21.73 <td>21.82<td>21.73</td><td rowspan="4">23</td><td rowspan="4">0</td><td colspan="2"></td></td>	21.82 <td>21.73</td> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	21.73	23	0			
15	QPSK	1	37	21.85 <td>21.84<td>21.48</td><td colspan="2"></td></td>	21.84 <td>21.48</td> <td colspan="2"></td>	21.48					
15	QPSK	1	74	21.50 <td>21.80<td>21.62</td><td colspan="2"></td></td>	21.80 <td>21.62</td> <td colspan="2"></td>	21.62					
15	QPSK	36	0	21.80 <td>21.79<td>21.63</td><td colspan="2"></td></td>	21.79 <td>21.63</td> <td colspan="2"></td>	21.63					
15	QPSK	36	20	21.69 <td>21.79<td>21.63</td><td rowspan="4">23</td><td rowspan="4">0</td><td colspan="2"></td></td>	21.79 <td>21.63</td> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	21.63	23	0			
15	QPSK	36	38	21.66 <td>21.72<td>21.64</td><td colspan="2"></td></td>	21.72 <td>21.64</td> <td colspan="2"></td>	21.64					
15	QPSK	75	0	21.57 <td>21.78<td>21.76</td><td colspan="2"></td></td>	21.78 <td>21.76</td> <td colspan="2"></td>	21.76					
15	16QAM	1	0	21.68 <td>21.83<td>21.56</td><td colspan="2"></td></td>	21.83 <td>21.56</td> <td colspan="2"></td>	21.56					
15	16QAM	1	37	21.46 <td>21.89<td>21.68</td><td rowspan="4">23</td><td rowspan="4">0</td><td colspan="2"></td></td>	21.89 <td>21.68</td> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	21.68	23	0			
15	16QAM	1	74	21.51 <td>21.68<td>21.68</td><td colspan="2"></td></td>	21.68 <td>21.68</td> <td colspan="2"></td>	21.68					
15	16QAM	36	0	20.75 <td>20.74<td>20.78</td><td colspan="2"></td></td>	20.74 <td>20.78</td> <td colspan="2"></td>	20.78					
15	16QAM	36	20	20.75 <td>20.74<td>20.78</td><td colspan="2"></td></td>	20.74 <td>20.78</td> <td colspan="2"></td>	20.78					
15	16QAM	36	38	20.79 <td>20.80</td> <td>20.82</td> <td rowspan="4">22</td> <td rowspan="4">1</td> <td colspan="2"></td>	20.80	20.82	22	1			
15	16QAM	75	0	20.81 <td>20.76<td>20.83</td><td colspan="2"></td></td>	20.76 <td>20.83</td> <td colspan="2"></td>	20.83					
15	16QAM	75	0	20.75 <td>20.75<td>20.86</td><td colspan="2"></td></td>	20.75 <td>20.86</td> <td colspan="2"></td>	20.86					
15	16QAM	1	37	20.81 <td>20.89<td>20.86</td><td colspan="2"></td></td>	20.89 <td>20.86</td> <td colspan="2"></td>	20.86					
15	64QAM	1	0	20.84 <td>20.75<td>20.85</td><td rowspan="4">22</td><td rowspan="4">1</td><td colspan="2"></td></td>	20.75 <td>20.85</td> <td rowspan="4">22</td> <td rowspan="4">1</td> <td colspan="2"></td>	20.85	22	1			
15	64QAM	1	37	20.81 <td>20.89<td>20.86</td><td colspan="2"></td></td>	20.89 <td>20.86</td> <td colspan="2"></td>	20.86					
15	64QAM	1	74	20.84 <td>20.76<td>20.84</td><td colspan="2"></td></td>	20.76 <td>20.84</td> <td colspan="2"></td>	20.84					
15	64QAM	36	0	19.82	19.81	19.80					
15	64QAM	36	20	19.82	19.81	19.80	21	2			
15	64QAM	75	0	19.50	19.54	19.49					
15	64QAM	75	0	19.50	19.54	19.49					
15	64QAM	1	0	17.88	17.84	17.85					
15	256QAM	1	37	17.88	17.79	17.79	19	4			
15	256QAM	1	74	17.59	17.73	17.69					
15	256QAM	36	0	17.86	17.76	17.85					
15	256QAM	36	20	17.80	17.75	17.77					
15	256QAM	36	38	17.82	17.72	17.77	19	4			
15	256QAM	75	0	17.86	17.76	17.72					
15	256QAM	75	0	17.86	17.76	17.72					
15	256QAM	75	0	17.86	17.76	17.72					
Channel				37850	38050	38150					
Frequency (MHz)				25.15	25.16	25.15					
5	QPSK	1	0	25.15 <th>25.16</th> <th>25.15</th> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	25.16	25.15	23	0			
5	QPSK	1	25	25.14 <td>25.14<td>25.14</td><td colspan="2"></td></td>	25.14 <td>25.14</td> <td colspan="2"></td>	25.14					
5	QPSK	1	48	25.15 <td>25.19<td>25.17</td><td colspan="2"></td></td>	25.19 <td>25.17</td> <td colspan="2"></td>	25.17					
5	QPSK	36	0	25.16 <td>25.16<td>25.16</td><td colspan="2"></td></td>	25.16 <td>25.16</td> <td colspan="2"></td>	25.16					
5	QPSK	25	12	25.16 <td>25.14<td>25.17</td><td rowspan="4">23</td><td rowspan="4">0</td><td colspan="2"></td></td>	25.14 <td>25.17</td> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	25.17	23	0			
5	QPSK	25	12	25.16 <td>25.14<td>25.17</td><td colspan="2"></td></td>	25.14 <td>25.17</td> <td colspan="2"></td>	25.17					
5	QPSK	25	25	25.14 <td>25.15<td>25.15</td><td colspan="2"></td></td>	25.15 <td>25.15</td> <td colspan="2"></td>	25.15					
5	QPSK	50	0	25.16 <td>25.13<td>25.16</td><td colspan="2"></td></td>	25.13 <td>25.16</td> <td colspan="2"></td>	25.16					
5	16QAM	1	0	25.16 <td>25.13<td>25.16</td><td rowspan="4">23</td><td rowspan="4">0</td><td colspan="2"></td></td>	25.13 <td>25.16</td> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	25.16	23	0			
5	16QAM	1	25	25.14 <td>25.17<td>25.16</td><td colspan="2"></td></td>	25.17 <td>25.16</td> <td colspan="2"></td>	25.16					
5	16QAM	1	48	25.13 <td>25.14<td>25.14</td><td colspan="2"></td></td>	25.14 <td>25.14</td> <td colspan="2"></td>	25.14					
5	16QAM	25	0	20.86 <td>20.78<td>20.85</td><td colspan="2"></td></td>	20.78 <td>20.85</td> <td colspan="2"></td>	20.85					
5	16QAM	25	0	20.86 <td>20.77<td>20.85</td><td rowspan="4">22</td><td rowspan="4">1</td><td colspan="2"></td></td>	20.77 <td>20.85</td> <td rowspan="4">22</td> <td rowspan="4">1</td> <td colspan="2"></td>	20.85	22	1			
5	16QAM	25	0	20.86 <td>20.77<td>20.85</td><td colspan="2"></td></td>	20.77 <td>20.85</td> <td colspan="2"></td>	20.85					
5	16QAM	25	0	20.86 <td>20.77<td>20.85</td><td colspan="2"></td></td>	20.77 <td>20.85</td> <td colspan="2"></td>	20.85					
5	16QAM	25	0	20.86 <td>20.77<td>20.85</td><td colspan="2"></td></td>	20.77 <td>20.85</td> <td colspan="2"></td>	20.85					
5	64QAM	1	0	20.79 <td>20.78<td>20.81</td><td rowspan="4">22</td><td rowspan="4">1</td><td colspan="2"></td></td>	20.78 <td>20.81</td> <td rowspan="4">22</td> <td rowspan="4">1</td> <td colspan="2"></td>	20.81	22	1			
5	64QAM	1	25	20.68 <td>20.71<td>20.81</td><td colspan="2"></td></td>	20.71 <td>20.81</td> <td colspan="2"></td>	20.81					
5	64QAM	25	0	20.45 <td>20.47</td> <td>20.68</td> <td colspan="2"></td>	20.47	20.68					
5	64QAM	25	0	19.74	19.67	19.67					
5	64QAM	25	12	19.81	19.82	19.75	21	2			
5	64QAM	25	12	19.72	19.80	19.85					
5	64QAM	50	0	19.48	19.89	19.44					
5	64QAM	50	0	17.77	17.84	17.83					
5	256QAM	1	25	17.86	17.83	17.81	19	4			
5	256QAM	1	48	17.72	17.79	17.72					
5	256QAM	25	0	17.80	17.80	17.87					
5	256QAM	25	12	17.82	17.77	17.85					
5	256QAM	25	12	17.82	17.77	17.85	19	4			
5	256QAM	25	12	17.82	17.77	17.85					
5	256QAM	25	12	17.82	17.77	17.85					
5	256QAM	25	12	17.82	17.77	17.85					
Channel				37775	38060	38255					
Frequency (MHz)				21.65	21.74	21.65					
5	QPSK	12	0	21.65 <th>21.74</th> <th>21.65</th> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	21.74	21.65	23	0			
5	QPSK	12	12	21.45 <td>21.55</td> <td>21.43</td> <td colspan="2"></td>	21.55	21.43					
5	QPSK	12	24	21.45 <td>21.55</td> <td>21.54</td> <td colspan="2"></td>	21.55	21.54					
5	QPSK	12	36	21.45 <td>21.55</td> <td>21.54</td> <td colspan="2"></td>	21.55	21.54					
5	QPSK	12	48	21.68 <td>21.74<td>21.60</td><td rowspan="4">23</td><td rowspan="4">0</td><td colspan="2"></td></td>	21.74 <td>21.60</td> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	21.60	23	0			
5	QPSK	12	7	21.51 <td>21.62</td> <td>21.59</td> <td colspan="2"></td>	21.62	21.59					
5	16QAM	12	13	21.68 <td>21.70</td> <td>21.50</td> <td colspan="2"></td>	21.70	21.50					
5	16QAM	12	25	21.72	21.70	21.54					
5	16QAM	12	37	21.62 <td>21.71</td> <td>21.54</td> <td rowspan="4">23</td> <td rowspan="4">0</td> <td colspan="2"></td>	21.71	21.54	23	0			
5	16QAM	12	48	21.62 <td>21.69</td> <td>21.54</td> <td colspan="2"></td>	21.69	21.54					
5	16QAM	12	61	21.62 <td>21.69</td> <td>21.54</td> <td colspan="2"></td>	21.69	21.54					
5	16QAM	12	74	20.96 <td>20.97</td> <td>20.99</td> <td colspan="2"></td>	20.97	20.99					
5	16QAM	12	87	20.97 <td>20.72</td> <td>20.85</td> <td rowspan="4">22</td> <td rowspan="4">1</td> <td colspan="2"></td>	20.72	20.85	22	1			
5	16QAM	12	99	20.97 <td>20.72</td> <td>20.85</td> <td colspan="2"></td>	20.72	20.85					
5	16QAM	12	111	20.97 <td>20.72</td> <td>20.85</td> <td colspan="2"></td>	20.72	20.85					
5	16QAM	12	123	20.97 <td>20.72</td> <td>20.85</td> <td colspan="2"></td>	20.72	20.85					
5	64QAM	12	0	19.73 <td>19.77</td> <td>19.77</td> <td rowspan="4">21</td> <td rowspan="4">2</td> <td colspan="2"></td>	19.77	19.77	21	2			
5	64QAM	12	7	19.61	19.68	19.72					
5	64QAM	12	13	19.61	19.68	19.63					
5	64QAM	12	25	19.62	19.68	19.55					
5	256QAM	12	1	17.88	17.89	17.83	19	4			
5	256QAM	12	12	17.78	17.88	17.87					
5	256QAM	12	24	17.82	17.83	17.74					
5	256QAM	12	36	17.83	17.81	17.79					
5	256QAM	12	7	17.80	17.87	17.85	19	4			
5	256QAM	12	7	17.80	17.87	17.85					
5	256QAM	12	7	17.80	17.87	17.85					
5	256QAM	12	7	17.80	17.87	17.85					

Band 41 Other PA Ant3 DSIS Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Power Power Ch / Freq	Turn-up test (dBm)	MPR (dB)
Channel				38750	40185	40620	41068	41540		
Frequency (MHz)				21.66	21.78	21.51	21.56	21.61		
20	QPSK	1	0	21.66 <td>21.78<td>21.51</td><td>21.56</td><td>21.61</td><td></td><td></td></td>	21.78 <td>21.51</td> <td>21.56</td> <td>21.61</td> <td></td> <td></td>	21.51	21.56	21.61		
20	QPSK	1	48	21.59	21.55	21.66	21.66	21.59	23	0
20	QPSK	1	88	21.48	21.50	21.73	21.69	21.59		
20	QPSK	50	0	21.61	21.58	21.67	21.66	21.67		
20	QPSK	50	24	21.52	21.61	21.59	21.60	21.56		
20	QPSK	50	48	21.58	21.64	21.65	21.66	21.65	23	0
20	QPSK	100	0	21.56	21.57	21.70	21.64	21.66		
20	16QAM	1	0	21.61	21.66	21.65	21.77	21.63		
20	16QAM	1	48	21.59	21.55	21.66	21.66	21.59	23	0
20	16QAM	50	24	20.57	20.61	20.63	20.65	20.59		
20	16QAM	50	50	20.57	20.58	20.65	20.77	20.59	22	1
20	16QAM	100	0	20.57	20.57	20.63	20.65	20.59		
20	16QAM	100	1	20.58	20.61	20.63	20.65	20.59	22	1
20	64QAM	1	0	20.57	20.58	20.65	20.77	20.59		
20	64QAM	50	0	19.54	19.62	19.64	19.77	19.55		
20	64QAM	50	24	19.53	19.61	19.68	19.81	19.61		
20	64QAM	50	48	19.54	19.60	19.68	19.81	19.68	21	2
20	64QAM	100	0	19.48	19.53	19.68	19.59	19.43		
20	64QAM	100	1	19.52	19.58	19.60	19.63	19.49	21	2
20	256QAM	1	0	17.52	17.56	17.60	17.63	17.49		
20	256QAM	1	48	17.53	17.57	17.59	17.56	17.43	19	4
20	256QAM	1	88	17.44	17.52	17.62	17.49	17.46		
20	256QAM	50	0	17.52	17.57	17.59	17.56	17.43		
20	256QAM	50	24	17.45	17.45	17.61	17.46	17.62	19	4
20	256QAM	50	50	17.47	17.43	17.66	17.57	17.61		
20	256QAM	100	0	17.56	17.63	17.62	17.67	17.61		
Channel				38720	40173	40620	41068	41515		
Frequency (MHz)				21.66	21.78	21.51	21.57	21.62		
15	QPSK	1	0	21.66 <td>21.78<td>21.51</td><td>21.57<td>21.62</td><td></td><td></td></td></td>	21.78 <td>21.51</td> <td>21.57<td>21.62</td><td></td><td></td></td>	21.51	21.57 <td>21.62</td> <td></td> <td></td>	21.62		
15	QPSK	1	37	21.48	21.69	21.79	21.67	21.56		
15	QPSK	1	76	21.46	21.49	21.69	21.69	21.46		
15	QPSK	50	0	21.58	21.51	21.62	21.69	21.58		
15	QPSK	50	24	21.45	21.59	21.73	21.57	21.49		
15	QPSK	50	48	21.58	21.56	21.69	21.69	21.47		
15	QPSK	75	0	21.57	21.54	21.71	21.63	21.49		
15	16QAM	1	0	21.58	21.51	21.69	21.61	21.49		
15	16QAM	1	37	21.56	21.61	21.69	21.63	21.49	23	0
15	16QAM	1	74	21.49	21.67	21.71	21.66	21.50		
15	16QAM	50	0	20.52	20.58	20.71	20.76	20.50		
15	16QAM	50	24	20.58	20.71	20.69	20.76	20.54		
15	16QAM	50	48	20.51	20.63	20.73	20.75	20.50	22	1
15	16QAM	75	0	20.58	20.63	20.73	20.75	20.54		
15	64QAM	1	0	20.51	20.67	20.58	20.54	20.30		
15	64QAM	1	37	20.47	20.59	20.50	20.73	20.63	22	1
15	64QAM	50	24	20.56	20.75	20.69	20.76	20.67		
15	64QAM	50	48	19.51	19.75	19.75	19.66	19.68		
15	64QAM	50	20	19.58	19.66	19.62	19.47	19.47	21	2
15	64QAM	50	19	19.53	19.66	19.66	19.66	19.44		
15	64QAM	75	0	19.58	19.46	19.72	19.51	19.52		
15	256QAM	1	0	17.56	17.54	17.59	17.49	17.46		
15	256QAM	1	37	17.61	17.64	17.72	17.66	17.53	19	4
15	256QAM	1	74	17.60	17.51	17.62	17.63	17.49		
15	256QAM	50	0	17.56	17.56	17.62	17.62	17.50		
15	256QAM	50	20	17.42	17.52	17.61	17.51	17.54	19	4
15	256QAM	50	19	17.46	17.41	17.56	17.67	17.52		
15	256QAM	100	0	17.56	17.75	17.62	17.68	17.66		
Channel				38700	40160	40620	41068	41540		
Frequency (MHz)				21.61	21.74	21.63	21.59	21.64		
10	QPSK	1	0	21.61	21.74	21.63 <td>21.59</td> <td>21.64</td> <td></td> <td></td>	21.59	21.64		
10	QPSK	1	25	21.62	21.72	21.64	21.67	21.70	23	0
10	QPSK	1	49	21.57	21.65	21.64	21.67	21.70		
10	QPSK	25	0	21.69	21.64	21.74	21.62	21.73		
10	QPSK	25	12	21.56	21.66	21.63	21.64	21.49		
10	QPSK	25	25	21.41	21.57	21.67	21.67	21.49	23	0
10	QPSK	50	0	21.60	21.58	21.73	21.57	21.69		
10	16QAM	1	0	21.73	21.79	21.64	21.76	21.62		
10	16QAM	1	25	21.41	21.62	21.62	21.63	21.49		
10	16QAM	1	49	21.72	21.49	21.63	21.70	21.51		
10	16QAM	25	0	20.66	20.74	20.76	20.66	20.76		
10	16QAM	25	12	20.59	20.68	20.68	20.68	20.59	22	1
10	16QAM	25	25	20.47	20.53	20.62	20.70	20.65		
10	16QAM	50	0	20.57	20.71	20.69	20.69	20.50		
10	64QAM	1	0	20.65	20.74	20.61	20.77	20.73		
10	64QAM	1	25	20.72	20.53	20.51	20.63	20.73	22	1
10	64QAM	25	0	19.45	19.59	19.59	19.59	19.45		
10	64QAM	25	0	19.57	19.72	19.62	19.66	19.63		
10	64QAM	25	12	19.43	19.50	19.65	19.54	19.69		
10	64QAM	25	25	19.39	19.57	19.63	19.66	19.52	21	2
10	64QAM	50	0	19.66	19.64	19.54	19.65	19.49		
10	64QAM	50	0	17.54	17.54	17.66	17.59	17.54		
10	256QAM	1	0	17.46	17.69	17.58	17.47	17.59		
10	256QAM	1	49	17.53	17.60	17.55	17.66	17.54		
10	256QAM	25	0	17.48	17.53	17.66	17.57	17.54		
10	256QAM	25	12	17.46	17.45	17.72	17.66	17.49	19	4
10	256QAM	25	25	17.41	17.43	17.68	17.64	17.58		
10	256QAM	50	0	17.49	17.58	17.69	17.67	17.49		
Channel				38675	40140	40620	41068	41565		
Frequency (MHz)				21.51	21.60	21.70	21.74	21.84		
5	QPSK	1	0	21.51 <td>21.60<td>21.70<td>21.74<td>21.84<td></td><td></td></td></td></td></td>	21.60 <td>21.70<td>21.74<td>21.84<td></td><td></td></td></td></td>	21.70 <td>21.74<td>21.84<td></td><td></td></td></td>	21.74 <td>21.84<td></td><td></td></td>	21.84 <td></td> <td></td>		
5	QPSK	1	12	21.62	21.51	21.79	21.63	21.66	23	0
5	QPSK	1	24	21.42	21.56	21.69	21.63	21.66		
5	QPSK	12	0	21.53	21.60 <td>21.71</td> <td>21.61</td> <td>21.63</td> <td></td> <td></td>	21.71	21.61	21.63		
5	QPSK	12	7	21.58	21.65	21.60	21.75	21.69		
5	QPSK	25	0	21.53	21.68	21.68	21.73	21.44		
5	QPSK	25	0	21.53	21.67	21.73	21.61	21.69		
5	16QAM	1	0	21.60	21.60	21.72	21.73	21.60		
5	16QAM	1	12	21.41	21.62	21.70	21.60	21.49		
5	16QAM	1	24	21.65	21.64	21.63	21.57	21.47		
5	16QAM	12	0	20.57	20.68	20.76	20.68	20.54		
5	16QAM	12	7	20.47	20.62	20.78	20.49	20.62	22	1
5	16QAM	12	13	20.46	20.47	20.67	20.61	20.52		
5	16QAM	25	0	20.68	20.68	20.68	20.67	20.62		
5	64QAM	1	0	20.94	20.85	20.82	20.89	20.93		
5	64QAM	1	12	20.70	20.80	20.77	20.88	20.67	22	1
5	64QAM	1	24	20.68	20.68	20.77	20.77	20.74		
5	64QAM	12	0	19.54	19.62	19.70	19.62	19.73		
5	64QAM	12	7	19.43	19.49	19.58	19.57	19.48		
5	64QAM	12	13	19.43	19.67	19.73	19.66	19.73	21	2
5	64QAM	25	0	19.61	19.47	19.54	19.55	19.43		
5	256QAM	1	0	17.54	17.56	17.66	17.59	17.57		
5	256QAM	1	12	17.40	17.70	17.61	17.67	17.49		
5	256QAM	12	7	17.42	17.85	17.61	17.66	17.58	19	4
5	256QAM	12	13	17.46	17.53	17.56	17.66	17.57		
5	256QAM	25	0	17.49	17.60	17.69	17.67	17.49		



Band 2 Other PA Ant0 DSIS

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch/Freq	Power Mid Ch/Freq	Power High Ch/Freq	Time-up Int. (s)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	21.58	21.58	21.58	22.7	0
20	QPSK	1	20	21.60	21.59	21.59		
20	QPSK	1	40	21.62	21.60	21.61		
20	QPSK	1	60	21.64	21.62	21.63		
20	QPSK	1	80	21.66	21.64	21.65		
20	QPSK	1	100	21.68	21.66	21.67		
20	QPSK	1	120	21.70	21.68	21.69		
20	QPSK	1	140	21.72	21.70	21.71		
20	QPSK	1	160	21.74	21.72	21.73		
20	QPSK	1	180	21.76	21.74	21.75		
20	QPSK	1	200	21.78	21.76	21.77		
20	QPSK	1	220	21.80	21.78	21.79		
20	QPSK	1	240	21.82	21.80	21.81		
20	QPSK	1	260	21.84	21.82	21.83		
20	QPSK	1	280	21.86	21.84	21.85		
20	QPSK	1	300	21.88	21.86	21.87		
20	QPSK	1	320	21.90	21.88	21.89		
20	QPSK	1	340	21.92	21.90	21.91		
20	QPSK	1	360	21.94	21.92	21.93		
20	QPSK	1	380	21.96	21.94	21.95		
20	QPSK	1	400	21.98	21.96	21.97		
20	QPSK	1	420	22.00	21.98	21.99		
20	QPSK	1	440	22.02	22.00	22.01		
20	QPSK	1	460	22.04	22.02	22.03		
20	QPSK	1	480	22.06	22.04	22.05		
20	QPSK	1	500	22.08	22.06	22.07		
20	QPSK	1	520	22.10	22.08	22.09		
20	QPSK	1	540	22.12	22.10	22.11		
20	QPSK	1	560	22.14	22.12	22.13		
20	QPSK	1	580	22.16	22.14	22.15		
20	QPSK	1	600	22.18	22.16	22.17		
20	QPSK	1	620	22.20	22.18	22.19		
20	QPSK	1	640	22.22	22.20	22.21		
20	QPSK	1	660	22.24	22.22	22.23		
20	QPSK	1	680	22.26	22.24	22.25		
20	QPSK	1	700	22.28	22.26	22.27		
20	QPSK	1	720	22.30	22.28	22.29		
20	QPSK	1	740	22.32	22.30	22.31		
20	QPSK	1	760	22.34	22.32	22.33		
20	QPSK	1	780	22.36	22.34	22.35		
20	QPSK	1	800	22.38	22.36	22.37		
20	QPSK	1	820	22.40	22.38	22.39		
20	QPSK	1	840	22.42	22.40	22.41		
20	QPSK	1	860	22.44	22.42	22.43		
20	QPSK	1	880	22.46	22.44	22.45		
20	QPSK	1	900	22.48	22.46	22.47		
20	QPSK	1	920	22.50	22.48	22.49		
20	QPSK	1	940	22.52	22.50	22.51		
20	QPSK	1	960	22.54	22.52	22.53		
20	QPSK	1	980	22.56	22.54	22.55		
20	QPSK	1	1000	22.58	22.56	22.57		
20	QPSK	1	1020	22.60	22.58	22.59		
20	QPSK	1	1040	22.62	22.60	22.61		
20	QPSK	1	1060	22.64	22.62	22.63		
20	QPSK	1	1080	22.66	22.64	22.65		
20	QPSK	1	1100	22.68	22.66	22.67		
20	QPSK	1	1120	22.70	22.68	22.69		
20	QPSK	1	1140	22.72	22.70	22.71		
20	QPSK	1	1160	22.74	22.72	22.73		
20	QPSK	1	1180	22.76	22.74	22.75		
20	QPSK	1	1200	22.78	22.76	22.77		
20	QPSK	1	1220	22.80	22.78	22.79		
20	QPSK	1	1240	22.82	22.80	22.81		
20	QPSK	1	1260	22.84	22.82	22.83		
20	QPSK	1	1280	22.86	22.84	22.85		
20	QPSK	1	1300	22.88	22.86	22.87		
20	QPSK	1	1320	22.90	22.88	22.89		
20	QPSK	1	1340	22.92	22.90	22.91		
20	QPSK	1	1360	22.94	22.92	22.93		
20	QPSK	1	1380	22.96	22.94	22.95		
20	QPSK	1	1400	22.98	22.96	22.97		
20	QPSK	1	1420	23.00	22.98	22.99		
20	QPSK	1	1440	23.02	23.00	23.01		
20	QPSK	1	1460	23.04	23.02	23.03		
20	QPSK	1	1480	23.06	23.04	23.05		
20	QPSK	1	1500	23.08	23.06	23.07		
20	QPSK	1	1520	23.10	23.08	23.09		
20	QPSK	1	1540	23.12	23.10	23.11		
20	QPSK	1	1560	23.14	23.12	23.13		
20	QPSK	1	1580	23.16	23.14	23.15		
20	QPSK	1	1600	23.18	23.16	23.17		
20	QPSK	1	1620	23.20	23.18	23.19		
20	QPSK	1	1640	23.22	23.20	23.21		
20	QPSK	1	1660	23.24	23.22	23.23		
20	QPSK	1	1680	23.26	23.24	23.25		
20	QPSK	1	1700	23.28	23.26	23.27		
20	QPSK	1	1720	23.30	23.28	23.29		
20	QPSK	1	1740	23.32	23.30	23.31		
20	QPSK	1	1760	23.34	23.32	23.33		
20	QPSK	1	1780	23.36	23.34	23.35		
20	QPSK	1	1800	23.38	23.36	23.37		
20	QPSK	1	1820	23.40	23.38	23.39		
20	QPSK	1	1840	23.42	23.40	23.41		
20	QPSK	1	1860	23.44	23.42	23.43		
20	QPSK	1	1880	23.46	23.44	23.45		
20	QPSK	1	1900	23.48	23.46	23.47		
20	QPSK	1	1920	23.50	23.48	23.49		
20	QPSK	1	1940	23.52	23.50	23.51		
20	QPSK	1	1960	23.54	23.52	23.53		
20	QPSK	1	1980	23.56	23.54	23.55		
20	QPSK	1	2000	23.58	23.56	23.57		
20	QPSK	1	2020	23.60	23.58	23.59		
20	QPSK	1	2040	23.62	23.60	23.61		
20	QPSK	1	2060	23.64	23.62	23.63		
20	QPSK	1	2080	23.66	23.64	23.65		
20	QPSK	1	2100	23.68	23.66	23.67		
20	QPSK	1	2120	23.70	23.68	23.69		
20	QPSK	1	2140	23.72	23.70	23.71		
20	QPSK	1	2160	23.74	23.72	23.73		
20	QPSK	1	2180	23.76	23.74	23.75		
20	QPSK	1	2200	23.78	23.76	23.77		
20	QPSK	1	2220	23.80	23.78	23.79		
20	QPSK	1	2240	23.82	23.80	23.81		
20	QPSK	1	2260	23.84	23.82	23.83		
20	QPSK	1	2280	23.86	23.84	23.85		
20	QPSK	1	2300	23.88	23.86	23.87		
20	QPSK	1	2320	23.90	23.88	23.89		
20	QPSK	1	2340	23.92	23.90	23.91		
20	QPSK	1	2360	23.94	23.92	23.93		
20	QPSK	1	2380	23.96	23.94	23.95		
20	QPSK	1	2400	23.98	23.96	23.97		
20	QPSK	1	2420	24.00	23.98	23.99		
20	QPSK	1	2440	24.02	24.00	24.01		
20	QPSK	1	2460	24.04	24.02	24.03		
20	QPSK	1	2480	24.06	24.04	24.05		
20	QPSK	1	2500	24.08	24.06	24.07		
20	QPSK	1	2520	24.10	24.08	24.09		
20	QPSK	1	2540	24.12	24.10	24.11		
20	QPSK	1	2560	24.14	24.12	24.13		
20	QPSK	1	2580	24.16	24.14	24.15		
20	QPSK	1	2600	24.18	24.16	24.17		
20	QPSK	1	2620	24.20	24.18	24.19		
20	QPSK	1	2640	24.22	24.20	24.21		
20	QPSK	1	2660	24.24	24.22	24.23		
20	QPSK	1	2680	24.26	24.24	24.25		
20	QPSK	1	2700	24.28	24.26	24.27		
20	QPSK	1	2720	24.30	24.28	24.29		
20	QPSK	1	2740	24.32	24.30	24.31		
20	QPSK	1	2760	24.34	24.32	24.33		
20	QPSK	1	2780	24.36	24.34	24.35		
20	QPSK	1	2800	24.38	24.36	24.37		
20	QPSK	1	2820	24.40	24.38	24.39		
20	QPSK	1	2840	24.42	24.40	24.41		
20	QPSK	1	2860	24.44	24.42	24.43		
20	QPSK	1	2880	24.46	24.44	24.45		
20	QPSK	1	2900	24.48	24.46	24.47		
20	QPSK	1	2920	24.50	24.48	24.49		
20	QPSK	1	2940	24.52	24.50	24.51		
20	QPSK	1	2960	24.54	24.52	24.53		
20	QPSK	1	2980	24.56	24.54	24.55		
20	QPSK	1	3000	24.58	24.56	24.57		
20	QPSK	1	3020	24.60	24.58	24.59		
20	QPSK	1	3040	24.62	24.60	24.61		
20	QPSK	1	3060	24.64	24.62	24.63		
20	QPSK	1	3080	24.66	24.64	24.65		
20	QPSK	1	3100	24.68	24.66	24.67		
20	QPSK	1	3120	24.70	24.68	24.69		
20	QPSK	1	3140	24.72	24.70	24.71		
20	QPSK	1	3160	24.74	24.72	24.73		
20	QPSK	1	3180	24.76	24.74	24.75		
20	QPSK	1	3200	24.78	24.76	24.77		
20	QPSK	1	3220	24.80	24.78	24.79		
20	QPSK	1	3240	24.82	24.80	24.81		
20	QPSK	1	3260	24.84	24.82	24.83		
20	QPSK	1	3280	24.86	24.84	24.85		
20	QPSK	1	3300	24.88	24.86	24.87		
20	QPSK	1	3320	24.90	24.88	24.89		
20	QPSK	1	3340	24.92	24.90	24		



Band 38 Other PA Ant0 DSI5													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Frsq	Power Low Ch / Frsq	Power Low Ch / Frsq	Tune-up limit (dBm)	MFR (dB)					
Channel													
Frequency (MHz)				37965	38050	38165							
20	QPSK	1	0	20.33	20.50	20.45	21.7	0					
20	QPSK	1	48	20.24	20.48	20.31							
20	QPSK	5	0	20.35	20.49	20.36	21.7	0					
20	QPSK	5	48	20.32	20.47	20.31							
20	QPSK	50	0	20.34	20.47	20.36	21.7	0					
20	QPSK	50	24	20.30	20.47	20.31							
20	QPSK	100	0	20.30	20.50	20.44	21.7	0					
20	QPSK	100	0	20.38	20.39	20.32							
20	HQAM	1	0	20.37	20.45	20.36	21.7	0					
20	HQAM	1	96	20.37	20.45	20.36							
20	HQAM	50	0	20.37	20.49	20.36	21.7	0					
20	HQAM	50	24	20.35	20.44	20.29							
20	HQAM	100	0	20.38	20.47	20.36	21.7	0					
20	HQAM	100	0	20.38	20.41	20.36							
20	HQAM	50	0	20.37	20.37	20.34	21.7	0					
20	HQAM	50	24	20.34	20.37	20.34							
20	HQAM	50	50	20.38	20.34	20.24	21.7	0					
20	HQAM	50	50	20.32	20.44	20.29							
20	HQAM	100	0	20.38	20.34	20.18	21.7	0					
20	HQAM	100	0	20.28	20.24	20.18							
20	25QAM	1	0	18.31	18.26	18.26	19.7	2					
20	25QAM	1	48	18.35	18.37	18.35							
20	25QAM	5	0	18.31	18.30	18.24	19.7	2					
20	25QAM	5	48	18.35	18.21	18.21							
20	25QAM	50	0	18.31	18.19	18.17	19.7	2					
20	25QAM	50	24	18.11	18.19	18.17							
20	25QAM	50	50	18.13	18.28	18.13	19.7	2					
20	25QAM	50	50	18.13	18.28	18.13							
Channel													
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)				MFR (dB)		
15	QPSK	1	0	20.17	20.44	20.34	21.7	0					
15	QPSK	1	37	20.08	20.43	20.24							
15	QPSK	1	74	20.16	20.37	20.30	21.7	0					
15	QPSK	36	0	20.24	20.43	20.30							
15	QPSK	36	20	20.13	20.32	20.11	21.7	0					
15	QPSK	36	20	20.12	20.38	20.09							
15	QPSK	75	0	20.00	20.24	20.22	21.7	0					
15	QPSK	75	0	20.00	20.24	20.22							
15	HQAM	1	0	20.27	20.30	20.14	21.7	0					
15	HQAM	1	37	20.06	20.34	20.24							
15	HQAM	1	74	20.05	20.24	20.14	21.7	0					
15	HQAM	36	0	20.14	20.32	20.31							
15	HQAM	36	20	20.17	20.29	20.12	21.7	0					
15	HQAM	36	20	20.17	20.29	20.12							
15	HQAM	75	0	20.17	20.44	20.07	21.7	0					
15	HQAM	75	0	20.12	20.14	20.06							
15	HQAM	1	37	20.12	20.12	20.15	21.7	0					
15	HQAM	1	37	20.13	20.12	20.15							
15	HQAM	1	74	20.15	20.16	20.20	21.7	0					
15	HQAM	36	0	20.12	20.14	20.20							
15	HQAM	36	20	20.27	20.22	20.21	21.7	0					
15	HQAM	36	20	20.27	20.22	20.21							
15	HQAM	75	0	20.28	20.11	20.11	19.7	2					
15	HQAM	75	0	20.28	20.11	20.11							
15	25QAM	1	0	18.06	18.07	18.21	19.7	2					
15	25QAM	1	37	17.92	18.10	18.10							
15	25QAM	36	0	18.08	18.03	18.08	19.7	2					
15	25QAM	36	20	18.08	18.07	18.05							
15	25QAM	36	36	18.05	18.18	18.07	19.7	2					
15	25QAM	36	36	18.05	18.22	18.05							
Channel													
Frequency (MHz)				37925	38050	38100	Tune-up limit (dBm)	MFR (dB)					
10	QPSK	1	0	20.18	20.18	20.18	21.7	0					
10	QPSK	1	25	20.19	20.42	20.11							
10	QPSK	1	48	20.18	20.37	20.12	21.7	0					
10	QPSK	1	48	20.18	20.37	20.12							
10	QPSK	25	0	20.18	20.37	20.28	21.7	0					
10	QPSK	25	25	20.09	20.44	20.10							
10	HQAM	1	0	20.23	20.46	20.14	21.7	0					
10	HQAM	1	25	19.98	20.26	20.21							
10	HQAM	1	48	20.02	20.34	20.24	21.7	0					
10	HQAM	1	48	20.02	20.45	20.25							
10	HQAM	25	0	20.14	20.43	20.29	21.7	0					
10	HQAM	25	0	20.14	20.43	20.29							
10	HQAM	25	12	20.07	20.12	20.10	21.7	0					
10	HQAM	25	12	20.07	20.12	20.10							
10	HQAM	25	25	20.17	20.49	20.15	21.7	0					
10	HQAM	25	25	20.17	20.49	20.15							
10	HQAM	50	0	20.10	20.33	20.25	21.7	0					
10	HQAM	50	0	20.10	20.33	20.25							
10	HQAM	50	12	20.07	20.10	20.07	21.7	0					
10	HQAM	50	12	20.07	20.10	20.07							
10	HQAM	50	25	20.17	20.49	20.15	21.7	0					
10	HQAM	50	25	20.17	20.49	20.15							
10	HQAM	100	0	20.10	20.33	20.25	21.7	0					
10	HQAM	100	0	20.10	20.33	20.25							
10	HQAM	100	12	20.07	20.10	20.07	21.7	0					
10	HQAM	100	12	20.07	20.10	20.07							
10	HQAM	100	25	20.17	20.49	20.15	21.7	0					
10	HQAM	100	25	20.17	20.49	20.15							
10	HQAM	12	7	20.09	20.05	20.06	21.7	0					
10	HQAM	12	7	20.09	20.05	20.06							
10	HQAM	12	13	20.19	20.43	20.25	21.7	0					
10	HQAM	12	13	20.19	20.43	20.25							
10	HQAM	25	0	20.35	20.42	20.12	21.7	0					
10	HQAM	25	0	20.35	20.42	20.12							
10	HQAM	12	0	20.12	20.30	20.16	21.7	0					
10	HQAM	12	0	20.12	20.30	20.16							
10	HQAM	12	7	20.19	20.31	20.26	21.7	0					
10	HQAM	12	7	20.19	20.31	20.26							
10	HQAM	12	13	20.27	20.39	20.31	21.7	0					
10	HQAM	12	13	20.27	20.39	20.31							
10	HQAM	50	0	20.24	20.17	20.02	21.7	0					
10	HQAM	50	0	20.24	20.17	20.02							
10	HQAM	12	0	18.25	18.12	18.21	19.7	2					
10	HQAM	12	0	18.25	18.12	18.21							
10	25QAM	1	0	18.32	18.26	17.88	19.7	2					
10	25QAM	1	24	18.05	18.30	17.89							
10	25QAM	12	0	18.32	18.26	17.88	19.7	2					
10	25QAM	12	0	18.32	18.26	17.88							
10	25QAM	12	7	17.88	17.88	17.87	19.7	2					
10	25QAM	12	7	17.88	18.02	17.89							



Band 2 Other PA Ant1 DSI5

BW (MHz)	Modulation	RB Size	RB Offset	Power Max Ch / Freq	Power Min Ch / Freq	Power Min Ch / Freq	Turn-up Time (sec)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	18.90	18.15	18.10		
20	QPSK	1	49	17.70	18.07	17.77		
20	QPSK	1	99	17.72	17.89	17.97		
20	QPSK	1	0	17.87	18.13	17.89		
20	QPSK	50	0	17.83	17.87	17.83		
20	QPSK	50	50	17.88	17.89	18.04		
20	QPSK	100	0	17.79	18.03	17.97		
20	QPSK	100	50	17.71	18.12	17.87		
20	16QAM	1	49	17.81	17.83	17.96		
20	16QAM	1	99	17.71	17.86	17.91		
20	16QAM	1	0	17.70	18.07	17.77		
20	16QAM	50	24	17.69	17.79	17.97		
20	16QAM	50	50	17.83	17.86	17.76		
20	16QAM	100	0	17.82	18.16	17.99		
20	64QAM	1	0	17.73	17.90	17.88		
20	64QAM	1	49	17.74	17.83	17.85		
20	64QAM	1	99	17.83	18.16	17.92		
20	64QAM	50	0	17.78	17.94	18.07		
20	64QAM	50	24	17.77	17.82	17.87		
20	64QAM	50	50	17.85	17.91	17.97		
20	64QAM	100	0	17.65	17.77	17.76		
20	64QAM	100	50	17.81	18.16	17.95		
20	256QAM	1	99	17.68	17.79	17.96		
20	256QAM	1	0	17.68	17.79	17.96		
20	256QAM	50	24	17.73	18.11	17.93		
20	256QAM	50	50	17.71	17.86	17.97		
20	256QAM	100	0	17.68	17.89	17.95		
Channel								
Frequency (MHz)								
15	QPSK	1	0	17.90	18.09	18.03		
15	QPSK	1	49	17.80	18.09	17.78		
15	QPSK	1	99	17.87	17.81	18.04		
15	QPSK	36	0	17.70	17.95	17.89		
15	QPSK	36	36	17.48	17.91	17.78		
15	QPSK	36	36	17.66	17.78	17.92		
15	QPSK	75	0	17.64	17.96	17.84		
15	16QAM	1	0	17.57	18.06	17.84		
15	16QAM	1	37	17.76	17.71	17.92		
15	16QAM	1	74	17.72	17.86	17.94		
15	16QAM	36	0	17.69	17.98	17.78		
15	16QAM	36	20	17.64	17.72	17.98		
15	16QAM	36	0	17.72	18.10	17.80		
15	16QAM	75	0	17.63	17.75	17.76		
15	64QAM	1	0	17.53	17.93	17.88		
15	64QAM	1	74	17.73	18.03	17.84		
15	64QAM	36	0	17.77	17.87	18.01		
15	64QAM	36	0	17.70	17.92	17.98		
15	64QAM	36	36	17.95	18.11	17.95		
15	64QAM	75	0	17.79	17.88	17.73		
15	256QAM	1	37	17.72	17.90	17.90		
15	256QAM	1	74	17.84	17.75	17.80		
15	256QAM	36	0	17.78	17.85	17.96		
15	256QAM	36	20	17.74	17.58	17.78		
15	256QAM	36	39	17.59	17.68	17.98		
15	256QAM	75	0	17.67	17.87	17.75		
Channel								
Frequency (MHz)								
10	QPSK	1	0	18.65	18.69	18.65		
10	QPSK	1	25	17.74	17.87	18.00		
10	QPSK	1	49	17.86	17.88	17.96		
10	QPSK	25	0	17.78	17.92	17.96		
10	QPSK	25	12	17.82	17.94	17.97		
10	QPSK	25	25	17.67	17.78	17.82		
10	QPSK	25	12	17.76	17.88	17.98		
10	16QAM	1	0	17.70	18.03	17.99		
10	16QAM	1	25	17.69	17.87	18.04		
10	16QAM	1	0	17.68	17.97	17.99		
10	16QAM	25	12	17.82	17.81	17.85		
10	16QAM	25	12	17.84	17.95	17.96		
10	16QAM	50	0	17.74	17.98	17.78		
10	64QAM	1	0	17.68	17.85	17.76		
10	64QAM	1	49	17.68	17.93	17.86		
10	64QAM	25	0	17.70	17.83	18.05		
10	64QAM	25	0	17.83	17.96	17.97		
10	64QAM	25	25	17.69	17.66	17.77		
10	64QAM	50	0	17.68	17.88	17.77		
10	256QAM	1	25	17.72	17.88	17.86		
10	256QAM	1	49	17.68	17.87	17.86		
10	256QAM	25	12	17.71	17.91	17.89		
10	256QAM	25	25	17.51	17.60	17.89		
10	256QAM	50	0	17.64	17.77	17.72		
Channel								
Frequency (MHz)								
5	QPSK	1	0	18.62	18.66	18.67		
5	QPSK	1	12	17.74	18.11	17.91		
5	QPSK	1	24	17.83	17.75	17.88		
5	QPSK	75	0	17.83	17.86	17.86		
5	QPSK	12	7	17.83	17.81	17.76		
5	QPSK	12	13	17.80	17.86	17.99		
5	QPSK	12	13	17.45	17.73	17.78		
5	16QAM	1	0	17.91	18.09	17.97		
5	16QAM	1	12	17.84	17.77	18.03		
5	16QAM	1	0	17.81	17.83	17.94		
5	16QAM	12	0	17.63	17.87	17.86		
5	16QAM	12	7	17.56	17.71	17.87		
5	16QAM	12	13	17.61	17.72	17.98		
5	16QAM	25	0	17.82	17.98	17.86		
5	16QAM	25	0	17.90	17.86	17.97		
5	64QAM	1	0	17.79	17.82	17.87		
5	64QAM	1	24	17.80	17.89	17.76		
5	64QAM	12	0	17.83	18.04	18.01		
5	64QAM	12	0	17.73	17.89	17.81		
5	64QAM	12	13	17.75	17.87	17.91		
5	64QAM	25	0	17.72	17.81	17.84		
5	64QAM	25	0	17.82	18.05	17.81		
5	256QAM	1	12	17.83	17.89	17.96		
5	256QAM	1	24	17.76	17.91	17.96		
5	256QAM	12	0	17.59	17.78	17.89		
5	256QAM	12	7	17.63	18.02	17.99		
5	256QAM	25	0	17.52	17.76	17.82		
5	256QAM	25	0	17.64	17.79	17.85		
Channel								
Frequency (MHz)								
3	QPSK	1	0	17.67	18.05	17.90		
3	QPSK	1	8	17.92	18.00	17.87		
3	QPSK	1	14	17.78	17.65	17.86		
3	QPSK	8	0	17.66	17.86	17.86		
3	QPSK	8	4	17.75	17.80	17.85		
3	QPSK	8	7	17.84	17.82	17.90		
3	QPSK	8	7	17.65	17.74	17.97		
3	16QAM	1	0	17.52	17.89	17.76		
3	16QAM	1	8	17.71	17.72	17.85		
3	16QAM	8	0	17.66	17.78	17.84		
3	16QAM	8	4	17.72	17.98	17.55		
3	16QAM	8	4	17.71	17.71	17.78		
3	16QAM	15	0	17.81	17.71	17.89		
3	16QAM	15	0	17.86	18.08	17.81		
3	64QAM	1	0	17.79	17.82	17.91		
3	64QAM	1	14	17.85	17.82	17.84		
3	64QAM	8	0	17.73	17.82	17.82		
3	64QAM	8	7	17.77	18.03	17.65		
3	64QAM	8	0	17.66	17.81	17.72		
3	256QAM	1	8	17.77	17.89	17.89		
3	256QAM	1	14	17.85	17.89	17.89		
3	256QAM	8	0	17.92	17.99	17.80		
3	256QAM	8	4	17.70	17.85	18.05		
3	256QAM	8	7	17.70	17.89	17.84		
3	256QAM	15	0	17.68	17.82	17.83		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	18.67	18.69	18.67		
1.4	QPSK	1	3	17.94	18.00	17.95		
1.4	QPSK	1	3	17.78	18.13	17.96		
1.4	QPSK	1	5	17.69	17.76	17.86		
1.4	QPSK	3	0	17.67	17.88	17.82		
1.4	QPSK	3	1	17.67	17.84	17.90		
1.4	QPSK	3	1	17.69	17.96	17.90		
1.4	QPSK	3	1	17.72	17.78	17.93		
1.4	16QAM	1	0	17.69	18.03	17.99		
1.4	16QAM	1	3	17.61	17.72	17.89		
1.4	16QAM	1	3	17.55	17.95	17.95		
1.4	16QAM	3	0	17.54	17.89	17.87		
1.4	16QAM	3	0	17.64	17.85	17.87		
1.4	16QAM	3	3	17.56	17.85	17.69		
1.4	16QAM	3	0	17.78	18.06	17.78		
1.4	16QAM	3	0	17.85	17.77	17.82		
1.4	64QAM	1	0	17.80	17.87	17.99		
1.4	64QAM	1	5	17.79	17.81	17.93		
1.4	64QAM	3	0	17.80	17.83	17.86		
1.4	64QAM	3	3	17.83	18.05	17.77		
1.4	64QAM	3	3	17.85	17.88	17.76		
1.4	256QAM	1	0	17.56	17.72	17.83		
1.4	256QAM	1	3	17.73	17.86	17.82		
1.4	256QAM	1	3	17.81	17.72	17.84		
1.4	256QAM	3	0	17.86	18.13	17.87		
1.4	256QAM	3	1	17.77	17.85	18.07		
1.4	256QAM	3	1	17.71	17.81	17.78		
1.4	256QAM	6	0	17.49	17.78	17.91		



Band 38 Other PA Ant1 DS15										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel				37850	38050	38150				
20	QPSK	1	0	21.44	21.66	21.87	23.1	0		
20	QPSK	1	48	21.37	21.47	21.56				
20	QPSK	1	96	21.46	21.52	21.59				
20	QPSK	50	0	21.52	21.52	21.52				
20	QPSK	50	24	21.34	21.46	21.37	23.1	0		
20	QPSK	50	48	21.33	21.60	21.55				
20	QPSK	100	0	21.24	21.50	21.43				
20	QPSK	100	24	21.30	21.50	21.54				
20	HQAM	1	48	21.31	21.60	21.55	23.1	0		
20	HQAM	1	96	21.27	21.69	21.56				
20	HQAM	50	24	20.96	20.90	20.96				
20	HQAM	50	48	20.94	20.92	20.96				
20	HQAM	50	50	20.93	20.92	20.93	22.1	1		
20	HQAM	100	0	20.94	20.92	20.96				
20	HQAM	100	24	20.95	20.95	20.95				
20	HQAM	100	48	20.92	20.99	20.94				
20	HQAM	1	96	20.95	20.91	20.93	21.1	2		
20	HQAM	50	0	19.96	19.92	19.95				
20	HQAM	50	24	19.99	19.96	19.95				
20	HQAM	50	50	19.93	19.99	19.94				
20	HQAM	100	0	19.47	19.43	19.44	19.1	4		
20	HQAM	100	24	17.46	17.65	17.52				
20	HQAM	100	48	17.46	17.65	17.52				
20	HQAM	100	96	17.48	17.56	17.43				
20	HQAM	50	0	17.41	17.58	17.43	19.1	4		
20	HQAM	50	24	17.51	17.40	17.42				
20	HQAM	50	48	17.41	17.56	17.41				
20	HQAM	100	0	17.41	17.56	17.41				
Channel				37850	38050	38150	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	21.73	21.61	21.73	23.1	0		
15	QPSK	1	37	21.32	21.38	21.45				
15	QPSK	1	74	21.32	21.36	21.34				
15	QPSK	36	0	21.17	21.42	21.29				
15	QPSK	36	20	21.19	21.49	21.37	23.1	0		
15	QPSK	36	38	21.24	21.38	21.17				
15	QPSK	75	0	21.22	21.31	21.38				
15	HQAM	1	0	21.19	21.49	21.41				
15	HQAM	1	37	21.16	21.59	21.48	23.1	0		
15	HQAM	1	74	21.25	21.44	21.49				
15	HQAM	36	0	20.44	20.54	20.54				
15	HQAM	36	20	20.26	20.44	20.58				
15	HQAM	36	38	20.38	20.44	20.58	22.1	1		
15	HQAM	75	0	20.41	20.54	20.21				
15	HQAM	75	0	20.52	20.57	20.45				
15	HQAM	1	37	20.37	20.47	20.44				
15	HQAM	1	74	20.16	20.46	20.22	21.1	2		
15	HQAM	36	0	19.50	19.73	19.45				
15	HQAM	36	20	19.39	19.62	19.39				
15	HQAM	36	38	19.46	19.62	19.39				
15	HQAM	75	0	19.42	19.25	19.43	19.1	4		
15	HQAM	75	0	17.41	17.66	17.45				
15	HQAM	1	37	17.41	17.66	17.45				
15	HQAM	1	74	17.37	17.38	17.38				
15	HQAM	36	0	17.42	17.45	17.34	19.1	4		
15	HQAM	36	20	17.38	17.42	17.43				
15	HQAM	36	38	17.42	17.36	17.36				
15	HQAM	75	0	17.41	17.42	17.35				
Channel				25170	25170	25170	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	25.17	25.17	25.17	23.1	0		
10	QPSK	1	25	25.16	25.47	25.15				
10	QPSK	1	48	25.14	25.18	25.19				
10	QPSK	25	0	25.14	25.18	25.19				
10	QPSK	25	12	25.14	25.27	25.14	23.1	0		
10	QPSK	25	25	25.17	25.19	25.15				
10	HQAM	1	0	25.18	25.18	25.14				
10	HQAM	1	0	25.18	25.18	25.14				
10	HQAM	25	0	25.17	25.47	25.15	23.1	0		
10	HQAM	25	12	25.16	25.47	25.15				
10	HQAM	25	25	25.17	25.19	25.15				
10	HQAM	25	25	25.17	25.19	25.15				
10	HQAM	1	0	25.18	25.47	25.15	22.1	1		
10	HQAM	1	0	25.18	25.47	25.15				
10	HQAM	1	0	25.18	25.47	25.15				
10	HQAM	1	0	25.18	25.47	25.15				
10	HQAM	25	0	25.18	25.47	25.15	22.1	1		
10	HQAM	25	0	25.18	25.47	25.15				
10	HQAM	25	0	25.18	25.47	25.15				
10	HQAM	25	0	25.18	25.47	25.15				
10	HQAM	1	0	25.18	25.47	25.15	21.1	2		
10	HQAM	1	0	25.18	25.47	25.15				
10	HQAM	1	0	25.18	25.47	25.15				
10	HQAM	1	0	25.18	25.47	25.15				
10	HQAM	12	0	17.42	17.61	17.53	19.1	4		
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53	19.1	4		
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53	19.1	4		
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53	19.1	4		
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53				
10	HQAM	12	0	17.42	17.61	17.53				

Band 41 Other PA Ant1 DS15											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel				38970	40185	40620	41005	41480			
20	QPSK	1	0	21.49	21.48	21.70	21.63	21.68			
20	QPSK	1	48	21.40	21.31	21.59	21.63	21.55		23.1	0
20	QPSK	1	96	21.37	21.40	21.67	21.62	21.61			
20	QPSK	50	0	21.41	21.26	21.59	21.52	21.60			
20	QPSK	50	24	21.45	21.50	21.49	21.48	21.64		23.1	0
20	QPSK	50	48	21.41	21.52	21.45	21.45	21.63			
20	QPSK	100	0	21.45	21.48	21.66	21.62	21.52			
20	16QAM	1	0	21.46	21.27	21.68	21.48	21.53			
20	16QAM	1	96	21.30	21.35	21.67	21.41	21.53		23.1	0
20	16QAM	1	96	21.30	21.28	21.70	21.48	21.58			
20	16QAM	50	0	20.44	20.44	20.75	20.76	20.89			
20	16QAM	50	24	20.48	20.49	20.57	20.49	20.41			
20	16QAM	50	50	20.71	20.69	20.77	20.61	20.62		22.1	1
20	16QAM	100	0	20.48	20.37	20.86	20.47	20.58			
20	16QAM	100	24	20.55	20.72	20.48	20.74	20.47			
20	16QAM	1	48	20.58	20.63	20.77	20.73	20.47		22.1	1
20	16QAM	50	0	20.64	20.59	20.67	20.58	20.54			
20	16QAM	50	0	20.64	20.59	20.67	20.58	20.54			
20	16QAM	50	0	19.75	19.63	19.77	19.63	19.64			
20	16QAM	50	24	19.48	19.57	19.52	19.88	19.51		21.1	2
20	16QAM	50	24	19.48	19.57	19.52	19.88	19.49			
20	16QAM	100	0	19.49	19.68	19.71	19.83	19.43			
20	256QAM	1	0	17.61	17.66	17.60	17.73	17.47			
20	256QAM	1	48	17.43	17.52	17.59	17.42	17.37		19.1	4
20	256QAM	1	96	17.49	17.54	17.67	17.37	17.36			
20	256QAM	50	0	17.67	17.64	17.60	17.62	17.57			
20	256QAM	50	24	17.34	17.59	17.60	17.52	17.55		19.1	4
20	256QAM	100	0	17.48	17.57	17.64	17.47	17.43			
Channel				38970	40173	40620	41008	41515			
20	QPSK	1	0	21.41	21.43	21.73	21.67	21.63			
15	QPSK	1	37	21.26	21.33	21.60	21.46	21.36		23	0
15	QPSK	1	74	21.38	21.37	21.85	21.47	21.51			
15	QPSK	38	0	21.35	21.49	21.48	21.62	21.48		23.1	0
15	QPSK	38	20	21.43	21.20	21.65	21.44	21.60			
15	QPSK	38	20	21.42	21.31	21.65	21.44	21.60			
15	QPSK	75	0	21.27	21.30	21.45	21.60	21.31			
15	16QAM	1	0	21.27	21.19	21.62	21.38	21.41			
15	16QAM	1	37	21.15	21.22	21.49	21.34	21.38		23.1	0
15	16QAM	1	74	21.31	21.31	21.51	21.26	21.49			
15	16QAM	38	0	20.39	20.92	20.58	20.88	20.61			
15	16QAM	38	20	20.44	20.28	20.44	20.38	20.28		22.1	1
15	16QAM	38	38	20.53	20.43	20.61	20.59	20.53			
15	16QAM	75	0	20.64	20.59	20.77	20.63	20.56			
15	16QAM	1	37	20.55	20.56	20.69	20.57	20.58		22.1	1
15	16QAM	1	74	21.21	21.25	21.46	21.24	21.25			
15	16QAM	38	0	19.57	19.63	19.65	19.60	19.61			
15	16QAM	38	20	19.49	19.37	19.48	19.56	19.34		21.1	2
15	16QAM	38	20	19.38	19.44	19.44	19.44	19.38			
15	16QAM	75	0	19.38	19.54	19.67	19.48	19.32			
15	256QAM	1	0	17.51	17.60	17.38	17.64	17.29			
15	256QAM	1	37	17.38	17.47	17.47	17.41	17.34		19.1	4
15	256QAM	1	74	17.37	17.39	17.47	17.24	17.16			
15	256QAM	50	0	17.42	17.44	17.44	17.44	17.44			
15	256QAM	38	20	17.28	17.54	17.50	17.48	17.37			
15	256QAM	38	38	17.63	17.37	17.44	17.38	17.25			
15	256QAM	75	0	17.33	17.36	17.36	17.37	17.35			
Channel				38970	40160	40620	41008	41560			
20	QPSK	1	0	21.23	21.40	21.63	21.49	21.40			
10	QPSK	1	25	21.39	21.27	21.67	21.37	21.53			
10	QPSK	1	48	21.34	21.28	21.46	21.64	21.34			
10	QPSK	12	0	21.35	21.43	21.49	21.44	21.44			
10	QPSK	25	12	21.33	21.29	21.52	21.52	21.52		23.1	0
10	QPSK	25	12	21.34	21.28	21.46	21.62	21.34			
10	QPSK	50	0	21.38	21.38	21.48	21.45	21.51			
10	16QAM	1	0	21.40	21.47	21.44	21.45	21.53			
10	16QAM	1	48	21.20	21.26	21.48	21.48	21.54			
10	16QAM	1	49	21.40	21.44	21.58	21.63	21.51			
10	16QAM	25	0	20.44	20.45	20.74	20.68	20.65			
10	16QAM	25	12	20.48	20.48	20.68	20.68	20.68		22.1	1
10	16QAM	25	25	20.58	20.52	20.74	20.71	20.61			
10	16QAM	50	0	20.58	20.58	20.68	20.68	20.68			
10	16QAM	50	0	20.63	20.50	20.69	20.61	20.56			
10	16QAM	1	25	20.43	20.49	20.76	20.68	20.42		22.1	1
10	16QAM	1	48	20.63	20.57	20.68	20.68	20.61			
10	16QAM	25	0	19.60	19.50	19.73	19.60	19.61			
10	16QAM	25	12	19.27	19.38	19.47	19.83	19.22		21.1	2
10	16QAM	25	25	19.30	19.43	19.43	19.43	19.29			
10	16QAM	50	0	19.41	19.43	19.58	19.53	19.24			
10	256QAM	1	0	17.42	17.61	17.63	17.60	17.37			
10	256QAM	1	25	17.38	17.52	17.54	17.42	17.34		19.1	4
10	256QAM	1	48	17.53	17.50	17.59	17.28	17.20			
10	256QAM	25	0	17.46	17.56	17.56	17.47	17.47			
10	256QAM	25	12	17.30	17.57	17.42	17.37	17.32			
10	256QAM	25	25	17.45	17.46	17.63	17.40	17.32			
10	256QAM	50	0	17.56	17.47	17.47	17.47	17.47			
Channel				38970	40148	40620	41008	41565			
5	QPSK	1	0	21.23	21.43	21.63	21.59	21.40			
5	QPSK	1	12	21.20	21.24	21.37	21.56	21.37			
5	QPSK	1	24	21.35	21.31	21.53	21.38	21.54			
5	QPSK	12	7	21.43	21.27	21.53	21.53	21.53			
5	QPSK	12	7	21.47	21.42	21.48	21.47	21.45			
5	QPSK	25	13	21.33	21.33	21.48	21.48	21.45		23.1	0
5	QPSK	25	0	21.20	21.33	21.56	21.53	21.39			
5	16QAM	1	0	21.38	21.18	21.47	21.61	21.34			
5	16QAM	1	12	21.12	21.18	21.42	21.42	21.58		23.1	0
5	16QAM	1	24	21.22	21.16	21.48	21.63	21.52			
5	16QAM	12	0	20.40	20.52	20.85	20.83	20.69			
5	16QAM	12	12	20.48	20.48	20.68	20.68	20.68		22.1	1
5	16QAM	12	13	20.68	20.61	20.77	20.64	20.64			
5	16QAM	25	0	20.58	20.58	20.68	20.68	20.68			
5	16QAM	25	0	20.76	20.54	20.69	20.59	20.46			
5	16QAM	1	12	20.48	20.56	20.57	20.61	20.38		22.1	1
5	16QAM	1	24	20.74	20.62	20.62	20.70	20.58			
5	16QAM	12	0	19.86	19.46	19.72	19.57	19.48			
5	16QAM	12	7	19.48	19.45	19.30	19.89	19.41		21.1	2
5	16QAM	12	12	19.39	19.43	19.39	19.43	19.39			
5	16QAM	25	0	19.36	19.54	19.73	19.83	19.25			
5	256QAM	1	0	17.62	17.62	17.40	17.53	17.37			
5	256QAM	1	12	17.44	17.51	17.51	17.42	17.34		19.1	4
5	256QAM	1	24	17.37	17.57	17.59	17.28	17.20			
5	256QAM	12	0	17.46	17.60	17.60	17.60	17.46			
5	256QAM	12	7	17.25	17.55	17.50	17.51	17.46		19.1	4
5	256QAM	12	13	17.58	17.51	17.57	17.34	17.37			
5	256QAM	25	0	17.42	17.42	17.42	17.42	17.42			



Band 2 Other PA Ant2 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Hsp / Ch / Freqs	Power Hsp / Ch / Freqs	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.77	20.62	20.69	21	0		
20	QPSK	1	49	20.81	20.74	20.87				
20	QPSK	1	99	20.83	20.69	20.87	21	0		
20	QPSK	1	50	20.72	20.57	20.74				
20	QPSK	50	0	20.81	20.72	20.84	21	0		
20	QPSK	50	49	20.87	20.67	20.89				
20	QPSK	100	0	20.84	20.65	20.82	21	0		
20	QPSK	100	49	20.89	20.49	20.90				
20	16QAM	1	49	20.36	20.43	20.33	21	0		
20	16QAM	1	99	20.38	20.30	20.35				
20	16QAM	50	0	20.18	20.22	20.19	21	0		
20	16QAM	50	49	20.26	20.14	20.24				
20	16QAM	50	50	20.08	20.10	20.04	21	0		
20	16QAM	100	0	20.07	20.12	20.04				
20	64QAM	1	0	20.55	20.50	20.46	21	0		
20	64QAM	1	49	20.46	20.53	20.44				
20	64QAM	1	99	20.37	20.40	20.30	21	0		
20	64QAM	50	0	19.04	19.14	19.05				
20	64QAM	50	24	19.00	19.14	19.00	20	1		
20	64QAM	50	50	19.05	19.10	19.11				
20	64QAM	100	0	19.05	19.11	19.06	18	3		
20	64QAM	100	49	19.15	19.20	19.22				
20	256QAM	1	49	17.15	17.27	17.16	18	3		
20	256QAM	1	99	17.07	17.22	17.18				
20	256QAM	50	0	17.23	17.28	17.24	18	3		
20	256QAM	50	24	17.04	17.13	17.00				
20	256QAM	50	50	17.16	17.19	17.08	20	1		
20	256QAM	100	0	17.24	17.29	17.25				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.67	19.60	19.75	21	0		
15	QPSK	1	49	19.67	19.60	19.75				
15	QPSK	1	99	19.73	19.72	19.76	21	0		
15	QPSK	1	50	19.63	19.71	19.67				
15	QPSK	50	0	19.70	19.72	19.62	21	0		
15	QPSK	50	49	19.70	19.66	19.68				
15	QPSK	50	50	19.59	19.64	19.59	21	0		
15	QPSK	100	0	19.66	19.70	19.68				
15	QPSK	100	49	19.74	19.74	19.61	21	0		
15	QPSK	100	50	19.59	19.54	19.58				
15	16QAM	1	49	19.59	19.54	19.58	21	0		
15	16QAM	1	99	19.61	19.58	19.65				
15	16QAM	50	0	19.63	19.71	19.67	21	0		
15	16QAM	50	24	19.66	19.74	19.58				
15	16QAM	50	50	19.59	19.66	19.48	21	0		
15	16QAM	100	0	19.60	19.70	19.61				
15	16QAM	100	49	19.70	19.63	19.70	21	0		
15	16QAM	100	50	19.59	19.63	19.62				
15	64QAM	1	0	19.60	19.61	19.59	21	0		
15	64QAM	1	49	19.74	19.70	19.61				
15	64QAM	1	99	19.67	19.74	19.62	21	0		
15	64QAM	50	0	19.67	19.72	19.60				
15	64QAM	50	24	19.54	19.60	19.51	21	0		
15	64QAM	50	50	19.59	19.66	19.48				
15	64QAM	100	0	19.56	19.68	19.51	21	0		
15	64QAM	100	49	19.70	19.63	19.70				
15	256QAM	1	49	16.58	16.68	16.55	18	3		
15	256QAM	1	99	16.69	16.71	16.52				
15	256QAM	50	0	16.73	16.78	16.61	18	3		
15	256QAM	50	24	16.55	16.61	16.40				
15	256QAM	50	50	16.56	16.59	16.61	18	3		
15	256QAM	100	0	16.56	16.59	16.58				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.68	20.72	20.69	21	0		
20	QPSK	1	49	20.68	20.72	20.69				
20	QPSK	1	99	20.68	20.69	20.68	21	0		
20	QPSK	1	50	20.68	20.74	20.67				
20	QPSK	12	7	20.47	20.61	20.49	21	0		
20	QPSK	12	13	20.43	20.59	20.48				
20	QPSK	12	19	20.43	20.59	20.48	21	0		
20	QPSK	12	25	20.43	20.59	20.48				
20	16QAM	1	0	20.25	20.34	20.24	21	0		
20	16QAM	1	12	20.29	20.29	20.29				
20	16QAM	1	18	20.27	20.27	20.27	21	0		
20	16QAM	1	24	20.05	20.18	20.09				
20	16QAM	12	7	19.99	20.09	19.91	21	0		
20	16QAM	12	13	19.97	20.08	19.98				
20	16QAM	12	19	19.97	20.08	19.98	21	0		
20	16QAM	12	25	19.97	20.08	19.98				
20	16QAM	1	0	20.50	20.48	20.41	21	0		
20	16QAM	1	12	20.43	20.47	20.41				
20	16QAM	1	18	20.43	20.47	20.41	21	0		
20	16QAM	1	24	20.33	20.43	20.34				
20	16QAM	12	0	19.90	19.17	19.11	20	1		
20	16QAM	12	12	19.93	19.18	19.18				
20	16QAM	12	18	19.95	19.18	19.18	20	1		
20	16QAM	12	24	19.95	19.18	19.18				
20	256QAM	1	0	17.11	17.11	17.09	18	3		
20	256QAM	1	12	17.12	17.24	17.02				
20	256QAM	1	18	17.12	17.24	17.02	18	3		
20	256QAM	1	24	17.07	17.20	17.02				
20	256QAM	12	0	17.07	17.20	17.02	18	3		
20	256QAM	12	12	17.05	17.08	16.88				
20	256QAM	12	18	17.05	17.08	16.88	18	3		
20	256QAM	12	24	17.05	17.08	16.88				
20	256QAM	25	0	17.00	17.13	16.93	20	1		
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.67	19.60	19.75			21	0
3	QPSK	1	49	19.67	19.60	19.75				
3	QPSK	1	99	19.73	19.72	19.76	21	0		
3	QPSK	1	50	19.63	19.71	19.67				
3	QPSK	8	4	20.61	20.58	20.53	21	0		
3	QPSK	8	12	20.61	20.58	20.53				
3	QPSK	15	6	20.43	20.37	20.39	21	0		
3	QPSK	15	14	20.43	20.37	20.39				
3	16QAM	1	0	20.30	20.41	20.31	21	0		
3	16QAM	1	49	20.30	20.41	20.31				
3	16QAM	8	0	20.08	20.18	20.16	21	0		
3	16QAM	8	4	20.07	20.18	20.16				
3	16QAM	8	7	19.96	20.08	20.02	21	0		
3	16QAM	8	14	20.22	20.05	20.33				
3	16QAM	1	0	20.30	20.41	20.31	21	0		
3	16QAM	1	49	20.30	20.41	20.31				
3	16QAM	8	0	19.92	20.05	19.92	21	0		
3	16QAM	8	4	19.92	20.05	19.92				
3	16QAM	8	7	19.96	20.08	20.02	21	0		
3	16QAM	8	14	20.22	20.05	20.33				
3	64QAM	1	0	20.50	20.50	20.49	21	0		
3	64QAM	1	49	20.50	20.50	20.49				
3	64QAM	8	0	19.82	19.95	19.85	20	1		
3	64QAM	8	4	19.87	19.95	19.85				
3	64QAM	8	7	19.91	19.95	19.85	20	1		
3	64QAM	8	14	19.91	19.95	19.85				
3	256QAM	1	0	17.08	17.17	17.11	18	3		
3	256QAM	1	49	17.08	17.17	17.11				
3	256QAM	15	0	17.13	17.17	17.13	18	3		
3	256QAM	15	49	17.02	17.18	17.02				
3	256QAM	8	7	17.11	17.08	17.01	18	3		
3	256QAM	15	0	16.84	17.08	17.02				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.73	20.76	20.69	21	0		
1.4	QPSK	1	49	20.49	20.63	20.61				
1.4	QPSK	1	99	20.52	20.67	20.67	21	0		
1.4	QPSK	1	50	20.57	20.62	20.62				
1.4	QPSK	3	0	20.59	20.69	20.65	21	0		
1.4	QPSK	3	49	20.59	20.69	20.65				
1.4	QPSK	3	99	20.53	20.63	20.62	21	0		
1.4	QPSK	3	50	20.53	20.63	20.62				
1.4	QPSK	6	0	20.48	20.61	20.53	21	0		
1.4	QPSK	6	49	20.48	20.61	20.53				
1.4	16QAM	1	0	20.26	20.35	20.29	21	0		
1.4	16QAM	1	49	20.29	20.35	20.30				
1.4	16QAM	1	99	20.24	20.32	20.22	21	0		
1.4	16QAM	1	50	20.24	20.32	20.22				
1.4	16QAM	3	0	20.02	20.15	19.95	21	0		
1.4	16QAM	3	49	20.03	20.15	20.02				
1.4	16QAM	3	99	20.03	20.15	20.02	21	0		
1.4	16QAM	3	50	20.03	20.15	20.02				
1.4	16QAM	6	0	20.49	20.50	20.43	21	0		
1.4	16QAM	6	49	20.49	20.50	20.43				
1.4	16QAM	6	99	20.38	20.49	20.33	21	0		
1.4	16QAM	6	50	20.38	20.49	20.33				
1.4	16QAM	6	0	18.89	19.02	18.96	20	1		
1.4	16QAM	6	49	18.91	19.02	18.96				
1.4	256QAM	1	0	17.04	17.14	17.07	18	3		
1.4	256QAM	1	49	17.04	17.14	17.07				
1.4	256QAM	3	0	17.02	17.18	17.02	18	3		
1.4	256QAM	3	49	17.02	17.18	17.02				
1.4	256QAM	3	99	17.11	17.08	16.99	18	3		
1.4	256QAM	3	50	17.11	17.08	16.99				



Band 38 Other PA Ant2 DSI5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel											
				37465	38050	38150					
Frequency (MHz)											
20	QPSK	1	0	22.03	22.05	22.01	23	0			
20	QPSK	1	48	21.91	21.97	21.87					
20	QPSK	1	88	21.87	21.92	21.81	22	1			
20	QPSK	50	0	20.95	21.04	20.90					
20	QPSK	50	24	20.90	20.98	20.90	22	1			
20	QPSK	50	48	20.84	20.99	20.90					
20	QPSK	100	0	21.05	21.11	20.99	22	1			
20	HQAM	1	0	20.91	21.05	20.96					
20	HQAM	1	48	20.99	21.02	20.92	22	1			
20	HQAM	1	88	20.92	21.00	20.89					
20	HQAM	50	24	19.94	20.00	19.97	21	2			
20	HQAM	50	50	19.94	20.00	19.91					
20	HQAM	100	0	20.04	20.10	20.00	21	2			
20	HQAM	1	48	20.02	20.07	19.94					
20	HQAM	1	88	19.95	20.03	19.90	21	2			
20	HQAM	50	0	19.98	19.11	19.95					
20	HQAM	50	24	19.96	19.02	19.87	20	3			
20	HQAM	50	50	19.94	19.07	19.89					
20	HQAM	100	0	19.91	18.99	19.87	18	5			
20	25QAM	1	0	17.06	17.13	17.09					
20	25QAM	1	48	17.07	17.10	17.04	18	5			
20	25QAM	1	88	16.90	17.05	16.93					
20	25QAM	50	0	16.93	17.05	16.90	18	5			
20	25QAM	50	24	16.84	16.95	16.83					
20	25QAM	50	50	16.88	17.01	16.88	18	5			
20	25QAM	100	0	16.94	17.00	16.91					
Channel											
				37475	38060	38175					
Frequency (MHz)											
15	QPSK	1	0	22.03	22.01	21.93	23	0			
15	QPSK	1	37	21.76	21.84	21.77					
15	QPSK	1	74	21.70	21.86	21.71	22	1			
15	QPSK	36	0	20.83	20.95	20.86					
15	QPSK	36	20	20.86	20.89	20.80	22	1			
15	QPSK	36	38	20.73	20.81	20.77					
15	QPSK	75	0	21.01	21.00	20.91	22	1			
15	HQAM	1	0	20.98	21.01	20.97					
15	HQAM	1	37	20.76	20.89	20.80	22	1			
15	HQAM	1	74	20.77	20.92	20.77					
15	HQAM	36	0	19.85	19.96	19.86	21	2			
15	HQAM	36	38	19.85	19.92	19.80					
15	HQAM	36	39	19.80	19.93	19.84	21	2			
15	HQAM	75	0	19.83	19.89	19.82					
15	HQAM	75	0	19.85	19.97	19.85	20	3			
15	HQAM	36	0	19.85	19.97	19.85					
15	HQAM	36	20	19.88	19.90	19.83	20	3			
15	HQAM	36	38	19.85	19.92	19.80					
15	HQAM	75	0	19.86	19.95	19.73	18	5			
15	25QAM	1	0	19.86	19.97	19.86					
15	25QAM	1	37	19.85	19.92	19.80	18	5			
15	25QAM	1	74	19.79	19.90	19.88					
15	25QAM	36	0	19.81	19.93	19.87	18	5			
15	25QAM	36	20	19.75	19.82	19.77					
15	25QAM	36	39	19.76	19.92	19.81	18	5			
15	25QAM	75	0	19.80	19.91	19.80					
Channel											
				37495	38080	38205					
Frequency (MHz)											
5	QPSK	1	0	21.91	21.95	21.88	23	0			
5	QPSK	1	25	21.78	21.85	21.77					
5	QPSK	1	48	21.80	21.76	21.66	22	1			
5	QPSK	25	0	20.86	20.95	20.86					
5	QPSK	25	12	20.87	20.94	20.87	22	1			
5	QPSK	25	25	20.72	20.79	20.81					
5	QPSK	50	0	20.96	21.00	20.91	22	1			
5	HQAM	1	0	20.77	21.00	20.91					
5	HQAM	1	25	20.76	20.88	20.80	22	1			
5	HQAM	1	48	20.79	20.89	20.74					
5	HQAM	25	0	19.90	19.98	19.92	21	2			
5	HQAM	25	12	19.78	19.92	19.85					
5	HQAM	25	25	19.83	19.96	19.85	21	2			
5	HQAM	50	0	19.81	19.92	19.87					
5	HQAM	25	0	19.86	20.07	19.89	21	2			
5	HQAM	25	12	19.79	19.90	19.80					
5	HQAM	1	0	19.98	20.07	19.91	20	3			
5	HQAM	1	12	19.87	19.94	19.81					
5	HQAM	1	24	19.94	19.98	19.81	18	5			
5	HQAM	12	0	19.83	19.93	19.79					
5	HQAM	12	13	19.87	19.94	19.81	18	5			
5	HQAM	12	25	19.80	19.97	19.84					
5	25QAM	1	0	16.93	17.05	16.96	18	5			
5	25QAM	1	12	16.93	16.95	17.01					
5	25QAM	1	24	16.82	16.91	16.81	18	5			
5	25QAM	12	0	16.82	17.02	16.83					
5	25QAM	12	7	16.75	16.86	16.71	18	5			
5	25QAM	12	13	16.85	16.97	16.78					
5	25QAM	25	0	16.90	16.90	16.84					

Band 41 Other PA Ant2 DSI5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MFR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41060	41500	41940		
15	QPSK	1	0	22.07	22.17	22.23	22.15	22.15	22.21	23	0
15	QPSK	1	48	21.91	22.14	22.27	22.18	22.21			
15	QPSK	1	88	22.00	22.17	22.31	22.11	22.11			
15	QPSK	50	0	20.90	21.10	21.30	21.17	21.17			
15	QPSK	50	24	20.91	21.13	21.24	21.17	21.17			
15	QPSK	50	48	20.87	21.07	21.15	21.09	21.09			
15	QPSK	100	0	21.03	21.26	21.39	21.15	21.15			
15	16QAM	1	0	21.22	21.38	21.42	21.33	21.27			
15	16QAM	1	99	21.13	21.31	21.37	21.27	21.27			
15	16QAM	1	99	21.10	21.27	21.32	21.22	21.24			
15	16QAM	50	0	20.92	20.23	20.22	20.22	20.11			
15	16QAM	50	24	20.10	20.20	20.23	20.11	20.10			
15	16QAM	50	50	19.96	20.15	20.28	20.15	20.15			
15	16QAM	100	0	20.94	20.26	20.24	20.14	20.09			
15	64QAM	1	48	20.08	20.21	20.36	20.26	20.16			
15	64QAM	1	99	19.97	20.15	20.32	20.20	20.16			
15	64QAM	50	0	19.28	19.27	19.35	19.23	19.17			
15	64QAM	50	24	19.01	19.21	19.26	19.13	19.10			
15	64QAM	50	48	19.01	19.26	19.31	19.18	19.20			
15	64QAM	100	0	19.98	19.17	19.23	19.13	19.07			
15	256QAM	1	0	17.20	17.27	17.34	17.23	17.14			
15	256QAM	1	17	17.14	17.24	17.31	17.23	17.16			
15	256QAM	1	56	19.82	17.13	17.26	17.20	17.01			
15	256QAM	50	0	17.17	17.28	17.35	17.27	17.24			
15	256QAM	50	24	19.84	17.18	17.26	17.21	17.07			
15	256QAM	50	50	19.87	17.17	17.32	17.24	17.11			
15	256QAM	100	0	17.18	17.27	17.34	17.26	17.17			
Channel											
Frequency (MHz)				39725	40173	40620	41068	41515	41960	Turn-up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.08	22.17	22.23	22.16	22.13			
15	QPSK	1	37	21.80	22.07	22.19	22.09	22.11			
15	QPSK	1	76	21.87	22.02	22.08	22.06	21.98			
15	QPSK	50	0	20.87	21.07	21.15	21.04	21.04			
15	QPSK	50	24	20.79	21.08	21.17	21.05	21.03			
15	QPSK	50	48	20.78	21.05	21.11	21.04	21.03			
15	QPSK	75	0	20.90	21.11	21.32	21.22	20.99			
15	16QAM	1	0	21.12	21.31	21.29	21.22	21.19			
15	16QAM	1	37	21.05	21.17	21.23	21.14	21.12			
15	16QAM	1	74	20.96	21.20	21.26	21.14	21.12			
15	16QAM	50	0	19.98	20.15	20.22	20.12	20.03			
15	16QAM	50	24	19.98	20.14	20.23	20.10	20.07			
15	16QAM	50	48	19.94	20.11	20.22	20.11	20.02			
15	16QAM	75	0	19.74	19.96	19.99	19.87	19.84			
15	64QAM	1	0	20.11	20.30	20.30	20.21	20.25			
15	64QAM	1	37	20.02	20.11	20.23	20.21	20.34			
15	64QAM	1	74	19.98	20.06	20.20	20.21	20.36			
15	64QAM	50	0	19.87	19.18	19.28	19.18	19.13			
15	64QAM	50	24	19.86	19.08	19.15	19.09	19.12			
15	64QAM	50	48	19.91	19.19	19.27	19.12	19.17			
15	64QAM	75	0	19.84	19.08	19.11	19.01	18.96			
15	256QAM	1	0	17.26	17.28	17.35	17.26	17.17			
15	256QAM	1	37	16.94	17.16	17.27	17.14	17.05			
15	256QAM	1	74	16.78	17.08	17.18	17.13	16.98			
15	256QAM	50	0	17.16	17.26	17.33	17.24	17.15			
15	256QAM	50	24	16.88	17.10	17.16	17.17	16.98			
15	256QAM	50	48	16.91	17.04	17.21	17.16	16.97			
15	256QAM	100	0	17.18	17.06	17.26	17.13	17.06			
Channel											
Frequency (MHz)				39700	40160	40620	41060	41540	41940	Turn-up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.09	22.17	22.23	22.16	22.16			
15	QPSK	1	25	21.86	22.07	22.14	22.09	21.95			
15	QPSK	1	64	21.88	22.02	22.08	22.06	21.96			
15	QPSK	25	0	20.88	21.14	21.15	21.05	20.96			
15	QPSK	25	12	20.88	21.00	21.09	21.09	20.98			
15	QPSK	25	37	20.87	21.05	21.11	21.03	21.02			
15	QPSK	50	0	20.98	21.18	21.33	21.22	21.04			
15	16QAM	1	0	21.13	21.28	21.28	21.21	21.07			
15	16QAM	1	25	21.04	21.18	21.23	21.14	21.07			
15	16QAM	1	48	20.95	21.18	21.28	21.11	21.30			
15	16QAM	50	0	19.98	20.09	20.21	20.10	20.03			
15	16QAM	50	12	19.98	20.12	20.21	20.04	20.06			
15	16QAM	50	25	19.84	20.04	20.20	20.09	20.02			
15	16QAM	75	0	19.75	19.91	19.97	19.82	19.85			
15	64QAM	1	0	20.13	20.32	20.28	20.22	20.11			
15	64QAM	1	25	19.98	20.15	20.25	20.14	20.11			
15	64QAM	1	64	19.98	20.12	20.24	20.13	20.14			
15	64QAM	25	0	19.87	19.13	19.22	19.12	19.09			
15	64QAM	25	12	19.87	19.11	19.15	19.06	19.13			
15	64QAM	25	37	19.94	19.08	19.17	19.07	19.08			
15	64QAM	50	0	19.84	19.02	19.15	19.00	19.04			
15	64QAM	50	12	19.85	19.05	19.15	19.00	19.04			
15	256QAM	1	25	16.90	17.12	17.21	17.10	17.01			
15	256QAM	1	48	16.88	17.03	17.18	17.09	16.98			
15	256QAM	12	0	17.04	17.14	17.25	17.16	17.07			
15	256QAM	25	12	16.79	17.14	17.13	17.12	16.94			
15	256QAM	25	37	16.80	17.03	17.28	17.15	17.07			
15	256QAM	50	0	17.05	17.16	17.27	17.11	17.06			
Channel											
Frequency (MHz)				39675	40140	40620	41060	41565	41960	Turn-up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.00	22.12	22.20	22.14	22.08			
15	QPSK	1	12	21.84	22.08	22.16	22.06	21.95			
15	QPSK	1	24	21.85	22.01	22.10	22.01	21.92			
15	QPSK	12	0	20.86	21.07	21.25	21.10	20.94			
15	QPSK	12	7	20.82	21.10	21.16	21.05	20.96			
15	QPSK	25	0	20.93	21.10	21.36	21.27	21.07			
15	QPSK	25	0	20.88	21.11	21.29	21.29	21.03			
15	16QAM	1	0	21.17	21.26	21.36	21.23	21.17			
15	16QAM	1	12	21.04	21.18	21.21	21.11	21.07			
15	16QAM	1	24	20.99	21.15	21.24	21.17	21.17			
15	16QAM	12	7	20.87	21.06	21.15	21.06	20.95			
15	16QAM	12	7	19.88	20.08	20.16	20.07	20.00			
15	16QAM	12	13	19.88	20.10	20.18	20.11	19.99			
15	64QAM	1	0	20.04	20.22	20.34	20.23	20.14			
15	64QAM	1	0	20.06	20.32	20.32	20.15	20.16			
15	64QAM	1	12	19.98	20.10	20.22	20.20	20.13			
15	64QAM	1	24	19.98	20.14	20.24	20.07	20.11			
15	64QAM	12	0	19.93	19.18	19.24	19.18	19.18			
15	64QAM	12	7	19.88	19.15	19.15	19.05	18.98			
15	64QAM	12	13	19.88	19.14	19.14	19.07	18.97			
15	64QAM	25	0	19.83	19.03	19.11	19.07	18.99			
15	256QAM	1	12	17.09	17.15	17.27	17.14	17.04			
15	256QAM	12	7	16.82	17.14	17.17	17.10	16.94			
15	256QAM	12	13	16.82	17.06	17.23	17.20	17.08			
15	256QAM	12	13	16.82	17.11	17.27	17.11	16.98			



Band 2 Other PA Ant3 DSI5																
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Ant3 Ch / Freq	Power Ant3 Ch / Freq	Turn-up Time (sec)	MPR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	19.48	19.52	19.34			21.1	0						
20	QPSK	1	49	19.27	19.53	19.23										
20	QPSK	1	99	19.48	19.48	19.28										
20	QPSK	50	0	19.30	19.53	19.12			21.1	0						
20	QPSK	50	24	19.28	19.37	19.33										
20	QPSK	50	50	19.27	19.42	19.33										
20	QPSK	100	0	19.48	19.52	19.23			21.1	0						
20	QPSK	100	24	19.49	19.31	19.34										
20	16QAM	1	49	19.48	19.50	19.18			21.1	0						
20	16QAM	1	99	19.24	19.36	19.36										
20	16QAM	50	0	19.28	19.49	19.16			21.1	0						
20	16QAM	50	24	19.29	19.23	19.21										
20	16QAM	50	50	19.28	19.51	19.27			21.1	0						
20	16QAM	100	0	19.41	19.42	19.26										
20	64QAM	1	0	19.18	19.27	19.27			21.1	0						
20	64QAM	1	49	19.26	19.32	19.16										
20	64QAM	1	99	19.27	19.29	19.10			21.1	0						
20	64QAM	50	0	19.46	19.28	19.28										
20	64QAM	50	24	19.39	19.34	19.14			21.1	0						
20	64QAM	50	50	19.43	19.43	19.23										
20	64QAM	100	0	19.39	19.47	19.28			20.1	1						
20	256QAM	1	49	19.17	19.17	19.30										
20	256QAM	1	99	19.14	19.31	19.21			20.1	1						
20	256QAM	50	0	19.28	19.38	19.25										
20	256QAM	50	24	19.10	19.20	19.16			20.1	1						
20	256QAM	50	50	19.10	19.20	19.17										
Channel																
Frequency (MHz)																
15	QPSK	1	0	19.18	19.53	19.16			21.1			0				
15	QPSK	1	49	19.27	19.39	19.29										
15	QPSK	1	74	19.27	19.39	19.18			21.1	0						
15	QPSK	36	0	19.19	19.50	19.10										
15	QPSK	36	24	19.30	19.31	19.18			21.1	0						
15	QPSK	36	39	19.18	19.30	19.13										
15	QPSK	75	0	19.38	19.37	19.10			21.1	0						
15	16QAM	1	49	19.31	19.34	19.22										
15	16QAM	1	37	19.40	19.39	19.12			21.1	0						
15	16QAM	36	24	19.26	19.26	19.10										
15	16QAM	36	39	19.18	19.39	19.16			21.1	0						
15	16QAM	36	20	19.10	19.43	19.13										
15	16QAM	75	0	19.26	19.27	19.28			21.1	0						
15	64QAM	1	0	19.20	19.50	19.17										
15	64QAM	1	37	19.44	19.45	19.19			21.1	0						
15	64QAM	1	74	19.26	19.37	19.19										
15	64QAM	36	0	19.29	19.25	19.17			21.1	0						
15	64QAM	36	24	19.23	19.23	19.10										
15	64QAM	36	39	19.32	19.25	19.10			21.1	0						
15	64QAM	75	0	19.24	19.41	19.16										
15	256QAM	1	37	19.19	19.15	19.27			20.1	1						
15	256QAM	1	74	19.11	19.19	19.23										
15	256QAM	1	36	19.18	19.18	19.23			20.1	1						
15	256QAM	36	39	19.10	19.10	19.15										
15	256QAM	75	0	19.17	19.18	19.18										
Channel																
Frequency (MHz)																
10	QPSK	1	0	19.52	19.56	19.05			21.1	0						
10	QPSK	1	25	19.14	19.47	19.17										
10	QPSK	1	49	19.45	19.25	19.14			21.1	0						
10	QPSK	1	74	19.47	19.29	19.18										
10	QPSK	25	12	19.24	19.24	19.31			21.1	0						
10	QPSK	25	25	19.16	19.39	19.22										
10	QPSK	25	39	19.16	19.31	19.32			21.1	0						
10	16QAM	1	0	19.48	19.47	19.14										
10	16QAM	1	25	19.43	19.43	19.12			21.1	0						
10	16QAM	25	12	19.21	19.30	19.14										
10	16QAM	25	0	19.18	19.52	19.35			21.1	0						
10	16QAM	25	12	19.43	19.27	19.12										
10	16QAM	50	0	19.21	19.30	19.14			21.1	0						
10	16QAM	50	0	19.20	19.43	19.17										
10	64QAM	1	0	19.13	19.27	19.13			21.1	0						
10	64QAM	1	49	19.41	19.23	19.23										
10	64QAM	1	49	19.27	19.33	19.27			21.1	0						
10	64QAM	25	0	19.29	19.25	19.18										
10	64QAM	25	12	19.22	19.30	19.27			21.1	0						
10	64QAM	25	25	19.45	19.23	19.25										
10	64QAM	50	0	19.32	19.30	19.25			20.1	1						
10	256QAM	1	25	19.38	19.15	19.10										
10	256QAM	1	25	19.28	19.16	19.10			20.1	1						
10	256QAM	1	49	19.41	19.24	19.15										
10	256QAM	1	74	19.26	19.25	19.25			20.1	1						
10	256QAM	25	12	19.38	19.39	19.44										
10	256QAM	25	25	19.40	19.40	19.40			20.1	1						
10	256QAM	50	0	19.44	19.33	19.29										
Channel																
Frequency (MHz)																
5	QPSK	1	0	19.14	19.14	19.14			21.1			0				
5	QPSK	1	12	19.11	19.47	19.18										
5	QPSK	1	24	19.34	19.41	19.28			21.1	0						
5	QPSK	12	13	19.19	19.41	19.27										
5	QPSK	12	7	19.11	19.34	19.22			21.1	0						
5	QPSK	12	13	19.26	19.31	19.32										
5	QPSK	12	13	19.42	19.35	19.18			21.1	0						
5	16QAM	1	0	19.28	19.31	19.17										
5	16QAM	1	12	19.35	19.32	19.18			21.1	0						
5	16QAM	1	24	19.28	19.29	19.16										
5	16QAM	12	0	19.11	19.18	19.15			21.1	0						
5	16QAM	12	7	19.23	19.32	19.21										
5	16QAM	12	13	19.27	19.30	19.14			21.1	0						
5	16QAM	25	0	19.41	19.34	19.21										
5	64QAM	1	0	19.12	19.42	19.16			21.1	0						
5	64QAM	1	24	19.28	19.27	19.19										
5	64QAM	12	0	19.38	19.26	19.29			21.1	0						
5	64QAM	12	7	19.31	19.12	19.13										
5	64QAM	12	13	19.42	19.33	19.25			21.1	0						
5	64QAM	25	0	19.40	19.27	19.16										
5	256QAM	1	24	19.40	19.17	19.21			20.1	1						
5	256QAM	1	24	19.40	19.17	19.21										
5	256QAM	12	13	19.39	19.33	19.25			18.5	2.5						
5	256QAM	1	24	19.31	19.26	19.22										
5	256QAM	12	13	19.22	19.13	19.15										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	19.33	19.35	19.36			21.1	0						
1.4	QPSK	1	14	19.36	19.37	19.36										
1.4	QPSK	1	5	19.42	19.35	19.17			21.1	0						
1.4	QPSK	3	0	19.12	19.40	19.29										
1.4	QPSK	3	5	19.32	19.38	19.26			21.1	0						
1.4	QPSK	3	3	19.51	19.37	19.22										
1.4	QPSK	6	0	19.32	19.37	19.28			21.1	0						
1.4	QPSK	6	3	19.31	19.44	19.31										
1.4	16QAM	1	3	19.42	19.48	19.10			21.1	0						
1.4	16QAM	1	5	19.22	19.20	19.16										
1.4	16QAM	3	0	19.14	19.29	19.26			21.1	0						
1.4	16QAM	3	1	19.13	19.41	19.21										
1.4	16QAM	3	3	19.23	19.43	19.29			21.1	0						
1.4	16QAM	3	5	19.24	19.42	19.40										
1.4	16QAM	6	0	19.28	19.43	19.14			21.1	0						
1.4	16QAM	6	0	19.33	19.43	19.16										
1.4	16QAM	6	3	19.32	19.32	19.23			21.1	0						
1.4	16QAM	6	3	19.33	19.33	19.30										
1.4	256QAM	1	0	19.11	19.14	19.12			20.1	1						
1.4	256QAM	1	14	19.35	19.14	19.10										
1.4	256QAM	1	14	19.30	19.27	19.38			20.1	1						
1.4	256QAM	8	0	19.49	19.21	19.28										
1.4	256QAM	8	14	19.37	19.37	19.30			20.1	1						
1.4	256QAM	8	7	19.38	19.41	19.43										
1.4	256QAM	15	0	19.45	19.32	19.29			20.1	1						
1.4	256QAM	3	0	19.50	19.51	19.29										



Band 38 Other PA Ant3 DSI5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37965	38050	38150				
20	QPSK	1	0	22.77	22.83	22.85	24	0		
20	QPSK	1	48	22.71	22.75	22.88				
20	QPSK	50	0	22.57	21.67	21.65				
20	QPSK	50	24	21.61	21.74	21.64				
20	QPSK	50	0	21.57	21.67	21.65	23	1		
20	HQAM	50	0	21.57	21.67	21.65				
20	HQAM	100	0	21.62	21.77	21.64				
20	HQAM	1	0	21.62	21.75	21.63				
20	HQAM	1	48	21.57	21.67	21.65	23	1		
20	HQAM	1	96	21.53	21.63	21.53				
20	HQAM	50	24	20.76	20.81	20.88				
20	HQAM	50	24	20.86	20.77	20.71				
20	HQAM	50	50	20.86	20.77	20.71	22	2		
20	HQAM	100	0	20.86	20.77	20.59				
20	HQAM	1	0	20.72	20.52	20.74				
20	HQAM	1	48	20.88	20.76	20.85				
20	HQAM	1	96	20.82	20.72	20.58	22	2		
20	HQAM	50	0	19.54	19.79	19.72				
20	HQAM	50	24	19.55	19.75	19.85				
20	HQAM	50	50	19.58	19.75	19.65				
20	HQAM	100	0	19.56	19.67	19.53	21	3		
20	25QAM	1	0	17.87	17.80	17.77				
20	25QAM	1	48	17.84	17.87	17.82				
20	25QAM	1	96	17.70	17.82	17.67				
20	25QAM	50	0	17.74	17.82	17.69	19	5		
20	25QAM	50	24	17.63	17.72	17.65				
20	25QAM	50	50	17.60	17.76	17.74				
20	25QAM	100	0	17.60	17.65	17.65				
Channel										
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	22.72	22.75	22.82	24	0		
15	QPSK	1	37	22.89	22.78	22.96				
15	QPSK	1	74	22.44	22.61	22.96				
15	QPSK	36	0	21.63	21.69	21.66				
15	QPSK	36	20	21.58	21.62	21.58	23	1		
15	QPSK	36	38	21.54	21.67	21.66				
15	QPSK	75	0	21.58	21.68	21.58				
15	HQAM	1	0	21.59	21.59	21.53				
15	HQAM	1	37	21.47	21.54	21.61	23	1		
15	HQAM	1	74	21.38	21.57	21.49				
15	HQAM	36	0	20.70	20.77	20.63				
15	HQAM	36	20	20.85	20.78	20.82				
15	HQAM	36	38	20.82	20.67	20.58	22	2		
15	HQAM	75	0	20.49	20.66	20.43				
15	HQAM	75	0	20.62	20.78	20.54				
15	HQAM	1	37	20.56	20.69	20.54				
15	HQAM	1	74	20.52	20.61	20.47	21	3		
15	HQAM	36	0	19.58	19.68	19.55				
15	HQAM	36	20	19.48	19.64	19.47				
15	HQAM	36	38	19.54	19.62	19.48				
15	HQAM	75	0	19.47	19.52	19.44	19	5		
15	25QAM	1	0	17.78	17.86	17.63				
15	25QAM	1	37	17.74	17.82	17.69				
15	25QAM	1	74	17.57	17.72	17.52				
15	25QAM	36	0	17.76	17.76	17.56	19	5		
15	25QAM	36	20	17.62	17.84	17.65				
15	25QAM	36	38	17.51	17.79	17.58				
15	25QAM	75	0	17.58	17.62	17.61				
15	25QAM	75	0	17.58	17.62	17.61				
Channel										
Frequency (MHz)				37925	38050	38225	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	22.58	22.62	22.62	24	0		
10	QPSK	1	12	22.57	22.60	22.57				
10	QPSK	1	48	22.46	22.55	22.52				
10	QPSK	12	0	21.60	21.60	21.60				
10	QPSK	12	0	21.53	21.64	21.56	23	1		
10	QPSK	12	0	21.58	21.57	21.42				
10	QPSK	25	0	21.58	21.63	21.53				
10	HQAM	1	0	21.63	21.65	21.49				
10	HQAM	1	12	21.47	21.61	21.47	23	1		
10	HQAM	1	24	21.48	21.58	21.44				
10	HQAM	12	0	20.82	20.79	20.87				
10	HQAM	12	0	20.80	20.84	20.80				
10	HQAM	12	13	20.54	20.71	20.58	22	2		
10	HQAM	25	0	20.60	20.74	20.61				
10	HQAM	25	0	20.53	20.78	20.55				
10	HQAM	1	48	20.57	20.75	20.55				
10	HQAM	1	12	20.58	20.68	20.63	22	2		
10	HQAM	1	24	20.53	20.69	20.53				
10	HQAM	12	0	19.34	19.69	19.68				
10	HQAM	12	7	19.42	19.57	19.40				
10	HQAM	12	12	19.37	19.61	19.41	21	3		
10	HQAM	25	0	19.44	19.55	19.43				
10	25QAM	1	0	17.77	17.78	17.63				
10	25QAM	1	12	17.72	17.79	17.75				
10	25QAM	1	24	17.64	17.73	17.62	19	5		
10	25QAM	12	0	17.75	17.77	17.65				
10	25QAM	12	7	17.59	17.68	17.55				
10	25QAM	12	13	17.50	17.71	17.53				

Band 41 Other PA Ant3 DSI5												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tuneup limit (dBm)	MFR (dB)	
Channel												
Frequency (MHz)				38970	40185	40620	41005	41480				
20	QPSK	1	0	22.62	22.69	22.83	22.85	22.76	22.79	24	0	
20	QPSK	1	48	22.54	22.66	22.72	22.67	22.66				
20	QPSK	50	0	21.50	21.60	21.62	21.62	21.62				
20	QPSK	50	24	21.40	21.63	21.67	21.64	21.59				
20	QPSK	50	50	21.38	21.50	21.62	21.50	21.42	23	1		
20	16QAM	1	0	21.64	21.72	21.82	21.75	21.74				
20	16QAM	1	48	21.48	21.71	21.76	21.71	21.67				
20	16QAM	1	96	21.60	21.59	21.72	21.67	21.57				
20	16QAM	50	24	20.98	20.69	20.75	20.70	20.81	22	2		
20	16QAM	50	24	20.41	20.64	20.67	20.59	20.60				
20	16QAM	50	50	20.59	20.66	20.71	20.66	20.62				
20	16QAM	100	0	20.47	20.62	20.66	20.59	20.60				
20	16QAM	1	0	20.82	20.80	20.91	20.85	20.86	22	2		
20	16QAM	1	48	20.68	20.81	20.85	20.83	20.71				
20	16QAM	1	96	20.57	20.66	20.81	20.72	20.68				
20	16QAM	50	0	19.26	19.67	19.75	19.69	19.64				
20	16QAM	50	24	19.47	19.57	19.68	19.54	19.58	21	3		
20	16QAM	50	50	19.43	19.59	19.71	19.57	19.62				
20	16QAM	100	0	19.54	19.54	19.63	19.59	19.49				
20	25QAM	1	0	17.63	17.62	17.71	17.68	17.57				
20	25QAM	1	48	17.51	17.62	17.68	17.63	17.52	19	5		
20	25QAM	1	96	17.50	17.59	17.63	17.57	17.54				
20	25QAM	50	0	17.44	17.55	17.61	17.57	17.42				
20	25QAM	50	24	17.44	17.56	17.61	17.57	17.52				
20	25QAM	50	50	17.42	17.52	17.67	17.58	17.52	19	5		
20	25QAM	100	0	17.40	17.49	17.62	17.57	17.43				
Channel				38970	40185	40620	41005	41480				
Frequency (MHz)				22.62	22.69	22.83	22.85	22.76			22.79	Tuneup limit (dBm)
15	QPSK	1	0	22.69	22.74	22.83	22.87	22.78	22.79	24	0	
15	QPSK	1	37	22.50	22.68	22.67	22.59	22.56				
15	QPSK	1	74	22.47	22.63	22.54	22.49	22.48				
15	QPSK	36	0	21.87	21.82	21.82	21.86	21.82				
15	QPSK	36	20	21.40	21.57	21.61	21.55	21.45	21	1		
15	QPSK	36	56	21.38	21.53	21.58	21.53	21.43				
15	QPSK	75	0	21.36	21.50	21.50	21.51	21.47				
15	16QAM	1	0	21.60	21.66	21.68	21.62	21.61				
15	16QAM	1	37	21.43	21.61	21.63	21.57	21.53	22	1		
15	16QAM	1	74	21.51	21.45	21.68	21.58	21.49				
15	16QAM	36	0	20.49	20.57	20.65	20.63	20.52				
15	16QAM	36	20	20.38	20.53	20.49	20.58	20.50				
15	16QAM	36	56	20.46	20.50	20.59	20.60	20.54	22	2		
15	16QAM	75	0	20.47	20.54	20.61	20.56	20.53				
15	16QAM	1	0	20.79	20.72	20.81	20.77	20.67				
15	16QAM	1	37	20.65	20.70	20.76	20.64	20.67				
15	16QAM	1	74	20.51	20.57	20.69	20.65	20.63	22	2		
15	16QAM	36	0	19.32	19.54	19.68	19.58	19.55				
15	16QAM	36	20	18.41	18.45	19.60	18.47	18.45				
15	16QAM	36	56	18.39	18.52	19.60	18.43	18.50				
15	16QAM	75	0	18.43	19.40	19.59	19.54	19.40	21	3		
15	16QAM	1	0	17.53	17.59	17.60	17.60	17.47				
15	25QAM	1	37	17.38	17.57	17.58	17.52	17.49				
15	25QAM	1	74	17.36	17.56	17.54	17.52	17.47				
15	25QAM	50	0	17.36	17.48	17.48	17.43	17.42	19	5		
15	25QAM	50	24	17.37	17.47	17.56	17.47	17.49				
15	25QAM	50	50	17.42	17.47	17.58	17.47	17.50				
Channel				38970	40185	40620	41005	41480				
Frequency (MHz)				22.62	22.69	22.83	22.85	22.76	22.79	Tuneup limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.69	22.74	22.83	22.87	22.78	22.79	24	0	
15	QPSK	1	37	22.48	22.61	22.68	22.58	22.56				
15	QPSK	1	74	22.48	22.55	22.64	22.48	22.53				
15	QPSK	36	0	21.87	21.82	21.82	21.86	21.82				
15	QPSK	36	20	21.40	21.50	21.58	21.50	21.47	21	1		
15	QPSK	36	56	21.38	21.53	21.58	21.53	21.43				
15	QPSK	75	0	21.45	21.58	21.59	21.49	21.48				
15	16QAM	1	0	21.54	21.68	21.75	21.71	21.63				
15	16QAM	1	37	21.40	21.60	21.62	21.54	21.48	22	1		
15	16QAM	1	49	21.55	21.49	21.67	21.61	21.48				
15	16QAM	25	0	20.48	20.54	20.70	20.60	20.54				
15	16QAM	25	20	20.37	20.51	20.49	20.49	20.51				
15	16QAM	25	20	20.51	20.46	20.61	20.59	20.53	22	2		
15	16QAM	50	0	20.47	20.53	20.69	20.59	20.54				
15	16QAM	50	24	20.78	20.74	20.85	20.77	20.70				
15	16QAM	1	0	20.82	20.68	20.75	20.67	20.64				
15	16QAM	1	48	20.68	20.74	20.85	20.67	20.63	22	2		
15	16QAM	25	0	19.51	19.56	19.66	19.56	19.55				
15	16QAM	25	12	19.43	19.54	19.53	19.42	19.51				
15	16QAM	25	12	19.43	19.59	19.60	19.47	19.56				
15	16QAM	50	0	18.48	19.42	19.50	19.47	18.44	21	3		
15	16QAM	1	0	17.50	17.53	17.64	17.52	17.47				
15	25QAM	1	37	17.47	17.56	17.57	17.51	17.48				
15	25QAM	1	49	17.45	17.46	17.60	17.49	17.51				
15	25QAM	50	0	17.42	17.54	17.54	17.47	17.43	19	5		
15	25QAM	50	24	17.42	17.54	17.57	17.47	17.49				
15	25QAM	50	50	17.42	17.47	17.57	17.51	17.41				
15	25QAM	25	12	17.37	17.48	17.52	17.51	17.41				
15	25QAM	25	12	17.37	17.48	17.63	17.42	17.47	19	5		
15	25QAM	50	24	17.42	17.46	17.63	17.42	17.47				
Channel				38970	40185	40620	41005	41480				
Frequency (MHz)				22.62	22.69	22.83	22.85	22.76			22.79	Tuneup limit (dBm)
15	QPSK	1	12	22.51	22.58	22.61	22.53	22.61	22.66	24	0	
15	QPSK	1	24	22.43	22.42	22.58	22.56	22.56				
15	QPSK	12	0	21.61	21.62	21.61	21.67	21.62				
15	QPSK	12	7	21.37	21.50	21.61	21.59	21.48				
15	QPSK	12	7	21.37	21.50	21.61	21.59	21.48	21	1		
15	QPSK	25	0	21.48	21.49	21.61	21.47	21.48				
15	16QAM	1	0	21.61	21.62	21.78	21.71	21.62				
15	16QAM	1	21	21.37	21.62	21.62	21.62	21.62				
15	16QAM	1	24	21.54	21.55	21.63	21.52	21.53	22	2		
15	16QAM	12	0	20.50	20.59	20.62	20.63	20.53				
15	16QAM	12	0	20.50	20.59	20.62	20.60	20.54				
15	16QAM	12	13	20.56	20.42	20.65	20.59	20.52				
15	16QAM	25	0	20.50	20.59	20.62	20.60	20.54	22	2		
15	16QAM	25	0	20.68	20.75	20.85	20.73	20.74				
15	16QAM	1	12	20.34	20.73	20.80	20.69	20.67				
15	16QAM	1	24	20.52	20.73	20.80	20.67	20.62				
15	16QAM	12	5	19.43	19.54	19.62	19.55	19.55	21	3		
15	16QAM	12	7	19.40	19.46	19.54	19.50	19.48				
15	16QAM	12	19	19.43	19.49	19.60	19.53	19.52				
15	16QAM	25	0	18.41	19.47	19.56	19.47	18.44				
15	25QAM	1	0	17.50	17.57	17.64	17.52	17.43	19	5		
15	25QAM	1	37	17.47	17.56	17.57	17.51	17.44				
15	25QAM	1	49	17.35	17.53	17.57	17.45	17.43				
15	25QAM	50	0	17.42	17.54	17.54	17.51	17.43				
15	25QAM	12	7	17.34	17.40	17.52	17.44	17.41	19	5		
15	25QAM	12	13	17.35	17.48	17.58	17.49	17.51				
15	25QAM	50	24	17.42	17.46	17.63	17.42	17.47				
15	25QAM	50	50	17.42	17.46	17.63	17.42	17.47				



Reduced Power Mode for Other PA DS16

Band 2 Other PA Ant0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Time-up (min)	MPE (dB)	
Channel									
Frequency (MHz)	Channel	18700	18800	18900	19000	19100			
20	QPSK	1	0	23.16	23.23	22.98			
20	QPSK	1	49	23.11	23.16	23.05	24	0	
20	QPSK	1	99	23.02	23.08	22.98			
20	QPSK	50	0	22.89	22.98	22.72			
20	QPSK	50	24	22.80	22.85	22.81	24	0	
20	QPSK	50	49	22.73	22.77	22.77			
20	QPSK	100	0	23.06	23.10	23.04			
20	16QAM	1	0	23.07	23.16	23.12			
20	16QAM	1	49	22.96	23.02	23.04	24	0	
20	16QAM	1	99	23.04	23.09	22.97			
20	16QAM	50	0	22.59	22.69	22.59			
20	16QAM	50	24	22.45	22.55	22.48	23.5	0.5	
20	16QAM	50	50	22.38	22.49	22.36			
20	16QAM	100	0	22.84	22.71	22.97			
20	16QAM	100	24	22.63	22.75	22.71			
20	64QAM	1	49	22.58	22.69	22.64	23.5	0.5	
20	64QAM	1	99	19.51	19.56	19.48			
20	64QAM	50	0	19.49	19.61	19.48	20.5	3.5	
20	64QAM	50	24	19.50	19.60	19.52			
20	256QAM	50	50	19.40	19.53	19.44			
20	256QAM	100	0	19.43	19.60	19.48			
Channel									
Frequency (MHz)	Channel	1897.5	1880	1892.5			Time-up (min)	MPE (dB)	
16	QPSK	1	0	23.09	23.19	22.89			
16	QPSK	1	37	23.00	23.06	22.94	24	0	
16	QPSK	1	74	22.94	22.99	22.90			
16	QPSK	36	0	22.64	22.68	22.68			
16	QPSK	36	20	22.73	22.74	22.74	24	0	
16	QPSK	36	49	22.68	22.71	22.65			
16	QPSK	75	0	22.34	22.38	22.31			
16	16QAM	1	0	22.95	23.01	22.95	24	0	
16	16QAM	1	37	22.95	23.07	22.95			
16	16QAM	1	74	22.83	22.98	22.93			
16	16QAM	36	0	22.39	22.43	22.39	23.5	0.5	
16	16QAM	36	20	22.34	22.48	22.38			
16	16QAM	36	39	22.31	22.44	22.22			
16	16QAM	75	0	21.45	21.60	21.49			
16	64QAM	1	0	20.53	20.72	20.54			
16	64QAM	1	37	22.44	22.52	22.48	23.5	0.5	
16	64QAM	36	0	21.50	21.55	21.47			
16	64QAM	36	20	21.42	21.46	21.34	22.5	1.5	
16	64QAM	36	39	21.36	21.42	21.35			
16	256QAM	1	0	19.44	19.65	19.48	20.5	3.5	
16	256QAM	1	37	19.43	19.57	19.37			
16	256QAM	36	0	19.38	19.54	19.42			
16	256QAM	36	20	19.33	19.59	19.31	20.5	3.5	
16	256QAM	36	39	19.33	19.59	19.31			
16	256QAM	75	0	19.43	19.65	19.34			
Channel									
Frequency (MHz)	Channel	1895	1880	1892.5			Time-up (min)	MPE (dB)	
16	QPSK	1	0	23.11	23.15	22.86			
16	QPSK	1	26	22.85	23.02	22.86	24	0	
16	QPSK	1	49	22.83	22.90	22.80			
16	QPSK	25	0	22.56	22.68	22.59			
16	QPSK	25	12	22.50	22.61	22.48	24	0	
16	QPSK	25	26	22.69	22.79	22.67			
16	QPSK	50	0	22.85	23.06	23.00			
16	16QAM	1	0	23.00	23.12	23.02			
16	16QAM	1	26	23.02	23.00	22.92	24	0	
16	16QAM	1	49	22.88	23.00	22.87			
16	16QAM	25	0	21.43	21.48	21.36	23.5	0.5	
16	16QAM	25	12	21.34	21.49	21.38			
16	16QAM	25	26	22.33	22.34	22.26			
16	16QAM	50	0	21.54	21.61	21.46			
16	64QAM	1	0	20.50	20.53	20.56			
16	64QAM	1	26	22.45	22.62	22.60	23.5	0.5	
16	64QAM	1	53	22.45	22.55	22.48			
16	64QAM	25	0	21.52	21.57	21.39			
16	64QAM	25	12	21.34	21.38	21.34	22.5	1.5	
16	64QAM	25	26	21.31	21.46	21.42			
16	256QAM	1	0	19.50	19.65	19.44	20.5	3.5	
16	256QAM	1	26	19.42	19.65	19.42			
16	256QAM	1	49	19.44	19.46	19.43			
16	256QAM	25	0	19.43	19.52	19.42			
16	256QAM	25	12	19.38	19.48	19.31	20.5	3.5	
16	256QAM	25	26	19.42	19.40	19.31			
16	256QAM	50	0	19.42	19.63	19.31			
Channel									
Frequency (MHz)	Channel	1892.5	1880	1892.5			Time-up (min)	MPE (dB)	
5	QPSK	1	0	23.08	23.14	22.90			
5	QPSK	1	12	22.99	23.09	22.88	24	0	
5	QPSK	1	25	22.88	22.98	22.80			
5	QPSK	12	0	22.61	22.66	22.59			
5	QPSK	12	7	22.70	22.80	22.67	24	0	
5	QPSK	12	13	22.64	22.70	22.63			
5	QPSK	25	0	22.92	23.09	22.93			
5	16QAM	1	0	23.01	23.11	23.06	24	0	
5	16QAM	1	12	22.98	23.00	22.97			
5	16QAM	1	24	22.81	23.04	22.97			
5	16QAM	1	26	22.45	22.57	22.45	23.5	0.5	
5	16QAM	12	7	22.33	22.43	22.24			
5	16QAM	12	13	22.32	22.47	22.24			
5	16QAM	25	0	21.53	21.62	21.45	23.5	0.5	
5	16QAM	25	12	21.44	21.65	21.48			
5	16QAM	25	26	21.48	21.69	21.51			
5	16QAM	50	0	21.42	21.68	21.41	23.5	0.5	
5	16QAM	50	12	21.45	21.69	21.48			
5	16QAM	50	26	21.48	21.65	21.48			
5	64QAM	1	0	20.52	20.64	20.58			
5	64QAM	1	12	22.54	22.65	22.54	23.5	0.5	
5	64QAM	1	26	22.48	22.59	22.46			
5	64QAM	12	0	21.45	21.50	21.39			
5	64QAM	12	7	21.37	21.46	21.27	22.5	1.5	
5	64QAM	12	13	21.45	21.64	21.48			
5	64QAM	25	0	21.42	21.53	21.43			
5	256QAM	1	0	19.52	19.69	19.42	20.5	3.5	
5	256QAM	1	12	19.51	19.62	19.41			
5	256QAM	1	24	19.37	19.42	19.41			
5	256QAM	12	0	19.45	19.56	19.47	20.5	3.5	
5	256QAM	12	13	19.41	19.55	19.48			
5	256QAM	12	13	19.37	19.41	19.35			
5	256QAM	25	0	19.36	19.45	19.35			
Channel									
Frequency (MHz)	Channel	1892.5	1880	1892.5			Time-up (min)	MPE (dB)	
3	QPSK	1	0	23.07	23.20	22.95			
3	QPSK	1	14	22.94	23.06	22.96	24	0	
3	QPSK	1	28	22.85	22.98	22.88			
3	QPSK	8	0	22.63	22.67	22.57			
3	QPSK	8	7	22.69	22.77	22.77	24	0	
3	QPSK	8	14	22.65	22.75	22.69			
3	QPSK	15	0	23.00	23.05	22.98			
3	16QAM	1	0	23.03	23.05	23.06			
3	16QAM	1	8	22.94	23.00	22.89	24	0	
3	16QAM	1	14	22.83	23.05	22.90			
3	16QAM	8	0	22.81	22.89	22.86			
3	16QAM	8	7	22.84	22.93	22.81	23.5	0.5	
3	16QAM	8	14	22.81	22.90	22.81			
3	16QAM	15	0	22.58	22.69	22.46			
3	64QAM	1	0	22.49	22.61	22.59			
3	64QAM	1	8	22.51	22.58	22.43	23.5	0.5	
3	64QAM	1	14	22.48	22.57	22.43			
3	64QAM	8	0	21.48	21.57	21.43			
3	64QAM	8	7	21.45	21.48	21.41	22.5	1.5	
3	64QAM	8	14	21.45	21.48	21.51			
3	64QAM	15	0	21.42	21.49	21.42			
3	256QAM	1	0	19.43	19.64	19.31	20.5	3.5	
3	256QAM	1	14	19.38	19.51	19.38			
3	256QAM	1	28	19.35	19.50	19.35			
3	256QAM	8	0	19.35	19.50	19.47	20.5	3.5	
3	256QAM	8	7	19.25	19.47	19.36			
3	256QAM	8	14	19.26	19.45	19.38			
Channel									
Frequency (MHz)	Channel	1892.5	1880	1892.5			Time-up (min)	MPE (dB)	
1.4	QPSK	1	0	23.09	23.12	22.86			
1.4	QPSK	1	3	23.00	23.02	22.96	24	0	
1.4	QPSK	1	5	22.89	22.96	22.86			
1.4	QPSK	3	0	22.58	22.66	22.58			
1.4	QPSK	3	3	22.75	22.85	22.73	24	0	
1.4	QPSK	3	5	22.59	22.71	22.70			
1.4	QPSK	6	0	22.98	22.95	22.99	24	0	
1.4	QPSK	6	3	22.97	23.01	22.97			
1.4	QPSK	3	3	23.02	23.02	22.98			
1.4	16QAM	1	0	22.92	23.04	22.98			
1.4	16QAM	1	3	22.83	22.99	22.92	24	0	
1.4	16QAM	1	5	22.74	22.94	22.88			
1.4	16QAM	3	0	22.57	22.64	22.57	23.5	0.5	
1.4	16QAM	3	3	22.40	22.42	22.38			
1.4	16QAM	1	6	22.33	22.45	22.23			
1.4	16QAM	1	9	22.32	22.46	22.22	23.5	0.5	
1.4	16QAM	3	0						



Band 38 Other PA Ant0 DS16										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Turn-on time (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37965	38000	38160				
20	QPSK	1	0	23.34	23.34	23.30	24	0		
20	QPSK	1	48	23.22	23.29	23.24				
20	QPSK	1	96	23.16	23.24	23.11				
20	QPSK	50	0	22.33	22.43	22.36				
20	QPSK	50	24	22.26	22.33	22.21	23	1		
20	QPSK	50	48	22.25	22.29	22.14				
20	QPSK	100	0	22.27	22.25	22.23				
20	HQAM	1	0	22.26	22.25	22.21				
20	HQAM	1	48	22.25	22.29	22.14	23	1		
20	HQAM	1	96	22.15	22.25	22.22				
20	HQAM	50	0	21.41	21.46	21.34				
20	HQAM	50	24	21.19	21.32	21.20				
20	HQAM	50	50	21.17	21.26	21.19	22	2		
20	HQAM	100	0	21.26	21.42	21.26				
20	HQAM	100	0	21.23	21.35	21.25				
20	HQAM	1	48	21.21	21.27	21.17				
20	HQAM	1	96	21.06	21.23	21.15	22	2		
20	HQAM	50	0	20.34	20.48	20.43				
20	HQAM	50	24	20.24	20.35	20.27				
20	HQAM	50	50	20.30	20.41	20.33				
20	HQAM	100	0	20.26	20.49	20.26	21	3		
20	25QAM	1	0	18.31	18.46	18.39				
20	25QAM	1	48	18.28	18.37	18.23				
20	25QAM	1	96	18.20	18.33	18.27				
20	25QAM	36	0	18.26	18.41	18.37	19	5		
20	25QAM	36	24	18.21	18.35	18.22				
20	25QAM	36	50	18.14	18.28	18.19				
20	25QAM	100	0	18.20	18.35	18.25				
20	25QAM	100	0	18.20	18.35	18.25				
Channel										
Frequency (MHz)				37925	38000	38175	Turn-on time (dBm)	MFR (dB)		
15	QPSK	1	0	23.13	23.35	23.12	24	0		
15	QPSK	1	37	23.14	23.24	23.21				
15	QPSK	1	74	23.07	23.16	23.00				
15	QPSK	36	0	22.24	22.30	22.21				
15	QPSK	36	20	22.19	22.29	22.14	23	1		
15	QPSK	36	38	22.06	22.17	22.07				
15	QPSK	75	0	22.19	22.32	22.16				
15	HQAM	1	0	22.19	22.29	22.14				
15	HQAM	1	37	22.14	22.29	22.05	23	1		
15	HQAM	1	74	22.07	22.15	22.08				
15	HQAM	36	0	21.29	21.39	21.25				
15	HQAM	36	20	21.14	21.18	21.13				
15	HQAM	75	0	21.16	21.32	21.22	22	2		
15	HQAM	75	37	21.13	21.33	21.25				
15	HQAM	1	37	21.12	21.19	21.03				
15	HQAM	1	74	20.99	21.12	21.05				
15	HQAM	36	0	20.27	20.43	20.29	21	3		
15	HQAM	36	20	20.17	20.28	20.20				
15	HQAM	36	38	20.04	20.16	20.06				
15	HQAM	75	0	20.16	20.33	20.21				
15	25QAM	1	0	18.28	18.36	18.33	19	5		
15	25QAM	1	37	18.25	18.32	18.23				
15	25QAM	1	74	18.12	18.24	18.23				
15	25QAM	36	0	18.16	18.32	18.16				
15	25QAM	36	20	18.09	18.32	18.15	19	5		
15	25QAM	36	38	18.07	18.14	18.15				
15	25QAM	75	0	18.15	18.32	18.20				
15	25QAM	75	37	18.10	18.30	18.20				
15	25QAM	75	37	18.10	18.30	18.20				
Channel										
Frequency (MHz)				37960	38000	38000	Turn-on time (dBm)	MFR (dB)		
10	QPSK	1	0	23.31	23.35	23.31	24	0		
10	QPSK	1	25	23.25	23.18	23.17				
10	QPSK	1	48	23.08	23.10	23.04				
10	QPSK	25	0	22.33	22.39	22.32				
10	QPSK	25	12	22.18	22.29	22.06	23	1		
10	QPSK	25	25	22.07	22.25	22.05				
10	HQAM	1	0	22.17	22.28	22.12				
10	HQAM	1	25	22.13	22.15	22.01				
10	HQAM	1	48	22.02	22.15	22.18	23	1		
10	HQAM	25	0	21.36	21.38	21.24				
10	HQAM	25	12	21.08	21.27	21.09				
10	HQAM	25	25	21.09	21.32	21.15				
10	HQAM	50	0	21.22	21.31	21.14	22	2		
10	HQAM	50	25	21.11	21.25	21.24				
10	HQAM	1	25	21.17	21.23	21.07				
10	HQAM	1	48	21.02	21.11	21.07				
10	HQAM	25	0	20.22	20.40	20.35	21	3		
10	HQAM	25	12	20.18	20.29	20.16				
10	HQAM	25	25	20.26	20.35	20.20				
10	HQAM	50	0	20.13	20.27	20.20				
10	25QAM	1	0	18.17	18.42	18.35	19	5		
10	25QAM	1	25	18.15	18.32	18.28				
10	25QAM	1	48	18.09	18.25	18.22				
10	25QAM	25	0	18.16	18.36	18.27				
10	25QAM	25	12	18.14	18.31	18.09	19	5		
10	25QAM	25	25	18.03	18.20	18.15				
10	25QAM	50	0	18.13	18.30	18.20				
10	25QAM	50	25	18.13	18.36	18.20				
10	25QAM	50	25	18.13	18.36	18.20				
Channel										
Frequency (MHz)				37975	38000	38225	Turn-on time (dBm)	MFR (dB)		
5	QPSK	1	0	23.21	23.31	23.23	24	0		
5	QPSK	1	12	23.14	23.22	23.18				
5	QPSK	1	24	23.07	23.19	23.02				
5	QPSK	12	0	22.21	22.28	22.21				
5	QPSK	12	7	22.21	22.30	22.17	23	1		
5	QPSK	12	13	22.12	22.19	22.09				
5	QPSK	25	0	22.17	22.29	22.20				
5	HQAM	1	0	22.14	22.22	22.10				
5	HQAM	1	12	22.07	22.15	22.03	23	1		
5	HQAM	1	24	22.07	22.14	22.09				
5	HQAM	12	0	21.37	21.34	21.21				
5	HQAM	12	7	21.12	21.23	21.08				
5	HQAM	12	13	21.13	21.19	21.14	22	2		
5	HQAM	25	0	21.20	21.29	21.23				
5	HQAM	1	0	21.16	21.31	21.26				
5	HQAM	1	12	21.18	21.29	21.05				
5	HQAM	1	24	20.96	21.13	21.11	21	3		
5	HQAM	12	0	20.25	20.37	20.18				
5	HQAM	12	7	20.15	20.32	20.18				
5	HQAM	12	13	20.24	20.35	20.16				
5	HQAM	25	0	20.30	20.33	20.19	19	5		
5	HQAM	25	0	18.24	18.37	18.21				
5	25QAM	1	12	18.14	18.25	18.21				
5	25QAM	1	24	18.12	18.20	18.21				
5	25QAM	12	0	18.18	18.31	18.17	19	5		
5	25QAM	12	7	18.13	18.31	18.21				
5	25QAM	12	13	18.00	18.14	18.06				
5	25QAM	25	0	18.00	18.30	18.21				
5	25QAM	25	7	18.00	18.31	18.06				



Band 2 Other PA Ant1 DS16														
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up time (Sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.69	21.72	21.58	22.8	0						
20	QPSK	1	49	21.69	21.69	21.69								
20	QPSK	1	99	21.62	21.65	21.58	22.8	0						
20	QPSK	50	0	21.56	21.70	21.36								
20	QPSK	50	24	21.69	21.69	21.69	22.8	0						
20	QPSK	50	50	21.62	21.67	21.80								
20	QPSK	100	0	21.54	21.67	21.80	22.8	0						
20	QPSK	150	0	21.50	21.69	21.80								
20	16QAM	1	49	21.70	21.59	21.58	22.8	0						
20	16QAM	1	99	21.57	21.66	21.58								
20	16QAM	50	99	21.57	21.66	21.58	22.8	0						
20	16QAM	50	24	21.49	21.69	21.51								
20	16QAM	50	50	21.70	21.69	21.41	22.8	0						
20	16QAM	100	0	21.47	21.50	21.54								
20	64QAM	1	0	21.66	21.50	21.52	22.8	0						
20	64QAM	1	49	21.69	21.59	21.56								
20	64QAM	1	99	21.64	21.50	21.41	22.8	0						
20	64QAM	50	0	21.30	21.56	21.36								
20	64QAM	50	24	21.19	21.42	21.16	22.3	0.5						
20	64QAM	50	50	21.47	21.50	21.54								
20	64QAM	100	0	21.19	21.41	21.35	22.3	0.5						
20	64QAM	150	0	21.19	21.41	21.35								
20	256QAM	1	49	19.42	19.44	19.54	20.3	2.5						
20	256QAM	1	99	19.31	19.38	19.32								
20	256QAM	37	19	19.37	19.38	19.37	20.3	2.5						
20	256QAM	50	24	19.21	19.39	19.36								
20	256QAM	50	50	19.21	19.51	19.46	20.3	2.5						
20	256QAM	100	0	19.21	19.51	19.46								
Channel														
Frequency (MHz)														
15	QPSK	1	0	16.975	16.980	16.975	22.8	0						
15	QPSK	1	49	16.975	16.980	16.975								
15	QPSK	1	99	16.975	16.980	16.975	22.8	0						
15	QPSK	1	149	16.975	16.980	16.975								
15	QPSK	36	36	16.975	16.980	16.975	22.8	0						
15	QPSK	75	0	16.975	16.980	16.975								
15	16QAM	1	99	16.975	16.980	16.975	22.8	0						
15	16QAM	1	37	16.975	16.980	16.975								
15	16QAM	36	36	16.975	16.980	16.975	22.8	0						
15	16QAM	36	74	16.975	16.980	16.975								
15	16QAM	36	20	16.975	16.980	16.975	22.8	0						
15	16QAM	36	50	16.975	16.980	16.975								
15	16QAM	36	24	16.975	16.980	16.975	22.8	0						
15	16QAM	36	50	16.975	16.980	16.975								
15	64QAM	1	0	21.55	21.38	21.58	22.8	0						
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58	22.8	0						
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58	22.8	0						
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58			22.8	0				
15	64QAM	1	99	21.55	21.38	21.58	22.8	0						
15	64QAM	1	99	21.55	21.38	21.58	22.8	0						
15	64QAM	1	99	21.55	21.38	21.58	22.8	0						
15	64QAM	1	99	21.55										



Band 38 Other PA Ant1 DS16											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel				37855	38050	38150					
Frequency (MHz)				22.05	22.10	22.15					
20	QPSK	1	0	22.05	22.10	22.15	23.6	0			
20	QPSK	1	48	22.05	22.10	22.15					
20	QPSK	1	96	22.05	22.10	22.15					
20	QPSK	50	0	21.87	21.90	21.93					
20	QPSK	50	24	21.51	21.60	21.63	23.1	0.5			
20	QPSK	50	48	21.42	21.50	21.55					
20	QPSK	100	0	21.45	21.73	21.80					
20	16QAM	1	0	21.38	21.58	21.54					
20	16QAM	1	48	21.48	21.50	21.47	23.1	0.5			
20	16QAM	1	96	21.27	21.37	21.33					
20	16QAM	50	0	20.70	20.72	20.71					
20	16QAM	50	24	20.43	20.70	20.69					
20	16QAM	100	0	20.44	20.68	20.68	22.1	1.5			
20	16QAM	100	1	20.58	20.74	20.65					
20	16QAM	1	48	20.43	20.59	20.49					
20	16QAM	1	96	20.36	20.55	20.50					
20	16QAM	50	0	19.48	19.57	19.54	21.1	2.5			
20	16QAM	50	24	19.52	19.55	19.54					
20	16QAM	50	48	19.48	19.55	19.65					
20	16QAM	100	0	19.38	19.46	19.52					
20	256QAM	1	0	17.59	17.67	17.49	19.1	4.5			
20	256QAM	1	48	17.49	17.60	17.59					
20	256QAM	1	96	17.46	17.56	17.60					
20	256QAM	50	0	17.53	17.58	17.60					
20	256QAM	50	24	17.41	17.57	17.35	19.1	4.5			
20	256QAM	50	48	17.46	17.45	17.47					
20	256QAM	100	0	17.45	17.50	17.49					
Channel				37855	38050	38175					
Frequency (MHz)				21.73	21.78	21.73					
15	QPSK	1	0	21.73 <td>21.78<td>21.73</td><td rowspan="4">23.6</td><td rowspan="4">0</td><td colspan="2"></td></td>	21.78 <td>21.73</td> <td rowspan="4">23.6</td> <td rowspan="4">0</td> <td colspan="2"></td>	21.73	23.6	0			
15	QPSK	1	37	21.86 <td>21.88<td>21.90</td><td colspan="2"></td></td>	21.88 <td>21.90</td> <td colspan="2"></td>	21.90					
15	QPSK	1	74	21.81 <td>22.03<td>21.87</td><td colspan="2"></td></td>	22.03 <td>21.87</td> <td colspan="2"></td>	21.87					
15	QPSK	36	0	21.69 <td>21.78<td>21.87</td><td colspan="2"></td></td>	21.78 <td>21.87</td> <td colspan="2"></td>	21.87					
15	QPSK	36	20	21.43	21.48	21.60	23.1	0.5			
15	QPSK	36	38	21.34	21.51	21.28					
15	QPSK	75	0	21.34	21.58	21.46					
15	16QAM	1	0	21.33	21.44	21.37					
15	16QAM	1	37	21.36	21.38	21.37	23.1	0.5			
15	16QAM	1	74	21.37	21.30	21.27					
15	16QAM	36	0	20.59	20.65	20.72					
15	16QAM	36	20	20.26	20.29	20.26					
15	16QAM	36	38	20.42	20.55	20.64	22.1	1.5			
15	16QAM	75	0	20.36	20.53	20.26					
15	16QAM	75	0	20.41	20.51	20.46					
15	16QAM	1	37	20.28	20.27	20.26					
15	16QAM	1	74	20.30	20.52	20.24	21.1	2.5			
15	16QAM	36	0	19.47	19.63	19.35					
15	16QAM	36	20	19.54	19.57	19.51					
15	16QAM	75	0	19.15	19.45	19.35					
15	256QAM	1	0	17.61	17.62	17.45	19.1	4.5			
15	256QAM	1	37	17.53	17.62	17.45					
15	256QAM	1	74	17.34	17.47	17.40					
15	256QAM	36	0	17.33	17.51	17.38					
15	256QAM	36	20	17.35	17.52	17.35	19.1	4.5			
15	256QAM	36	38	17.46	17.38	17.41					
15	256QAM	75	0	17.37	17.52	17.41					
Channel				37855	38050	38050					
Frequency (MHz)				21.73	21.78	21.73					
10	QPSK	1	0	21.73 <td>21.78<td>21.73</td><td rowspan="4">23.6</td><td rowspan="4">0</td><td colspan="2"></td></td>	21.78 <td>21.73</td> <td rowspan="4">23.6</td> <td rowspan="4">0</td> <td colspan="2"></td>	21.73	23.6	0			
10	QPSK	1	25	21.87 <td>21.86<td>21.89</td><td colspan="2"></td></td>	21.86 <td>21.89</td> <td colspan="2"></td>	21.89					
10	QPSK	1	48	21.75 <td>22.02<td>21.87</td><td colspan="2"></td></td>	22.02 <td>21.87</td> <td colspan="2"></td>	21.87					
10	QPSK	25	0	21.65	21.73	21.87					
10	QPSK	25	12	21.33	21.57	21.62	23.1	0.5			
10	QPSK	25	25	21.58	21.64	21.52					
10	QPSK	50	0	21.45	21.68	21.59					
10	16QAM	1	0	21.18	21.38	21.48					
10	16QAM	1	25	21.48	21.38	21.27	23.1	0.5			
10	16QAM	1	48	21.25	21.31	21.13					
10	16QAM	25	0	20.61	20.71	20.62					
10	16QAM	25	12	20.26	20.55	20.31					
10	16QAM	50	0	20.37	20.57	20.61	22.1	1.5			
10	16QAM	50	0	20.41	20.61	20.22					
10	16QAM	25	25	20.40	20.39	20.38					
10	16QAM	25	48	20.34	20.50	20.42					
10	16QAM	1	48	20.20	20.46	20.19	22.1	1.5			
10	16QAM	25	0	19.46	19.49	19.39					
10	16QAM	25	12	19.52	19.38	19.54					
10	16QAM	25	25	19.34	19.55	19.60					
10	16QAM	50	0	19.36	19.29	19.41	21.1	2.5			
10	256QAM	1	0	17.57	17.66	17.42					
10	256QAM	1	48	17.36	17.55	17.38					
10	256QAM	1	96	17.45	17.42	17.55					
10	256QAM	25	0	17.38	17.49	17.31	19.1	4.5			
10	256QAM	25	12	17.45	17.42	17.55					
10	256QAM	25	25	17.46	17.49	17.31					
10	256QAM	25	48	17.44	17.32	17.39					
10	256QAM	50	0	17.38	17.52	17.30	19.1	4.5			
10	256QAM	50	12	17.44	17.40	17.50					
10	256QAM	50	25	17.34	17.25	17.26					
10	256QAM	50	48	17.34	17.25	17.30					

Band 41 Other PA Ant1 DS16										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turnup limit (dBm)	MFR (dB)
Channel				38750	40185	40620	41068	41540		
Frequency (MHz)				22.07	22.15	22.15	22.20	22.20		
15	QPSK	1	0	22.07	22.07	22.15	22.20	22.20	23.6	0
20	QPSK	1	48	22.03	21.85	22.04	22.05	21.98		
20	QPSK	1	96	22.07	22.03	22.00	21.98	22.00		
20	QPSK	50	0	21.50	21.62	21.81	21.82	21.81		
20	QPSK	50	24	21.61	21.45	21.64	21.65	21.64	23.1	0.5
20	QPSK	50	48	21.60	21.45	21.50	21.50	21.49		
20	QPSK	100	0	21.53	21.60	21.65	21.69	21.42		
20	16QAM	1	0	21.54	21.53	21.64	21.64	21.63		
20	16QAM	1	48	21.36	21.54	21.36	21.50	21.36	23.1	0.5
20	16QAM	1	96	21.38	21.52	21.41	21.44	21.48		
20	16QAM	50	0	20.44	20.48	20.68	20.77	20.67		
20	16QAM	50	24	20.62	20.64	20.62	20.67	20.51		
20	16QAM	100	0	20.62	20.71	20.62	20.67	20.53	22.1	1.5
20	16QAM	100	0	20.62	20.72	20.62	20.67	20.53		
20	16QAM	100	1	20.55	20.72	20.55	20.67	20.53		
20	64QAM	1	48	20.74	20.58	20.73	20.68	20.52		
20	64QAM	1	96	20.77	20.75	20.87	20.82	20.48	22.1	1.5
20	64QAM	50	0	19.72	19.60	19.76	19.73	19.57		
20	64QAM	50	24	19.64	19.64	19.67	19.50	19.37		
20	64QAM	100	0	19.55	19.62	19.62	19.60	19.36		
20	64QAM	100	0	19.56	19.60	19.71	19.63	19.34	21.1	2.5
20	64QAM	50	0	17.80	17.48	17.70	17.68	17.48		
20	256QAM	1	0	17.68	17.48	17.63	17.57	17.41		
20	256QAM	1	96	17.64	17.58	17.54	17.50	17.50		
20	256QAM	1	48	17.62	17.57	17.57	17.57	17.57	21.1	4.5
20	256QAM	50	24	17.37	17.42	17.48	17.45	17.34		
20	256QAM	50	48	17.50	17.62	17.67	17.51	17.48		
20	256QAM	100	0	17.52	17.62	17.67	17.51	17.48		
Channel				38725	40173	40620	41068	41515	Turnup limit (dBm)	MFR (dB)
Frequency (MHz)				22.07	22.13	22.13	22.18	22.13		
15	QPSK	1	0	22.07	22.07	22.13	22.18	22.13	24	0
15	QPSK	1	37	22.07	21.79	22.05	21.94	21.96		
15	QPSK	1	74	21.74	21.68	22.00	21.94	21.82		
15	QPSK	25	0	21.55	21.52	21.67	21.62	21.40		
15	QPSK	38	20	21.63	21.33	21.59	21.47	21.40	23.1	0.5
15	QPSK	38	20	21.63	21.33	21.59	21.47	21.40		
15	QPSK	75	0	21.48	21.56	21.52	21.63	21.20		
15	16QAM	1	0	21.55	21.53	21.45	21.48	21.21		
15	16QAM	1	37	21.27	21.32	21.27	21.63	21.27	23.1	0.5
15	16QAM	1	74	21.30	21.44	21.23	21.38	21.28		
15	16QAM	38	0	20.70	20.36	20.68	20.69	20.56		
15	16QAM	38	20	20.38	20.63	20.60	20.52	20.31		
15	16QAM	38	38	20.40	20.53	20.63	20.60	20.40	22.1	1.5
15	16QAM	38	38	20.42	20.53	20.63	20.60	20.42		
15	16QAM	75	0	20.51	20.50	20.70	20.63	20.50		
15	64QAM	1	37	20.59	20.56	20.74	20.56	20.46		
15	64QAM	1	74	20.63	20.53	20.69	20.62	20.46	22.1	1.5
15	64QAM	38	0	19.52	19.46	19.72	19.53	19.63		
15	64QAM	38	20	19.56	19.54	19.61	19.51	19.34		
15	64QAM	38	20	19.58	19.54	19.61	19.51	19.33		
15	64QAM	75	0	19.41	19.58	19.72	19.47	19.32	21.1	4.5
15	256QAM	1	0	17.64	17.48	17.63	17.57	17.41		
15	256QAM	1	37	17.66	17.60	17.54	17.51	17.25		
15	256QAM	1	74	17.61	17.50	17.47	17.52	17.35		
15	256QAM	1	111	17.46	17.42	17.42	17.50	17.40	21.1	4.5
15	256QAM	38	20	17.13	17.24	17.30	17.26	17.33		
15	256QAM	38	38	17.28	17.59	17.46	17.43	17.29		
15	256QAM	75	0	17.47	17.45	17.47	17.50	17.45		
Channel				38700	40160	40620	41068	41540	Turnup limit (dBm)	MFR (dB)
Frequency (MHz)				22.07	22.13	22.13	22.18	22.13		
15	QPSK	1	25	22.02	21.79	21.84	21.80	21.80	24	0
15	QPSK	1	62	22.02	21.79	21.80	21.80	21.87		
15	QPSK	25	0	21.49	21.41	21.50	21.50	21.29		
15	QPSK	25	12	21.61	21.33	21.47	21.38	21.41		
15	QPSK	25	12	21.63	21.33	21.47	21.38	21.41	23.1	0.5
15	QPSK	50	0	21.31	21.45	21.59	21.50	21.39		
15	16QAM	1	0	21.48	21.52	21.46	21.39	21.20		
15	16QAM	1	37	21.21	21.35	21.26	21.59	21.15		
15	16QAM	1	48	21.22	21.37	21.28	21.34	21.42	23.1	0.5
15	16QAM	1	96	20.55	20.37	20.62	20.64	20.53		
15	16QAM	25	12	20.54	20.44	20.54	20.45	20.38		
15	16QAM	25	12	20.57	20.62	20.47	20.31	20.53		
15	16QAM	25	12	20.57	20.62	20.47	20.31	20.53	22.1	1.5
15	16QAM	25	12	20.57	20.62	20.47	20.31	20.53		
15	64QAM	1	0	20.70	20.65	20.74	20.66	20.66		
15	64QAM	1	25	20.72	20.53	20.59	20.53	20.41		
15	64QAM	1	48	20.68	20.59	20.63	20.72	20.47	22.1	1.5
15	64QAM	25	0	19.70	19.46	19.65	19.60	19.58		
15	64QAM	25	12	19.54	19.56	19.48	19.49	19.38		
15	64QAM	25	12	19.48	19.51	19.48	19.39	19.28		
15	64QAM	50	0	19.43	19.57	19.73	19.50	19.47	21.1	2.5
15	64QAM	50	0	19.47	19.58	19.73	19.50	19.47		
15	256QAM	1	25	17.57	17.69	17.57	17.52	17.26		
15	256QAM	1	48	17.65	17.54	17.41	17.28	17.31		
15	256QAM	1	96	17.65	17.54	17.41	17.28	17.31	21.1	4.5
15	256QAM	25	12	17.42	17.36	17.42	17.36	17.41		
15	256QAM	25	12	17.26	17.23	17.37	17.27	17.22		
15	256QAM	25	12	17.33	17.57	17.33	17.43	17.32		
15	256QAM	50	0	17.42	17.42	17.42	17.42	17.42	21.1	4.5
15	256QAM	50	0	17.42	17.42	17.42	17.42	17.42		
15	256QAM	50	0	17.42	17.42	17.42	17.42	17.42		
15	256QAM	50	0	17.42	17.42	17.42	17.42	17.42		
Channel				38675	40146	40620	41068	41565	Turnup limit (dBm)	MFR (dB)
Frequency (MHz)				22.07	22.04	22.13	22.18	22.13		
15	QPSK	1	0	22.07	22.04 <td>22.13</td> <td>22.18</td> <td>22.13</td> <td rowspan="4">24</td> <td rowspan="4">0</td>	22.13	22.18	22.13	24	0
15	QPSK	1	12	21.87	21.69	21.95	21.87	21.86		
15	QPSK	1	24	21.68	21.41	21.67	21.67	21.67		
15	QPSK	12	0	21.42	21.49	21.65	21.47	21.31		
15	QPSK	12	7	21.60	21.41	21.63	21.34	21.31	23.1	0.5
15	QPSK	25	0	21.41	21.41	21.59	21.45	21.34		
15	16QAM	1	0	21.42	21.54	21.44	21.33	21.27		
15	16QAM	1	12	21.42	21.54	21.49	21.37	21.31		
15	16QAM	1	24	21.21	21.32	21.40	21.29	21.43	23.1	0.5
15	16QAM	1	24	21.21	21.32	21.40	21.29	21.43		
15	16QAM	12	7	20.51	20.42	20.65	20.50	20.38		
15	16QAM	12	7	20.53	20.54	20.47	20.40	20.32		
15	16QAM	25	0	20.63	20.35	20.63	20.60	20.38	22.1	1.5
15	16QAM	25	0	20.67	20.57	20.62	20.60	20.69		
15	64QAM	1	0	20.44	20.32	20.70	20.66	20.52		
15	64QAM	1	24	20.44	20.38	20.65	20.66	20.33		
15	64QAM	12	0	19.57	19.47	19.60	19.52	19.48	21.1	1.5
15	64QAM	12	7	19.43	19.40	19.47	19.45	19.35		
15	64QAM	12	7	19.43	19.40	19.47	19.45	19.35		
15	64QAM	25	0	19.50	19.40	19.51	19.50	19.29		
15	256QAM	1	25	17.47	17.47	17.47	17.47	17.47	21.1	4.5
15	256QAM	1	25	17.47	17.47	17.47	17.47	17.47		
15	256QAM	1	25	17.47	17.47	17.47	17.47	17.47		
15	256QAM	1	25	17.47	17.47	17.47	17.47	17.47		
15	256QAM	12	7	17.30	17.23	17.48	17.38	17.24	19.1	4.5
15	256QAM	12	13	17.31	17.41	17.64	17.31	17.20		
15	256QAM	12	13	17.38	17.53	17.74	17.41	17.20		
15	256QAM	12	13	17.38	17.53	17.74	17.41	17.20		



Band 2 Other PA Ant2 Default

RF (MHz)	Modulation	RF Size	RF Offset	Power Ch / Freq	Power Hsp / Freq	Power Lsp / Freq	Turn-up level (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.77	20.62	20.69		
20	QPSK	1	49	20.81	20.74	20.61		
20	QPSK	1	99	20.83	20.69	20.57		
20	QPSK	1	149	20.72	20.70	20.74		
20	QPSK	1	199	20.81	20.72	20.84		
20	QPSK	50	0	20.57	20.67	20.59		
20	QPSK	100	0	20.54	20.65	20.62		
20	QPSK	150	0	20.39	20.49	20.35		
20	QPSK	1	49	20.36	20.43	20.31		
20	QPSK	1	99	20.33	20.39	20.35		
20	QPSK	1	149	20.37	20.35	20.39		
20	QPSK	50	24	20.08	20.14	20.04		
20	QPSK	50	50	20.08	20.16	20.04		
20	QPSK	100	0	20.07	20.12	20.04		
20	QPSK	1	0	20.55	20.59	20.46		
20	QPSK	1	49	20.48	20.53	20.44		
20	QPSK	1	99	20.37	20.49	20.39		
20	QPSK	50	0	19.14	19.23	19.19		
20	QPSK	50	24	19.00	19.14	19.00		
20	QPSK	50	50	19.05	19.19	19.11		
20	QPSK	100	0	19.05	19.11	19.00		
20	QPSK	1	49	17.15	17.20	17.22		
20	QPSK	1	99	17.16	17.27	17.16		
20	QPSK	1	149	17.07	17.22	17.18		
20	QPSK	50	24	17.04	17.13	17.00		
20	QPSK	50	50	17.05	17.19	17.06		
20	QPSK	100	0	17.04	17.17	17.08		
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.69	20.73	20.81		
20	QPSK	1	49	20.62	20.67	20.69		
20	QPSK	1	99	20.53	20.57	20.50		
20	QPSK	50	0	20.87	20.63	20.81		
20	QPSK	50	24	20.49	20.68	20.37		
20	QPSK	50	50	20.45	20.62	20.50		
20	QPSK	100	0	20.40	20.52	20.39		
20	QPSK	1	49	20.25	20.39	20.29		
20	QPSK	1	99	20.11	20.23	20.19		
20	QPSK	1	149	20.11	20.21	20.10		
20	QPSK	50	24	20.01	20.08	19.90		
20	QPSK	50	50	19.95	19.99	19.95		
20	QPSK	100	0	19.95	20.01	19.90		
20	QPSK	1	0	20.48	20.55	20.46		
20	QPSK	1	49	20.43	20.51	20.41		
20	QPSK	1	99	20.35	20.43	20.33		
20	QPSK	50	0	19.06	19.17	19.12		
20	QPSK	50	24	18.96	19.05	18.98		
20	QPSK	50	50	18.97	19.11	19.05		
20	QPSK	100	0	18.94	19.07	18.98		
20	QPSK	1	49	17.05	17.12	17.06		
20	QPSK	1	99	17.02	17.13	17.07		
20	QPSK	1	149	17.00	17.15	17.04		
20	QPSK	50	24	16.97	17.03	16.96		
20	QPSK	50	50	16.92	17.07	16.96		
20	QPSK	100	0	16.97	17.04	17.00		
20	QPSK	100	0	16.92	17.01	16.98		
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.69	20.73	20.81		
20	QPSK	1	49	20.62	20.67	20.69		
20	QPSK	1	99	20.53	20.57	20.50		
20	QPSK	50	0	20.87	20.63	20.81		
20	QPSK	50	24	20.49	20.68	20.37		
20	QPSK	50	50	20.45	20.62	20.50		
20	QPSK	100	0	20.40	20.52	20.39		
20	QPSK	1	49	20.25	20.39	20.29		
20	QPSK	1	99	20.11	20.23	20.19		
20	QPSK	1	149	20.11	20.21	20.10		
20	QPSK	50	24	20.01	20.08	19.90		
20	QPSK	50	50	19.95	19.99	19.95		
20	QPSK	100	0	19.95	20.01	19.90		
20	QPSK	1	0	20.48	20.55	20.46		
20	QPSK	1	49	20.43	20.51	20.41		
20	QPSK	1	99	20.35	20.43	20.33		
20	QPSK	50	0	19.06	19.17	19.12		
20	QPSK	50	24	18.96	19.05	18.98		
20	QPSK	50	50	18.97	19.11	19.05		
20	QPSK	100	0	18.94	19.07	18.98		
20	QPSK	1	49	17.05	17.12	17.06		
20	QPSK	1	99	17.02	17.13	17.07		
20	QPSK	1	149	17.00	17.15	17.04		
20	QPSK	50	24	16.97	17.03	16.96		
20	QPSK	50	50	16.92	17.07	16.96		
20	QPSK	100	0	16.97	17.04	17.00		
20	QPSK	100	0	16.92	17.01	16.98		
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.69	20.73	20.81		
20	QPSK	1	49	20.62	20.67	20.69		
20	QPSK	1	99	20.53	20.57	20.50		
20	QPSK	50	0	20.87	20.63	20.81		
20	QPSK	50	24	20.49	20.68	20.37		
20	QPSK	50	50	20.45	20.62	20.50		
20	QPSK	100	0	20.40	20.52	20.39		
20	QPSK	1	49	20.25	20.39	20.29		
20	QPSK	1	99	20.11	20.23	20.19		
20	QPSK	1	149	20.11	20.21	20.10		
20	QPSK	50	24	20.01	20.08	19.90		
20	QPSK	50	50	19.95	19.99	19.95		
20	QPSK	100	0	19.95	20.01	19.90		
20	QPSK	1	0	20.48	20.55	20.46		
20	QPSK	1	49	20.43	20.51	20.41		
20	QPSK	1	99	20.35	20.43	20.33		
20	QPSK	50	0	19.06	19.17	19.12		
20	QPSK	50	24	18.96	19.05	18.98		
20	QPSK	50	50	18.97	19.11	19.05		
20	QPSK	100	0	18.94	19.07	18.98		
20	QPSK	1	49	17.05	17.12	17.06		
20	QPSK	1	99	17.02	17.13	17.07		
20	QPSK	1	149	17.00	17.15	17.04		
20	QPSK	50	24	16.97	17.03	16.96		
20	QPSK	50	50	16.92	17.07	16.96		
20	QPSK	100	0	16.97	17.04	17.00		
20	QPSK	100	0	16.92	17.01	16.98		
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.73	20.76	20.80		
20	QPSK	1	49	20.69	20.63	20.51		
20	QPSK	1	99	20.57	20.57	20.50		
20	QPSK	1	149	20.68	20.68	20.61		
20	QPSK	1	199	20.56	20.57	20.59		
20	QPSK	50	0	20.53	20.59	20.52		
20	QPSK	50	24	20.32	20.41	20.30		
20	QPSK	50	50	20.28	20.41	20.30		
20	QPSK	100	0	20.24	20.35	20.25		
20	QPSK	1	49	20.21	20.25	20.22		
20	QPSK	1	99	20.04	20.17	20.11		
20	QPSK	1	149	20.01	20.10	20.05		
20	QPSK	50	24	20.00	20.03	19.95		
20	QPSK	50	50	20.00	20.03	19.95		
20	QPSK	100	0	20.00	20.03	19.95		
20	QPSK	1	0	20.40	20.40	20.30		
20	QPSK	1	49	20.27	20.45	20.23		
20	QPSK	1	99	20.48	20.39	20.30		
20	QPSK	50	0	20.22	20.39	20.30		
20	QPSK	50	24	19.80	19.93	19.75		
20	QPSK	50	50	19.63	19.80	19.78		
20	QPSK	100	0	19.62	19.70	19.61		
20	QPSK	1	49	17.62	17.70	17.66		
20	QPSK	1	99	17.53	17.68	17.53		
20	QPSK	1	149	17.44	17.61	17.53		
20	QPSK	50	24	17.04	17.14	17.07		
20	QPSK	50	50	16.91	17.09	16.93		
20	QPSK	100	0	17.11	17.09	16.93		



Band 38 Other PA Ant2 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)				37465	38050	38150					
20	QPSK	1	0	22.03	22.03	22.01	23	0			
20	QPSK	1	48	21.91	21.97	21.87					
20	QPSK	5	0	20.82	20.86	20.80	22	1			
20	QPSK	50	0	20.95	21.04	20.90					
20	QPSK	50	24	20.90	20.98	20.90	22	1			
20	QPSK	50	48	20.84	20.99	20.90					
20	HQAM	100	0	21.05	21.11	20.99	22	1			
20	HQAM	100	24	20.91	21.05	20.96					
20	HQAM	1	48	19.96	20.00	19.99	21	2			
20	HQAM	50	50	19.94	20.00	19.99					
20	HQAM	50	0	19.96	20.00	19.97	21	2			
20	HQAM	100	0	19.94	20.00	19.90					
20	HQAM	1	48	20.03	20.13	20.00	21	2			
20	HQAM	1	96	20.02	20.07	19.94					
20	HQAM	50	0	19.98	19.91	19.95	20	3			
20	HQAM	50	24	19.96	19.92	19.87					
20	HQAM	50	50	19.94	19.97	19.90	20	3			
20	HQAM	100	0	19.91	19.99	19.87					
20	256QAM	1	0	17.08	17.13	17.08	18	5			
20	256QAM	1	48	17.07	17.10	17.04					
20	256QAM	1	96	16.90	17.05	16.93	18	5			
20	256QAM	50	0	16.93	17.05	16.90					
20	256QAM	50	24	16.84	16.95	16.83	18	5			
20	256QAM	50	50	16.88	17.01	16.89					
20	256QAM	100	0	16.89	17.03	16.89					
Channel											
Frequency (MHz)				37475	38050	38175	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	0	22.03	22.03	22.01	23	0			
15	QPSK	1	37	21.76	21.84	21.77					
15	QPSK	1	74	21.76	21.86	21.71	22	1			
15	QPSK	36	0	20.83	20.85	20.80					
15	QPSK	36	20	20.86	20.89	20.80	22	1			
15	QPSK	36	38	20.73	20.81	20.77					
15	QPSK	75	0	21.01	21.00	20.91	22	1			
15	HQAM	1	0	20.98	21.01	20.87					
15	HQAM	1	37	20.76	20.89	20.80	21	2			
15	HQAM	1	74	20.77	20.92	20.77					
15	HQAM	36	0	19.85	19.96	19.86	21	2			
15	HQAM	36	20	19.85	19.92	19.80					
15	HQAM	36	39	19.90	19.93	19.84	21	2			
15	HQAM	75	0	19.83	19.89	19.80					
15	HQAM	75	20	19.82	19.86	19.75	20	3			
15	HQAM	75	40	19.85	19.87	19.80					
15	HQAM	1	37	19.91	19.94	19.85	20	3			
15	HQAM	1	74	19.87	19.90	19.81					
15	HQAM	36	0	18.85	18.97	18.85	18	5			
15	HQAM	36	20	18.86	18.90	18.83					
15	HQAM	36	39	18.96	18.99	18.90	18	5			
15	HQAM	75	0	18.98	18.95	18.73					
15	256QAM	1	0	16.98	17.09	17.05	18	5			
15	256QAM	1	37	16.92	17.03	16.90					
15	256QAM	1	74	16.79	16.90	16.88	21	2			
15	256QAM	36	0	16.81	16.93	16.87					
15	256QAM	36	20	16.75	16.82	16.77	21	5			
15	256QAM	36	39	16.76	16.82	16.61					
15	256QAM	75	0	16.94	16.91	16.80					
Channel											
Frequency (MHz)				37475.5	38050	38225	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	0	21.91	21.91	21.88	23	0			
5	QPSK	1	25	21.78	21.85	21.77					
5	QPSK	1	48	21.80	21.78	21.66	22	1			
5	QPSK	25	0	20.85	20.85	20.80					
5	QPSK	25	12	20.87	20.94	20.77	22	1			
5	QPSK	25	25	20.72	20.79	20.81					
5	HQAM	1	0	20.95	21.00	20.91	22	1			
5	HQAM	1	0	20.77	21.09	20.91					
5	HQAM	1	25	20.76	20.88	20.80	21	2			
5	HQAM	1	48	20.79	20.89	20.74					
5	HQAM	25	0	19.90	19.98	19.92	21	2			
5	HQAM	25	12	19.78	19.92	19.85					
5	HQAM	25	25	19.83	19.96	19.80	21	2			
5	HQAM	50	0	19.81	19.92	19.87					
5	HQAM	1	0	19.86	20.07	19.95	21	2			
5	HQAM	1	48	19.85	19.95	19.88					
5	HQAM	25	0	19.84	19.97	19.80	20	3			
5	HQAM	25	12	19.80	19.90	19.76					
5	HQAM	25	25	19.86	19.99	19.82	20	3			
5	HQAM	50	0	19.83	19.88	19.73					
5	256QAM	1	0	17.02	17.02	16.98	18	5			
5	256QAM	1	25	16.97	17.02	17.01					
5	256QAM	1	48	16.86	16.97	16.84	18	5			
5	256QAM	25	0	16.88	16.95	16.83					
5	256QAM	25	12	16.76	16.90	16.76	18	5			
5	256QAM	25	25	16.78	16.97	16.75					
5	256QAM	50	0	16.85	16.96	16.81					
Channel											
Frequency (MHz)				37475.5	38050	38225	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	0	21.91	21.91	21.88	23	0			
5	QPSK	1	12	21.81	21.83	21.84					
5	QPSK	1	24	21.75	21.85	21.69	22	1			
5	QPSK	12	0	20.86	21.01	20.82					
5	QPSK	12	7	20.79	20.95	20.76	22	1			
5	QPSK	12	13	20.87	20.79	20.70					
5	HQAM	1	0	21.00	20.99	20.90	22	1			
5	HQAM	1	0	20.87	21.02	20.92					
5	HQAM	1	12	20.81	20.89	20.88	21	2			
5	HQAM	1	24	20.76	20.90	20.76					
5	HQAM	12	0	19.82	19.98	19.86	21	2			
5	HQAM	12	7	19.81	19.91	19.87					
5	HQAM	12	13	19.87	19.94	19.81	21	2			
5	HQAM	25	0	19.79	19.99	19.80					
5	HQAM	1	0	19.98	20.07	19.91	20	3			
5	HQAM	1	12	19.87	19.89	19.90					
5	HQAM	1	24	19.94	19.99	19.81	20	3			
5	HQAM	12	0	18.88	18.99	18.74					
5	HQAM	12	7	18.93	18.99	18.74	18	5			
5	HQAM	12	13	18.91	19.00	18.89					
5	HQAM	25	0	18.83	18.93	18.75	18	5			
5	HQAM	25	0	18.97	17.05	16.98					
5	256QAM	1	12	16.93	16.95	17.01					



Band 2 Other PA Ant3 DS16										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.89	19.90	19.89	21.5	0		
20	QPSK	1	49	19.82	19.89	19.85				
20	QPSK	1	99	19.79	19.78	19.80				
20	QPSK	50	0	19.82	19.80	19.85				
20	QPSK	50	24	19.76	19.80	19.82	21.5	0		
20	QPSK	50	50	19.83	19.80	19.83				
20	QPSK	100	0	19.84	19.82	19.89				
20	QPSK	100	24	19.73	19.80	19.79				
20	16QAM	1	49	19.86	19.89	19.73	21.5	0		
20	16QAM	1	99	19.86	19.86	19.71				
20	16QAM	50	24	19.79	19.80	19.79				
20	16QAM	50	50	19.87	19.80	19.86				
20	16QAM	100	0	19.91	19.82	19.72	21.5	0		
20	16QAM	100	24	19.71	19.80	19.71				
20	64QAM	1	0	19.88	19.82	19.72				
20	64QAM	1	49	19.88	19.85	19.87				
20	64QAM	50	0	19.88	19.80	19.90	21.5	0		
20	64QAM	50	24	19.91	19.79	19.90				
20	64QAM	100	0	19.79	19.80	19.80				
20	64QAM	100	0	19.79	19.85	19.86				
20	256QAM	1	49	19.16	19.27	19.30	20	1.5		
20	256QAM	1	99	19.14	19.30	19.26				
20	256QAM	50	24	19.71	19.80	19.82				
20	256QAM	50	24	19.08	19.23	19.01				
20	256QAM	50	50	19.08	19.12	19.11	20	1.5		
20	256QAM	100	0	19.10	19.20	19.10				
Channel				19.90	19.90	19.90	Turn-up time (sec)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	19.82	19.82	19.79	21.5	0		
15	QPSK	1	49	19.88	19.80	19.73				
15	QPSK	1	74	19.88	19.70	19.72				
15	QPSK	36	0	19.72	19.77	19.80				
15	QPSK	36	39	19.86	19.80	19.80	21.5	0		
15	QPSK	36	39	19.86	19.78	19.82				
15	QPSK	75	0	19.83	19.80	19.85				
15	16QAM	1	0	19.82	19.81	19.82				
15	16QAM	1	37	19.85	19.82	19.83	21.5	0		
15	16QAM	36	74	19.84	19.80	19.86				
15	16QAM	36	0	19.76	19.83	19.77				
15	16QAM	36	20	19.89	19.88	19.89				
15	16QAM	75	0	19.80	19.80	19.88	21.5	0		
15	64QAM	1	0	19.77	19.84	19.88				
15	64QAM	75	0	19.80	19.80	19.88				
15	64QAM	1	74	19.58	19.87	19.75				
15	64QAM	36	0	19.84	19.83	19.90	21.5	0		
15	64QAM	36	39	19.83	19.80	19.85				
15	64QAM	36	39	19.72	19.80	19.70				
15	64QAM	75	0	19.72	19.87	19.76				
15	256QAM	1	37	19.13	19.10	19.23	20	1.5		
15	256QAM	1	74	19.11	19.31	19.12				
15	256QAM	36	39	19.32	19.31	19.32				
15	256QAM	36	20	19.32	19.37	19.12				
15	256QAM	36	39	19.10	19.19	19.21	20	1.5		
15	256QAM	75	0	19.10	19.20	19.18				
Channel				19.90	19.90	19.90	Turn-up time (sec)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	19.85	19.89	19.85	21.5	0		
10	QPSK	1	25	19.78	19.80	19.88				
10	QPSK	1	49	19.73	19.71	19.82				
10	QPSK	25	12	19.81	19.71	19.70				
10	QPSK	25	25	19.78	19.80	19.70	21.5	0		
10	QPSK	25	25	19.78	19.80	19.70				
10	16QAM	1	0	19.71	19.71	19.87				
10	16QAM	1	25	19.75	19.84	19.88				
10	16QAM	25	0	19.89	19.83	19.77	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86				
10	16QAM	25	12	19.87	19.80	19.86	21.5	0		
10	16QAM	25	12							



Band 38 Other PA Ant3 DSI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel				37850	38050	38150				
Frequency (MHz)				217.4	217.5	217.6				
20	QPSK	1	0	21.74	21.77	21.87	22.8	0		
20	QPSK	1	48	21.75	21.72	21.68				
20	QPSK	1	96	21.76	21.63	21.60				
20	QPSK	50	0	21.61	21.74	21.65				
20	QPSK	50	24	21.73	21.68	21.69	22.8	0		
20	QPSK	50	48	21.70	21.58	21.47	22.8	0		
20	QPSK	100	0	21.66	21.70	21.50				
20	16QAM	1	0	21.68	21.70	21.52				
20	16QAM	1	48	21.70	21.58	21.47	22.8	0		
20	16QAM	1	96	21.67	21.68	21.60				
20	16QAM	50	0	20.83	20.64	20.44	21.8	1		
20	16QAM	50	24	20.89	20.69	20.56				
20	16QAM	50	48	20.49	20.70	20.49				
20	16QAM	100	0	20.40	20.71	20.44				
20	16QAM	1	0	20.58	20.58	20.55				
20	64QAM	1	48	20.63	20.74	20.49	21.8	1		
20	64QAM	1	96	20.52	20.51	20.38				
20	64QAM	50	0	19.53	19.58	19.55				
20	64QAM	50	24	19.34	19.57	19.59				
20	64QAM	50	50	19.48	19.57	19.67	20.8	2		
20	64QAM	100	0	19.44	19.62	19.54				
20	256QAM	1	0	17.89	17.84	17.78				
20	256QAM	1	48	17.56	17.78	17.46	18.8	4		
20	256QAM	1	96	17.53	17.66	17.64				
20	256QAM	36	0	17.56	17.78	17.69				
20	256QAM	50	24	17.52	17.61	17.45	18.8	4		
20	256QAM	50	50	17.47	17.77	17.68				
20	256QAM	100	0	17.42	17.61	17.45				
Channel				37850	38050	38150	Tune-up limit (dBm)	MFR (dB)		
Frequency (MHz)				217.4	217.5	217.6				
15	QPSK	1	0	21.63	21.63	21.60	22.8	0		
15	QPSK	1	37	21.65	21.67	21.60				
15	QPSK	1	74	21.56	21.64	21.40				
15	QPSK	36	0	21.62	21.69	21.60	22.8	0		
15	QPSK	36	20	21.61	21.39	21.59				
15	QPSK	75	0	21.48	21.69	21.42				
15	16QAM	1	0	21.63	21.60	21.35	22.8	0		
15	16QAM	1	37	21.63	21.63	21.60				
15	16QAM	1	74	21.40	21.61	21.35				
15	16QAM	36	0	20.55	20.55	20.49	21.8	1		
15	16QAM	36	20	20.32	20.58	20.55				
15	16QAM	36	36	20.29	20.58	20.28				
15	16QAM	75	0	20.29	20.65	20.41				
15	64QAM	1	0	20.34	20.67	20.45	21.8	1		
15	64QAM	1	37	20.61	20.59	20.44				
15	64QAM	1	74	20.48	20.36	20.31				
15	64QAM	36	0	19.54	19.57	19.43	20.8	2		
15	64QAM	36	20	19.21	19.58	19.43				
15	64QAM	75	0	19.36	19.41	19.40				
15	256QAM	1	0	17.50	17.77	17.79	18.8	4		
15	256QAM	1	37	17.52	17.68	17.65				
15	256QAM	1	74	17.54	17.57	17.55				
15	256QAM	36	0	17.41	17.75	17.40	18.8	4		
15	256QAM	36	20	17.52	17.58	17.55				
15	256QAM	36	36	17.38	17.79	17.65				
15	256QAM	75	0	17.58	17.62	17.62				
Channel				37850	38050	38150	Tune-up limit (dBm)	MFR (dB)		
Frequency (MHz)				217.4	217.5	217.6				
5	QPSK	1	0	21.63	21.63	21.60	22.8	0		
5	QPSK	1	25	21.65	21.70	21.65				
5	QPSK	1	48	21.54	21.49	21.46				
5	QPSK	25	0	21.61	21.63	21.64	22.8	0		
5	QPSK	25	12	21.61	21.43	21.54				
5	QPSK	25	25	21.40	21.43	21.51				
5	HQAM	1	0	21.65	21.65	21.64				
5	HQAM	1	0	21.65	21.78	21.44	22.8	0		
5	HQAM	1	25	21.61	21.61	21.27				
5	HQAM	1	48	21.41	21.60	21.56				
5	HQAM	25	0	20.59	20.62	20.43	21.8	1		
5	HQAM	25	12	20.42	20.56	20.54				
5	HQAM	25	25	20.30	20.55	20.51				
5	HQAM	50	0	20.38	20.65	20.60				
5	HQAM	50	0	20.38	20.62	20.31	21.8	1		
5	HQAM	50	12	20.63	20.68	20.31				
5	HQAM	1	48	20.48	20.32	20.34				
5	HQAM	25	0	19.45	19.61	19.45	20.8	2		
5	HQAM	25	12	19.31	19.53	19.38				
5	HQAM	25	25	19.29	19.45	19.37				
5	HQAM	50	0	19.31	19.61	19.40				
5	256QAM	1	0	17.66	17.66	17.66	18.8	4		
5	256QAM	1	48	17.36	17.68	17.59				
5	256QAM	1	96	17.34	17.44	17.61				
5	256QAM	25	0	17.47	17.75	17.38	18.8	4		
5	256QAM	25	12	17.44	17.44	17.46				
5	256QAM	25	25	17.35	17.75	17.62				
5	256QAM	50	0	17.47	17.66	17.37				
5	256QAM	50	0	17.47	17.66	17.37				
Channel				37775	38000	38225	Tune-up limit (dBm)	MFR (dB)		
Frequency (MHz)				216.5	216.6	216.7				
5	QPSK	12	0	21.65	21.65	21.65	22.8	0		
5	QPSK	12	12	21.65	21.70	21.46				
5	QPSK	12	24	21.65	21.65	21.46				
5	QPSK	12	36	21.62	21.60	21.61				
5	QPSK	12	7	21.61	21.63	21.51				
5	16QAM	12	0	21.43	21.43	21.44	21.8	1		
5	16QAM	12	0	21.49	21.59	21.32				
5	16QAM	12	12	21.43	21.47	21.32	22.8	0		
5	16QAM	12	24	21.40	21.59	21.59				
5	16QAM	12	36	20.49	20.54	20.44				
5	16QAM	12	7	20.49	20.49	20.45	21.8	1		
5	16QAM	12	13	20.43	20.58	20.36				
5	16QAM	25	0	20.58	20.58	20.41	21.8	1		
5	16QAM	25	0	20.40	20.60	20.57				
5	64QAM	12	0	19.46	19.68	19.37				
5	64QAM	12	7	19.46	19.46	19.37				
5	64QAM	12	13	19.50	19.38	19.38	20.8	2		
5	64QAM	12	0	19.26	19.41	19.51				
5	256QAM	12	0	17.63	17.63	17.63	18.8	4		
5	256QAM	12	12	17.42	17.64	17.72	18.8	4		
5	256QAM	12	24	17.49	17.66	17.81				
5	256QAM	12	36	17.47	17.68	17.43				
5	256QAM	12	7	17.52	17.62	17.46				
5	256QAM	12	13	17.42	17.67	17.86	18.8	4		

Band 41 Other PA Ant3 DSI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel				38970	40185	40620	41005	41480		
Frequency (MHz)				217.4	217.5	217.6	217.7	217.8		
20	QPSK	1	0	21.76	21.62	21.61	21.65	21.77	22.8	0
20	QPSK	1	48	21.75	21.69	21.65	21.63	21.60		
20	QPSK	1	96	21.68	21.61	21.74	21.60	21.59		
20	QPSK	50	0	21.60	21.42	21.50	21.65	21.71		
20	QPSK	50	24	21.74	21.61	21.78	21.48	21.76	22.8	0
20	QPSK	50	48	21.62	21.59	21.70	21.60	21.59		
20	QPSK	100	0	21.63	21.46	21.74	21.67	21.64		
20	16QAM	1	0	21.63	21.63	21.77	21.60	21.59	22.8	0
20	16QAM	1	48	21.68	21.63	21.71	21.53	21.77		
20	16QAM	1	96	21.63	21.62	21.75	21.59	21.70		
20	16QAM	50	0	20.43	20.61	20.67	20.58	20.47	21.8	1
20	16QAM	50	24	20.35	20.58	20.57	20.48	20.47		
20	16QAM	50	50	20.58	20.54	20.67	20.50	20.48		
20	16QAM	100	0	20.59	20.42	20.67	20.47	20.42		
20	64QAM	1	0	20.62	20.66	20.53	20.57	20.55	21.8	1
20	64QAM	1	48	20.48	20.62	20.71	20.53	20.63		
20	64QAM	1	96	20.57	20.60	20.66	20.52	20.52		
20	64QAM	50	0	19.38	19.49	19.71	19.67	19.35		
20	64QAM	50	24	19.33	19.38	19.50	19.41	19.53	20.8	2
20	64QAM	50	50	19.37	19.58	19.53	19.44	19.53		
20	64QAM	100	0	19.34	19.33	19.61	19.58	19.38		
20	256QAM	1	0	17.62	17.61	17.58	17.61	17.52	18.8	4
20	256QAM	1	48	17.48	17.54	17.62	17.41	17.59		
20	256QAM	1	96	17.40	17.61	17.58	17.48	17.32		
20	256QAM	36	0	17.56	17.56	17.54	17.62	17.62		
20	256QAM	36	24	17.36	17.37	17.43	17.44	17.44	18.8	4
20	256QAM	50	50	17.30	17.47	17.63	17.58	17.43		
20	256QAM	100	0	17.42	17.50	17.63	17.53	17.71		
Channel				38970	40185	40620	41005	41480		
Frequency (MHz)				217.4	217.5	217.6	217.7	217.8		
15	QPSK	1	0	21.63	21.63	21.60	21.65	21.77	22.8	0
15	QPSK	1	37	21.68	21.64	21.67	21.37	21.58		
15	QPSK	1	74	21.64	21.58	21.68	21.61	21.42		
15	QPSK	36	0	21.60	21.25	21.62	21.68	21.52	23	0
15	QPSK	36	20	21.52	21.52	21.62	21.32	21.71		
15	QPSK	36	36	21.58	21.58	21.62	21.68	21.48	22.8	0
15	QPSK	75	0	21.60	21.37	21.71	21.68	21.64		
15	16QAM	1	0	21.51	21.54	21.73	21.39	21.58	22.8	0
15	16QAM	1	37	21.54	21.57	21.63	21.48	21.61		
15	16QAM	1	74	21.56	21.57	21.63	21.48	21.63		
15	16QAM	36	0	20.31	20.62	20.65	20.34	20.47	21.8	1
15	16QAM	36	20	20.23	20.58	20.59	20.34	20.47		
15	16QAM	36	36	20.53	20.42	20.51	20.32	20.34		
15	16QAM	75	0	20.21	20.56	20.61	20.32	20.32		
15	64QAM	1	0	20.48	20.66	20.81	20.55	20.48	21.8	1
15	64QAM	1	37	20.41	20.61	20.62	20.33	20.51		
15	64QAM	1	74	20.48	20.62	20.62	20.34	20.51		
15	64QAM	36	0	19.38	19.49	19.45	19.40	19.34	20.8	2
15	64QAM	36	20	19.30	19.53	19.40	19.35	19.41		
15	64QAM	36	36	19.20	19.20	19.30	19.30	19.37		
15	64QAM	75	0	19.34	19.23	19.32	19.59	19.36		
15	256QAM	1	0	17.42	17.44	17.44	17.42	17.44	18.8	4
15	256QAM	1	37	17.32	17.44	17.50	17.27	17.46		
15	256QAM	1	74	17.30	17.46	17.50	17.43	17.23		
15	256QAM	36	0	17.46	17.35	17.43	17.43	17.54	18.8	4
15	256QAM	36	20	17.22	17.38	17.41	17.34	17.27		
15	256QAM	36	36	17.25	17.25	17.49	17.46	17.26		
15	256QAM	75	0	17.40	17.48	17.53	17.32	17.52		
Channel				38970	40185	40620	41005	41480		
Frequency (MHz)				217.4	217.5	217.6	217.7	217.8		
10	QPSK	1	0	21.63	21.63	21.60	21.65	21.77	22.8	0
10	QPSK	1	25	21.71	21.63	21.68	21.38	21.60		
10	QPSK	1	50	21.66	21.54	21.73	21.68	21.58		
10	QPSK	25	0	21.46	21.41	21.45	21.59	21.57	23	0
10	QPSK	25	12	21.54	21.51	21.61	21.41	21.59		
10	QPSK	25	37	21.60	21.52	21.62	21.37	21.60	22.8	0
10	QPSK	50	0	21.63	21.45	21.65	21.68	21.48		
10	16QAM	1	0	21.47	21.38	21.75	21.53	21.39	22.8	0
10	16QAM	1	25	21.56	21.41	21.62	21.42	21.61		
10	16QAM	1	49	21.44	21.52	21.70	21.42	21.54		
10	16QAM	25	0	20.32	20.49	20.54	20.34	20.26	21.8	1
10	16QAM	25	12	20.38	20.48	20.54	20.34	20.26		
10	16QAM	25	37	20.38	20.51	20.42	20.42	20.49		
10	16QAM	50	0	20.52	20.30	20.59	20.34	20.38		
10	64QAM	1	0	20.49	20.65	20.48	20.43	20.41	21.8	1
10	64QAM	1	25	20.37	20.59	20.38	20.33	20.45		
10	64QAM	1	49	20.54	20.66	20.48	20.43	20.48		
10	64QAM	25	0	19.26	19.45	19.50	19.56	19.49	20.8	2
10	64QAM	25	12	19.35	19.43	19.50	19.42	19.32		
10	64QAM	25	37	19.26	19.48	19.43	19.37	19.37		
10	64QAM	50	0	19.26	19.38	19.47	19.58	19.20		
10	256QAM	1	0	17.41	17.47	17.47	17.47	17.39	18.8	4
10	256QAM	1	25	17.36	17.34	17.37	17.22	17.62		
10	256QAM	1	49	17.42	17.43	17.63	17.40	17.23		
10	256QAM	25	0	17.27	17.41	17.43	17.43	17.56	18.8	4
10	256QAM	25	12	17.31	17.37	17.31	17.41	17.38		
10	256QAM	25	37	17.32	17.28	17.63	17.51	17.44		
10	256QAM	50	0	17.49	17.53	17.64	17.43	17.43		
Channel				38970	40185	40620	41005	41480		
Frequency (MHz)				217.4	217.5	217.6	217.7	217.8		
5	QPSK	1	0	21.63	21.63	21.60	21.65	21.77	22.8	0
5	QPSK	1	12	21.74	21.50	21.61	21.39	21.62	23	0
5	QPSK	1	25	21.66	21.48	21.61	21.37	21.58		
5	QPSK	12	0	21.63	21.23	21.61	21.61	21.49		
5	QPSK	12	7	21.66	21.48	21.56	21.62	21.43	22.8	0
5	16QAM	1	0	21.43	21.32	21.78	21.59	21.37	22.8	0
5	16QAM	1	12	21.42	21.40	21.71	21.46	21.37		
5	16QAM	1	25	21.67	21.51	21.65	21.41	21.61		
5	16QAM	12	0	21.55	21.43	21.69	21.49	21.65		
5	16QAM	12	7	20.26	20.56	20.61	20.32	20.23	21.8	1
5	16QAM	12	7	20.25	20.47	20.49	20.34	20.30		
5	64QAM	1	0	20.56	20.63	20.45	20.45	20.45	21.8	1
5	64QAM	1	12	20.34	20.42	20.43	20.33	20.38		
5	64QAM	1	25	20.51	20.62	20.45	20.45	20.45		
5	64QAM	12	0	19.38	19.42	19.59	19.63	19.57	20.8	2
5	64QAM	12	7	19.34	19.39	19.43	19.43	19.43		
5	64QAM	12	12	19.20	19.45	19.43	19.40	19.40		
5	64QAM	25	0	19.31	19.30	19.42	19.48	19.37		
5	256QAM	1	0	17.46	17.46	17.46	17.46	17.46	18.8	4
5	256QAM	1	12	17.47	17.34	17.37	17.31	17.41		
5	256QAM	1	25	17.40	17.47	17.41	17.27	17.31		
5	256QAM	12	0	17.30	17.47	17.47	17.40	17.40	18.8	4
5	256QAM	12	7	17.33	17.22	17.34	17.40	17.40		
5	256QAM	12	12	17.30	17.59	17.62	17.36	17.22		
5	256QAM	25	0	17.49	17.53	17.64	17.43	17.43		



Band 2 Other PA Ant0 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hsp / Freq	Power Hsp / Freq	Time-up Interval (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.17	22.18	22.23	23.4	0	
20	QPSK	1	0	22.17	22.18	22.12			
20	QPSK	1	99	22.15	22.20	22.07			
20	QPSK	50	0	22.09	22.20	22.09			
20	QPSK	50	0	22.05	22.10	22.10			
20	QPSK	50	50	22.03	22.09	22.12	23.4	0	
20	QPSK	100	0	22.05	22.10	22.10			
20	QPSK	100	0	22.05	22.10	22.10			
20	QPSK	100	0	22.05	22.10	22.10			
20	QPSK	100	0	22.05	22.10	22.10			
20	16QAM	1	49	22.12	22.09	22.20	23.4	0	
20	16QAM	1	99	22.11	22.16	22.21			
20	16QAM	50	0	21.98	22.12	22.16			
20	16QAM	50	24	21.99	22.12	22.06			
20	16QAM	50	50	22.04	22.06	22.04			
20	16QAM	100	0	22.05	22.10	22.04	23.4	0	
20	16QAM	100	0	22.13	22.10	22.01			
20	16QAM	1	49	22.07	22.20	22.08			
20	16QAM	1	99	22.07	22.20	22.08			
20	16QAM	50	0	21.92	21.94	21.92			
20	16QAM	50	24	21.95	21.96	21.95	23.4	0	
20	16QAM	50	50	21.98	21.95	21.98			
20	16QAM	100	0	21.98	21.95	21.98			
20	16QAM	100	0	21.98	21.95	21.98			
20	16QAM	100	0	21.98	21.95	21.98			
20	16QAM	1	49	21.93	21.94	21.93	20.9	2.5	
20	16QAM	1	99	21.95	21.92	21.94			
20	16QAM	50	0	21.84	21.92	21.94			
20	16QAM	50	24	21.94	21.92	21.93			
20	16QAM	50	50	21.94	21.92	21.93			
20	16QAM	100	0	21.94	21.92	21.93	20.9	2.5	
20	16QAM	100	0	21.94	21.92	21.93			
20	16QAM	100	0	21.94	21.92	21.93			
20	16QAM	100	0	21.94	21.92	21.93			
20	16QAM	100	0	21.94	21.92	21.93			
20	16QAM	100	0	21.94	21.92	21.93			
20	16QAM	100	0	21.94	21.92	21.93			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.13	22.24	22.21	23.4	0	
15	QPSK	1	0	22.13	22.24	22.18			
15	QPSK	1	74	21.99	22.00	22.03			
15	QPSK	36	0	21.96	22.05	21.98			
15	QPSK	36	0	21.97	22.10	22.12			
15	QPSK	36	39	21.87	22.07	21.94	23.4	0	
15	QPSK	75	0	21.81	22.01	21.92			
15	QPSK	75	0	21.81	22.01	21.92			
15	QPSK	75	0	21.81	22.01	21.92			
15	QPSK	75	0	21.81	22.01	21.92			
15	QPSK	1	37	22.02	22.05	22.17	23.4	0	
15	QPSK	1	37	22.02	22.05	22.17			
15	QPSK	36	0	21.94	22.13	22.08			
15	QPSK	36	20	21.91	22.04	22.07			
15	QPSK	36	20	21.92	22.10	22.00			
15	QPSK	75	0	21.92	22.10	22.00	23.4	0	
15	QPSK	75	0	21.92	22.10	22.00			
15	QPSK	75	0	21.92	22.10	22.00			
15	QPSK	75	0	21.92	22.10	22.00			
15	QPSK	75	0	21.92	22.10	22.00			
15	QPSK	1	74	22.12	22.15	22.02	23.4	0	
15	QPSK	36	0	21.96	21.93	21.93			
15	QPSK	36	0	21.96	21.93	21.93			
15	QPSK	36	39	21.86	21.97	21.95			
15	QPSK	75	0	21.80	21.95	21.94			
15	QPSK	75	0	21.80	21.95	21.94	23.4	0	
15	QPSK	75	0	21.80	21.95	21.94			
15	QPSK	75	0	21.80	21.95	21.94			
15	QPSK	75	0	21.80	21.95	21.94			
15	QPSK	75	0	21.80	21.95	21.94			
15	QPSK	1	37	22.09	22.12	22.06	20.9	2.5	
15	QPSK	1	37	22.09	22.12	22.06			
15	QPSK	36	0	21.93	22.01	21.97			
15	QPSK	36	20	21.92	22.07	21.97			
15	QPSK	36	20	21.92	22.07	21.97			
15	QPSK	75	0	21.87	21.94	21.92	20.9	2.5	
15	QPSK	75	0	21.87	21.94	21.92			
15	QPSK	75	0	21.87	21.94	21.92			
15	QPSK	75	0	21.87	21.94	21.92			
15	QPSK	75	0	21.87	21.94	21.92			
15	QPSK	75	0	21.87	21.94	21.92			
15	QPSK	75	0	21.87	21.94	21.92			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.06	22.03	22.03	23.4	0	
10	QPSK	1	25	22.05	22.03	22.03			
10	QPSK	1	49	22.00	22.24	22.00			
10	QPSK	1	49	22.00	22.24	22.00			
10	QPSK	25	13	21.99	22.04	22.08			
10	QPSK	25	13	21.96	21.97	21.96	23.4	0	
10	QPSK	25	13	21.96	21.97	21.96			
10	QPSK	25	13	21.96	21.97	21.96			
10	QPSK	25	13	21.96	21.97	21.96			
10	QPSK	25	13	21.96	21.97	21.96			
10	QPSK	1	0	22.06	22.00	22.00	23.4	0	
10	QPSK	1	25	22.00	22.01	22.21			
10	QPSK	25	13	21.99	22.08	22.08			
10	QPSK	25	13	21.99	22.08	22.08			
10	QPSK	25	13	21.99	22.08	22.08			
10	QPSK	1	49	22.09	22.12	22.06	23.4	0	
10	QPSK	1	49	22.09	22.12	22.06			
10	QPSK	25	13	21.93	22.10	21.97			
10	QPSK	25	13	21.93	22.10	21.97			
10	QPSK	25	13	21.93	22.10	21.97			
10	QPSK	1	0	22.06	22.00	22.00	23.4	0	
10	QPSK	1	0	22.06	22.00	22.00			
10	QPSK	1	0	22.06	22.00	22.00			
10	QPSK	1	0	22.06	22.00	22.00			
10	QPSK	1	0	22.06	22.00	22.00			
10	QPSK	1	12	22.08	22.10	22.12	23.4	0	
10	QPSK	1	12	22.08	22.10	22.12			
10	QPSK	1	24	21.96	22.03	21.98			
10	QPSK	1	24	21.96	22.03	21.98			
10	QPSK	1	24	21.96	22.03	21.98			
10	QPSK	12	7	21.86	22.01	21.85	23.4	0	
10	QPSK	12	7	21.86	22.01	21.85			
10	QPSK	12	13	21.97	21.93	21.99			
10	QPSK	12	13	21.97	21.93	21.99			
10	QPSK	12	13	21.97	21.93	21.99			
10	QPSK	1	0	21.90	22.14	21.98	23.4	0	
10	QPSK	1	0	21.90	22.14	21.98			
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05	22.12	23.4	0	
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05	22.12	23.4	0	
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05	22.12			
10	QPSK	1	12	21.98	22.05				



Band 38 Other PA Ant0 DS19										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Frsq	Power High Ch / Frsq	Power Low Ch / Frsq	Power High Ch / Frsq	Tune-up limit (dBm)	MFR (dB)	
Channel										
Frequency (MHz)				37495	38090	38190				
20	QPSK	1	0	19.89	20.50	19.84		21.5	0	
20	QPSK	1	49	19.80	19.79	19.79				
20	QPSK	1	89	19.70	19.84	19.76				
20	QPSK	50	0	19.80	19.80	19.74				
20	QPSK	50	24	19.72	19.83	19.72		21.5	0	
20	QPSK	50	49	19.77	19.78	19.76				
20	QPSK	100	0	19.83	19.85	19.82				
20	QPSK	100	1	19.86	19.84	19.86		21.5	0	
20	QPSK	100	1	19.89	19.84	19.85				
20	QPSK	50	24	19.89	19.84	19.85		21.5	0	
20	QPSK	50	50	19.89	19.84	19.85				
20	QPSK	100	0	19.75	19.79	19.81				
20	QPSK	100	1	19.80	19.83	19.81				
20	QPSK	100	1	19.82	19.81	19.78		21.5	0	
20	QPSK	50	24	19.75	19.82	19.87		21.5	0	
20	QPSK	50	24	19.72	19.85	19.85				
20	QPSK	50	50	19.85	19.89	19.78		21.5	0	
20	QPSK	100	0	19.75	19.86	19.86				
20	QPSK	100	0	19.74	19.85	19.82				
20	QPSK	100	1	19.81	19.84	19.82		19.5	2	
20	QPSK	100	1	19.82	19.81	19.86				
20	QPSK	100	1	19.80	19.75	19.88				
20	QPSK	50	24	19.85	19.78	19.88				
20	QPSK	50	50	19.87	19.78	19.82		19.5	2	
20	QPSK	100	0	19.85	19.88	19.82				
20	QPSK	100	0	19.85	19.88	19.82				
Channel										
Frequency (MHz)				37495	38090	38090	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	19.74	19.74	19.74		21.5	0	
15	QPSK	1	37	19.71	19.84	19.68				
15	QPSK	1	74	19.61	19.74	19.70				
15	QPSK	36	0	19.79	19.81	19.81				
15	QPSK	36	20	19.69	19.61	19.61		21.5	0	
15	QPSK	36	36	19.69	19.78	19.62				
15	QPSK	75	0	19.63	19.82	19.61				
15	QPSK	75	0	19.67	19.75	19.58		21.5	0	
15	QPSK	75	0	19.69	19.75	19.61				
15	QPSK	75	0	19.70	19.75	19.65				
15	QPSK	36	20	19.67	19.80	19.80		21.5	0	
15	QPSK	36	36	19.69	19.81	19.81				
15	QPSK	36	36	19.74	19.81	19.85				
15	QPSK	75	0	19.61	19.78	19.88				
15	QPSK	75	0	19.62	19.78	19.82		21.5	0	
15	QPSK	75	0	19.63	19.79	19.82				
15	QPSK	75	0	19.65	19.81	19.82				
15	QPSK	75	0	19.66	19.82	19.83		21.5	0	
15	QPSK	75	0	19.67	19.83	19.84				
15	QPSK	75	0	19.68	19.84	19.84				
15	QPSK	75	0	19.69	19.85	19.85		21.5	0	
15	QPSK	75	0	19.70	19.86	19.86				
15	QPSK	75	0	19.71	19.87	19.87				
15	QPSK	75	0	19.72	19.88	19.88		21.5	0	
15	QPSK	75	0	19.73	19.89	19.89				
15	QPSK	75	0	19.74	19.90	19.90				
15	QPSK	75	0	19.75	19.91	19.91		21.5	0	
15	QPSK	75	0	19.76	19.92	19.92				
15	QPSK	75	0	19.77	19.93	19.93				
15	QPSK	75	0	19.78	19.94	19.94		21.5	0	
15	QPSK	75	0	19.79	19.95	19.95				
15	QPSK	75	0	19.80	19.96	19.96				
15	QPSK	75	0	19.81	19.97	19.97		21.5	0	
15	QPSK	75	0	19.82	19.98	19.98				
15	QPSK	75	0	19.83	19.99	19.99				
15	QPSK	75	0	19.84	20.00	20.00		21.5	0	
15	QPSK	75	0	19.85	20.01	20.01				
15	QPSK	75	0	19.86	20.02	20.02				
15	QPSK	75	0	19.87	20.03	20.03		21.5	0	
15	QPSK	75	0	19.88	20.04	20.04				
15	QPSK	75	0	19.89	20.05	20.05				
15	QPSK	75	0	19.90	20.06	20.06		21.5	0	
15	QPSK	75	0	19.91	20.07	20.07				
15	QPSK	75	0	19.92	20.08	20.08				
15	QPSK	75	0	19.93	20.09	20.09		21.5	0	
15	QPSK	75	0	19.94	20.10	20.10				
15	QPSK	75	0	19.95	20.11	20.11				
15	QPSK	75	0	19.96	20.12	20.12		21.5	0	
15	QPSK	75	0	19.97	20.13	20.13				
15	QPSK	75	0	19.98	20.14	20.14				
15	QPSK	75	0	19.99	20.15	20.15		21.5	0	
15	QPSK	75	0	20.00	20.16	20.16				
15	QPSK	75	0	20.01	20.17	20.17				
15	QPSK	75	0	20.02	20.18	20.18		21.5	0	
15	QPSK	75	0	20.03	20.19	20.19				
15	QPSK	75	0	20.04	20.20	20.20				
15	QPSK	75	0	20.05	20.21	20.21		21.5	0	
15	QPSK	75	0	20.06	20.22	20.22				
15	QPSK	75	0	20.07	20.23	20.23				
15	QPSK	75	0	20.08	20.24	20.24		21.5	0	
15	QPSK	75	0	20.09	20.25	20.25				
15	QPSK	75	0	20.10	20.26	20.26				
15	QPSK	75	0	20.11	20.27	20.27		21.5	0	
15	QPSK	75	0	20.12	20.28	20.28				
15	QPSK	75	0	20.13	20.29	20.29				
15	QPSK	75	0	20.14	20.30	20.30		21.5	0	
15	QPSK	75	0	20.15	20.31	20.31				
15	QPSK	75	0	20.16	20.32	20.32				
15	QPSK	75	0	20.17	20.33	20.33		21.5	0	
15	QPSK	75	0	20.18	20.34	20.34				
15	QPSK	75	0	20.19	20.35	20.35				
15	QPSK	75	0	20.20	20.36	20.36		21.5	0	
15	QPSK	75	0	20.21	20.37	20.37				
15	QPSK	75	0	20.22	20.38	20.38				
15	QPSK	75	0	20.23	20.39	20.39		21.5	0	
15	QPSK	75	0	20.24	20.40	20.40				
15	QPSK	75	0	20.25	20.41	20.41				
15	QPSK	75	0	20.26	20.42	20.42		21.5	0	
15	QPSK	75	0	20.27	20.43	20.43				
15	QPSK	75	0	20.28	20.44	20.44				
15	QPSK	75	0	20.29	20.45	20.45		21.5	0	
15	QPSK	75	0	20.30	20.46	20.46				
15	QPSK	75	0	20.31	20.47	20.47				
15	QPSK	75	0	20.32	20.48	20.48		21.5	0	
15	QPSK	75	0	20.33	20.49	20.49				
15	QPSK	75	0	20.34	20.50	20.50				
15	QPSK	75	0	20.35	20.51	20.51		21.5	0	
15	QPSK	75	0	20.36	20.52	20.52				
15	QPSK	75	0	20.37	20.53	20.53				
15	QPSK	75	0	20.38	20.54	20.54		21.5	0	
15	QPSK	75	0	20.39	20.55	20.55				
15	QPSK	75	0	20.40	20.56	20.56				
15	QPSK	75	0	20.41	20.57	20.57		21.5	0	
15	QPSK	75	0	20.42	20.58	20.58				
15	QPSK	75	0	20.43	20.59	20.59				
15	QPSK	75	0	20.44	20.60	20.60		21.5	0	
15	QPSK	75	0	20.45	20.61	20.61				
15	QPSK	75	0	20.46	20.62	20.62				
15	QPSK	75	0	20.47	20.63	20.63		21.5	0	
15	QPSK	75	0	20.48	20.64	20.64				
15	QPSK	75	0	20.49	20.65	20.65				
15	QPSK	75	0	20.50	20.66	20.66		21.5	0	
15	QPSK	75	0	20.51	20.67	20.67				
15	QPSK	75	0	20.52	20.68	20.68				
15	QPSK	75	0	20.53	20.69	20.69		21.5	0	
15	QPSK	75	0	20.54	20.70	20.70				
15	QPSK	75	0	20.55	20.71	20.71				
15	QPSK	75	0	20.56	20.72	20.72		21.5	0	
15	QPSK	75	0	20.57	20.73	20.73				
15	QPSK	75	0	20.58	20.74	20.74				
15	QPSK	75	0	20.59	20.75	20.75		21.5	0	
15	QPSK	75	0	20.60	20.76	20.76				
15	QPSK	75	0	20.61	20.77	20.77				
15	QPSK	75	0	20.62	20.78	20.78		21.5	0	
15	QPSK	75	0	20.63	20.79	20.79				
15	QPSK	75	0	20.64	20.80	20.80				
15	QPSK	75	0	20.65	20.81	20.81		21.5	0	
15	QPSK	75	0	20.66	20.82	20.82				
15	QPSK	75	0	20.67	20.83	20.83				
15	QPSK	75	0	20						



Band 2 Other PA Ant1 DSI9										
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turn-up Time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	12.81	12.82	12.72				
20	QPSK	1	49	12.81	12.75	12.85	13.7	0		
20	QPSK	1	99	12.79	12.89	12.86				
20	QPSK	50	0	12.72	12.63	12.59				
20	QPSK	50	24	12.69	12.56	12.84				
20	QPSK	50	50	12.76	12.78	12.52				
20	QPSK	100	0	12.81	12.64	12.80				
20	16QAM	1	49	12.65	12.70	12.81	13.7	0		
20	16QAM	50	99	12.68	12.52	12.46				
20	16QAM	50	99	12.76	12.58	12.80				
20	16QAM	50	24	12.75	12.89	12.58	13.7	0		
20	16QAM	50	50	12.67	12.54	12.86				
20	16QAM	100	0	12.78	12.67	12.59				
20	64QAM	1	49	12.73	12.58	12.41	13.7	0		
20	64QAM	1	99	12.76	12.58	12.80				
20	64QAM	50	0	12.57	12.79	12.47				
20	64QAM	50	24	12.70	12.59	12.44	13.7	0		
20	64QAM	50	50	12.67	12.54	12.86				
20	64QAM	100	0	12.76	12.69	12.52				
20	256QAM	1	49	12.78	12.63	12.52	13.7	0		
20	256QAM	1	99	12.78	12.72	12.58				
20	256QAM	50	0	12.61	12.52	12.65				
20	256QAM	50	24	12.68	12.47	12.53	13.7	0		
20	256QAM	50	50	12.75	12.78	12.66				
20	256QAM	100	0	12.62	12.53	12.83	13.7	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	12.87	12.88	12.80				
15	QPSK	1	0	12.77	12.75	12.85				
15	QPSK	1	37	12.80	12.62	12.75	13.7	0		
15	QPSK	1	74	12.58	12.78	12.59				
15	QPSK	36	0	12.65	12.54	12.64				
15	QPSK	36	24	12.60	12.48	12.80				
15	QPSK	36	39	12.72	12.71	12.44	13.7	0		
15	QPSK	75	0	12.67	12.63	12.63				
15	16QAM	1	49	12.44	12.62	12.84				
15	16QAM	1	37	12.59	12.69	12.40	13.7	0		
15	16QAM	36	74	12.69	12.45	12.37				
15	16QAM	36	20	12.73	12.63	12.49	13.7	0		
15	16QAM	75	0	12.47	12.57	12.47				
15	64QAM	1	0	12.80	12.55	12.45				
15	64QAM	1	99	12.68	12.53	12.54	13.7	0		
15	64QAM	1	74	12.73	12.57	12.48				
15	64QAM	36	0	12.45	12.78	12.35				
15	64QAM	36	24	12.71	12.53	12.45	13.7	0		
15	64QAM	36	39	12.53	12.45	12.53				
15	64QAM	75	0	12.69	12.47	12.48				
15	256QAM	1	37	12.77	12.70	12.54	13.7	0		
15	256QAM	1	74	12.67	12.60	12.48				
15	256QAM	36	24	12.65	12.47	12.45				
15	256QAM	36	39	12.71	12.68	12.48	13.7	0		
15	256QAM	75	0	12.43	12.37	12.46				
Channel										
Frequency (MHz)										
10	QPSK	1	0	12.86	12.86	12.76				
10	QPSK	1	25	12.89	12.62	12.75	13.7	0		
10	QPSK	1	49	12.76	12.62	12.55				
10	QPSK	25	12	12.55	12.49	12.27				
10	QPSK	25	25	12.64	12.54	12.39				
10	QPSK	25	49	12.64	12.54	12.39				
10	16QAM	1	0	12.52	12.54	12.65				
10	16QAM	1	25	12.65	12.60	12.48	13.7	0		
10	16QAM	25	12	12.66	12.49	12.48				
10	16QAM	25	12	12.63	12.80	12.40	13.7	0		
10	16QAM	25	12	12.64	12.65	12.45				
10	16QAM	50	0	12.62	12.67	12.61				
10	64QAM	1	0	12.69	12.75	12.65	13.7	0		
10	64QAM	1	49	12.61	12.65	12.45				
10	64QAM	25	0	12.47	12.70	12.45				
10	64QAM	25	12	12.48	12.37	12.45	13.7	0		
10	64QAM	25	25	12.64	12.53	12.45				
10	64QAM	50	0	12.72	12.58	12.45				
10	256QAM	1	12	12.61	12.71	12.54	13.7	0		
10	256QAM	1	25	12.68	12.60	12.57				
10	256QAM	49	12.58	12.67	12.57					
10	256QAM	25	12	12.63	12.49	12.50	13.7	0		
10	256QAM	25	25	12.54	12.63	12.54				
10	256QAM	50	12	12.48	12.39	12.47				
Channel										
Frequency (MHz)										
5	QPSK	1	0	12.70	12.80	12.85				
5	QPSK	1	12	12.80	12.60	12.80	13.7	0		
5	QPSK	1	24	12.79	12.67	12.49				
5	QPSK	12	0	12.84	12.74	12.49				
5	QPSK	12	7	12.61	12.71	12.63				
5	QPSK	12	13	12.67	12.66	12.55				
5	16QAM	1	0	12.45	12.60	12.61	13.7	0		
5	16QAM	1	12	12.48	12.68	12.61				
5	16QAM	12	0	12.60	12.49	12.35				
5	16QAM	12	7	12.67	12.66	12.53	13.7	0		
5	16QAM	12	13	12.74	12.65	12.61				
5	16QAM	25	0	12.60	12.49	12.35				
5	64QAM	1	0	12.77	12.66	12.49	13.7	0		
5	64QAM	1	12	12.67	12.47	12.30				
5	64QAM	12	7	12.63	12.62	12.49	13.7	0		
5	64QAM	12	13	12.45	12.67	12.39				
5	256QAM	1	24	12.61	12.67	12.47				
5	256QAM	1	12	12.52	12.62	12.47	13.7	0		
5	256QAM	12	13	12.63	12.49	12.41				
5	256QAM	25	12	12.50	12.55	12.29	13.7	0		
5	256QAM	12	7	12.70	12.62	12.57				
5	256QAM	12	13	12.61	12.49	12.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	12.80	12.82	12.86				
3	QPSK	1	8	12.82	12.70	12.84	13.7	0		
3	QPSK	1	14	12.81	12.75	12.53				
3	QPSK	8	0	12.54	12.86	12.84				
3	QPSK	8	4	12.53	12.38	12.33	13.7	0		
3	QPSK	8	7	12.67	12.64	12.32				
3	16QAM	1	0	12.58	12.59	12.52				
3	16QAM	1	0	12.50	12.69	12.61	13.7	0		
3	16QAM	1	8	12.67	12.70	12.56				
3	16QAM	8	4	12.69	12.40	12.36				
3	16QAM	8	4	12.67	12.60	12.46	13.7	0		
3	16QAM	15	0	12.61	12.49	12.44				
3	16QAM	15	0	12.49	12.50	12.56				
3	64QAM	1	0	12.74	12.67	12.47	13.7	0		
3	64QAM	1	0	12.73	12.48	12.24				
3	64QAM	1	14	12.69	12.58	12.48				
3	64QAM	8	0	12.50	12.61	12.48				
3	64QAM	8	4	12.58	12.40	12.33	13.7	0		
3	64QAM	8	7	12.56	12.67	12.37				
3	256QAM	1	0	12.62	12.59	12.26				
3	256QAM	1	8	12.69	12.57	12.55	13.7	0		
3	256QAM	8	0	12.63	12.57	12.40				
3	256QAM	8	4	12.55	12.44	12.48				
3	256QAM	8	4	12.75	12.58	12.28	13.7	0		
3	256QAM	15	0	12.63	12.49	12.43				
3	256QAM	15	0	12.41	12.52	12.54				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	12.74	12.67	12.52				
1.4	QPSK	1	5	12.67	12.60	12.47	13.7	0		
1.4	QPSK	3	0	12.63	12.72	12.58				
1.4	QPSK	3	1	12.49	12.56	12.33				
1.4	16QAM	1	0	12.71	12.56	12.53	13.7	0		
1.4	16QAM	1	5	12.68	12.58	12.53				
1.4	16QAM	3	0	12.71	12.56	12.53				
1.4	16QAM	3	1	12.71	12.56	12.33				
1.4	QPSK	6	0	12.48	12.80	12.63	13.7	0		
1.4	QPSK	6	1	12.48	12.49	12.49				
1.4	QPSK	6	3	12.50	12.59	12.55				
1.4	16QAM	1	5	12.69	12.51	12.45	13.7	0		
1.4	16QAM	1	5	12.43	12.43	12.43				
1.4	16QAM	3	1	12.61	12.63	12.60				
1.4	16QAM	3	3	12.65	12.49	12.43	13.7	0		
1.4	16QAM	3	3	12.71	12.44	12.29				
1.4	16QAM	6	0	12.67	12.49	12.43				
1.4	16QAM	6	1	12.73	12.57	12.43	13.7	0		
1.4	16QAM	6	1	12.53	12.48	12.38				
1.4	16QAM	6	3	12.71	12.49	12.38				
1.4	16QAM	6	3	12.63	12.68	12.57				
1.4	256QAM	1	5	12.61	12.56	12.54				
1.4	256QAM	1	5	12.45	12.45	12.45				
1.4	256QAM	3	3	12.65	12.61	12.46				
1.4	256QAM	3	3	12.65	12.61	12.46	13.7	0		



Band 38 Other PA Ant1 DS19									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				37860	38000	38160			
20	QPSK	1	0	16.37	16.60	16.46			
20	QPSK	1	49	16.56	16.61	16.57		17.3	0
20	QPSK	1	99	16.46	16.52	16.37			
20	QPSK	50	0	16.58	16.63	16.46			
20	QPSK	50	24	16.52	16.60	16.34		17.3	0
20	QPSK	50	50	16.38	16.59	16.36			
20	QPSK	100	0	16.46	16.58	16.36			
20	QPSK	100	1	16.43	16.57	16.37		17.3	0
20	QPSK	1	49	16.41	16.58	16.36			
20	QPSK	1	99	16.28	16.27	16.26			
20	QPSK	50	24	16.34	16.45	16.34		17.3	0
20	QPSK	50	50	16.31	16.47	16.34			
20	QPSK	100	50	16.47	16.49	16.16			
20	QPSK	100	0	16.27	16.29	16.26			
20	QPSK	100	1	16.24	16.28	16.24			
20	QPSK	1	49	16.43	16.23	16.23		17.3	0
20	QPSK	1	99	16.27	16.43	16.24			
20	QPSK	50	0	16.37	16.38	16.22			
20	QPSK	50	24	16.35	16.27	16.23		17.3	0
20	QPSK	50	50	16.27	16.38	16.21			
20	QPSK	100	0	16.27	16.38	16.21			
Channel									
Frequency (MHz)				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	16.15	16.52	16.54			
15	QPSK	1	37	16.43	16.58	16.40		17.3	0
15	QPSK	1	74	16.39	16.38	16.36			
15	QPSK	36	0	16.42	16.49	16.27			
15	QPSK	36	20	16.42	16.60	16.21		17.3	0
15	QPSK	36	36	16.38	16.59	16.27			
15	QPSK	75	0	16.36	16.43	16.26			
15	QPSK	75	0	16.31	16.52	16.36		17.3	0
15	QPSK	75	0	16.20	16.53	16.36			
15	QPSK	1	37	16.43	16.58	16.40			
15	QPSK	1	74	16.39	16.38	16.36			
15	QPSK	36	0	16.21	16.23	16.36			
15	QPSK	36	20	16.12	16.40	16.36		17.3	0
15	QPSK	36	36	16.33	16.39	16.36			
15	QPSK	75	0	16.09	16.46	16.16			
15	QPSK	75	0	16.04	16.07	16.14		17.3	0
15	QPSK	75	0	16.04	16.07	16.14			
Channel									
Frequency (MHz)				37760	38000	38220	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	16.44	16.47	16.44			
10	QPSK	1	25	16.44	16.57	16.48		17.3	0
10	QPSK	1	49	16.48	16.41	16.23			
10	QPSK	25	12	16.33	16.55	16.16		17.3	0
10	QPSK	25	25	16.17	16.48	16.23			
10	QPSK	25	49	16.18	16.08	16.17			
10	QPSK	25	74	16.27	16.08	16.26		17.3	0
10	QPSK	1	25	16.27	16.45	16.16			
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.32	16.20			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10	QPSK	25	12	16.27	16.28	16.21		17.3	0
10	QPSK	25	25	16.28	16.45	16.11			
10	QPSK	25	49	16.18	16.33	16.31			
10	QPSK	25	74	16.32	16.46	16.28			
10	QPSK	1	25	16.32	16.46	16.16		17.3	0
10	QPSK	1	49	16.18	16.08	16.17			
10	QPSK	25	0	16.32	16.46	16.28			
10</									



Band 2 Other PA Ant2 DS19i													
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Turn-up time (sec)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	20.19	20.23	20.12	21	0					
20	QPSK	1	49	20.09	20.25	20.09		21					
20	QPSK	1	99	20.09	20.25	20.09			21				
20	QPSK	50	0	20.05	20.31	20.02							
20	QPSK	50	50	19.99	20.20	20.00	21	0					
20	QPSK	100	0	20.20	20.25	20.00		21					
20	QPSK	100	50	19.97	20.21	19.97			21				
20	16QAM	1	49	20.02	20.19	19.92				21	0		
20	16QAM	1	99	20.21	20.16	19.98	21						
20	16QAM	50	0	20.17	20.26	20.02		21					
20	16QAM	50	50	20.07	20.10	20.08			21		0		
20	16QAM	100	0	19.98	20.22	19.99	21	0					
20	16QAM	100	50	20.09	20.24	20.09		21	0				
20	64QAM	1	0	20.21	20.09	19.96	21		0				
20	64QAM	1	49	20.14	20.25	20.03		21	0				
20	64QAM	50	0	20.03	20.27	20.01			21	0			
20	64QAM	50	50	19.95	19.21	19.17				20	1		
20	64QAM	100	0	19.99	19.20	19.89	20	1					
20	64QAM	100	50	19.95	19.95	19.89		20	1				
20	256QAM	1	49	17.11	17.17	17.05			18		3		
20	256QAM	1	99	17.09	17.18	17.06	18	3					
20	256QAM	50	0	17.02	17.24	17.14		18		3			
20	256QAM	50	50	16.87	16.99	16.89				18	3		
20	256QAM	100	0	17.10	17.08	16.89	18	3					
20	256QAM	100	50	17.02	17.01	16.79		18	3				
Channel													
Frequency (MHz)													
15	QPSK	1	0	19.97	19.98	19.93	21	0					
15	QPSK	1	0	20.14	20.16	19.98		21	0				
15	QPSK	1	49	19.99	20.09	19.96			21	0			
15	QPSK	1	99	19.99	20.09	19.96				21	0		
15	QPSK	36	0	19.87	20.36	20.01	21	0					
15	QPSK	36	36	19.99	20.09	19.96		21	0				
15	QPSK	36	72	19.94	20.05	20.02			21		0		
15	QPSK	75	0	20.17	20.54	19.99	21	0					
15	QPSK	75	36	20.02	20.19	19.92		21		0			
15	QPSK	75	72	20.07	20.10	20.08				21	0		
15	16QAM	1	37	20.04	20.03	19.98	21	0					
15	16QAM	1	74	20.23	20.03	19.86		21	0				
15	16QAM	1	111	20.09	20.09	19.97			21		0		
15	16QAM	36	20	19.85	19.96	19.98	21	0					
15	16QAM	36	56	20.00	20.17	19.88		21		0			
15	16QAM	36	92	20.07	20.09	19.97				21	0		
15	16QAM	75	0	20.00	20.25	19.93	21	0					
15	16QAM	75	36	20.09	20.19	19.82		21	0				
15	16QAM	75	72	19.87	19.86	19.82			20		1		
15	16QAM	36	20	19.85	19.95	19.74	20	1					
15	16QAM	36	56	19.82	19.88	19.82		20		1			
15	16QAM	36	92	19.84	19.84	19.84				18	3		
15	16QAM	75	0	19.71	17.13	16.93	18	3					
15	16QAM	75	36	19.78	18.84	18.64		18	3				
15	16QAM	75	72	19.78	18.84	18.64			18		3		
15	16QAM	1	74	18.83	17.05	17.75	18	3					
15	16QAM	1	148	17.05	16.86	16.86		18		3			
15	16QAM	1	222	16.86	16.86	16.86				18	3		
15	16QAM	36	20	16.80	16.88	16.78	18	3					
15	16QAM	36	56	16.80	16.88	16.78		18	3				
15	16QAM	36	92	16.80	16.88	16.78			18		3		
15	16QAM	75	0	16.79	16.80	16.79	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18		3			
15	16QAM	75	72	16.80	16.87	16.86				18	3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18	3				
15	16QAM	1	222	16.80	16.87	16.86			18		3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18		3			
15	16QAM	36	92	16.80	16.87	16.86				18	3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18	3				
15	16QAM	75	72	16.80	16.87	16.86			18		3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18		3			
15	16QAM	1	222	16.80	16.87	16.86				18	3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18	3				
15	16QAM	36	92	16.80	16.87	16.86			18		3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18		3			
15	16QAM	75	72	16.80	16.87	16.86				18	3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18	3				
15	16QAM	1	222	16.80	16.87	16.86			18		3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18		3			
15	16QAM	36	92	16.80	16.87	16.86				18	3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18	3				
15	16QAM	75	72	16.80	16.87	16.86			18		3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18		3			
15	16QAM	1	222	16.80	16.87	16.86				18	3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18	3				
15	16QAM	36	92	16.80	16.87	16.86			18		3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18		3			
15	16QAM	75	72	16.80	16.87	16.86				18	3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18	3				
15	16QAM	1	222	16.80	16.87	16.86			18		3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18		3			
15	16QAM	36	92	16.80	16.87	16.86				18	3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18	3				
15	16QAM	75	72	16.80	16.87	16.86			18		3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18		3			
15	16QAM	1	222	16.80	16.87	16.86				18	3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18	3				
15	16QAM	36	92	16.80	16.87	16.86			18		3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18		3			
15	16QAM	75	72	16.80	16.87	16.86				18	3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18	3				
15	16QAM	1	222	16.80	16.87	16.86			18		3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18		3			
15	16QAM	36	92	16.80	16.87	16.86				18	3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18	3				
15	16QAM	75	72	16.80	16.87	16.86			18		3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18		3			
15	16QAM	1	222	16.80	16.87	16.86				18	3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18	3				
15	16QAM	36	92	16.80	16.87	16.86			18		3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18		3			
15	16QAM	75	72	16.80	16.87	16.86				18	3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80	16.87	16.86		18	3				
15	16QAM	1	222	16.80	16.87	16.86			18		3		
15	16QAM	36	20	16.80	16.87	16.86	18	3					
15	16QAM	36	56	16.80	16.87	16.86		18		3			
15	16QAM	36	92	16.80	16.87	16.86				18	3		
15	16QAM	75	0	16.80	16.87	16.86	18	3					
15	16QAM	75	36	16.80	16.87	16.86		18	3				
15	16QAM	75	72	16.80	16.87	16.86			18		3		
15	16QAM	1	74	16.80	16.87	16.86	18	3					
15	16QAM	1	148	16.80									



Band 38 Other PA Ant2 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37965	38050	38160				
20	QPSK	1	0	22.03	22.05	22.01	23	0		
20	QPSK	1	48	21.91	21.87	21.87				
20	QPSK	1	88	21.87	21.92	21.81	22	1		
20	QPSK	50	0	20.95	21.04	20.90				
20	QPSK	50	24	20.90	20.88	20.90	22	1		
20	QPSK	50	48	20.84	20.89	20.86				
20	HQAM	100	0	21.05	21.11	20.99	22	1		
20	HQAM	1	0	20.91	21.05	20.96				
20	HQAM	1	48	20.82	20.93	20.89	21	2		
20	HQAM	50	24	19.96	20.10	19.97				
20	HQAM	50	48	19.90	20.02	19.98	21	2		
20	HQAM	50	50	19.94	20.09	19.91				
20	HQAM	100	0	19.94	20.03	19.90	21	2		
20	HQAM	1	48	20.82	20.97	19.94				
20	HQAM	1	88	19.95	20.03	19.90	20	3		
20	HQAM	50	0	18.98	19.11	18.95				
20	HQAM	50	24	18.96	19.02	18.87	20	3		
20	HQAM	50	50	19.05	19.07	18.99				
20	HQAM	100	0	18.91	18.99	18.87	18	5		
20	25QAM	1	0	17.08	17.13	17.08				
20	25QAM	1	48	17.07	17.10	17.04	18	5		
20	25QAM	1	88	16.90	17.05	16.93				
20	25QAM	50	0	16.93	17.05	16.90	18	5		
20	25QAM	50	24	16.84	16.95	16.83				
20	25QAM	50	48	16.88	17.01	16.88	20	3		
20	25QAM	50	50	16.94	17.00	16.90				
Channel										
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	22.03	22.01	21.93	23	0		
15	QPSK	1	37	21.76	21.84	21.77				
15	QPSK	1	74	21.76	21.86	21.71	22	1		
15	QPSK	36	0	20.83	20.85	20.80				
15	QPSK	36	20	20.86	20.89	20.80	22	1		
15	QPSK	36	38	20.75	20.81	20.77				
15	QPSK	75	0	21.01	21.00	20.91	22	1		
15	HQAM	1	0	20.88	21.01	20.87				
15	HQAM	1	37	20.76	20.89	20.80	21	2		
15	HQAM	1	74	20.77	20.92	20.77				
15	HQAM	36	0	19.85	19.96	19.86	21	2		
15	HQAM	36	20	19.85	19.92	19.80				
15	HQAM	36	38	19.90	19.93	19.84	20	3		
15	HQAM	75	0	19.83	19.89	19.80				
15	HQAM	75	0	19.85	19.97	19.85	20	3		
15	HQAM	36	0	18.85	18.90	18.83				
15	HQAM	36	20	18.88	18.90	18.83	18	5		
15	HQAM	36	38	18.90	18.92	18.80				
15	HQAM	75	0	18.86	18.95	18.75	18	5		
15	25QAM	1	0	16.98	17.09	17.05				
15	25QAM	1	37	16.92	17.03	16.90	20	3		
15	25QAM	1	74	16.79	16.90	16.88				
15	25QAM	36	0	16.81	16.93	16.87	20	3		
15	25QAM	36	20	16.75	16.82	16.77				
15	25QAM	36	38	16.76	16.82	16.61	20	3		
15	25QAM	75	0	16.80	16.91	16.80				
Channel										
Frequency (MHz)				37965	38050	38160	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	21.81	21.85	21.83	23	0		
10	QPSK	1	25	21.78	21.85	21.77				
10	QPSK	1	48	21.80	21.78	21.66	22	1		
10	QPSK	25	0	20.85	20.90	20.80				
10	QPSK	25	12	20.87	20.94	20.77	22	1		
10	QPSK	25	25	20.72	20.79	20.81				
10	QPSK	50	0	20.85	20.93	20.80	22	1		
10	HQAM	1	0	20.77	21.09	20.91				
10	HQAM	1	25	20.76	20.88	20.80	21	2		
10	HQAM	1	48	20.79	20.89	20.74				
10	HQAM	25	0	19.90	19.98	19.92	21	2		
10	HQAM	25	12	19.78	19.92	19.85				
10	HQAM	25	25	19.83	19.96	19.80	21	2		
10	HQAM	50	0	19.81	19.92	19.87				
10	HQAM	50	0	19.86	20.07	19.95	21	2		
10	HQAM	1	48	19.91	19.93	19.80				
10	HQAM	1	48	19.85	19.92	19.88	20	3		
10	HQAM	25	0	18.94	19.07	18.86				
10	HQAM	25	12	18.90	18.90	18.76	20	3		
10	HQAM	25	25	18.86	18.90	18.92				
10	HQAM	50	0	18.93	18.98	18.75	18	5		
10	25QAM	1	0	17.02	17.02	16.98				
10	25QAM	1	25	16.97	17.02	17.01	18	5		
10	25QAM	1	48	16.86	16.97	16.84				
10	25QAM	25	0	16.88	16.95	16.83	18	5		
10	25QAM	25	12	16.75	16.90	16.76				
10	25QAM	25	25	16.78	16.97	16.75	20	3		
10	25QAM	50	0	16.85	16.96	16.81				
Channel										
Frequency (MHz)				37975	38060	38225	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	21.91	21.99	21.88	23	0		
5	QPSK	1	12	21.81	21.93	21.84				
5	QPSK	1	24	21.75	21.85	21.69	22	1		
5	QPSK	12	0	20.86	21.01	20.82				
5	QPSK	12	7	20.79	20.95	20.76	22	1		
5	QPSK	12	13	20.87	20.79	20.70				
5	QPSK	25	0	21.00	20.99	20.90	22	1		
5	HQAM	1	0	20.87	21.02	20.92				
5	HQAM	1	12	20.81	20.89	20.88	21	2		
5	HQAM	1	24	20.76	20.90	20.76				
5	HQAM	12	0	19.92	19.98	19.96	21	2		
5	HQAM	12	7	19.81	19.91	19.87				
5	HQAM	12	13	19.87	19.94	19.81	21	2		
5	HQAM	25	0	19.79	19.90	19.80				
5	HQAM	1	0	19.98	20.07	19.91	20	3		
5	HQAM	1	12	19.87	19.89	19.90				
5	HQAM	1	24	19.94	19.98	19.81	20	3		
5	HQAM	12	0	18.98	19.09	18.86				
5	HQAM	12	7	18.93	18.98	18.74	18	5		
5	HQAM	12	13	18.91	19.00	18.89				
5	HQAM	25	0	18.93	19.03	18.75	18	5		
5	25QAM	1	0	16.97	17.05	16.98				
5	25QAM	1	12	16.93	16.95	17.01	18	5		
5	25QAM	1	24	16.82	16.91	16.81				
5	25QAM	12	0	16.88	17.02	16.83	18	5		
5	25QAM	12	7	16.75	16.88	16.71				
5	25QAM	12	13	16.80	16.97	16.78	20	3		
5	25QAM	25	0	16.85	16.96	16.84				
Channel										



Band 2 Other PA Ant3 DS19										
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Turnup time (Sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.54	14.56	14.40				
20	QPSK	1	49	14.59	14.58	14.54	16	0		
20	QPSK	1	99	14.32	14.38	14.36				
20	QPSK	50	0	14.46	14.52	14.21				
20	QPSK	50	50	14.25	14.34	14.33	16	0		
20	QPSK	100	0	14.33	14.51	14.21				
20	QPSK	100	50	14.33	14.35	14.29				
20	16QAM	1	49	14.12	14.31	14.37	16	0		
20	16QAM	1	99	14.45	14.45	14.09				
20	16QAM	50	24	14.25	14.26	14.26				
20	16QAM	50	50	14.31	14.46	14.16	16	0		
20	16QAM	100	0	14.38	14.31	14.16				
20	16QAM	1	0	14.18	14.37	14.16				
20	16QAM	1	49	14.38	14.45	14.17	16	0		
20	16QAM	1	99	14.20	14.25	14.29				
20	256QAM	1	49	14.28	14.29	14.03				
20	256QAM	1	99	14.20	14.25	14.29				
20	256QAM	50	24	14.23	14.29	14.16				
20	256QAM	50	50	14.25	14.30	14.26	16	0		
20	256QAM	100	0	14.26	14.24	14.22				
Channel										
Frequency (MHz)										
15	QPSK	1	0	14.29	14.33	14.26				
15	QPSK	1	49	14.39	14.38	14.29	16	0		
15	QPSK	1	99	14.39	14.40	14.04				
15	QPSK	36	0	14.40	14.40	14.00				
15	QPSK	36	49	14.11	14.14	14.07	16	0		
15	QPSK	36	99	14.21	14.15	14.16				
15	QPSK	75	0	14.11	14.22	14.13				
15	16QAM	1	0	14.26	14.42	14.05				
15	16QAM	1	37	14.31	14.35	14.24	16	0		
15	16QAM	1	99	14.32	14.32	14.07				
15	16QAM	36	0	14.34	14.23	14.22				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15	14.27	16	0		
15	16QAM	75	0	14.32	14.37	14.27				
15	16QAM	1	0	14.38	14.43	14.01				
15	16QAM	1	37	14.30	14.35	14.06	16	0		
15	16QAM	1	99	14.15	14.27	14.17				
15	16QAM	36	0	14.32	14.37	14.27				
15	16QAM	36	20	14.10	14.15					



Band 38 Other PA Ant3 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Hch / Freq	Power Low Bch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
20	QPSK	1	0	19.56	19.52	19.50	21.5	0	
20	QPSK	1	48	19.56	19.51	19.47			
20	QPSK	50	0	19.54	19.50	19.46	21.5	0	
20	QPSK	50	24	19.57	19.53	19.47			
20	QPSK	100	0	19.51	19.48	19.42	21.5	0	
20	QPSK	100	1	19.56	19.42	19.36			
20	HQAM	1	0	19.56	19.52	19.46	21.5	0	
20	HQAM	1	48	19.57	19.54	19.50			
20	HQAM	50	0	19.53	19.58	19.55	21.5	0	
20	HQAM	50	24	19.52	19.51	19.49			
20	HQAM	100	0	19.50	19.50	19.50	21.5	0	
20	HQAM	100	1	19.54	19.55	19.55			
20	HQAM	1	48	19.63	19.54	19.44	21.5	0	
20	HQAM	1	96	19.62	19.63	19.63			
20	HQAM	50	0	19.50	19.50	19.50	21.5	0	
20	HQAM	50	24	19.55	19.55	19.55			
20	HQAM	100	0	19.56	19.62	19.60	21.5	0	
20	HQAM	100	1	19.61	19.58	19.55			
20	256QAM	1	0	17.79	17.84	17.71	19	2.5	
20	256QAM	1	48	17.84	17.87	17.85			
20	256QAM	1	96	17.87	17.75	17.67	19	2.5	
20	256QAM	1	144	17.86	17.64	17.66			
20	256QAM	50	0	17.76	17.82	17.78	19	2.5	
20	256QAM	50	24	17.76	17.82	17.78			
20	256QAM	100	0	17.51	17.79	17.70	19	2.5	
20	256QAM	100	1	17.54	17.64	17.58			
Channel									
Frequency (MHz)				37925	38025	38125	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.54	19.53	19.51	21.5	0	
15	QPSK	1	37	19.57	19.60	19.60			
15	QPSK	1	74	19.57	19.58	19.50	21.5	0	
15	QPSK	36	0	19.53	19.58	19.60			
15	QPSK	36	20	19.57	19.50	19.62	21.5	0	
15	QPSK	36	36	19.56	19.64	19.61			
15	QPSK	75	0	19.55	19.64	19.62	21.5	0	
15	HQAM	1	0	19.51	19.64	19.58			
15	HQAM	1	37	19.56	19.62	19.62	21.5	0	
15	HQAM	1	74	19.60	19.59	19.71			
15	HQAM	36	0	19.61	19.63	19.66	21.5	0	
15	HQAM	36	20	19.53	19.60	19.62			
15	HQAM	36	36	19.51	19.62	19.60	21.5	0	
15	HQAM	75	0	19.64	19.64	19.50			
15	HQAM	75	0	19.57	19.69	19.61	21.5	0	
15	HQAM	1	37	19.58	19.54	19.52			
15	HQAM	1	74	19.56	19.64	19.61	21.5	0	
15	HQAM	36	0	19.59	19.58	19.63			
15	HQAM	36	20	19.56	19.50	19.59	21.5	0	
15	HQAM	36	36	19.59	19.59	19.59			
15	HQAM	75	0	19.50	19.54	19.55	19	2.5	
15	256QAM	1	0	17.79	17.65	17.69			
15	256QAM	1	37	17.84	17.80	17.80	19	2.5	
15	256QAM	1	74	17.57	17.59	17.52			
15	256QAM	36	0	17.67	17.47	17.45	19	2.5	
15	256QAM	36	20	17.54	17.40	17.45			
15	256QAM	36	36	17.51	17.73	17.48	19	2.5	
15	256QAM	75	0	17.46	17.62	17.41			
Channel									
Frequency (MHz)				37900	38000	38100	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	19.58	19.60	19.60	21.5	0	
10	QPSK	1	25	19.58	19.62	19.67			
10	QPSK	1	48	19.56	19.60	19.60	21.5	0	
10	QPSK	1	74	19.57	19.58	19.58			
10	QPSK	25	0	19.56	19.51	19.56	21.5	0	
10	QPSK	25	25	19.63	19.68	19.64			
10	HQAM	1	0	19.58	19.58	19.52	21.5	0	
10	HQAM	1	0	19.58	19.58	19.52			
10	HQAM	1	25	19.59	19.64	19.60	21.5	0	
10	HQAM	1	48	19.61	19.63	19.62			
10	HQAM	25	0	19.62	19.51	19.51	21.5	0	
10	HQAM	25	12	19.63	19.54	19.54			
10	HQAM	25	12	19.63	19.56	19.56	21.5	0	
10	HQAM	25	12	19.63	19.56	19.56			
10	HQAM	50	0	19.62	19.56	19.52	21.5	0	
10	HQAM	50	0	19.62	19.56	19.52			
10	HQAM	1	25	19.63	19.52	19.52	21.5	0	
10	HQAM	1	48	19.61	19.51	19.59			
10	HQAM	25	0	19.64	19.64	19.58	21.5	0	
10	HQAM	25	12	19.58	19.53	19.58			
10	HQAM	25	12	19.54	19.63	19.67	21.5	0	
10	HQAM	50	0	19.62	19.53	19.50			
10	256QAM	1	0	17.68	17.69	17.58	19	2.5	
10	256QAM	1	48	17.62	17.71	17.59			
10	256QAM	1	96	17.48	17.57	17.50	19	2.5	
10	256QAM	25	0	17.64	17.49	17.49			
10	256QAM	25	12	17.56	17.40	17.40	19	2.5	
10	256QAM	25	25	17.51	17.75	17.55			
10	256QAM	50	0	17.48	17.72	17.53	19	2.5	
10	256QAM	50	0	17.48	17.61	17.46			

Band 41 Other PA Ant3 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Hch / Freq	Power Low Bch / Freq	Power High Hch / Freq	Power High Bch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				38970	40185	40620	41005	41480		
20	QPSK	1	0	19.61	19.63	19.63	19.67	19.69	21.5	0
20	QPSK	1	48	19.64	19.78	19.81	19.65	19.71		
20	QPSK	1	96	19.70	19.72	19.80	19.74	19.63	21.5	0
20	QPSK	50	0	19.70	19.69	19.80	19.63	19.56		
20	QPSK	50	24	19.76	19.68	19.78	19.58	19.71	21.5	0
20	QPSK	50	48	19.78	19.72	19.85	19.59	19.69		
20	QPSK	100	0	19.72	19.69	19.78	19.63	19.74	21.5	0
20	QPSK	100	1	19.72	19.67	19.78	19.60	19.50		
20	16QAM	1	0	19.67	19.63	19.64	19.70	19.55	21.5	0
20	16QAM	1	96	19.67	19.74	19.80	19.58	19.53		
20	16QAM	50	0	19.69	19.78	19.78	19.66	19.65	21.5	0
20	16QAM	50	24	19.67	19.62	19.64	19.70	19.55		
20	16QAM	50	50	19.77	19.73	19.64	19.67	19.67	21.5	0
20	16QAM	100	0	19.67	19.66	19.65	19.72	19.70		
20	64QAM	1	0	19.63	19.67	19.65	19.71	19.52	21.5	0
20	64QAM	1	48	19.80	19.72	19.75	19.65	19.68		
20	64QAM	1	96	19.73	19.74	19.83	19.64	19.61	21.5	0
20	64QAM	50	0	19.75	19.70	19.77	19.57	19.59		
20	64QAM	50	24	19.80	19.69	19.71	19.75	19.70	21.5	0
20	64QAM	50	50	19.63	19.64	19.64	19.74	19.64		
20	64QAM	100	0	19.63	19.73	19.63	19.70	19.60	19	2.5
20	256QAM	1	0	17.54	17.58	17.62	17.67	17.51		
20	256QAM	1	48	17.40	17.45	17.63	17.41	17.53	19	2.5
20	256QAM	1	96	17.34	17.57	17.61	17.46	17.45		
20	256QAM	36	0	17.49	19.66	19.66	17.42	17.45	19	2.5
20	256QAM	36	20	19.71	19.52	19.72	19.62	19.51		
20	256QAM	36	36	19.70	19.67	19.71	19.62	19.60	21.5	0
20	256QAM	75	0	19.70	19.67	19.71	19.62	19.60		
15	16QAM	1	0	19.64	19.61	19.72	19.59	19.71	21.5	0
15	16QAM	1	37	19.67	19.63	19.63	19.69	19.69		
15	16QAM	1	74	19.68	19.67	19.77	19.62	19.60	21.5	0
15	16QAM	36	0	19.68	19.72	19.65	19.68	19.58		
15	16QAM	36	12	19.69	19.69	19.65	19.69	19.62	21.5	0
15	16QAM	36	36	19.72	19.64	19.70	19.69	19.55		
15	16QAM	75	0	19.69	19.67	19.70	19.62	19.60	21.5	0
15	64QAM	1	0	19.73	19.66	19.62	19.72	19.65		
15	64QAM	1	37	19.68	19.67	19.63	19.77	19.58	21.5	0
15	64QAM	1	74	19.68	19.67	19.63	19.69	19.60		
15	64QAM	36	0	19.80	19.82	19.74	19.69	19.64	21.5	0
15	64QAM	36	20	19.64	19.64	19.64	19.66	19.50		
15	64QAM	36	36	19.62	19.63	19.63	19.67	19.51	21.5	0
15	64QAM	75	0	19.60	19.57	19.60	19.59	19.51		
15	256QAM	1	0	17.54	17.58	17.62	17.67	17.51	19	2.5
15	256QAM	1	37	17.31	17.46	17.49	17.35	17.46		
15	256QAM	1	74	17.37	17.42	17.54	17.32	17.37	19	2.5
15	256QAM	36	0	17.36	17.56	17.56	17.32	17.36		
15	256QAM	36	20	17.35	17.36	17.25	17.35	17.45	19	2.5
15	256QAM	36	36	17.22	17.36	17.30	17.31	17.17		
15	256QAM	75	0	17.17	17.38	17.38	17.17	17.17	21.5	0
Channel				38970	40180	40620	41000	41560		
Frequency (MHz)				38970	40180	40620	41000	41560		
5	QPSK	1	0	19.61	19.78	19.74	19.67	19.69	22	0
5	QPSK	1	25	19.67	19.64	19.72	19.63	19.67		
5	QPSK	1	50	19.74	19.74	19.82	19.67	19.64	21.5	0
5	QPSK	25	0	19.61	19.64	19.62	19.77	19.77		
5	QPSK	25	12	19.67	19.67	19.60	19.60	19.64	21.5	0
5	QPSK	25	25	19.67	19.63	19.63	19.67	19.64		
5	QPSK	50	0	19.64	19.71	19.67	19.61	19.64	21.5	0
5	16QAM	1	0	19.69	19.68	19.65	19.65	19.73		
5	16QAM	1	25	19.62	19.65	19.65	19.68	19.64	21.5	0
5	16QAM	1	50	19.70	19.66	19.69	19.70	19.51		
5	16QAM	25	0	19.70	19.66	19.63	19.64	19.51	21.5	0
5	16QAM	25	12	19.62	19.65	19.65	19.68	19.53		
5	16QAM	25	25	19.71	19.65	19.72	19.75	19.64	21.5	0
5	16QAM	50	0	19.68	19.67	19.67	19.67	19.51		
5	64QAM	1	0	19.73	19.59	19.50	19.51	19.78	21.5	0
5	64QAM	1	25	19.67	19.64	19.67	19.68	19.54		
5	64QAM	1	50	19.73	19.73	19.73	19.68	19.77	21.5	0
5	64QAM	25	0	19.61	19.73	19.56	19.63	19.61		
5	64QAM	25	12	19.64	19.50	19.58	19.74	19.51	21.5	0
5	64QAM	25	25	19.64	19.61	19.61	19.61	19.53		
5	64QAM	50	0	19.61	19.69	19.60	19.71	19.60	21.5	0
5	64QAM	50	1	17.47	17.56	19.60	19.67	17.51		
5	256QAM	1	0	17.36	17.33	17.55	17.32	17.41	19	2.5
5	256QAM	1	49	17.36	17.31	17.54	17.29	17.30		
5	256QAM	1	97	17.36	17.32	17.52	17.43	17.28	19	2.5
5	256QAM	25	12	17.36	17.43	17.48	17.26	17.25		
5	256QAM	25	25	17.41	17.28	17.30	17.34	17.27	19	2.5
5	256QAM	50	0	17.20	17.29	17.42	17.25	17.24		
Channel				38970	40184	40620	41000	41560	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				38970	40184	40620	41000	41560		
5	QPSK	1	0	19.66	19.78	19.75	19.67	19.69	22	0
5	QPSK	1	12	19.64	19.58	19.68	19.65	19.62		
5	QPSK	1	24	19.68	19.68	19.76	19.67	19.58	21.5	0
5	QPSK	12	0	19.67	19.50	19.79	19.62	19.55		
5	QPSK	12	7	19.56	19.67	19.68	19.60	19.52	21.5	0
5	QPSK	12	19	19.72	19.58	19.61	19.62	19.58		
5	QPSK	25	0	19.62	19.61	19.74	19.53	19.62	21.5	0
5	16QAM	1	0	19.69	19.62	19.68	19.66	19.62		
5	16QAM	1	12	19.62	19.65	19.73	19.67	19.64	21.5	0
5	16QAM	1	24	19.68	19.61	19.73	19.70	19.60		
5	16QAM	25	0	19.68	19.76	19.68	19.68	19.69	21.5	0
5	16QAM	12	7	19.60	19.67	19.62	19.64	19.50		
5	16QAM	12	19	19.75	19.64	19.74	19.60	19.62	21.5	0
5	64QAM	1	0	19.60	19.70	19.60	19.68	19.52		
5	64QAM	1	12	19.60	19.70	19.65	19.65	19.68	21.5	0
5	64QAM	1	24	19.61	19.61	19.68	19.67	19.61		
5	64QAM	25	0	19.69	19.60	19.67	19.61	19.55	21.5	0
5	64QAM	25	12	19.69	19.60	19.67	19.61	19.55		
5	64QAM	25	0	19.63	19.66	19.77	19.60	19.59	21.5	0
5	64QAM	25	12	19.63	19.65	19.67	19.61	19.59		
5	256QAM	1	0	17.36	17.33	17.44	17.33	17.42	19	2.5
5	256QAM	1	24	17.36	17.30	17.45	17.43	17.45		
5	256QAM	1	57	17.45	17.42	17.42	17.48	17.39	19	2.5
5	256QAM	12	7	17.37	17.46	17.34	17.39	17.40		
5	256QAM	12	19	17.37	17.47	17.37	17.38	17.27	19	2.5
5	256QAM	25	12	17.44	17.47	17.34	17.38	17.23		



Band 2 Other PA Ant0 DS1010									
BW [MHz]	Modulation	Channel	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	0	18.65	18.60	18.77	20.2	0	0
20	QPSK	1	49	18.53	18.72	18.63			
20	QPSK	1	88	18.54	18.72	18.62			
20	QPSK	50	0	18.55	18.77	18.66			
20	QPSK	50	50	18.59	18.72	18.60			
20	QPSK	100	0	18.45	18.68	18.58	20.2	0	0
20	QPSK	1	49	18.54	18.76	18.65			
20	QPSK	1	49	18.47	18.62	18.60			
20	16QAM	50	24	18.48	18.55	18.63			
20	16QAM	50	50	18.52	18.66	18.59			
20	16QAM	100	0	18.40	18.60	18.50	20.2	0	0
20	16QAM	1	49	18.55	18.65	18.60			
20	16QAM	50	0	18.62	18.68	18.59			
20	16QAM	50	24	18.41	18.50	18.48			
20	16QAM	50	50	18.55	18.62	18.59			
20	256QAM	1	0	18.46	18.58	18.45	20.2	0	0
20	256QAM	1	0	18.56	18.54	18.60			
20	256QAM	1	49	18.57	18.78	18.58			
20	256QAM	1	99	18.53	18.50	18.49			
20	256QAM	50	0	18.57	18.76	18.45			
20	256QAM	50	24	18.50	18.68	18.58	20.2	0	0
20	256QAM	50	50	18.60	18.67	18.54			
20	256QAM	50	76	18.48	18.77	18.58			
20	256QAM	50	102	18.48	18.77	18.58			
20	256QAM	50	128	18.48	18.77	18.58			
Channel									
18675 18690 19025									
16	QPSK	1	0	18.63	18.60	18.73	20.2	0	0
16	QPSK	1	32	18.37	18.59	18.57			
16	QPSK	1	74	18.45	18.69	18.60			
16	QPSK	36	20	18.53	18.58	18.52			
16	QPSK	36	20	18.42	18.57	18.48			
16	QPSK	36	39	18.50	18.70	18.65	20.2	0	0
16	QPSK	36	40	18.43	18.35	18.42			
16	16QAM	1	0	18.44	18.60	18.34			
16	16QAM	1	32	18.29	18.48	18.45			
16	16QAM	1	64	18.56	18.64	18.61			
16	16QAM	36	0	18.38	18.71	18.57	20.2	0	0
16	16QAM	36	20	18.58	18.73	18.62			
16	16QAM	36	20	18.29	18.60	18.58			
16	16QAM	36	40	18.40	18.69	18.41			
16	16QAM	1	0	18.42	18.61	18.30			
16	16QAM	1	64	18.53	18.54	18.53	20.2	0	0
16	16QAM	1	74	18.38	18.55	18.34			
16	16QAM	36	0	18.54	18.56	18.65			
16	16QAM	36	20	18.45	18.60	18.46			
16	16QAM	36	39	18.47	18.70	18.35			
16	16QAM	75	0	18.61	18.67	18.45	20.2	0	0
16	16QAM	75	0	18.38	18.47	18.36			
16	256QAM	1	37	18.48	18.70	18.36			
16	256QAM	1	74	18.50	18.20	18.34			
16	256QAM	1	111	18.48	18.59	18.44			
16	256QAM	36	20	18.36	18.49	18.30	20.2	0	0
16	256QAM	36	39	18.48	18.62	18.40			
16	256QAM	36	39	18.48	18.62	18.40			
16	256QAM	36	39	18.48	18.62	18.40			
16	256QAM	36	39	18.48	18.62	18.40			
16	256QAM	36	39	18.48	18.62	18.40			
16	256QAM	36	39	18.48	18.62	18.40			
Channel									
18690 18690 19150									
16	QPSK	1	0	18.62	18.60	18.57	20.2	0	0
16	QPSK	1	25	18.49	18.61	18.62			
16	QPSK	1	49	18.48	18.65	18.60			
16	QPSK	1	73	18.35	18.78	18.60			
16	QPSK	25	12	18.44	18.71	18.51			
16	QPSK	25	25	18.45	18.65	18.58	20.2	0	0
16	QPSK	25	25	18.45	18.65	18.58			
16	16QAM	1	0	18.54	18.68	18.34			
16	16QAM	1	25	18.29	18.51	18.45			
16	16QAM	1	49	18.41	18.38	18.41			
16	16QAM	25	0	18.25	18.69	18.39	20.2	0	0
16	16QAM	25	12	18.48	18.45	18.56			
16	16QAM	25	12	18.38	18.34	18.43			
16	16QAM	50	0	18.44	18.70	18.26			
16	16QAM	1	0	18.47	18.62	18.35			
16	16QAM	1	25	18.38	18.65	18.52	20.2	0	0
16	16QAM	1	49	18.26	18.70	18.26			
16	16QAM	25	0	18.49	18.60	18.46			
16	16QAM	25	12	18.47	18.59	18.59			
16	16QAM	25	25	18.44	18.60	18.49			
16	256QAM	1	0	18.39	18.60	18.36	20.2	0	0
16	256QAM	1	25	18.47	18.59	18.59			
16	256QAM	1	25	18.32	18.27	18.37			
16	256QAM	1	49	18.39	18.23	18.41			
16	256QAM	1	73	18.38	18.57	18.38			
16	256QAM	25	12	18.38	18.57	18.38	20.2	0	0
16	256QAM	25	12	18.38	18.57	18.38			
16	256QAM	25	12	18.38	18.57	18.38			
16	256QAM	25	12	18.38	18.57	18.38			
16	256QAM	25	12	18.38	18.57	18.38			
16	256QAM	25	12	18.38	18.57	18.38			
16	256QAM	25	12	18.38	18.57	18.38			
Channel									
18692 18692 19175									
5	QPSK	1	0	18.60	18.60	18.76	20.2	0	0
5	QPSK	1	12	18.32	18.58	18.82			
5	QPSK	1	24	18.62	18.58	18.63			
5	QPSK	1	36	18.42	18.63	18.63			
5	QPSK	12	7	18.57	18.71	18.55			
5	QPSK	12	13	18.41	18.67	18.68	20.2	0	0
5	QPSK	12	13	18.26	18.61	18.60			
5	16QAM	1	0	18.32	18.62	18.27			
5	16QAM	1	12	18.33	18.57	18.61			
5	16QAM	1	24	18.28	18.37	18.49			
5	16QAM	12	0	18.26	18.69	18.44	20.2	0	0
5	16QAM	12	7	18.31	18.60	18.44			
5	16QAM	12	13	18.37	18.52	18.61			
5	16QAM	25	0	18.39	18.66	18.45			
5	16QAM	25	0	18.39	18.66	18.45			
5	16QAM	1	12	18.41	18.72	18.62	20.2	0	0
5	16QAM	1	24	18.24	18.70	18.54			
5	16QAM	12	7	18.42	18.62	18.62			
5	16QAM	12	13	18.62	18.56	18.55			
5	16QAM	25	0	18.40	18.69	18.44			
5	256QAM	1	0	18.54	18.54	18.53	20.2	0	0
5	256QAM	1	12	18.38	18.67	18.38			
5	256QAM	1	24	18.40	18.62	18.40			
5	256QAM	12	0	18.42	18.70	18.38			
5	256QAM	12	7	18.43	18.61	18.59			
5	256QAM	12	13	18.40	18.57	18.61	20.2	0	0
5	256QAM	25	0	18.44	18.59	18.34			
5	256QAM	25	0	18.44	18.59	18.34			
5	256QAM	25	0	18.44	18.59	18.34			
5	256QAM	25	0	18.44	18.59	18.34			
5	256QAM	25	0	18.44	18.59	18.34			
5	256QAM	25	0	18.44	18.59	18.34			
Channel									
18697 18690 19185									
3	QPSK	1	0	18.66	18.71	18.56	20.2	0	0
3	QPSK	1	8	18.40	18.52	18.55			
3	QPSK	1	16	18.67	18.58	18.58			
3	QPSK	8	4	18.50	18.52	18.59			
3	QPSK	8	4	18.50	18.52	18.59			
3	QPSK	16	0	18.35	18.65	18.58	20.2	0	0
3	16QAM	1	0	18.54	18.70	18.48			
3	16QAM	1	8	18.51	18.67	18.57			
3	16QAM	1	16	18.57	18.60	18.45			
3	16QAM	8	7	18.41	18.75	18.42			
3	16QAM	16	0	18.55	18.75	18.62	20.2	0	0
3	16QAM	16	0	18.55	18.75	18.62			
3	16QAM	8	7	18.29	18.47	18.28			
3	16QAM	1	8	18.55	18.47	18.54			
3	16QAM	1	16	18.55	18.47	18.54			
3	16QAM	8	8	18.44	18.48	18.44	20.2	0	0
3	16QAM	8	4	18.40	18.38	18.39			
3	16QAM	8	4	18.40	18.38	18.39			
3	16QAM	16	0	18.51	18.59	18.43			
3	256QAM	1	0	18.37	18.48	18.48			
3	256QAM	1	8	18.40	18.52	18.52	20.2	0	0
3	256QAM	1	16	18.42	18.54	18.54			
3	256QAM	1	16	18.42	18.54	18.54			
3	256QAM	1	16	18.42	18.54	18.54			
3	256QAM	1	16	18.42	18.54	18.54			
3	256QAM	16	0	18.37	18.48	18.48	20.2	0	0
3	256QAM	16	0	18.37	18.48	18.48			
3	256QAM	8	7	18.40	18.57	18.57			
3	256QAM	8	7	18.40	18.57	18.57			
3	256QAM	15	0	18.44	18.59	18.34			
Channel									
18670 18690 19090									
1.4	QPSK	1	0	18.53	18.68	18.70	20.2	0	0
1.4	QPSK	1	6	18.55	18.68	18.70			
1.4	QPSK	1	6	18.55	18.68	18.70			
1.4	QPSK	1	6	18.54	18.60	18.58			
1.4	QPSK	3	0	18.47	18.75	18.50			
1.4	QPSK	3	0	18.46	18.60	18.48	20.2	0	0
1.4	QPSK	3	3	18.41	18.73	18.46			
1.4	QPSK	6	0	18.41	18.50	18.43			
1.4	QPSK	6	0	18.42	18.50	18.43			
1.4	QPSK	3	3	18.51	18.57	18.49			
1.4	16QAM	1	0	18.34	18.41	18.37	20.2	0	0
1.4	16QAM	1	3	18.36	18.49	18.45			
1.4	16QAM	1	3	18.36	18.49	18.45			
1.4	16QAM	1	0	18.34	18.53	18.28			
1.4	16QAM	1	3	18.42	18.63	18.54			
1.4	16QAM	3	1	18.43	18.56	18.56	20.2	0	0
1.4	16QAM	3	1	18.22	18.49	18.42			
1.4	16QAM	6	0	18.44	18.59	18.48			
1.4	16QAM	6	0	18.44	18.59	18.48			
1.4	16QAM	6	0	18.44	18.59	18.48			
1.4	16QAM	1	0	18.37	18.60	18.59	20.2	0	0
1.4	16QAM	1	0	18.39	18.39	18.44			
1.4	16QAM	1	6	18.49	18.30	18.38			
1.4	16QAM	3	3	18.43	18.46	18.40			
1.4	16QAM								



Band 38 Other PA Ant0 DS10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				37965	38000	38150	38150	Tune-up limit (dBm)	MPR (dB)
				271.7	271.7	271.7	271.7		
20	QPSK	1	0	16.37	16.43	16.43	16.43	17.6	0
20	QPSK	1	49	16.29	16.40	16.34	16.34		
20	QPSK	50	0	16.30	16.34	16.41	16.41	17.6	0
20	QPSK	50	24	16.21	16.35	16.22	16.22		
20	QPSK	50	50	16.27	16.30	16.24	16.24	17.6	0
20	QPSK	100	0	16.15	16.26	16.17	16.17		
20	16QAM	1	0	16.11	16.24	16.13	16.13	17.6	0
20	16QAM	1	49	16.15	16.24	16.40	16.40		
20	QPSK	1	99	16.07	16.27	16.26	16.26	17.6	0
20	16QAM	50	0	16.19	16.26	16.23	16.23		
20	16QAM	50	24	16.26	16.40	16.25	16.25	17.6	0
20	16QAM	50	50	16.22	16.27	16.25	16.25		
20	16QAM	100	0	16.24	16.25	16.40	16.40	17.6	0
20	16QAM	100	1	0	16.24	16.25	16.40		
20	16QAM	100	1	49	16.08	16.16	16.25	17.6	0
20	16QAM	100	1	99	16.15	16.24	16.14		
20	16QAM	50	0	16.26	16.29	16.28	16.28	17.6	0
20	16QAM	50	0	16.26	16.29	16.28	16.28		
20	16QAM	50	24	16.00	16.31	16.22	16.22	17.6	0
20	16QAM	50	24	16.27	16.41	16.23	16.23		
20	16QAM	100	0	16.10	16.45	16.33	16.33	17.6	0
20	16QAM	100	0	16.10	16.45	16.33	16.33		
20	256QAM	1	0	16.10	16.30	16.21	16.21	17.6	0
20	256QAM	1	49	16.10	16.30	16.21	16.21		
20	256QAM	1	99	16.08	16.40	16.25	16.25	17.6	0
20	256QAM	1	99	16.07	16.30	16.21	16.21		
20	256QAM	50	24	16.07	16.30	16.21	16.21	17.6	0
20	256QAM	50	24	16.18	16.23	16.42	16.42		
20	256QAM	100	0	16.11	16.30	16.21	16.21	17.6	0
20	256QAM	100	0	16.11	16.30	16.21	16.21		
Channel									
Frequency (MHz)				37925	38000	38175	38175	Tune-up limit (dBm)	MPR (dB)
				271.7	271.7	271.7	271.7		
15	QPSK	1	0	16.37	16.43	16.43	16.43	17.6	0
15	QPSK	1	37	16.22	16.38	16.20	16.20		
15	QPSK	1	74	16.24	16.45	16.31	16.31	17.6	0
15	QPSK	36	0	16.20	16.20	16.26	16.26		
15	QPSK	36	20	16.03	16.34	16.09	16.09	17.6	0
15	QPSK	36	20	16.03	16.34	16.09	16.09		
15	QPSK	75	0	16.01	16.36	16.11	16.11	17.6	0
15	QPSK	75	0	16.04	16.03	16.08	16.08		
15	16QAM	1	0	16.04	16.15	16.19	16.19	17.6	0
15	16QAM	1	37	16.08	16.01	16.05	16.05		
15	16QAM	1	37	16.08	16.01	16.05	16.05		
15	16QAM	36	0	16.22	16.28	16.27	16.27	17.6	0
15	16QAM	36	20	15.99	16.32	16.12	16.12		
15	16QAM	36	20	15.99	16.32	16.12	16.12		
15	16QAM	75	0	15.98	16.35	16.03	16.03	17.6	0
15	16QAM	75	0	15.98	16.35	16.03	16.03		
15	256QAM	1	0	16.01	16.23	16.03	16.03	17.6	0
15	256QAM	1	0	16.01	16.23	16.03	16.03		
15	256QAM	1	37	16.01	16.23	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.23	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256QAM	75	0	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	75	0	16.01	16.17	16.03	16.03		
15	256QAM	1	37	16.01	16.17	16.03	16.03	17.6	0
15	256QAM	1	37	16.01	16.17	16.03	16.03		
15	256QAM	36	0	16.12	16.10	16.07	16.07	17.6	0
15	256QAM	36	0	16.12	16.10	16.07	16.07		
15	256QAM	36	20	16.04	16.17	16.08	16.08	17.6	0
15	256QAM	36	20	16.04	16.17	16.08	16.08		
15	256								



Band 2 Other PA Ant1 DSI10												
BW (MHz)	Modulation	RB Size	RB Offset	Power Max Ch./F.Freq.	Power Min Ch./F.Freq.	Power Min Ch./F.Freq.	Turnup rate (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	12.81	12.62	12.72			14.2	0		
20	QPSK	1	49	12.81	12.75	12.65						
20	QPSK	1	99	12.79	12.69	12.86			14.2	0		
20	QPSK	50	0	12.72	12.60	12.69						
20	QPSK	50	24	12.69	12.56	12.44			14.2	0		
20	QPSK	50	50	12.76	12.76	12.78						
20	QPSK	100	0	12.61	12.64	12.60			14.2	0		
20	16QAM	1	0	12.60	12.74	12.63						
20	16QAM	1	49	12.65	12.70	12.61			14.2	0		
20	16QAM	1	99	12.68	12.52	12.48						
20	16QAM	50	24	12.72	12.90	12.60			14.2	0		
20	16QAM	50	50	12.75	12.80	12.38						
20	16QAM	100	0	12.64	12.65	12.60			14.2	0		
20	64QAM	1	0	12.76	12.67	12.89						
20	64QAM	1	49	12.73	12.68	12.41			14.2	0		
20	64QAM	1	99	12.76	12.72	12.58						
20	64QAM	50	24	12.70	12.69	12.44			14.2	0		
20	64QAM	50	50	12.64	12.58	12.46						
20	64QAM	100	0	12.76	12.68	12.52			14.2	0		
20	256QAM	1	49	12.73	12.63	12.51						
20	256QAM	1	99	12.78	12.72	12.55			14.2	0		
20	256QAM	50	24	12.65	12.67	12.54						
20	256QAM	50	50	12.75	12.67	12.45			14.2	0		
20	256QAM	100	0	12.73	12.78	12.86						
20	256QAM	100	0	12.62	12.79	12.85			14.2	0		
Channel												
Frequency (MHz)												
15	QPSK	1	0	12.77	12.75	12.80			14.2	0		
15	QPSK	1	49	12.78	12.66	12.82						
15	QPSK	1	74	12.58	12.78	12.69			14.2	0		
15	QPSK	36	0	12.60	12.54	12.64						
15	QPSK	36	39	12.72	12.71	12.44			14.2	0		
15	QPSK	75	0	12.67	12.61	12.65						
15	16QAM	1	0	12.62	12.62	12.62			14.2	0		
15	16QAM	1	37	12.59	12.60	12.40						
15	16QAM	1	74	12.68	12.45	12.37			14.2	0		
15	16QAM	36	0	12.48	12.68	12.45						
15	16QAM	36	20	12.73	12.63	12.49			14.2	0		
15	16QAM	36	39	12.61	12.56	12.51						
15	16QAM	36	0	12.47	12.57	12.47			14.2	0		
15	64QAM	1	0	12.80	12.55	12.45						
15	64QAM	1	49	12.68	12.58	12.54			14.2	0		
15	64QAM	1	74	12.73	12.51	12.48						
15	64QAM	36	0	12.45	12.78	12.35			14.2	0		
15	64QAM	36	39	12.71	12.73	12.36						
15	64QAM	36	39	12.53	12.45	12.53			14.2	0		
15	64QAM	75	0	12.69	12.47	12.48						
15	256QAM	1	37	12.77	12.70	12.54			14.2	0		
15	256QAM	1	74	12.67	12.60	12.48						
15	256QAM	36	0	12.65	12.45	12.45			14.2	0		
15	256QAM	36	20	12.62	12.59	12.33						
15	256QAM	36	39	12.71	12.68	12.48			14.2	0		
15	256QAM	75	0	12.43	12.37	12.48						
Channel												
Frequency (MHz)												
15	QPSK	1	0	12.77	12.75	12.80			14.2	0		
15	QPSK	1	49	12.78	12.66	12.82						
15	QPSK	1	25	12.80	12.62	12.82			14.2	0		
15	QPSK	1	49	12.76	12.62	12.85						
15	QPSK	25	12	12.55	12.49	12.27			14.2	0		
15	QPSK	25	25	12.64	12.54	12.39						
15	QPSK	25	12	12.61	12.54	12.48			14.2	0		
15	QPSK	25	12	12.52	12.54	12.65						
15	16QAM	1	0	12.62	12.54	12.65			14.2	0		
15	16QAM	1	25	12.65	12.60	12.48						
15	16QAM	25	12	12.63	12.80	12.40			14.2	0		
15	16QAM	25	12	12.64	12.65	12.40						
15	16QAM	25	0	12.62	12.61	12.45			14.2	0		
15	16QAM	50	0	12.69	12.75	12.65						
15	64QAM	1	49	12.61	12.60	12.45			14.2	0		
15	64QAM	25	0	12.47	12.70	12.45						
15	64QAM	25	0	12.68	12.49	12.48			14.2	0		
15	64QAM	50	0	12.72	12.56	12.35						
15	256QAM	1	25	12.61	12.71	12.40			14.2	0		
15	256QAM	1	25	12.68	12.60	12.57						
15	256QAM	49	0	12.58	12.67	12.57			14.2	0		
15	256QAM	49	0	12.58	12.62	12.50						
15	256QAM	25	12	12.73	12.49	12.24			14.2	0		
15	256QAM	25	25	12.64	12.63	12.34						
15	256QAM	25	12	12.48	12.39	12.47			14.2	0		
Channel												
Frequency (MHz)												
15	QPSK	1	0	12.77	12.75	12.80			14.2	0		
15	QPSK	1	12	12.80	12.60	12.80						
15	QPSK	1	24	12.79	12.67	12.49			14.2	0		
15	QPSK	1	24	12.74	12.74	12.49						
15	QPSK	12	7	12.61	12.71	12.63			14.2	0		
15	QPSK	12	13	12.67	12.66	12.55						
15	QPSK	12	13	12.63	12.61	12.50			14.2	0		
15	QPSK	12	13	12.65	12.60	12.45						
15	16QAM	1	0	12.45	12.60	12.61			14.2	0		
15	16QAM	1	12	12.48	12.68	12.61						
15	16QAM	1	12	12.49	12.52	12.41			14.2	0		
15	16QAM	12	0	12.80	12.58	12.51						
15	16QAM	12	7	12.67	12.66	12.53			14.2	0		
15	16QAM	12	13	12.74	12.65	12.48						
15	16QAM	25	0	12.60	12.49	12.35			14.2	0		
15	16QAM	25	0	12.77	12.66	12.49						
15	64QAM	1	0	12.67	12.41	12.30			14.2	0		
15	64QAM	1	24	12.59	12.50	12.49						
15	64QAM	12	0	12.57	12.77	12.43			14.2	0		
15	64QAM	12	7	12.53	12.67	12.40						
15	64QAM	12	13	12.45	12.67	12.39			14.2	0		
15	64QAM	25	0	12.69	12.60	12.46						
15	256QAM	1	12	12.61	12.67	12.47			14.2	0		
15	256QAM	1	12	12.59	12.60	12.47						
15	256QAM	1	24	12.52	12.62	12.46			14.2	0		
15	256QAM	12	0	12.63	12.40	12.41						
15	256QAM	12	7	12.55	12.56	12.29			14.2	0		
15	256QAM	12	13	12.70	12.62	12.57						
15	256QAM	12	13	12.61	12.49	12.54			14.2	0		
Channel												
Frequency (MHz)												
3	QPSK	1	0	12.66	12.62	12.66			14.2	0		
3	QPSK	1	8	12.62	12.70	12.64						
3	QPSK	1	14	12.61	12.75	12.53			14.2	0		
3	QPSK	8	0	12.54	12.66	12.84						
3	QPSK	8	4	12.53	12.36	12.33			14.2	0		
3	QPSK	8	7	12.67	12.64	12.32						
3	QPSK	16	0	12.58	12.58	12.52			14.2	0		
3	16QAM	1	0	12.50	12.68	12.61			14.2	0		
3	16QAM	1	14	12.57	12.70	12.43						
3	16QAM	8	0	12.69	12.45	12.38			14.2	0		
3	16QAM	8	7	12.67	12.60	12.48						
3	16QAM	8	7	12.67	12.67	12.45			14.2	0		
3	16QAM	16	0	12.49	12.50	12.56						
3	16QAM	16	7	12.48	12.48	12.47			14.2	0		
3	64QAM	1	8	12.73	12.43	12.24						
3	64QAM	1	14	12.69	12.58	12.48			14.2	0		
3	64QAM	8	0	12.55	12.81	12.45						
3	64QAM	8	4	12.58	12.40	12.33			14.2	0		
3	64QAM	8	7	12.56	12.57	12.37						
3	64QAM	8	7	12.68	12.52	12.41			14.2	0		
3	256QAM	1	0	12.62	12.59	12.38						
3	256QAM	1	8	12.69	12.57	12.36			14.2	0		
3	256QAM	14	0	12.73	12.73	12.43						
3	256QAM	8	0	12.55	12.44	12.48			14.2	0		
3	256QAM	8	7	12.59	12.58	12.31						
3	256QAM	8	7	12.63	12.62	12.31			14.2	0		
3	256QAM	16	0	12.41	12.32	12.54						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	12.74	12.67	12.52			14.2	0		
1.4	QPSK	1	8	12.67	12.69	12.47						
1.4	QPSK	1	16	12.69	12.77	12.55			14.2	0		
1.4	QPSK	3	0	12.63	12.75	12.58						
1.4	QPSK	3	8	12.49	12.56	12.33			14.2	0		
1.4	QPSK	3	16	12.71	12.68	12.33						
1.4	QPSK	6	0	12.46	12.50	12.53			14.2	0		
1.4	QPSK	6	8	12.45	12.45	12.45						
1.4	QPSK	6	16	12.50	12.59	12.50			14.2	0		
1.4	16QAM	1	0	12.69	12.51	12.48						
1.4	16QAM	1	8	12.67	12.43	12.40			14.2	0		
1.4	16QAM	3	0	12.61	12.63	12.60						
1.4	16QAM	3	8	12.65	12.49	12.53			14.2	0		
1.4	16QAM	3	16	12.67	12.59	12.53						
1.4	16QAM	6	0	12.67	12.45	12.48			14.2	0		
1.4	16QAM	6	8	12.64	12.51	12.38						



Band 38 Other PA Ant1 DS10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
				27.15	27.15	27.15			
20	QPSK	1	0	16.04	16.15	16.14			
20	QPSK	1	49	16.03	16.09	16.07	17.5	0	
20	QPSK	1	89	16.06	16.14	16.09			
20	QPSK	50	0	16.02	16.14	16.11			
20	QPSK	50	24	16.02	16.02	16.00	17.5	0	
20	QPSK	50	50	16.04	16.06	16.04			
20	QPSK	100	0	16.06	16.12	16.09			
20	HQAM	1	0	16.02	16.03	16.00	17.5	0	
20	HQAM	1	49	16.05	16.09	16.04			
20	HQAM	1	99	16.06	16.09	16.06			
20	HQAM	50	24	16.05	16.06	16.04			
20	HQAM	50	50	16.02	16.09	16.07	17.5	0	
20	HQAM	100	0	16.07	16.07	16.04			
20	HQAM	1	49	16.01	16.02	16.00	17.5	0	
20	HQAM	1	99	16.02	16.03	16.00			
20	HQAM	50	24	16.03	16.07	16.01	17.5	0	
20	HQAM	50	50	16.04	16.07	16.04			
20	HQAM	100	0	16.07	16.07	16.06			
20	25QAM	1	0	16.04	16.11	16.06			
20	25QAM	1	49	16.06	16.09	16.06	17.5	0	
20	25QAM	1	99	16.01	16.01	16.00			
20	25QAM	50	24	16.05	16.07	16.06			
20	25QAM	50	50	16.04	16.09	16.06	17.5	0	
20	25QAM	100	0	16.06	16.07	16.06			
Channel									
Frequency (MHz)				37950	38050	38150	Tune-up limit (dBm)	MPR (dB)	
				27.15	27.15	27.15			
16	QPSK	1	0	16.04	16.15	16.14			
16	QPSK	1	37	16.06	16.09	16.02	17.5	0	
16	QPSK	1	74	16.06	16.08	16.08			
16	QPSK	36	0	16.03	16.09	16.09			
16	QPSK	36	20	16.07	16.01	16.00	17.5	0	
16	QPSK	36	36	16.06	16.07	16.06			
16	QPSK	75	0	16.05	16.02	16.00			
16	HQAM	1	0	16.05	16.00	16.01	17.5	0	
16	HQAM	1	37	16.06	16.09	16.09			
16	HQAM	1	74	16.09	16.07	16.03			
16	HQAM	36	0	16.08	16.06	16.00			
16	HQAM	36	20	16.03	16.02	16.00	17.5	0	
16	HQAM	36	36	16.06	16.02	16.00			
16	HQAM	75	0	16.07	16.06	16.04			
16	HQAM	1	37	16.06	16.09	16.06	17.5	0	
16	HQAM	1	74	16.04	16.06	16.06			
16	HQAM	36	20	16.04	16.02	16.04			
16	HQAM	36	36	16.06	16.07	16.06	17.5	0	
16	HQAM	75	0	16.04	16.05	16.04			
16	HQAM	1	0	16.04	16.05	16.05			
16	HQAM	1	37	16.03	16.06	16.04	17.5	0	
16	HQAM	1	74	16.06	16.02	16.00			
16	HQAM	36	0	16.03	16.07	16.00			
16	HQAM	36	20	16.03	16.07	16.07	17.5	0	
16	HQAM	36	36	16.06	16.06	16.04			
16	HQAM	75	0	16.05	16.04	16.04			
16	25QAM	1	0	16.03	16.06	16.04	17.5	0	
16	25QAM	1	37	16.06	16.09	16.09			
16	25QAM	1	74	16.06	16.02	16.00			
16	25QAM	36	0	16.03	16.07	16.00			
16	25QAM	36	20	16.07	16.00	16.00	17.5	0	
16	25QAM	36	36	16.06	16.06	16.04			
16	25QAM	75	0	16.05	16.04	16.04			
Channel									
Frequency (MHz)				25715	25715	25715	Tune-up limit (dBm)	MPR (dB)	
				2617.5	2617.5	2617.5			
5	QPSK	1	0	16.04	16.03	16.00			
5	QPSK	1	12	16.05	16.05	16.00	17.5	0	
5	QPSK	1	24	16.06	16.09	16.07			
5	QPSK	12	0	16.06	16.02	16.00			
5	QPSK	12	7	16.01	16.04	16.01	17.5	0	
5	QPSK	12	13	16.00	16.04	16.01			
5	QPSK	25	0	16.06	16.07	16.00			
5	HQAM	1	0	16.04	16.04	16.00	17.5	0	
5	HQAM	1	12	16.07	16.07	16.00			
5	HQAM	1	24	16.04	16.07	16.04			
5	HQAM	12	7	16.06	16.06	16.00	17.5	0	
5	HQAM	12	13	16.05	16.01	16.04			
5	HQAM	25	0	16.06	16.01	16.00			
5	HQAM	1	0	16.06	16.04	16.00			
5	HQAM	12	7	16.07	16.06	16.00	17.5	0	
5	HQAM	12	13	16.06	16.02	16.00			
5	HQAM	25	0	16.06	16.01	16.00			
5	25QAM	1	0	16.07	16.00	16.00	17.5	0	
5	25QAM	1	12	16.06	16.04	16.00			
5	25QAM	1	24	16.06	16.01	16.00			
5	25QAM	12	0	16.03	16.01	16.00			
5	25QAM	12	7	16.07	16.01	16.00	17.5	0	
5	25QAM	12	13	16.04	16.00	16.00			
5	25QAM	25	0	16.07	16.02	16.00			

Band 41 Other PA Ant1 DS10										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Power Peak Ch / Freq	Power Peak Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	16.21	16.07	16.22	16.15	16.15		
20	QPSK	1	49	16.12	16.06	16.04	16.02	16.05	17.5	0
20	QPSK	1	99	16.09	16.04	16.20	16.09	16.09		
20	QPSK	50	0	16.13	16.09	16.20	16.09	16.09		
20	QPSK	50	24	16.09	16.07	16.16	16.07	16.00	17.5	0
20	QPSK	50	50	16.07	16.15	16.05	16.05	16.05		
20	QPSK	100	0	16.07	16.09	16.12	16.07	16.02		
20	16QAM	1	0	16.01	16.06	16.19	16.05	16.05	17.5	0
20	16QAM	1	49	16.00	16.04	16.07	16.01	16.01		
20	16QAM	1	99	16.14	16.08	16.07	16.03	16.06		
20	16QAM	50	24	16.08	16.06	16.04	16.02	16.02	17.5	0
20	16QAM	50	50	16.06	16.09	16.21	16.06	16.05		
20	16QAM	100	0	16.07	16.06	16.09	16.00	16.02		
20	64QAM	1	49	16.02	16.09	16.08	16.05	16.07	17.5	0
20	64QAM	1	99	16.00	16.00	16.19	16.05	16.05		
20	64QAM	50	24	16.11	16.08	16.06	16.06	16.07	17.5	0
20	64QAM	50	50	16.08	16.06	16.04	16.02	16.02		
20	64QAM	100	0	16.08	16.06	16.21	16.07	16.07	17.5	0
20	25QAM	1	0	16.03	16.00	16.05	16.00	16.00		
20	25QAM	1	49	16.09	16.03	16.01	16.01	16.01	17.5	0
20	25QAM	1	99	16.08	16.01	16.07	16.06	16.07		
20	25QAM	50	24	16.09	16.04	16.11	16.09	16.03	17.5	0
20	25QAM	50	50	16.10	16.00	16.02	16.03	16.05		
20	25QAM	100	0	16.10	16.00	16.02	16.03	16.05		
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490	Turn-up limit (dBm)	MPR (dB)
16	QPSK	1	0	16.13	16.08	16.21	16.03	16.03		
16	QPSK	1	37	16.04	16.06	16.08	16.03	16.06	18	0
16	QPSK	1	74	16.09	16.04	16.08	16.03	16.02		
16	QPSK	36	0	16.03	16.07	16.09	16.00	16.01	17.5	0
16	QPSK	36	20	16.02	16.06	16.10	16.09	16.09		
16	QPSK	36	36	16.06	16.06	16.09	16.05	16.06	17.5	0
16	QPSK	75	0	16.06	16.08	16.00	16.08	16.08		
16	16QAM	1	0	16.04	16.06	16.02	16.00	16.07	17.5	0
16	16QAM	1	37	16.05	16.09	16.01	16.01	16.01		
16	16QAM	1	74	16.00	16.09	16.09	16.01	16.01		
16	16QAM	36	0	16.02	16.07	16.06	16.07	16.09	17.5	0
16	16QAM	36	20	16.09	16.00	16.03	16.05	16.02		
16	16QAM	36	36	16.08	16.07	16.09	16.05	16.07		
16	16QAM	75	0	16.03	16.03	16.09	16.06	16.03		
16	64QAM	1	37	16.07	16.09	16.07	16.07	16.04	17.5	0
16	64QAM	1	74	16.02	16.07	16.07	16.04	16.04		
16	64QAM	36	0	16.06	16.03	16.09	16.06	16.03		
16	64QAM	36	20	16.02	16.04	16.09	16.00	16.00	17.5	0
16	64QAM	36	36	16.06	16.07	16.09	16.05	16.05		
16	64QAM	75	0	16.03	16.06	16.02	16.00	16.03		
16	25QAM	1	0	16.00	16.08	16.01	16.00	16.00	17.5	0
16	25QAM	1	37	16.03	16.06	16.00	16.00	16.00		
16	25QAM	1	74	16.02	16.07	16.03	16.00	16		
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490	Turn-up limit (dBm)	MPR (dB)
8	QPSK	1	0	16.16	16.04	16.14	16.04	16.04		
8	QPSK	1	12	16.08	16.09	16.14	16.06	16.13	18	0
8	QPSK	1	24	16.10	16.07	16.09	16.06	16.08		
8	QPSK	12	0	16.13	16.09	16.14	16.08	16.07	17.5	0
8	QPSK	12	7	16.00	16.00	16.10	16.07	16.11	17.5	0
8	QPSK	12	13	16.00	16.00	16.10	16.07	16.11		
8	QPSK	25	0	16.08	16.09	16.09	16.13	16.03		
8	16QAM	1	0	16.06	16.01	16.02	16.02	16.06	17.5	0
8	16QAM	1	12	16.08	16.03	16.07	16.01	16.05		
8	16QAM	1	24	16.03	16.02	16.06	16.06	16.01		
8	16QAM	12	0	16.09	16.07	16.04	16.04	16.02	17.5	0
8	16QAM	12	7	16.04	16.04	16.00	16.00	16.01		
8	16QAM	12	13	16.01	16.02	16.02	16.00	16.06		
8	25QAM	1	0	16.01	16.02	16.02	16.00	16.00	17.5	0
8	25QAM	1	12	16.06	16.07	16.16	16.04	16.00		
8	25QAM	1	24	16.08	16.03	16.02	16.01	16.03		
8	25QAM	12	0	16.07	16.02	16.12	16.02	16.00	17.5	0
8	25QAM	12	13	16.15	16.09	16.00	16.01	16.07		
8	25QAM	25	0	16.10	16.03	16.10	16.04	16.02		



Band 2 Other PA Ant2 DSI10											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Hsp Ch / Freqs	Power Hsp Ch / Freqs	Power Hsp Ch / Freqs	Turn-up time (sec)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	19.76	19.80	19.89	21	0			
20	QPSK	1	49	19.58	19.75	19.80					
20	QPSK	1	99	19.75	19.81	19.86					
20	QPSK	50	0	19.85	19.88	19.82	21	0			
20	QPSK	50	24	19.74	19.82	19.88					
20	QPSK	50	50	19.70	19.84	19.96					
20	QPSK	100	0	19.75	19.82	19.90	21	0			
20	QPSK	100	50	19.59	19.80	19.83					
20	QPSK	100	100	19.54	19.68	19.85					
20	16QAM	1	49	19.54	19.68	19.85	21	0			
20	16QAM	1	99	19.65	19.81	19.94					
20	16QAM	50	24	19.62	19.71	19.87					
20	16QAM	50	50	19.36	19.56	19.90	21	0			
20	16QAM	100	0	19.60	19.77	19.96					
20	64QAM	1	0	19.64	19.69	19.84	21	0			
20	64QAM	1	49	19.68	19.86	19.93					
20	64QAM	50	0	19.52	19.71	19.77					
20	64QAM	50	24	19.39	19.60	19.92	20	1			
20	64QAM	50	50	19.58	19.80	19.90					
20	64QAM	100	0	19.45	19.68	19.81					
20	256QAM	1	49	19.71	19.84	19.97	18	3			
20	256QAM	1	99	19.58	19.74	19.83					
20	256QAM	50	24	19.58	19.80	19.90					
20	256QAM	50	50	19.74	19.81	19.86	18	3			
20	256QAM	100	0	19.65	19.88	19.95					
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.65	19.76	19.87		21	0		
15	QPSK	1	49	19.46	19.47	19.48					
15	QPSK	1	74	19.63	19.69	19.82					
15	QPSK	36	0	19.57	19.63	19.63	21	0			
15	QPSK	36	39	19.71	19.82	19.97					
15	QPSK	36	39	19.58	19.80	19.90					
15	16QAM	1	0	19.75	19.84	19.94	21	0			
15	16QAM	1	49	19.38	19.63	19.83					
15	16QAM	1	37	19.43	19.70	19.97					
15	16QAM	36	0	19.68	19.67	19.66	21	0			
15	16QAM	36	39	19.88	19.87	19.86					
15	16QAM	36	20	19.64	19.70	19.85					
15	16QAM	75	0	19.48	19.63	19.98	21	0			
15	64QAM	1	0	19.61	19.84	19.94					
15	64QAM	1	49	19.68	19.89	19.96					
15	64QAM	1	74	19.61	19.67	19.87	20	1			
15	64QAM	36	0	19.43	19.52	19.62					
15	64QAM	36	39	19.57	19.61	19.68					
15	64QAM	36	39	19.50	19.57	19.65	18	3			
15	64QAM	75	0	19.43	19.52	19.59					
15	256QAM	1	37	19.68	19.80	19.94					
15	256QAM	1	74	19.59	19.69	19.95	18	3			
15	256QAM	1	74	19.58	19.68	19.95					
15	256QAM	36	20	19.47	19.52	19.64					
15	256QAM	36	20	19.69	19.87	19.93	18	3			
15	256QAM	36	20	19.63	19.82	19.88					
15	256QAM	75	0	19.43	19.52	19.59					
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.65	19.80	19.95	21	0			
10	QPSK	1	25	19.54	19.68	19.95					
10	QPSK	1	49	19.55	19.88	19.92					
10	QPSK	25	12	19.73	19.82	19.84	21	0			
10	QPSK	25	25	19.63	19.82	19.98					
10	QPSK	25	25	19.63	19.82	19.98					
10	16QAM	1	0	19.44	19.77	19.81	21	0			
10	16QAM	1	25	19.48	19.74	19.97					
10	16QAM	1	49	19.55	19.80	19.96					
10	16QAM	25	12	19.62	19.69	19.98	21	0			
10	16QAM	25	12	19.62	19.69	19.98					
10	16QAM	25	12	19.62	19.69	19.98					
10	16QAM	50	0	19.48	19.69	19.98	20	1			
10	64QAM	1	0	19.49	19.73	19.98					
10	64QAM	1	49	19.55	19.80	19.96					
10	64QAM	25	0	19.32	19.50	19.98	20	1			
10	64QAM	25	12	19.44	19.57	19.81					
10	64QAM	50	0	19.44	19.68	19.97					
10	256QAM	1	25	19.34	19.53	19.94	18	3			
10	256QAM	1	25	19.58	19.71	19.94					
10	256QAM	1	49	19.58	19.83	19.96					
10	256QAM	12	13	19.59	19.87	19.95	18	3			
10	256QAM	12	13	19.59	19.87	19.95					
10	256QAM	25	12	19.64	19.87	19.98					
10	256QAM	25	25	19.58	19.84	19.90	18	3			
10	256QAM	25	25	19.58	19.84	19.90					
10	256QAM	50	0	19.37	19.56	19.99					
Channel											
Frequency (MHz)											
5	QPSK	1	0	19.73	19.81	19.95	21	0			
5	QPSK	1	12	19.36	19.57	19.98					
5	QPSK	1	24	19.72	19.73	19.84					
5	QPSK	12	0	19.63	19.88	19.95	21	0			
5	QPSK	12	7	19.58	19.84	19.89					
5	QPSK	12	13	19.59	19.87	19.95					
5	16QAM	1	0	19.43	19.74	19.89	21	0			
5	16QAM	1	12	19.60	19.89	19.98					
5	16QAM	1	12	19.61	19.75	19.90					
5	16QAM	12	0	19.73	19.88	19.96	21	0			
5	16QAM	12	7	19.50	19.63	19.92					
5	16QAM	12	13	19.38	19.67	19.90					
5	16QAM	25	0	19.46	19.64	19.94	21	0			
5	64QAM	1	0	19.58	19.83	19.90					
5	64QAM	12	0	19.42	19.56	19.96					
5	64QAM	12	13	19.22	19.38	19.99	20	1			
5	64QAM	12	13	19.50	19.63	19.98					
5	64QAM	25	0	19.42	19.47	19.94					
5	256QAM	1	0	19.40	19.59	19.98	18	3			
5	256QAM	1	12	19.72	19.76	19.89					
5	256QAM	1	24	19.49	19.65	19.97					
5	256QAM	12	13	19.65	19.77	19.83	18	3			
5	256QAM	12	7	19.57	19.56	19.81					
5	256QAM	12	13	19.57	19.56	19.81					
5	256QAM	25	0	19.32	19.50	19.96	18	3			
5	256QAM	25	12	19.53	19.67	19.95					
5	256QAM	25	25	19.53	19.67	19.95					
Channel											
Frequency (MHz)											
3	QPSK	1	0	19.64	19.76	19.97	21	0			
3	QPSK	1	8	19.48	19.72	19.95					
3	QPSK	1	14	19.72	19.73	19.81					
3	QPSK	8	0	19.47	19.81	19.93	21	0			
3	QPSK	8	4	19.58	19.76	19.97					
3	QPSK	8	7	19.63	19.82	19.97					
3	16QAM	1	0	19.54	19.76	19.91	21	0			
3	16QAM	1	8	19.47	19.79	19.97					
3	16QAM	1	14	19.83	19.83	19.84					
3	16QAM	8	0	19.76	19.92	19.97	21	0			
3	16QAM	8	4	19.58	19.85	19.98					
3	16QAM	8	7	19.38	19.69	19.95					
3	16QAM	16	0	19.60	19.79	19.93	21	0			
3	16QAM	16	8	19.48	19.83	19.93					
3	16QAM	16	8	19.63	19.78	19.92					
3	16QAM	1	14	19.83	19.83	19.82	21	0			
3	16QAM	1	14	19.44	19.55	19.62					
3	16QAM	8	4	19.38	19.47	19.51					
3	16QAM	8	4	19.47	19.57	19.62	18	3			
3	16QAM	16	0	19.31	19.48	19.58					
3	16QAM	16	8	19.57	19.67	19.72					
3	16QAM	1	14	19.80	19.80	19.82	21	0			
3	16QAM	1	14	19.40	19.50	19.55					
3	16QAM	8	4	19.51	19.48	19.39					
3	16QAM	1	14	19.84	19.84	19.84	21	0			
3	16QAM	1	14	19.44	19.54	19.64					
3	16QAM	8	4	19.59	19.58	19.80					
3	16QAM	8	4	19.72	19.86	19.92	21	0			
3	16QAM	16	0	19.31	19.44	19.55					
3	16QAM	16	8	19.42	19.61	19.67					
3	16QAM	1	14	19.87	19.87	19.87	18	3			
3	16QAM	1	14	19.46	19.57	19.62					
3	16QAM	8	4	19.55	19.57	19.66					
3	16QAM	8	4	19.53	19.53	19.53	18	3			
3	16QAM	16	0	19.38	19.42	19.51					
3	16QAM	16	8	19.60	19.62	19.62					

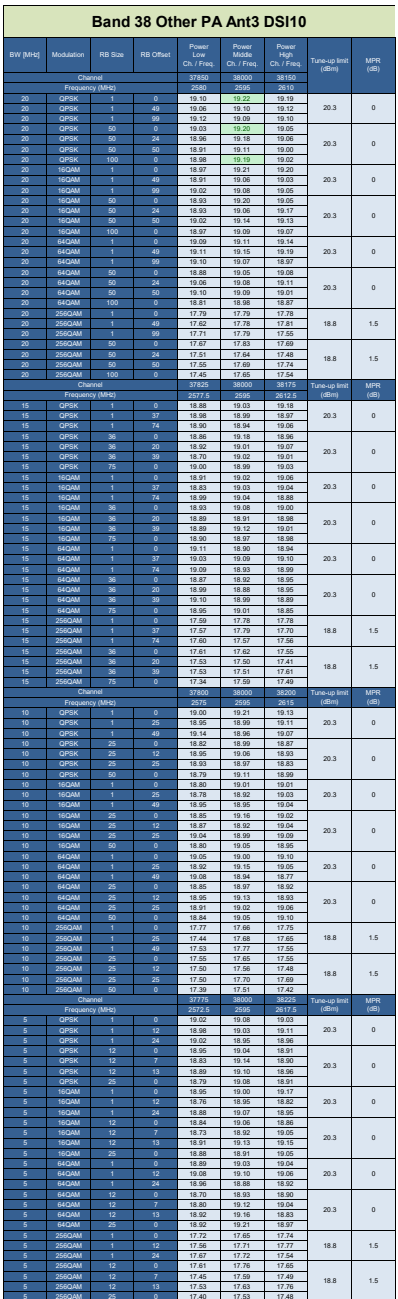


Band 38 Other PA Ant2 DS10										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel										
Frequency (MHz)				37965	38000	38100				
20	QPSK	1	0	19.58	19.62	19.58		20.9	0	
20	QPSK	1	48	19.41	19.44	19.43				
20	QPSK	1	88	19.46	19.50	19.48				
20	QPSK	50	0	19.57	19.59	19.49				
20	QPSK	50	24	19.43	19.53	19.42		20.9	0	
20	QPSK	50	50	19.42	19.52	19.45				
20	QPSK	100	0	19.54	19.55	19.38				
20	QPSK	100	1	0	19.54	19.46	19.37	20.9	0	
20	QPSK	1	48	19.50	19.50	19.46				
20	HQAM	1	99	19.50	19.57	19.46				
20	HQAM	50	24	19.37	19.50	19.35		20.9	0	
20	HQAM	50	50	19.56	19.57	19.37				
20	HQAM	100	0	19.46	19.46	19.45				
20	HQAM	100	1	0	19.54	19.41	19.35			
20	HQAM	1	48	19.53	19.48	19.56		20.9	0	
20	HQAM	1	99	19.53	19.53	19.45				
20	HQAM	50	0	19.50	19.05	19.35				
20	HQAM	50	24	19.34	19.57	19.74		20.4	0.5	
20	HQAM	50	50	19.51	19.57	19.68				
20	HQAM	100	0	19.83	19.89	19.83				
20	HQAM	100	1	0	19.82	19.92	17.03			
20	HQAM	1	48	19.84	19.93	19.94		18.4	2.5	
20	HQAM	1	99	19.76	19.91	19.88				
20	HQAM	50	0	19.82	19.92	19.85				
20	HQAM	50	24	19.68	19.85	19.71		18.4	2.5	
20	HQAM	50	50	19.82	19.87	19.85				
20	HQAM	100	0	19.82	19.82	19.82				
Channel										
Frequency (MHz)				37975	38000	38175	Turn-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	19.42	19.43	19.42				
15	QPSK	1	37	19.25	19.29	19.38		20.9	0	
15	QPSK	1	74	19.48	19.58	19.34				
15	QPSK	36	0	19.45	19.52	19.46				
15	QPSK	36	20	19.30	19.52	19.37		20.9	0	
15	QPSK	75	0	19.35	19.43	19.37				
15	HQAM	1	0	19.42	19.41	19.22		20.9	0	
15	HQAM	1	37	19.51	19.59	19.45				
15	HQAM	1	74	19.47	19.49	19.40				
15	HQAM	36	0	19.46	19.42	19.52		20.9	0	
15	HQAM	36	20	19.35	19.50	19.35				
15	HQAM	36	39	19.52	19.57	19.37				
15	HQAM	75	0	19.34	19.42	19.29				
15	HQAM	75	0	19.34	19.42	19.45				
15	HQAM	1	37	19.45	19.59	19.46		20.9	0	
15	HQAM	1	74	19.47	19.55	19.32				
15	HQAM	36	0	19.77	19.89	19.65		20.4	0.5	
15	HQAM	36	20	19.60	19.76	19.67				
15	HQAM	36	39	19.87	19.86	19.68				
15	HQAM	75	0	19.58	19.77	19.57				
15	HQAM	75	0	19.68	19.80	19.83		18.4	2.5	
15	HQAM	1	37	19.57	19.89	19.65				
15	HQAM	1	74	19.57	19.84	19.67				
15	HQAM	36	0	19.54	19.63	19.80		18.4	2.5	
15	HQAM	36	20	19.34	19.65	19.65				
15	HQAM	36	39	19.78	19.74	19.69				
15	HQAM	75	0	19.60	19.76	19.84				
Channel										
Frequency (MHz)				25175	25215	25315	Turn-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	19.47	19.48	19.46				
10	QPSK	1	25	19.38	19.42	19.44		20.9	0	
10	QPSK	1	48	19.34	19.40	19.38				
10	QPSK	25	0	19.45	19.50	19.45		20.9	0	
10	QPSK	25	12	19.43	19.43	19.32				
10	QPSK	25	25	19.33	19.48	19.51				
10	HQAM	1	0	19.35	19.38	19.34		20.9	0	
10	HQAM	1	25	19.32	19.38	19.43				
10	HQAM	1	48	19.47	19.41	19.21				
10	HQAM	25	0	19.46	19.37	19.46		20.9	0	
10	HQAM	25	12	19.34	19.39	19.32				
10	HQAM	25	25	19.43	19.51	19.29				
10	HQAM	50	0	19.38	19.42	19.32				
10	HQAM	50	1	19.35	19.45	19.35		20.9	0	
10	HQAM	1	25	19.53	19.52	19.54				
10	HQAM	1	48	19.43	19.56	19.13				
10	HQAM	25	0	19.38	19.05	19.72		20.4	0.5	
10	HQAM	25	12	19.77	19.88	19.69				
10	HQAM	25	25	19.76	19.80	19.67				
10	HQAM	50	0	19.59	19.62	19.65		18.4	2.5	
10	HQAM	50	1	19.58	19.70	19.52				
10	HQAM	25	12	19.65	19.71	19.50				
10	HQAM	25	25	19.70	19.77	19.54				
10	HQAM	50	0	19.78	19.84	19.55				

Band 41 Other PA Ant2 DS10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39790	40185	40620	41005	41480			
20	QPSK	1	0	19.43	19.43	19.53	19.58	19.51			
20	QPSK	1	48	19.32	19.34	19.58	19.49	19.50	20.9	0	
20	QPSK	1	88	19.32	19.30	19.50	19.47	19.34			
20	QPSK	50	0	19.25	19.35	19.59	19.49	19.34			
20	QPSK	50	24	19.25	19.22	19.48	19.58	19.41	20.9	0	
20	QPSK	50	50	19.27	19.26	19.48	19.55	19.39			
20	QPSK	100	0	19.25	19.41	19.57	19.37	19.53			
20	HQAM	1	0	19.25	19.42	19.50	19.56	19.29	20.9	0	
20	HQAM	1	48	19.32	19.36	19.52	19.48	19.30			
20	HQAM	1	99	19.41	19.42	19.57	19.41	19.48			
20	HQAM	50	24	19.43	19.26	19.42	19.42	19.36	20.9	0	
20	HQAM	50	50	19.21	19.26	19.54	19.55	19.38			
20	HQAM	100	0	19.08	19.12	19.47	19.48	19.15			
20	HQAM	100	1	0	19.21	19.16	19.46	19.22	20.9	0	
20	HQAM	1	49	19.32	19.29	19.44	19.54	19.48	20.9	0	
20	HQAM	1	99	19.32	19.34	19.35	19.13	19.14			
20	HQAM	50	24	18.91	19.02	19.23	18.97	19.04	20.4	0.5	
20	HQAM	50	50	19.11	19.09	19.25	19.01	19.21			
20	HQAM	100	0	18.94	19.09	19.04	18.92	19.02			
20	HQAM	100	1	0	17.02	17.29	17.25	17.12	18.93	18.4	2.5
20	HQAM	1	49	17.03	17.13	17.25	17.06	17.18			
20	HQAM	1	99	16.89	17.19	17.24	17.04	16.96			
20	HQAM	50	24	16.81	17.02	17.19	17.03	17.03	18.4	2.5	
20	HQAM	50	50	16.87	17.07	17.16	17.13	17.13			
20	HQAM	100	0	16.82	16.90	17.17	17.05	17.05			
Channel											
Frequency (MHz)				39725	40173	40620	41005	41515	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.43	19.43	19.53	19.58	19.51			
15	QPSK	1	37	19.18	19.34	19.47	19.49	19.40	21	0	
15	QPSK	1	74	19.01	19.19	19.49	19.43	19.35			
15	QPSK	36	0	19.08	19.20	19.46	19.43	19.23	20.9	0	
15	QPSK	36	20	19.14	19.20	19.34	19.48	19.28			
15	QPSK	75	0	19.24	19.25	19.38	19.16	19.37	20.9	0	
15	HQAM	1	0	19.23	19.31	19.40	19.35	19.23			
15	HQAM	1	37	19.24	19.30	19.42	19.49	19.23	20.9	0	
15	HQAM	1	74	19.40	19.36	19.41	19.27	19.35			
15	HQAM	36	0	19.20	19.14	19.48	19.28	19.37			
15	HQAM	36	20	19.20	19.20	19.34	19.27	19.34	20.9	0	
15	HQAM	36	39	19.23	19.29	19.49	19.29	19.17			
15	HQAM	75	0	19.31	19.32	19.44	19.20	19.15			
15	HQAM	75	0	19.09	19.41	19.28	19.39	19.23			
15	HQAM	1	37	19.15	19.18	19.44	19.55	19.48	20.9	0	
15	HQAM	1	74	19.13	19.16	19.36	19.16	19.31			
15	HQAM	36	0	19.04	19.03	19.30	18.94	19.00			
15	HQAM	36	20	19.72	19.94	19.15	18.98	19.30	20.4	0.5	
15	HQAM	36	39	19.01	19.02	19.15	18.97	19.02			
15	HQAM	75	0	19.03	19.07	19.09	19.00	19.00			
15	HQAM	1	0	17.06	17.24	17.12	16.95	16.78	18.4	2.5	
15	HQAM	1	37	16.95	16.92	17.18	16.97	17.07			
15	HQAM	1	74	16.98	16.98	17.20	16.97	16.98			
15	HQAM	36	20	16.97	16.91	17.00	16.97	16.98			
15	HQAM	36	39	16.78	17.07	17.01	17.05	16.96	18.4	2.5	
15	HQAM	75	0	16.78	16.82	16.92	16.78	16.78			
Channel											
Frequency (MHz)				39790	40160	40620	41008	41540	Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	19.43	19.43	19.53	19.58	19.51			
5	QPSK	1	25	19.14	19.22	19.43	19.40	19.31	21	0	
5	QPSK	1	50	19.14	19.14	19.43	19.43	19.31			
5	QPSK	25	0	19.15	19.30	19.50	19.41	19.41			
5	QPSK	25	12	19.17	19.11	19.46	19.47	19.22			
5	QPSK	25	25	19.06	19.19	19.46	19.46	19.23	20.9	0	
5	QPSK	50	0	19.16	19.32	19.53	19.47	19.42			
5	HQAM	1	0	19.11	19.17	19.41	19.38	19.19			
5	HQAM	1	25	19.23	19.14	19.49	19.41	19.28	20.9	0	
5	HQAM	1	49	19.39	19.23	19.53	19.22	19.34			
5	HQAM	25	0	19.11	19.12	19.45	19.47	19.30			
5	HQAM	25	12	19.06	19.13	19.49	19.47	19.24	20.9	0	
5	HQAM	25	25	19.14	19.36	19.36	19.42	19.34			
5	HQAM	50	0	19.08	19.21	19.46	19.46	19.18			
5	HQAM	50	0	19.10	19.23	19.41	19.41	19.13			
5	HQAM	1	25	19.29	19.15	19.35	19.45	19.48	20.9	0	
5	HQAM	1	49	19.17	19.13	19.35	19.37	19.24			
5	HQAM	25	0	19.78	19.14	19.07	18.95	19.04			
5	HQAM	25	12	19.72	19.00	18.87	18.79	19.03			
5	HQAM	25	25	19.06	19.13	19.02	18.92	18.89	20.4	0.5	
5	HQAM	50	0	19.40	19.00	18.73	18.95	19.03			
5	HQAM	50	0	19.40	19.00	18.73	18.95	19.03			
5	HQAM	1	25	19.72	17.06	16.98	16.92	17.06	18.4	2.5	
5	HQAM	1	49	16.78	16.81	17.12	17.11	16.84			
5	HQAM	25	12	16.87	16.85	17.11	17.11	16.85			
5	HQAM	25	25	16.74	16.88	17.17	17.13	16.74	18.4	2.5	
5	HQAM	25	25	16.81	17.07	17.14	17.03	17.17			
5	HQAM	50	0	16.82	16.90	17.17	17.05	17.05			
Channel											
Frequency (MHz)				39675	40148	40620	41008	41565	Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	19.43	19.43	19.53	19.58	19.51			
5	QPSK	1	12	19.28	19.22	19.38	19.34	19.43	21	0	
5	QPSK	1	24	19.21	19.26	19.48	19.48	19.44			
5	QPSK	12	0	19.20	19.24	19.52	19.38	19.28			
5	QPSK	12	7	19.08	19.20	19.46	19.47	19.24	20.9	0	
5	QPSK	12	14	19.19	19.29	19.46	19.47	19.28			
5	QPSK	25	0	19.17	19.26	19.48	19.17	19.48			
5	HQAM	1	0	19.16	19.43	19.52	19.57	19.12			
5	HQAM	1	12	19.28	19.14	19.42	19.47	19.24	20.9	0	
5	HQAM	1	24	19.31	19.21	19.53	19.51	19.42			
5	HQAM	12	0	19.26	19.23	19.47	19.47	19.22	20.9	0	
5	HQAM	12	7	19.21	19.27	19.51	19.49	19.22			
5	HQAM	12	13	19.31	19.24	19.45	19.42	19.29			
5	HQAM	25	0	19.08	19.28	19.48	19.48	19.29			
5	HQAM	25	0	19.20	19.28	19.40	19.50	19.15			
5	HQAM	1	12	19.19	19.20	19.24	19.35	19.39	20.9	0	
5	HQAM	1	24	19.01	19.20	19.24	19.35	19.18			
5	HQAM	12	0	19.01	19.20	19.24	19.35	19.18			
5	HQAM	12	0	19.01	19.20	19.24	19.35	19.18			
5	HQAM	25	0	19.20	19.51	18.85	18.93	18.86	20.4	0.5	
5	HQAM	25	0	19.20	19.56	18.74	18.82	18.86			
5	HQAM	1	12	19.71	19.91	17.13	17.00	16.96	18.4	2.5	
5	HQAM	1	24	16.72	17.01	17.07	17.06	17.03			
5	HQAM	12	0	16.78	17.08	17.12	17.07	17.04			
5	HQAM	12	7	16.65	16.86	17.12	16.92	16.90	18.4	2.5	
5	HQAM	12	13	16.81	17.06	17.13	17.07	17.12			



Band 2 Other PA Ant3 DS110										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Min Ch / Freqs	Power Max Ch / Freqs	Power Min Ch / Freqs	Turn-up Time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.43	16.46	16.27				
20	QPSK	1	49	16.40	16.27	16.20	17.0	0		
20	QPSK	1	99	16.32	16.27	16.06				
20	QPSK	50	0	16.30	16.30	16.05				
20	QPSK	50	24	16.30	16.32	16.04	17.0	0		
20	QPSK	50	50	16.16	16.32	16.38				
20	QPSK	100	0	16.23	16.33	16.04				
20	QPSK	100	24	16.34	16.32	16.04	17.0	0		
20	QPSK	1	49	16.19	16.12	16.06				
20	QPSK	50	99	16.26	16.16	16.37				
20	QPSK	50	50	16.20	16.16	16.10				
20	QPSK	50	24	16.27	16.37	15.94	17.0	0		
20	QPSK	50	50	16.15	16.35	16.06				
20	QPSK	100	0	16.40	16.27	16.01				
20	QPSK	1	49	16.28	16.34	16.26	17.0	0		
20	QPSK	1	99	16.34	16.16	16.12				
20	QPSK	50	0	16.16	16.27	16.31				
20	QPSK	50	24	16.10	16.26	16.35	17.0	0		
20	QPSK	50	50	16.20	16.25	16.06				
20	QPSK	100	0	16.31	16.20	16.03				
20	QPSK	1	49	16.23	16.16	16.03				
20	QPSK	1	99	16.13	16.29	15.90	17.0	0		
20	QPSK	50	99	16.19	16.22	16.09				
20	QPSK	50	24	16.20	16.29	16.21				
20	QPSK	50	50	16.17	16.09	16.32	17.0	0		
20	QPSK	100	0	16.21	16.18	16.05				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.57	16.60	16.03				
15	QPSK	1	49	16.21	16.29	16.06	17.0	0		
15	QPSK	1	99	16.25	16.21	16.01				
15	QPSK	1	74	16.24	16.39	16.18				
15	QPSK	36	0	16.19	16.20	16.01				
15	QPSK	36	39	16.12	16.15	16.10	17.0	0		
15	QPSK	75	0	16.23	16.21	16.03				
15	QPSK	1	1	16.16	16.26	16.05				
15	QPSK	1	37	16.19	16.40	16.18	17.0	0		
15	QPSK	1	74	16.05	16.13	16.21				
15	QPSK	36	39	16.20	16.06	16.04				
15	QPSK	36	39	16.14	16.24	16.28	17.0	0		
15	QPSK	75	0	16.16	16.25	16.04				
15	QPSK	75	0	16.21	16.16	16.06				
15	QPSK	1	0	16.06	16.26	16.23				
15	QPSK	1	49	16.26	16.21	16.14	17.0	0		
15	QPSK	1	74	16.04	16.29	16.26				
15	QPSK	36	39	16.06	16.26	16.11				
15	QPSK	36	39	16.02	16.09	16.01	17.0	0		
15	QPSK	75	0	16.04	16.44	16.18				
15	QPSK	75	0	16.13	16.05	16.12				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.07	16.06	15.95				
10	QPSK	1	25	16.40	16.08	16.01	17.0	0		
10	QPSK	1	49	16.17	16.37	15.91				
10	QPSK	1	74	16.20	16.26	16.03				
10	QPSK	25	12	16.10	16.27	15.93	17.0	0		
10	QPSK	25	25	16.13	16.18	16.38				
10	QPSK	25	25	16.09	16.15	16.38				
10	QPSK	50	0	16.30	16.09	15.97				
10	QPSK	1	25	16.06	16.43	16.28	17.0	0		
10	QPSK	1	49	16.16	16.36	16.08				
10	QPSK	1	74	16.19	16.16	16.00				
10	QPSK	25	12	16.15	16.02	15.75				
10	QPSK	25	25	16.09	16.26	15.92	17.0	0		
10	QPSK	50	0	16.16	16.09	15.95				
10	QPSK	1	25	16.07	16.06	15.80				
10	QPSK	1	25	16.03	16.07	15.73	17.0	0		
10	QPSK	1	49	16.08	16.16	15.92				
10	QPSK	1	74	16.10	16.22	15.75				
10	QPSK	25	12	16.16	16.07	15.86				
10	QPSK	25	25	16.13	16.07	15.80	17.0	0		
10	QPSK	50	0	16.19	16.02	15.99				
10	QPSK	1	25	16.00	16.16	16.11				
10	QPSK	1	49	16.03	16.00	15.71				
10	QPSK	1	74	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	16.03	16.13	15.92				
10	QPSK	25	25	16.06	16.26	16.01	17.0	0		
10	QPSK	50	0	16.07	16.03	15.78				
10	QPSK	1	25	16.03	16.15	15.85				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	15.97	16.21	15.97				
10	QPSK	25	25	16.01	16.04	15.97	17.0	0		
10	QPSK	50	0	16.12	16.07	15.80				
10	QPSK	1	25	16.12	16.07	15.80				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	16.03	16.13	15.92				
10	QPSK	25	25	16.06	16.26	16.01	17.0	0		
10	QPSK	50	0	16.07	16.03	15.78				
10	QPSK	1	25	16.03	16.15	15.85				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	15.97	16.21	15.97				
10	QPSK	25	25	16.01	16.04	15.97	17.0	0		
10	QPSK	50	0	16.12	16.07	15.80				
10	QPSK	1	25	16.12	16.07	15.80				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	16.03	16.13	15.92				
10	QPSK	25	25	16.06	16.26	16.01	17.0	0		
10	QPSK	50	0	16.07	16.03	15.78				
10	QPSK	1	25	16.03	16.15	15.85				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	15.97	16.21	15.97				
10	QPSK	25	25	16.01	16.04	15.97	17.0	0		
10	QPSK	50	0	16.12	16.07	15.80				
10	QPSK	1	25	16.12	16.07	15.80				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	16.03	16.13	15.92				
10	QPSK	25	25	16.06	16.26	16.01	17.0	0		
10	QPSK	50	0	16.07	16.03	15.78				
10	QPSK	1	25	16.03	16.15	15.85				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	15.97	16.21	15.97				
10	QPSK	25	25	16.01	16.04	15.97	17.0	0		
10	QPSK	50	0	16.12	16.07	15.80				
10	QPSK	1	25	16.12	16.07	15.80				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	16.03	16.13	15.92				
10	QPSK	25	25	16.06	16.26	16.01	17.0	0		
10	QPSK	50	0	16.07	16.03	15.78				
10	QPSK	1	25	16.03	16.15	15.85				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	15.97	16.21	15.97				
10	QPSK	25	25	16.01	16.04	15.97	17.0	0		
10	QPSK	50	0	16.12	16.07	15.80				
10	QPSK	1	25	16.12	16.07	15.80				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	16.03	16.13	15.92				
10	QPSK	25	25	16.06	16.26	16.01	17.0	0		
10	QPSK	50	0	16.07	16.03	15.78				
10	QPSK	1	25	16.03	16.15	15.85				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	15.97	16.21	15.97				
10	QPSK	25	25	16.01	16.04	15.97	17.0	0		
10	QPSK	50	0	16.12	16.07	15.80				
10	QPSK	1	25	16.12	16.07	15.80				
10	QPSK	1	49	16.04	16.24	16.01	17.0	0		
10	QPSK	1	74	16.04	16.24	16.01				
10	QPSK	25	12	16.03	16.13	15.92				
10	QPSK	25	25	16.06	16.26	16.01	17.0	0		
10	QPSK	50	0	16.07	16.03	15.78				
10	QPSK									



Band 41 HPUE Other PA Ant3 DS110											
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Low Ch. [W]	Power Low Ch. [W]	Power Mid Ch. [W]	Power High Mid Ch. [W]	Power High Ch. [W]	Turn-up time (s)	MPR (dB)	
Channel											
Frequency (MHz)				36950	42165	49020	41005	41400			
				2508	2549.5	2531	2638.5	2680			
20	QPSK	1	0	20.73	20.82	20.73	20.73	20.82	21.9	0	
20	QPSK	1	48	20.83	20.82	20.77	20.77	20.78			
20	QPSK	1	99	20.81	20.88	20.79	20.82	20.70			
20	QPSK	5	0	20.77	20.82	20.73	20.73	20.78	21.9	0	
20	QPSK	50	24	20.82	20.81	20.85	20.85	20.58			
20	QPSK	50	50	20.83	20.76	20.73	20.38	20.45			
20	16QAM	1	0	20.77	20.78	20.73	20.73	20.78	21.9	0	
20	16QAM	1	48	20.82	20.82	20.79	20.49	20.63			
20	16QAM	1	99	20.79	20.88	20.79	20.82	20.58			
20	16QAM	5	0	20.74	20.79	20.73	20.37	20.45			
20	16QAM	50	0	20.44	20.83	20.85	20.42	20.54			
20	16QAM	50	24	20.83	20.82	20.86	20.86	20.38			
20	16QAM	50	50	20.84	20.65	20.63	20.52	20.51	21.9	0	
20	16QAM	100	0	20.69	20.83	20.66	20.68	20.61			
20	16QAM	100	24	20.80	20.88	20.88	20.88	20.50			
20	16QAM	1	49	20.74	20.71	20.52	20.84	20.66			
20	16QAM	1	99	20.58	20.80	20.67	20.38	20.49			
20	16QAM	5	0	20.72	20.80	20.69	20.38	20.38			
20	16QAM	50	24	20.73	20.71	20.69	20.69	20.49			
20	16QAM	50	50	20.73	20.71	20.69	20.69	20.49			
20	16QAM	100	0	20.69	20.82	20.82	20.47	20.37			
20	25QAM	1	0	20.67	20.75	20.54	20.50	20.50			
20	25QAM	1	48	20.65	20.72	20.57	20.57	20.53			
20	25QAM	1	99	20.80	20.69	20.74	20.45	20.39			
20	25QAM	5	0	20.74	20.82	20.62	20.37	20.48			
20	25QAM	50	24	20.48	20.81	20.81	20.38	20.43	21.9	0	
20	25QAM	50	50	20.78	20.77	20.73	20.35	20.36			
20	25QAM	100	0	20.68	20.82	20.82	20.47	20.47			
Channel											
Frequency (MHz)				47175	42173	49026	41008	41515	Turn-up time (s)	MPR (dB)	
				26013	254.3	2531	2637.8	2682.5			
10	QPSK	1	0	20.73	20.79	20.72	20.60	20.54			
10	QPSK	1	37	20.44	20.79	20.72	20.60	20.60	22	0	
10	QPSK	1	74	20.73	20.67	20.63	20.34	20.37			
10	QPSK	5	0	20.68	20.67	20.67	20.34	20.47			
10	QPSK	36	20	20.57	20.61	20.64	20.20	20.54			
10	QPSK	75	0	20.70	20.68	20.73	20.27	20.44			
10	QPSK	75	24	20.57	20.76	20.76	20.27	20.43			
10	16QAM	1	0	20.76	20.78	20.53	20.49	20.43			
10	16QAM	1	37	20.68	20.77	20.67	20.37	20.46	21.9	0	
10	16QAM	1	74	20.77	20.74	20.67	20.44	20.58			
10	16QAM	5	0	20.48	20.61	20.75	20.44	20.63			
10	16QAM	36	20	20.57	20.63	20.66	20.20	20.55			
10	16QAM	75	0	20.77	20.68	20.73	20.50	20.50			
10	16QAM	75	24	20.57	20.76	20.61	20.38	20.55			
10	16QAM	75	50	20.58	20.77	20.68	20.38	20.44			
10	16QAM	1	37	20.62	20.65	20.46	20.64	20.58	21.9	0	
10	16QAM	1	74	20.67	20.46	20.47	20.51	20.58			
10	16QAM	5	0	20.63	20.60	20.63	20.33	20.34			
10	16QAM	36	20	20.65	20.69	20.54	20.60	20.47			
10	16QAM	75	0	20.73	20.64	20.76	20.50	20.50	21.9	0	
10	16QAM	75	24	20.57	20.70	20.65	20.41	20.69			
10	25QAM	1	0	20.44	20.74	20.58	20.43	20.50			
10	25QAM	1	37	20.68	20.85	20.65	20.38	20.38			
10	25QAM	1	74	20.59	20.81	20.67	20.52	20.65			
10	25QAM	5	0	20.58	20.78	20.77	20.41	20.58			
10	25QAM	36	20	20.81	20.87	20.59	20.36	20.43	21.9	0	
10	25QAM	75	0	20.67	20.65	20.65	20.36	20.43			
10	25QAM	75	24	20.68	20.79	20.77	20.37	20.55			
Channel											
Frequency (MHz)				49010	42160	49026	41008	41560	Turn-up time (s)	MPR (dB)	
				26013	254.3	2531	2643.9	2697.7			
5	QPSK	1	0	20.64	20.65	20.51	20.43	20.57			
5	QPSK	1	12	20.61	20.81	20.59	20.42	20.44	22	0	
5	QPSK	1	24	20.70	20.71	20.61	20.68	20.61			
5	QPSK	5	0	20.64	20.81	20.64	20.34	20.51			
5	QPSK	12	7	20.63	20.87	20.49	20.33	20.52			
5	QPSK	12	19	20.79	20.77	20.73	20.33	20.41			
5	QPSK	25	0	20.48	20.70	20.79	20.52	20.54			
5	16QAM	1	0	20.41	20.58	20.65	20.27	20.62			
5	16QAM	1	12	20.50	20.66	20.66	20.33	20.36			
5	16QAM	1	24	20.71	20.77	20.57	20.41	20.44			
5	16QAM	12	0	20.59	20.73	20.86	20.46	20.50			
5	16QAM	12	19	20.73	20.73	20.63	20.43	20.44			
5	16QAM	25	13	20.61	20.73	20.89	20.50	20.65	21.9	0	
5	16QAM	1	0	20.38	20.78	20.75	20.34	20.52			
5	16QAM	1	12	20.41	20.68	20.68	20.34	20.35			
5	16QAM	1	12	20.64	20.62	20.54	20.43	20.48			
5	16QAM	1	24	20.51	20.45	20.65	20.43	20.58			
5	16QAM	12	0	20.70	20.69	20.48	20.42	20.30			
5	16QAM	12	7	20.54	20.63	20.59	20.43	20.40	21.9	0	
5	16QAM	12	19	20.68	20.40	20.40	20.40	20.33			
5	16QAM	25	0	20.54	20.75	20.46	20.47	20.25			
5	25QAM	1	0	20.38	20.66	20.38	20.36	20.33			
5	25QAM	1	12	20.54	20.64	20.64	20.46	20.33			
5	25QAM	1	24	20.74	20.55	20.70	20.38	20.39			
5	25QAM	5	0	20.68	20.62	20.65	20.34	20.55			
5	25QAM	12	7	20.70	20.58	20.58	20.44	20.45	21.9	0	
5	25QAM	12	19	20.75	20.72	20.66	20.56	20.63			
5	25QAM	25	0	20.58	20.78	20.65	20.37	20.46			



DL CA Power

2CA DL

CA List	PCC										SCC					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL RB	UL Antenna Configuration	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	Freq. (MHz)	Freq. (MHz)	Channel						Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
CA_2A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.33	21.38
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		20.83	20.89
	Band 2	Ant2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.37	21.54
	Band 2	Ant3	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.65	22.79
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		22.08	22.28
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		21.60	21.67
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		21.52	21.58
CA_2A-66A	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		22.75	22.83
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO		21.32	21.38
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO		20.82	20.89
	Band 2	Ant2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO		21.47	21.54
	Band 2	Ant3	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO		22.72	22.79
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		21.30	21.44
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		20.84	21.03
CA_4A-5A	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		21.46	21.53
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO		22.56	22.59
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			21.18	21.34
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			20.56	20.81
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			21.39	21.54
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			22.47	22.52
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO		22.41	22.45
CA_4A-7A	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO		22.56	22.61
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.26	21.34
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		20.68	20.81
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.35	21.54
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.40	22.52
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.05	22.28
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		21.63	21.67
CA_5A-7A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		21.44	21.58
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.80	22.83
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO		22.39	22.45
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO		22.50	22.61
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			22.22	22.28
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			21.59	21.67
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			21.49	21.58
CA_7C	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525			22.79	22.83
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		22.19	22.28
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		21.64	21.67
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		21.40	21.58
CA_38C	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		22.73	22.83
	Band 38	Ant0	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO		23.86	23.95
	Band 38	Ant1	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO		23.41	23.48
	Band 38	Ant2	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO		22.88	22.96
CA_41A-42A	Band 38	Ant3	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO		24.12	24.17
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		22.69	22.71
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		22.80	22.84
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		21.56	21.61
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		22.68	22.71
	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO		19.80	19.83
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO		19.92	19.99
CA_66C	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO		20.65	20.72
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO		21.35	21.44
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO		21.00	21.03
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO		21.48	21.53
CA_66C	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO		22.51	22.59

3CA DL

3CA List	PCC									SCC1					SCC2				Power			
	LTE	BW	BW	UL	UL		UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset		Band	(MHz)	Freq.	Channel		Band	(MHz)	Freq.	Channel		Tx. Power (dBm)	Tx. Power (dBm)	
CA_2A-4A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525			21.24	21.38
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525			20.86	20.89
	Band 2	Ant2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525			21.45	21.54
	Band 2	Ant3	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525			22.68	22.79
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO		21.20	21.34
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO		20.70	20.81
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO		21.49	21.54
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO		22.44	22.52
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.41	22.45
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.53	22.61
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		22.37	22.45
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		22.49	22.61
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525			21.35	21.44
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525			20.99	21.03
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525			21.45	21.53
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525			22.45	22.59
CA_41A-41C	Band 41	Ant0	20M	2675.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO		22.65	22.71
	Band 41	Ant1	20M	2675.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO		22.80	22.84
	Band 41	Ant2	20M	2675.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO		21.57	21.61
	Band 41	Ant3	20M	2675.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO		22.80	22.71
CA_41A-42C	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO		22.59	22.71
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO		22.70	22.84
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO		21.52	21.61
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO		22.63	22.71
	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO		19.68	19.83
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO		19.94	19.99
	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO		20.63	20.72
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO		20.77	20.88
CA_41C-42A	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		22.64	22.71
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		22.72	22.84
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		21.58	21.61
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		22.57	22.71
	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO		19.77	19.83
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO		19.94	19.99
	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO		20.66	20.72
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO		20.83	20.88

4CA DL

Configure	PCC									SCC1					SCC2					SCC3					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_41A-41D	Band 41	Ant0	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2640.4	41094	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.66	22.71
	Band 41	Ant1	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2640.4	41094	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.80	22.84
	Band 41	Ant2	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2640.4	41094	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	21.54	21.61
	Band 41	Ant3	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2640.4	41094	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.67	22.71
CA_41C-41C	Band 41	Ant0	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.60	22.71
	Band 41	Ant1	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.80	22.84
	Band 41	Ant2	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	21.49	21.61
	Band 41	Ant3	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.63	22.71
CA_41C-42C	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	22.58	22.71
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	22.81	22.84
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	21.54	21.61
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	22.68	22.71
	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	19.80	19.83
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	19.91	19.99
	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	20.66	20.72
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	20.83	20.88
CA_41E	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	22.69	22.71
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	22.70	22.84
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	21.54	21.61
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	22.68	22.71

Uplink CA Power

CA_7C Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.66	21.50
21100	21298	QPSK	1	99	1	0	20.75	21.50
21350	21152	QPSK	1	0	1	99	20.71	21.50

CA_38C Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.05	22.00
37901	38099	QPSK	1	99	1	0	21.15	22.00
38150	37952	QPSK	1	0	1	99	21.11	22.00

CA_41C Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.16	22.00
40185	40383	QPSK	1	99	1	0	21.21	22.00
40620	40818	QPSK	1	99	1	0	21.3	22.00
41055	41253	QPSK	1	99	1	0	21.23	22.00
41490	41292	QPSK	1	0	1	99	21.17	22.00

CA_41C HPUE Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.62	25.00
40185	40383	QPSK	1	99	1	0	23.69	25.00
40620	40818	QPSK	1	99	1	0	23.76	25.00
41055	41253	QPSK	1	99	1	0	23.71	25.00
41490	41292	QPSK	1	0	1	99	23.64	25.00

CA_42C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	20.20	21.00
42590	42788	QPSK	1	99	1	0	20.25	21.00
42990	42792	QPSK	1	0	1	99	20.13	21.00
42190	42388	QPSK	50	50	50	0	20.12	21.00
42590	42788	QPSK	50	50	50	0	20.08	21.00
42990	42792	QPSK	50	0	50	50	19.97	21.00

CA_66C Ant0								
Combination 20MHz+20MHz (1RB+99RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	21.30	23.00
132322	132520	QPSK	1	99	1	0	21.38	23.00
132572	132374	QPSK	1	0	1	99	21.24	23.00

CA_7C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.33	22.50
21100	21298	QPSK	1	99	1	0	21.45	22.50
21350	21152	QPSK	1	0	1	99	21.40	22.50

CA_38C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.35	22.50
37901	38099	QPSK	1	99	1	0	21.44	22.50
38150	37952	QPSK	1	0	1	99	21.33	22.50

CA_41C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.62	22.50
40185	40383	QPSK	1	99	1	0	21.54	22.50
40620	40818	QPSK	1	99	1	0	21.67	22.50
41055	41253	QPSK	1	99	1	0	21.6	22.50
41490	41292	QPSK	1	0	1	99	21.63	22.50

CA_41C HPUE Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.6	25.00
40185	40383	QPSK	1	99	1	0	23.66	25.00
40620	40818	QPSK	1	99	1	0	23.69	25.00
41055	41253	QPSK	1	99	1	0	23.62	25.00
41490	41292	QPSK	1	0	1	99	23.56	25.00

CA_42C Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	20.49	21.50
42590	42788	QPSK	1	99	1	0	20.54	21.50
42990	42792	QPSK	1	0	1	99	20.43	21.50
42190	42388	QPSK	50	50	50	0	20.43	21.50
42590	42788	QPSK	50	50	50	0	20.41	21.50
42990	42792	QPSK	50	0	50	50	20.25	21.50

CA_66C Ant1								
Combination 20MHz+20MHz (1RB+99RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	20.91	22.00
132322	132520	QPSK	1	99	1	0	21.02	22.00
132572	132374	QPSK	1	0	1	99	20.98	22.00

CA_7C Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.46	21.50
21100	21298	QPSK	1	99	1	0	20.54	21.50
21350	21152	QPSK	1	0	1	99	20.43	21.50

CA_38C Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.20	21.50
37901	38099	QPSK	1	99	1	0	20.33	21.50
38150	37952	QPSK	1	0	1	99	20.26	21.50

CA_41C Ant2								
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	20.09	21.00
40185	40383	QPSK	1	99	1	0	20.13	21.00
40620	40818	QPSK	1	99	1	0	20.2	21.00
41055	41253	QPSK	1	99	1	0	20.1	21.00
41490	41292	QPSK	1	0	1	99	20.04	21.00
39750	39948	QPSK	50	50	50	0	20.06	21.00
40185	40383	QPSK	50	50	50	0	20	21.00
40620	40818	QPSK	50	50	50	0	20.04	21.00
41055	41253	QPSK	50	50	50	0	19.98	21.00
41490	41292	QPSK	50	0	50	50	19.83	21.00

CA_41C HPUE Ant2								
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	22.68	24.00
40185	40383	QPSK	1	99	1	0	22.75	24.00
40620	40818	QPSK	1	99	1	0	22.79	24.00
41055	41253	QPSK	1	99	1	0	22.73	24.00
41490	41292	QPSK	1	0	1	99	22.66	24.00

CA_42C Ant3								
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		
42190	42388	QPSK	1	99	1	0	21.26	22.50
42590	42788	QPSK	1	99	1	0	21.33	22.50
42990	42792	QPSK	1	0	1	99	21.30	22.50

CA_66C Ant2								
Combination 20MHz+20MHz (1RB+99RB)								
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	21.37	23.00
132322	132520	QPSK	1	99	1	0	21.48	23.00
132572	132374	QPSK	1	0	1	99	21.42	23.00

CA_7C Ant3								
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	21.13	22.00
21100	21298	QPSK	1	99	1	0	21.18	22.00
21350	21152	QPSK	1	0	1	99	21.10	22.00

CA_38C Ant3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.30	22.50
37901	38099	QPSK	1	99	1	0	21.42	22.50
38150	37952	QPSK	1	0	1	99	21.37	22.50

CA_41C Ant3								
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	21.3	22.50
40185	40383	QPSK	1	99	1	0	21.38	22.50
40620	40818	QPSK	1	99	1	0	21.46	22.50
41055	41253	QPSK	1	99	1	0	21.42	22.50
41490	41292	QPSK	1	0	1	99	21.35	22.50

CA_41C HPUE Ant3								
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	23.66	25.00
40185	40383	QPSK	1	99	1	0	23.7	25.00
40620	40818	QPSK	1	99	1	0	23.82	25.00
41055	41253	QPSK	1	99	1	0	23.77	25.00
41490	41292	QPSK	1	0	1	99	23.73	25.00

CA_42C Ant5								
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		
42190	42388	QPSK	1	99	1	0	21.23	22.50
42590	42788	QPSK	1	99	1	0	21.31	22.50
42990	42792	QPSK	1	0	1	99	21.20	22.50

CA_66C Ant3								
Combination 20MHz+20MHz (1RB+99RB)								
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	22.43	24.00
132322	132520	QPSK	1	99	1	0	22.54	24.00
132572	132374	QPSK	1	0	1	99	22.47	24.00

Uplink CA Power for 41C HPUE

CA_41C Ant0								
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	21.16	23.00
40185	40383	QPSK	1	99	1	0	21.21	23.00
40620	40818	QPSK	1	99	1	0	21.3	23.00
41055	41253	QPSK	1	99	1	0	21.23	23.00
41490	41292	QPSK	1	0	1	99	21.17	23.00

CA_41C HPUE Ant0								
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	23.62	25.00
40185	40383	QPSK	1	99	1	0	23.69	25.00
40620	40818	QPSK	1	99	1	0	23.76	25.00
41055	41253	QPSK	1	99	1	0	23.71	25.00
41490	41292	QPSK	1	0	1	99	23.64	25.00

CA_41C Ant1								
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	21.62	23.00
40185	40383	QPSK	1	99	1	0	21.54	23.00
40620	40818	QPSK	1	99	1	0	21.67	23.00
41055	41253	QPSK	1	99	1	0	21.6	23.00
41490	41292	QPSK	1	0	1	99	21.63	23.00

CA_41C HPUE Ant1								
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	23.6	25.00
40185	40383	QPSK	1	99	1	0	23.66	25.00
40620	40818	QPSK	1	99	1	0	23.69	25.00
41055	41253	QPSK	1	99	1	0	23.62	25.00
41490	41292	QPSK	1	0	1	99	23.56	25.00

CA_41C Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.09	21.00
40185	40383	QPSK	1	99	1	0	20.13	21.00
40620	40818	QPSK	1	99	1	0	20.2	21.00
41055	41253	QPSK	1	99	1	0	20.1	21.00
41490	41292	QPSK	1	0	1	99	20.04	21.00

CA_41C HPUE Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.68	24.00
40185	40383	QPSK	1	99	1	0	22.75	24.00
40620	40818	QPSK	1	99	1	0	22.79	24.00
41055	41253	QPSK	1	99	1	0	22.73	24.00
41490	41292	QPSK	1	0	1	99	22.66	24.00

CA_41C Ant3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.3	23.00
40185	40383	QPSK	1	99	1	0	21.38	23.00
40620	40818	QPSK	1	99	1	0	21.46	23.00
41055	41253	QPSK	1	99	1	0	21.42	23.00
41490	41292	QPSK	1	0	1	99	21.35	23.00

CA_41C HPUE Ant3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.96	25.00
40185	40383	QPSK	1	99	1	0	23.7	25.00
40620	40818	QPSK	1	99	1	0	23.82	25.00
41055	41253	QPSK	1	99	1	0	23.77	25.00
41490	41292	QPSK	1	0	1	99	23.73	25.00

Uplink CA Power for DSI2

CA_42C Ant1 DSI2								
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		
42190	42388	QPSK	1	99	1	0	15.52	17.10
42590	42788	QPSK	1	99	1	0	15.65	17.10
42990	42792	QPSK	1	0	1	99	15.62	17.10

CA_7C Ant1 DSI2								
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	16.43	17.60
21100	21298	QPSK	1	99	1	0	16.60	17.60
21350	21152	QPSK	1	0	1	99	16.50	17.60

CA_38C Ant1 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	18.01	19.40
37901	38099	QPSK	1	99	1	0	18.14	19.40
38150	37952	QPSK	1	0	1	99	18.06	19.40

CA_41C Ant1 DSI2								
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	18.19	19.40
40185	40383	QPSK	1	99	1	0	18.26	19.40
40620	40818	QPSK	1	99	1	0	18.37	19.40
41055	41253	QPSK	1	99	1	0	18.31	19.40
41490	41292	QPSK	1	0	1	99	18.23	19.40

CA_41C HPUE Ant1 DSI2								
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	20.02	21.00
40185	40383	QPSK	1	99	1	0	19.99	21.00
40620	40818	QPSK	1	99	1	0	20.16	21.00
41055	41253	QPSK	1	99	1	0	20	21.00
41490	41292	QPSK	1	0	1	99	20.11	21.00

CA_42C Ant3 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	17.72	19.30
42590	42788	QPSK	1	99	1	0	17.80	19.30
42990	42792	QPSK	1	0	1	99	17.74	19.30

CA_7C Ant3 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	14.63	16.30
21100	21298	QPSK	1	99	1	0	14.71	16.30
21350	21152	QPSK	1	0	1	99	14.66	16.30

CA_38C Ant3 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	17.90	18.30
37901	38099	QPSK	1	99	1	0	17.12	18.30
38150	37952	QPSK	1	0	1	99	17.07	18.30

CA_41C Ant3 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.11	18.30
40185	40383	QPSK	1	99	1	0	17.18	18.30
40620	40818	QPSK	1	99	1	0	17.26	18.30
41055	41253	QPSK	1	99	1	0	17.22	18.30
41490	41292	QPSK	1	0	1	99	17.15	18.30

CA_41C HPUE Ant3 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.65	19.90
40185	40383	QPSK	1	99	1	0	18.71	19.90
40620	40818	QPSK	1	99	1	0	18.8	19.90
41055	41253	QPSK	1	99	1	0	18.75	19.90
41490	41292	QPSK	1	0	1	99	18.69	19.90

CA_42C Ant5 DSI2 DSI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	I line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	20.12	21.10
42590	42788	QPSK	1	99	1	0	20.23	21.10
42990	42792	QPSK	1	0	1	99	20.18	21.10

CA_66C Ant3 DSI2								
Combination 20MHz+20MHz (1RB+99RB)								
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	16.44	17.90
132322	132520	QPSK	1	99	1	0	16.48	17.90
132572	132374	QPSK	1	0	1	99	16.42	17.90

Uplink CA Power for DSI3

CA_38C Ant0 DSI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Uplink Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	99	1	0	20.61	22.40
37901	38099	QPSK	1	99	1	0	20.67	22.40
38150	37952	QPSK	1	0	1	99	20.56	22.40

CA_41C Ant0 DSI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Uplink Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	99	1	0	20.75	22.40
40185	40383	QPSK	1	99	1	0	20.77	22.40
40620	40818	QPSK	1	99	1	0	20.84	22.40
41055	41253	QPSK	1	99	1	0	20.81	22.40
41490	41292	QPSK	1	0	1	99	20.67	22.40

CA_41C HPUE Ant0 DSI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Uplink Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	99	1	0	21.3	22.50
40185	40383	QPSK	1	99	1	0	21.36	22.50
40620	40818	QPSK	1	99	1	0	21.41	22.50
41055	41253	QPSK	1	99	1	0	21.33	22.50
41490	41292	QPSK	1	0	1	99	21.25	22.50

CA_42C Ant1 DSI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Uplink Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
42190	42388	QPSK	1	99	1	0	18.81	20.30
42590	42788	QPSK	1	99	1	0	18.89	20.30
42990	42792	QPSK	1	0	1	99	18.77	20.30
42190	42388	QPSK	50	50	50	0	18.69	20.30
42590	42788	QPSK	50	50	50	0	18.83	20.30
42990	42792	QPSK	50	0	50	50	18.59	20.30

CA_7C Ant1 DSI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Uplink Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	20.93	21.40
21100	21298	QPSK	1	99	1	0	20.95	21.40
21350	21152	QPSK	1	0	1	99	20.86	21.40

CA_38C Ant1 DSI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Uplink Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	99	1	0	20.83	22.80
37901	38099	QPSK	1	99	1	0	20.95	22.80
38150	37952	QPSK	1	0	1	99	20.90	22.80

CA_41C Ant1 DSI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Uplink Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	99	1	0	20.96	22.60
40185	40383	QPSK	1	99	1	0	20.9	22.60
40620	40818	QPSK	1	99	1	0	21.13	22.60
41055	41253	QPSK	1	99	1	0	21.06	22.60
41490	41292	QPSK	1	0	1	99	21.02	22.60

CA_41C HPUE Ant1 DSI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Uplink Power (dBm)
RB Size	RB offset	RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	99	1	0	21.49	22.70
40185	40383	QPSK	1	99	1	0	21.53	22.70
40620	40818	QPSK	1	99	1	0	21.64	22.70
41055	41253	QPSK	1	99	1	0	21.56	22.70
41490	41292	QPSK	1	0	1	99	21.52	22.70

CA_7C Ant2 DSI3							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	20.46
21100	21298	QPSK	1	99	1	0	20.54
21350	21152	QPSK	1	0	1	99	20.43

CA_7C Ant3 DSI3							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	19.54
21100	21298	QPSK	1	99	1	0	19.66
21350	21152	QPSK	1	0	1	99	19.60

CA_38C Ant3 DSI3							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	21.30
37901	38099	QPSK	1	99	1	0	21.42
38150	37952	QPSK	1	0	1	99	21.37

CA_41C Ant3 DSI3							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	21.3
40185	40383	QPSK	1	99	1	0	21.38
40620	40818	QPSK	1	99	1	0	21.46
41055	41253	QPSK	1	99	1	0	21.42
41490	41292	QPSK	1	0	1	99	21.35
39750	39948	QPSK	50	50	50	0	21.24
40185	40383	QPSK	50	50	50	0	21.39
40620	40818	QPSK	50	50	50	0	21.48
41055	41253	QPSK	50	50	50	0	21.43
41490	41292	QPSK	50	0	50	50	21.23

CA_41C HPUE Ant3 DSI3							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	21.25
40185	40383	QPSK	1	99	1	0	21.31
40620	40818	QPSK	1	99	1	0	21.4
41055	41253	QPSK	1	99	1	0	21.34
41490	41292	QPSK	1	0	1	99	21.22

CA_42C Ant3 DSI3							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	19.92
42590	42788	QPSK	1	99	1	0	20.10
42990	42792	QPSK	1	0	1	99	20.02



CA_66C Ant3 DS13								
Combination 20MHz+20MHz (1RB+99RB)								
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	21.01	21.80
132322	132520	QPSK	1	99	1	0	21.09	21.80
132572	132374	QPSK	1	0	1	99	20.96	21.80

Uplink CA Power for DSI5

CA_38C Ant0 DSI5								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.13	21.60
37901	38099	QPSK	1	99	1	0	20.21	21.60
38150	37952	QPSK	1	0	1	99	20.18	21.60

CA_41C Ant0 DSI5								
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	20.17	21.60
40185	40383	QPSK	1	99	1	0	20.21	21.60
40620	40818	QPSK	1	99	1	0	20.29	21.60
41055	41253	QPSK	1	99	1	0	20.23	21.60
41490	41292	QPSK	1	0	1	99		21.60

CA_41C HPUE Ant0 DSI5								
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	21.07	22.20
40185	40383	QPSK	1	99	1	0	21.13	22.20
40620	40818	QPSK	1	99	1	0	21.18	22.20
41055	41253	QPSK	1	99	1	0	21.1	22.20
41490	41292	QPSK	1	0	1	99	21.02	22.20

CA_7C Ant1 DSI5								
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	21.33	22.50
21100	21298	QPSK	1	99	1	0	21.45	22.50
21350	21152	QPSK	1	0	1	99	21.40	22.50

CA_38C Ant1 DSI5								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.13	22.70
37901	38099	QPSK	1	99	1	0	21.20	22.70
38150	37952	QPSK	1	0	1	99	21.16	22.70

CA_41C Ant1 DSI5								
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	21.05	22.70
40185	40383	QPSK	1	99	1	0	21.14	22.70
40620	40818	QPSK	1	99	1	0	21.23	22.70
41055	41253	QPSK	1	99	1	0	21.16	22.70
41490	41292	QPSK	1	0	1	99	21.11	22.70

CA_41C HPUE Ant1 DSI5								
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	21.49	22.30
40185	40383	QPSK	1	99	1	0	21.53	22.30
40620	40818	QPSK	1	99	1	0	21.64	22.30
41055	41253	QPSK	1	99	1	0	21.56	22.30
41490	41292	QPSK	1	0	1	99	21.52	22.30

CA_7C Ant2 DSI5									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	20.46	21.40	
21100	21298	QPSK	1	99	1	0	20.54	21.40	
21350	21152	QPSK	1	0	1	99	20.43	21.40	

CA_38C Ant2 DSI5									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	99	1	0	20.20	21.60	
37901	38099	QPSK	1	99	1	0	20.33	21.60	
38150	37952	QPSK	1	0	1	99	20.26	21.60	

CA_41C Ant2 DSI5									
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	20.09	21.60	
40185	40383	QPSK	1	99	1	0	20.13	21.60	
40620	40818	QPSK	1	99	1	0	20.2	21.60	
41055	41253	QPSK	1	99	1	0	20.1	21.60	
41490	41292	QPSK	1	0	1	99	20.04	21.60	

CA_41C HPUE Ant2 DSI5									
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	20.2	21.50	
40185	40383	QPSK	1	99	1	0	20.26	21.50	
40620	40818	QPSK	1	99	1	0	20.35	21.50	
41055	41253	QPSK	1	99	1	0	20.3	21.50	
41490	41292	QPSK	1	0	1	99	20.22	21.50	

CA_42C Ant3 DSI5									
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			
42190	42388	QPSK	1	99	1	0	19.92	21.00	
42590	42788	QPSK	1	99	1	0	20.10	21.00	
42990	42792	QPSK	1	0	1	99	20.02	21.00	

CA_7C Ant3 DSI5									
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	21.13	22.20	
21100	21298	QPSK	1	99	1	0	21.18	22.20	
21350	21152	QPSK	1	0	1	99	21.10	22.20	

CA_38C Ant3 DSI5									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	99	1	0	21.30	22.50	
37901	38099	QPSK	1	99	1	0	21.42	22.50	
38150	37952	QPSK	1	0	1	99	21.37	22.50	

CA_41C Ant3 DSI5									
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	21.3	22.50	
40185	40383	QPSK	1	99	1	0	21.38	22.50	
40620	40818	QPSK	1	99	1	0	21.46	22.50	
41055	41253	QPSK	1	99	1	0	21.42	22.50	
41490	41292	QPSK	1	0	1	99	21.35	22.50	

CA_41C HPUE Ant3 DSI5									
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	21.25	22.70	
40185	40383	QPSK	1	99	1	0	21.31	22.70	
40620	40818	QPSK	1	99	1	0	21.4	22.70	
41055	41253	QPSK	1	99	1	0	21.34	22.70	
41490	41292	QPSK	1	0	1	99	21.22	22.70	

CA_66C Ant2 DSI5							
Combination 20MHz+20MHz (1RB+99RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	20.49
132322	132520	QPSK	1	99	1	0	20.58
132572	132374	QPSK	1	0	1	99	20.51

CA_66C Ant3 DSI5							
Combination 20MHz+20MHz (1RB+99RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	21.26
132322	132520	QPSK	1	99	1	0	21.35
132572	132374	QPSK	1	0	1	99	21.31

Uplink CA Power for DSI6

CA_38C Ant0 DSI6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.06	22.50
37901	38099	QPSK	1	99	1	0	21.18	22.50
38150	37952	QPSK	1	0	1	99	21.10	22.50

CA_41C Ant0 DSI6								
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	21.16	22.50
40185	40383	QPSK	1	99	1	0	21.21	22.50
40620	40818	QPSK	1	99	1	0	21.3	22.50
41055	41253	QPSK	1	99	1	0	21.23	22.50
41490	41292	QPSK	1	0	1	99	21.17	22.50

CA_41C HPUE Ant0 DSI6								
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	21.3	22.50
40185	40383	QPSK	1	99	1	0	21.36	22.50
40620	40818	QPSK	1	99	1	0	21.41	22.50
41055	41253	QPSK	1	99	1	0	21.33	22.50
41490	41292	QPSK	1	0	1	99	21.25	22.50

CA_7C Ant1 DSI6								
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	21.33	22.70
21100	21298	QPSK	1	99	1	0	21.45	22.70
21350	21152	QPSK	1	0	1	99	21.40	22.70

CA_38C Ant1 DSI6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.35	22.80
37901	38099	QPSK	1	99	1	0	21.44	22.80
38150	37952	QPSK	1	0	1	99	21.33	22.80

CA_41C Ant1 DSI6								
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	21.62	23.60
40185	40383	QPSK	1	99	1	0	21.54	23.60
40620	40818	QPSK	1	99	1	0	21.67	23.60
41055	41253	QPSK	1	99	1	0	21.6	23.60
41490	41292	QPSK	1	0	1	99	21.63	23.60

CA_41C HPUE Ant1 DSI6								
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	21.49	22.50
40185	40383	QPSK	1	99	1	0	21.53	22.50
40620	40818	QPSK	1	99	1	0	21.64	22.50
41055	41253	QPSK	1	99	1	0	21.56	22.50
41490	41292	QPSK	1	0	1	99	21.52	22.50

CA_42C Ant3 DSI6								
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		
42190	42388	QPSK	1	99	1	0	21.26	22.80
42590	42788	QPSK	1	99	1	0	21.33	22.80
42990	42792	QPSK	1	0	1	99	21.30	22.80

CA_7C Ant3 DSI6								
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	19.02	20.70
21100	21298	QPSK	1	99	1	0	19.09	20.70
21350	21152	QPSK	1	0	1	99	18.93	20.70

CA_38C Ant3 DSI6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.30	22.60
37901	38099	QPSK	1	99	1	0	21.42	22.60
38150	37852	QPSK	1	0	1	99	21.37	22.60

CA_41C Ant3 DSI6								
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	21.3	22.60
40185	40383	QPSK	1	99	1	0	21.38	22.60
40620	40818	QPSK	1	99	1	0	21.46	22.60
41055	41253	QPSK	1	99	1	0	21.42	22.60
41490	41292	QPSK	1	0	1	99	21.35	22.60

CA_41C HPUE Ant3 DSI6								
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	21.25	22.20
40185	40383	QPSK	1	99	1	0	21.31	22.20
40620	40818	QPSK	1	99	1	0	21.4	22.20
41055	41253	QPSK	1	99	1	0	21.34	22.20
41490	41292	QPSK	1	0	1	99	21.22	22.20

CA_42C Ant5 DSI6								
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		
42190	42388	QPSK	1	99	1	0	21.23	22.50
42590	42788	QPSK	1	99	1	0	21.31	22.50
42990	42792	QPSK	1	0	1	99	21.20	22.50
42190	42388	QPSK	50	50	50	0	21.24	22.50
42590	42788	QPSK	50	50	50	0	21.33	22.50
42990	42792	QPSK	50	0	50	50	21.13	22.50

CA_66C Ant3 DSI6								
Combination 20MHz+20MHz (1RB+99RB)								
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	21.26	22.10
132322	132520	QPSK	1	99	1	0	21.35	22.10
132572	132374	QPSK	1	0	1	99	21.31	22.10

Uplink CA Power for DSI9

CA_38C Ant0 DSI9								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	18.55	20.30
37901	38099	QPSK	1	99	1	0	18.64	20.30
38150	37952	QPSK	1	0	1	99	18.61	20.30

CA_41C Ant0 DSI9								
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	18.66	20.30
40185	40383	QPSK	1	99	1	0	18.71	20.30
40620	40818	QPSK	1	99	1	0	18.76	20.30
41055	41253	QPSK	1	99	1	0	18.64	20.30
41490	41292	QPSK	1	0	1	99	18.69	20.30

CA_41C HPUE Ant0 DSI9								
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	20.43	21.90
40185	40383	QPSK	1	99	1	0	20.48	21.90
40620	40818	QPSK	1	99	1	0	20.5	21.90
41055	41253	QPSK	1	99	1	0	20.4	21.90
41490	41292	QPSK	1	0	1	99	20.37	21.90

CA_42C Ant1 DSI9								
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		
42190	42388	QPSK	1	99	1	0	14.83	16.00
42590	42788	QPSK	1	99	1	0	14.95	16.00
42990	42792	QPSK	1	0	1	99	14.91	16.00
42190	42388	QPSK	50	50	50	0	14.68	16.00
42590	42788	QPSK	50	50	50	0	14.86	16.00
42990	42792	QPSK	50	0	50	50	14.81	16.00

CA_7C Ant1 DSI9								
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	13.63	14.70
21100	21298	QPSK	1	99	1	0	13.75	14.70
21350	21152	QPSK	1	0	1	99	16.67	14.70

CA_38C Ant1 DSI9								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	16.21	17.00
37901	38099	QPSK	1	99	1	0	16.30	17.00
38150	37952	QPSK	1	0	1	99	16.24	17.00

CA_41C Ant1 DSI9								
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	16.22	17.00
40185	40383	QPSK	1	99	1	0	16.3	17.00
40620	40818	QPSK	1	99	1	0	16.37	17.00
41055	41253	QPSK	1	99	1	0	16.31	17.00
41490	41292	QPSK	1	0	1	99	16.25	17.00

CA_41C HPUE Ant1 DSI9								
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	18.15	18.60
40185	40383	QPSK	1	99	1	0	19.19	18.60
40620	40818	QPSK	1	99	1	0	18.33	18.60
41055	41253	QPSK	1	99	1	0	18.24	18.60
41490	41292	QPSK	1	0	1	99	18.2	18.60

CA_7C Ant2 DSI9								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.46	21.20
21100	21298	QPSK	1	99	1	0	20.54	21.20
21350	21152	QPSK	1	0	1	99	20.43	21.20

CA_7C Ant3 DSI9								
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	17.83	19.40
21100	21298	QPSK	1	99	1	0	17.95	19.40
21350	21152	QPSK	1	0	1	99	17.88	19.40

CA_38C Ant3 DSI9								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.30	21.10
37901	38099	QPSK	1	99	1	0	19.32	21.10
38150	37952	QPSK	1	0	1	99	19.27	21.10

CA_41C Ant3 DSI9								
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	19.23	21.10
40185	40383	QPSK	1	99	1	0	19.29	21.10
40620	40818	QPSK	1	99	1	0	19.41	21.10
41055	41253	QPSK	1	99	1	0	19.36	21.10
41490	41292	QPSK	1	0	1	99	19.3	21.10
39750	39948	QPSK	50	50	50	0	19.03	21.10
40185	40383	QPSK	50	50	50	0	19.2	21.10
40620	40818	QPSK	50	50	50	0	19.21	21.10
41055	41253	QPSK	50	50	50	0	19.3	21.10
41490	41292	QPSK	50	0	50	50	19.11	21.10

CA_41C HPUE Ant3 DSI9								
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	21.06	22.70
40185	40383	QPSK	1	99	1	0	21.11	22.70
40620	40818	QPSK	1	99	1	0	21.14	22.70
41055	41253	QPSK	1	99	1	0	21.03	22.70
41490	41292	QPSK	1	0	1	99	21.1	22.70

CA_42C Ant5 DSI9								
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		
42190	42388	QPSK	1	99	1	0	14.87	15.70
42590	42788	QPSK	1	99	1	0	14.96	15.70
42990	42792	QPSK	1	0	1	99	14.93	15.70
42190	42388	QPSK	50	50	50	0	14.84	15.70
42590	42788	QPSK	50	50	50	0	14.97	15.70
42990	42792	QPSK	50	0	50	50	14.85	15.70

CA_42C Ant3 DSI9								
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		
42190	42388	QPSK	1	99	1	0	15.16	16.70
42590	42788	QPSK	1	99	1	0	15.20	16.70
42990	42792	QPSK	1	0	1	99	15.08	16.70
42190	42388	QPSK	50	50	50	0	15.06	16.70
42590	42788	QPSK	50	50	50	0	15.12	16.70
42990	42792	QPSK	50	0	50	50	15.02	16.70

CA_66C Ant2 DSI9								
Combination 20MHz+20MHz (1RB+99RB)								
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	19.97	21.00
132322	132520	QPSK	1	99	1	0	20.08	21.00
132572	132374	QPSK	1	0	1	99	20.03	21.00

CA_66C Ant3 DSI9								
Combination 20MHz+20MHz (1RB+99RB)								
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	17.00
132322	132520	QPSK	1	99	1	0	16.02	17.00
132572	132374	QPSK	1	0	1	99	16.00	17.00

Uplink CA Power for DSI10

CA_38C Ant0 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 tone up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	15.10	16.40
37901	38099	QPSK	1	99	1	0	15.18	16.40
38150	37952	QPSK	1	0	1	99	15.06	16.40

CA_41C Ant0 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 tone up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.09	16.40
40185	40383	QPSK	1	99	1	0	15.11	16.40
40620	40818	QPSK	1	99	1	0	15.2	16.40
41055	41253	QPSK	1	99	1	0	15.12	16.40
41490	41292	QPSK	1	0	1	99	15.05	16.40

CA_41C HPUE Ant0 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 tone up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	16.76	18.00
40185	40383	QPSK	1	99	1	0	16.84	18.00
40620	40818	QPSK	1	99	1	0	16.88	18.00
41055	41253	QPSK	1	99	1	0	16.81	18.00
41490	41292	QPSK	1	0	1	99	16.7	18.00

CA_42C Ant1 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 tone up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	14.50	16.20
42590	42788	QPSK	1	99	1	0	14.62	16.20
42990	42792	QPSK	1	0	1	99	14.55	16.20
42190	42388	QPSK	50	50	50	0	14.47	16.20
42590	42788	QPSK	50	50	50	0	14.61	16.20
42990	42792	QPSK	50	0	50	50	14.41	16.20

CA_7C Ant1 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 tone up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	14.30	15.80
21100	21298	QPSK	1	99	1	0	14.41	15.80
21350	21152	QPSK	1	0	1	99	14.33	15.80

CA_38C Ant1 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 tone up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	15.72	17.10
37901	38099	QPSK	1	99	1	0	15.79	17.10
38150	37952	QPSK	1	0	1	99	15.76	17.10

CA_41C Ant1 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 tone up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.62	17.10
40185	40383	QPSK	1	99	1	0	15.7	17.10
40620	40818	QPSK	1	99	1	0	15.81	17.10
41055	41253	QPSK	1	99	1	0	15.76	17.10
41490	41292	QPSK	1	0	1	99	15.73	17.10

CA_41C HPUE Ant1 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	1 tone up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.39	18.70
40185	40383	QPSK	1	99	1	0	17.43	18.70
40620	40818	QPSK	1	99	1	0	17.55	18.70
41055	41253	QPSK	1	99	1	0	17.51	18.70
41490	41292	QPSK	1	0	1	99	17.46	18.70

CA_7C Ant2 DSI10								
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	17.95	19.20
21100	21298	QPSK	1	99	1	0	18.06	19.20
21350	21152	QPSK	1	0	1	99	18.01	19.20

CA_38C Ant2 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	18.32	19.80
37901	38099	QPSK	1	99	1	0	18.43	19.80
38150	37952	QPSK	1	0	1	99	18.36	19.80

CA_41C Ant2 DSI10								
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	18.35	19.80
40185	40383	QPSK	1	99	1	0	18.43	19.80
40620	40818	QPSK	1	99	1	0	18.52	19.80
41055	41253	QPSK	1	99	1	0	18.46	19.80
41490	41292	QPSK	1	0	1	99	18.37	19.80

CA_41C HPUE Ant2 DSI10								
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	20.02	21.40
40185	40383	QPSK	1	99	1	0	19.96	21.40
40620	40818	QPSK	1	99	1	0	20.13	21.40
41055	41253	QPSK	1	99	1	0	20.05	21.40
41490	41292	QPSK	1	0	1	99	19.92	21.40

CA_42C Ant3 DSI10								
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		
42190	42388	QPSK	1	99	1	0	14.04	15.40
42590	42788	QPSK	1	99	1	0	14.12	15.40
42990	42792	QPSK	1	0	1	99	14.10	15.40

CA_7C Ant3								
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	17.83	19.20
21100	21298	QPSK	1	99	1	0	17.95	19.20
21350	21152	QPSK	1	0	1	99	17.88	19.20

CA_38C Ant3 DSI10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	18.58	19.80
37901	38099	QPSK	1	99	1	0	18.70	19.80
38150	37952	QPSK	1	0	1	99	18.64	19.80

CA_41C Ant3 DSI10								
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	18.66	19.80
40185	40383	QPSK	1	99	1	0	18.71	19.80
40620	40818	QPSK	1	99	1	0	18.83	19.80
41055	41253	QPSK	1	99	1	0	18.79	19.80
41490	41292	QPSK	1	0	1	99	18.74	19.80
39750	39948	QPSK	50	50	50	0	18.6	19.80
40185	40383	QPSK	50	50	50	0	18.65	19.80
40620	40818	QPSK	50	50	50	0	18.63	19.80
41055	41253	QPSK	50	50	50	0	18.69	19.80
41490	41292	QPSK	50	0	50	50	18.58	19.80

CA_41C HPUE Ant3 DSI10								
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	20.38	21.40
40185	40383	QPSK	1	99	1	0	20.43	21.40
40620	40818	QPSK	1	99	1	0	20.54	21.40
41055	41253	QPSK	1	99	1	0	20.49	21.40
41490	41292	QPSK	1	0	1	99	20.52	21.40

CA_42C Ant5 DSI10								
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		
42190	42388	QPSK	1	99	1	0	17.07	18.10
42590	42788	QPSK	1	99	1	0	17.18	18.10
42990	42792	QPSK	1	0	1	99	17.13	18.10
42190	42388	QPSK	50	50	50	0	17.00	18.10
42590	42788	QPSK	50	50	50	0	16.97	18.10
42990	42792	QPSK	50	0	50	50	17.10	18.10

CA_66C Ant2 DSI10								
Combination 20MHz+20MHz (1RB+99RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	17.40	18.60
132322	132520	QPSK	1	99	1	0	17.51	18.60
132572	132374	QPSK	1	0	1	99	17.45	18.60

CA_66C Ant3 DSI10								
Combination 20MHz+20MHz (1RB+99RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		measured Power (dBm)	1 line up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	17.13	18.20
132322	132520	QPSK	1	99	1	0	17.24	18.20
132572	132374	QPSK	1	0	1	99	17.20	18.20



Full&Default Power Mode for Main PA

n2 Main PA 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				1660	1660	1660	23.0	0.0
Frequency (MHz)				1660	1660	1660		
20	PI2 BPSK	1	1	21.86	21.94	21.79	23.0	0.0
20	PI2 BPSK	1	53	21.92	21.98	21.87		
20	PI2 BPSK	1	104	21.72	21.91	21.89		
20	PI2 BPSK	50	0	21.77	21.84	21.72	23.0	0.0
20	PI2 BPSK	50	28	21.80	21.91	21.92	23.0	0.0
20	PI2 BPSK	50	56	21.77	21.94	21.71	23.0	0.0
20	PI2 BPSK	100	0	21.84	21.86	21.78	23.0	0.0
20	QPSK	1	1	21.92	22.06	21.84	23.0	0.0
20	QPSK	1	53	21.83	21.92	21.84		
20	QPSK	1	104	21.93	21.94	21.78		
20	QPSK	50	0	21.73	21.74	21.79	23.0	0.0
20	QPSK	50	28	21.77	21.88	21.74	23.0	0.0
20	QPSK	50	56	21.81	21.83	21.81	23.0	0.0
20	QPSK	100	0	22.02	22.04	21.68	23.0	0.0
20	16QAM	1	1	21.72	21.76	21.89	23.0	0.0
20	64QAM	1	1	20.97	21.16	21.08	22.0	1.0
20	256QAM	1	1	18.56	18.67	18.60	20.0	3.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1627.5	1660	1692.5	23.0	0.0
15	QPSK	1	1	21.91	21.87	21.69	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1880	1905	23.0	0.0
10	QPSK	1	1	21.79	21.94	21.78	23.0	0.0
Channel				379500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5	23.0	0.0
5	QPSK	1	1	21.91	21.99	21.64	23.0	0.0

n5 Main PA 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				166000	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.73	22.92	22.87	24.0	0.0
20	PI2 BPSK	1	53	22.76	22.86	22.73		
20	PI2 BPSK	1	104	22.70	22.78	22.74		
20	PI2 BPSK	50	0	22.70	22.87	22.74	24.0	0.0
20	PI2 BPSK	50	28	22.86	22.95	22.81	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.90	22.88	24.0	0.0
20	PI2 BPSK	100	0	22.87	22.94	22.78	24.0	0.0
20	QPSK	1	1	23.31	23.34	23.12	24.0	0.0
20	QPSK	1	53	22.62	22.82	22.73		
20	QPSK	1	104	22.77	22.80	22.62		
20	QPSK	50	0	22.74	22.93	22.82	24.0	0.0
20	QPSK	50	28	23.21	23.23	23.22	24.0	0.0
20	QPSK	50	56	22.68	22.88	22.86	24.0	0.0
20	QPSK	100	0	23.21	23.29	23.22	24.0	0.0
20	16QAM	1	1	22.83	22.98	22.89	24.0	0.0
20	64QAM	1	1	22.13	22.14	21.93	23.0	1.0
20	256QAM	1	1	19.31	19.43	19.28	21.0	3.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0
15	QPSK	1	1	23.16	23.19	23.00	24.0 <td>0.0</td>	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	23.11	23.25	22.94	24.0 <td>0.0</td>	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0
5	QPSK	1	1	23.24	23.29	23.12	24.0 <td>0.0</td>	0.0

n7 Main PA 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				504000	507000	510000	24.0	0.0
Frequency (MHz)				2500	2535	2550		
40	PI2 BPSK	1	1	22.18	22.24	22.18	24.0	0.0
40	PI2 BPSK	1	108	22.50	22.51	22.47		
40	PI2 BPSK	1	214	22.46	22.48	22.35		
40	PI2 BPSK	108	0	22.18	22.25	22.14	24.0	0.0
40	PI2 BPSK	108	54	22.25	22.36	22.24	24.0	0.0
40	PI2 BPSK	108	108	22.36	22.48	22.42	24.0	0.0
40	PI2 BPSK	216	0	22.15	22.35	22.22	24.0	0.0
40	QPSK	1	1	22.51	22.58	22.57	24.0	0.0
40	QPSK	1	108	22.22	22.35	22.28		
40	QPSK	1	214	22.37	22.46	22.33		
40	QPSK	108	0	22.20	22.26	22.07	24.0	0.0
40	QPSK	108	54	22.47	22.51	22.42	24.0	0.0
40	QPSK	108	108	22.45	22.50	22.49	24.0	0.0
40	QPSK	216	0	22.44	22.57	22.43	24.0	0.0
40	16QAM	1	1	22.42	22.47	22.36	24.0	0.0
40	64QAM	1	1	21.19	21.41	21.27	23.0	1.0
40	256QAM	1	1	19.29	19.34	19.26	21.0	3.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2315	2335	2355	24.0	0.0
30	QPSK	1	1	22.37	22.51	22.40	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0
25	QPSK	1	1	22.32	22.49	22.44	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	24.0	0.0
20	PI2 BPSK	1	1	22.40	22.40	22.50	24.0	0.0
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	22.42	22.49	22.41	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	1	22.41	22.47	22.42	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	22.31	22.48	22.39	24.0	0.0

n26 Main PA 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				164800	166300	167800	24.0	0.0
Frequency (MHz)				164	161.5	163		
20	PI2 BPSK	1	1	23.07	23.08	22.97		
20	PI2 BPSK	1	53	22.98	23.07	22.91	24.0	0.0
20	PI2 BPSK	1	104	22.93	22.94	22.89		
20	PI2 BPSK	50	0	23.02	23.11	23.09		
20	PI2 BPSK	50	28	23.07	23.08	22.97	24.0	0.0
20	PI2 BPSK	50	56	22.76	22.98	22.91		
20	PI2 BPSK	100	0	23.08	23.08	23.08		
20	QPSK	1	1	23.15	23.17	23.13	24.0	0.0
20	QPSK	1	53	22.98	23.07	22.99		
20	QPSK	1	104	22.91	22.94	22.94		
20	QPSK	50	0	22.93	23.11	22.98	24.0	0.0
20	QPSK	50	28	23.12	23.15	22.91		
20	QPSK	50	56	22.84	22.98	22.77		
20	QPSK	100	0	23.05	23.10	22.94	24.0	0.0
20	16QAM	1	1	22.72	22.76	22.62		
20	64QAM	1	1	22.53	22.62	22.53		
20	256QAM	1	1	19.66	19.72	19.52	21.0	3.0
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				161.5	161.5	161.5		
15	QPSK	1	1	22.99	23.08	23.14		
Channel				163300	166300	169800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				161.5	161.5	164		
10	QPSK	1	1	23.12	23.16	23.05		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				161.5	161.5	164.5		
5	QPSK	1	1	23.02	23.05	22.93		

n66 Main PA 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				345000	349000	352000	23.0	0.0
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	21.68	21.68	21.59		
40	PI2 BPSK	1	108	21.51	21.50	21.40	23.0	0.0
40	PI2 BPSK	1	214	21.43	21.57	21.38		
40	PI2 BPSK	108	0	21.42	21.57	21.39		
40	PI2 BPSK	108	54	21.50	21.51	21.40	23.0	0.0
40	PI2 BPSK	108	108	21.42	21.58	21.38		
40	PI2 BPSK	216	0	21.28	21.48	21.38		
40	QPSK	1	1	21.89	21.73	21.67	23.0	0.0
40	QPSK	1	108	21.38	21.48	21.29		
40	QPSK	1	214	21.52	21.62	21.61		
40	QPSK	108	0	21.42	21.58	21.40	23.0	0.0
40	QPSK	108	54	21.67	21.72	21.61		
40	QPSK	108	108	21.52	21.63	21.62		
40	QPSK	216	0	21.63	21.66	21.62	23.0	0.0
40	16QAM	1	1	21.44	21.52	21.31		
40	64QAM	1	1	20.74	20.74	20.59		
40	256QAM	1	1	18.47	18.52	18.38	20.0	3.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.60	21.54	21.53		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.64	21.72	21.47		
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.58	21.55	21.55		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.69	21.69	21.67		
Channel				342000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.61	21.60	21.49		

n38 Main PA 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				518004	519000	519996	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	22.41	22.45	22.27	24.0	0.0	
40	PI2 BPSK	1	53	22.15	22.32	22.30			
40	PI2 BPSK	1	104	22.16	22.29	22.26			
40	PI2 BPSK	50	0	21.81	21.97	21.88			
40	PI2 BPSK	50	28	22.11	22.25	22.18	23.5	0.5	
40	PI2 BPSK	50	56	21.64	21.85	21.72			
40	PI2 BPSK	100	0	22.01	22.03	21.84			
40	QPSK	1	1	22.81	22.84	22.79			
40	QPSK	1	53	22.08	22.27	22.23	24.0	0.0	
40	QPSK	1	104	22.32	22.32	22.27			
40	QPSK	50	0	21.80	21.98	21.81			
40	QPSK	50	28	22.56	22.63	22.57			
40	QPSK	50	56	21.76	21.88	21.79	23.0	1.0	
40	QPSK	100	0	21.51	21.55	21.53			
40	16QAM	1	1	21.84	21.98	21.97			
40	64QAM	1	1	20.12	20.28	20.19			
40	256QAM	1	1	17.70	17.79	17.58	19.5	4.5	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.67	22.71	22.61	24.0	0.0	
Channel				516000	519000	520000	24.0	0.0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.60	22.69	22.65	24.0	0.0	
Channel				515502	519000	520498	24.0	0.0	
Frequency (MHz)				2677.51	2695	2612.49			
15	QPSK	1	1	22.77	22.72	22.60	24.0	0.0	
Channel				515004	519000	520998	24.0	0.0	
Frequency (MHz)				2678.12	2695	2614.88			
10	QPSK	1	1	22.82	22.73	22.68	24.0	0.0	

n41 Main PA 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				506202	518598	520000	24.0	0.0			
Frequency (MHz)				2546.01	2592.99	2640					
100	PI/2 BPSK	1	1	22.73	22.80	22.70					
100	PI/2 BPSK	1	137	22.47	22.46	22.44					
100	PI/2 BPSK	1	271	22.16	22.27	22.26	24.0	0.0			
100	PI/2 BPSK	135	0	22.58	22.66	22.61					
100	PI/2 BPSK	135	69	22.26	22.48	22.26					
100	PI/2 BPSK	135	138	22.01	22.20	22.18					
100	PI/2 BPSK	270	0	22.29	22.40	22.41	24.0	0.0			
100	QPSK	1	1	22.78	22.86	22.71					
100	QPSK	1	137	22.33	22.47	22.30					
100	QPSK	1	271	22.24	22.29	22.21					
100	QPSK	135	0	22.51	22.56	22.42	24.0	0.0			
100	QPSK	135	69	22.53	22.68	22.58					
100	QPSK	135	138	22.12	22.28	22.08					
100	QPSK	270	0	22.52	22.64	22.33					
100	16QAM	1	1	22.66	22.72	22.68	24.0	0.0			
100	64QAM	1	1	22.25	22.27	22.11					
100	256QAM	1	1	19.64	19.68	19.47					
Channel				506200	518598	520998	Tune-up limit (dBm)				
Frequency (MHz)				2541	2592.99	2644.98	MPR (dB)				
90	QPSK	1	1	22.70	22.83	22.55	24.0	0.0			
Channel				507204	518598	520998	Tune-up limit (dBm)				
Frequency (MHz)				2536.02	2592.99	2640.99	MPR (dB)				
80	QPSK	1	1	22.62	22.79	22.72	24.0	0.0			
Channel				506202	518598	521000	Tune-up limit (dBm)				
Frequency (MHz)				2631.01	2692.99	2665	MPR (dB)				
70	QPSK	1	1	22.71	22.70	22.55	24.0	0.0			
Channel				505200	518598	521998	Tune-up limit (dBm)				
Frequency (MHz)				2626	2692.99	2669.98	MPR (dB)				
60	QPSK	1	1	22.75	22.70	22.62	24.0	0.0			
Channel				504204	518598	522998	Tune-up limit (dBm)				
Frequency (MHz)				2521.02	2592.99	2664.99	MPR (dB)				
50	QPSK	1	1	22.75	22.68	22.70	24.0	0.0			
Channel				503202	518598	523000	Tune-up limit (dBm)				
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)				
40	QPSK	1	1	22.67	22.67	22.69	24.0	0.0			
Channel				502200	518598	524998	Tune-up limit (dBm)				
Frequency (MHz)				2511	2592.99	2674.99	MPR (dB)				
30	QPSK	1	1	22.76	22.79	22.57	24.0	0.0			
Channel				501204	518598	525998	Tune-up limit (dBm)				
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)				
20	QPSK	1	1	22.62	22.80	22.51	24.0	0.0			

n2 Main PA Ant1

BW (MHz)	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	23.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	21.46	21.66	21.48		
20	PI2 BPSK	1	53	21.61	21.63	21.55		
20	PI2 BPSK	1	104	21.59	21.59	21.47	23.0	0.0
20	PI2 BPSK	50	0	21.65	21.66	21.51	23.0	0.0
20	PI2 BPSK	50	28	21.51	21.61	21.48	23.0	0.0
20	PI2 BPSK	50	56	21.40	21.53	21.47	23.0	0.0
20	PI2 BPSK	100	0	21.42	21.56	21.49	23.0	0.0
20	QPSK	1	1	21.85	21.71	21.61	23.0	0.0
20	QPSK	1	53	21.58	21.59	21.58		
20	QPSK	1	104	21.53	21.54	21.39		
20	QPSK	50	0	21.53	21.62	21.53		
20	QPSK	50	28	21.61	21.70	21.66	23.0	0.0
20	QPSK	50	56	21.49	21.54	21.41	23.0	0.0
20	QPSK	100	0	21.54	21.56	21.53	23.0	0.0
20	16QAM	1	1	21.45	21.65	21.63	23.0	0.0
20	64QAM	1	1	20.29	20.34	20.26	22.0	1.0
20	256QAM	1	1	18.48	18.53	18.43	20.0	3.0
Channel				371000	376000	376500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1902.5		
15	QPSK	1	1	21.56	21.58	21.45	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1900	1905		
10	QPSK	1	1	21.44	21.59	21.63	23.0	0.0
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	QPSK	1	1	21.48	21.60	21.55	23.0	0.0

n5 Main PA Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166600	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.45	22.55	22.37		
20	PI2 BPSK	1	53	22.39	22.46	22.31		
20	PI2 BPSK	1	104	22.27	22.36	22.39	24.0	0.0
20	PI2 BPSK	50	0	22.53	22.59	22.59	24.0	0.0
20	PI2 BPSK	50	28	22.44	22.51	22.37	24.0	0.0
20	PI2 BPSK	50	56	22.35	22.48	22.43	24.0	0.0
20	PI2 BPSK	100	0	22.44	22.51	22.41	24.0	0.0
20	QPSK	1	1	22.61	22.76	22.58	24.0	0.0
20	QPSK	1	53	22.29	22.51	22.38		
20	QPSK	1	104	22.27	22.46	22.46		
20	QPSK	50	0	22.49	22.58	22.55		
20	QPSK	50	28	22.55	22.59	22.56	24.0	0.0
20	QPSK	50	56	22.37	22.59	22.51	24.0	0.0
20	QPSK	100	0	22.54	22.58	22.50	24.0	0.0
20	16QAM	1	1	22.60	22.68	22.66	24.0	0.0
20	64QAM	1	1	21.12	21.12	21.04	23.0	1.0
20	256QAM	1	1	19.32	19.36	19.22	21.0	3.0
Channel				165300	167200	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.42	22.64	22.40	24.0	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	826.5	844		
10	QPSK	1	1	22.60	22.65	22.40	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	22.42	22.61	22.45	24.0	0.0



n7 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500000	507000	510000	24.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	22.81	23.01	22.96	24.0	0.0	
40	P12 BPSK	1	108	22.94	23.00	22.81			
40	P12 BPSK	1	214	22.87	22.91	22.70	24.0	0.0	
40	P12 BPSK	108	0	22.88	23.01	22.94			
40	P12 BPSK	108	54	22.83	22.82	22.71	24.0	0.0	
40	P12 BPSK	108	108	22.79	22.93	22.92			
40	P12 BPSK	216	0	22.95	23.03	23.01	24.0	0.0	
40	QPSK	1	1	23.10	23.17	23.16			
40	QPSK	1	108	22.95	23.11	22.99	24.0	0.0	
40	QPSK	1	214	22.98	23.08	23.01			
40	QPSK	108	0	22.91	23.05	22.89	24.0	0.0	
40	QPSK	108	54	23.03	23.10	23.06			
40	QPSK	108	108	22.97	22.82	22.83	24.0	0.0	
40	QPSK	216	0	22.98	23.04	22.94			
40	16QAM	1	1	22.92	23.10	22.90	24.0	0.0	
40	256QAM	1	1	21.89	22.00	21.80		23.0	
40	256QAM	1	1	19.93	20.03	19.87	21.0	3.0	
Channel				500000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.06	23.16	22.95	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2312.5	2335	2357.5			
25	QPSK	1	1	22.89	23.05	23.05	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	P12 BPSK	1	1	23.08	23.12	23.03	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	22.89	23.15	23.16	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.08	23.10	22.99	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	23.10	23.16	23.04	24.0	0.0	

n26 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	165300	167900	24.0	0.0	
Frequency (MHz)				824	831.5	839			
20	P12 BPSK	1	1	22.94	22.97	22.82	24.0	0.0	
20	P12 BPSK	1	53	22.87	22.93	22.86			
20	P12 BPSK	1	104	22.83	22.92	22.85	24.0	0.0	
20	P12 BPSK	50	0	22.91	23.05	22.99			
20	P12 BPSK	50	28	23.00	23.02	22.83	24.0	0.0	
20	P12 BPSK	50	56	22.91	22.91	22.76			
20	P12 BPSK	100	0	22.96	23.04	22.94	24.0	0.0	
20	QPSK	1	1	22.91	23.17	22.97			
20	QPSK	1	53	22.76	22.88	22.76	24.0	0.0	
20	QPSK	1	104	22.74	22.76	22.55			
20	QPSK	50	0	22.96	23.14	23.03	24.0	0.0	
20	QPSK	50	28	23.10	23.15	22.93		24.0	
20	QPSK	50	56	22.72	22.89	22.69	24.0	0.0	
20	QPSK	100	0	22.88	23.05	22.87			
20	16QAM	1	1	22.93	23.06	22.91	24.0	0.0	
20	64QAM	1	1	21.19	21.22	21.03		23.0	
20	256QAM	1	1	19.87	19.88	19.86	21.0	3.0	
Channel				164300	165300	167500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.77	22.97	22.91	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				810	811.5	844			
10	QPSK	1	1	22.75	23.11	22.99	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.82	22.98	22.83	24.0	0.0	

n66 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	353000	23.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	21.25	21.37	21.28	23.0	0.0	
40	P12 BPSK	1	108	21.27	21.28	21.15			
40	P12 BPSK	1	214	21.23	21.23	21.14	23.0	0.0	
40	P12 BPSK	108	0	21.21	21.34	21.17			
40	P12 BPSK	108	54	21.33	21.33	21.28	23.0	0.0	
40	P12 BPSK	108	108	21.32	21.32	21.32			
40	P12 BPSK	216	0	21.23	21.33	21.32	23.0	0.0	
40	QPSK	1	1	21.36	21.41	21.37			
40	QPSK	1	108	21.17	21.19	21.20	23.0	0.0	
40	QPSK	1	214	21.14	21.34	21.27			
40	QPSK	108	0	21.15	21.27	21.10	23.0	0.0	
40	QPSK	108	54	21.27	21.33	21.20		23.0	
40	QPSK	108	108	21.25	21.24	21.07	23.0	0.0	
40	QPSK	216	0	21.20	21.31	21.18			
40	16QAM	1	1	21.21	21.28	21.23	23.0	0.0	
40	64QAM	1	1	20.07	20.12	20.05		22.0	
40	256QAM	1	1	18.35	18.35	18.26	20.0	3.0	
Channel				352000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.33	21.29	21.36	23.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.24	21.24	21.31	23.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.31	21.36	21.31	23.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.40	21.23	21.26	23.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.36	21.24	21.18	23.0	0.0	

n38 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	22.69	22.83	22.67	24.0	0.0	
40	PI/2 BPSK	1	53	22.81	22.80	22.77			
40	PI/2 BPSK	1	104	22.76	22.94	22.81	23.5	0.5	
40	PI/2 BPSK	50	0	22.42	22.51	22.51			
40	PI/2 BPSK	50	28	22.88	23.04	22.83	24.0	0.0	
40	PI/2 BPSK	50	56	22.96	22.98	22.94	23.5	0.5	
40	PI/2 BPSK	100	0	22.38	22.48	22.32	24.0	0.0	
40	QPSK	1	1	22.93	23.06	22.94			
40	QPSK	1	53	22.73	22.78	22.67	23.0	1.0	
40	QPSK	1	104	22.96	22.96	22.79			
40	QPSK	50	0	22.36	22.39	22.32	23.0	1.0	
40	QPSK	50	28	22.82	22.88	22.81	24.0	0.0	
40	QPSK	80	56	22.76	22.85	22.84	23.0	1.0	
40	QPSK	100	0	22.36	22.47	22.40	23.0	1.0	
40	16QAM	1	1	21.72	21.80	21.77		1.0	
40	64QAM	1	1	20.13	20.34	20.21	21.5	2.5	
40	256QAM	1	1	18.69	18.75	18.65	19.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	24.0	0.0	
30	QPSK	1	1	22.74	22.92	22.91	24.0	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530	2595	2610	24.0	0.0	
20	QPSK	1	1	22.76	23.01	22.80	24.0	0.0	
Channel				515502	519000	524498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2677.51	2695	2612.49	24.0	0.0	
15	QPSK	1	1	22.78	22.89	22.80	24.0	0.0	
Channel				515004	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2678.12	2695	2614.88	24.0	0.0	
10	QPSK	1	1	22.75	22.96	22.83	24.0	0.0	

n41 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.90	23.11	23.01	24.0	0.0	
100	PI/2 BPSK	1	137	22.88	23.03	22.93			
100	PI/2 BPSK	1	271	22.99	23.04	22.85	24.0	0.0	
100	PI/2 BPSK	135	0	23.08	23.07	22.98			
100	PI/2 BPSK	135	69	23.04	23.07	22.89	24.0	0.0	
100	PI/2 BPSK	135	138	22.74	22.91	22.92	24.0	0.0	
100	PI/2 BPSK	270	0	22.99	23.04	22.99	24.0	0.0	
100	QPSK	1	1	22.96	23.12	22.98			
100	QPSK	1	137	22.73	22.94	22.84	24.0	0.0	
100	QPSK	1	271	22.98	22.97	22.77			
100	QPSK	135	0	22.80	22.91	22.75	24.0	0.0	
100	QPSK	135	69	22.87	23.02	22.81	24.0	0.0	
100	QPSK	135	138	22.76	22.97	22.81	24.0	0.0	
100	QPSK	270	0	22.86	22.96	22.77	24.0	0.0	
100	16QAM	1	1	22.72	22.88	22.68		0.0	
100	64QAM	1	1	21.57	21.73	21.52	23.0	1.0	
100	256QAM	1	1	20.14	20.31	20.31	21.0	3.0	
Channel				506000	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.93	23.01	22.91	24.0	0.0	
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.77	22.89	22.84	24.0	0.0	
Channel				506002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665	24.0	0.0	
70	QPSK	1	1	22.77	22.98	22.86	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2624	2692.99	2669.98	24.0	0.0	
60	QPSK	1	1	22.93	22.91	22.99	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	22.73	23.11	22.79	24.0	0.0	
Channel				503002	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.88	23.07	22.87	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	24.0	0.0	
30	QPSK	1	1	22.70	22.83	22.89	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	22.75	22.94	22.79	24.0	0.0	



n2 Main PA 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				372500	370500	380000	23.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PV2 BPSK	1	1	22.12	22.29	22.31		
20	PV2 BPSK	1	53	22.26	22.32	22.25		
20	PV2 BPSK	1	104	22.19	22.21	22.01	23.0	0.0
20	PV2 BPSK	50	0	22.31	22.32	22.30	23.0	0.0
20	PV2 BPSK	50	28	22.16	22.29	22.14	23.0	0.0
20	PV2 BPSK	50	56	22.12	22.20	22.11	23.0	0.0
20	PV2 BPSK	100	0	22.29	22.32	22.21	23.0	0.0
20	QPSK	1	1	22.32	22.34	22.19		
20	QPSK	1	53	22.33	22.32	22.32		
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04	23.0	0.0
20	QPSK	50	28	22.23	22.29	22.12	23.0	0.0
20	QPSK	50	56	22.14	22.21	22.14	23.0	0.0
20	QPSK	100	0	22.22	22.27	22.06	23.0	0.0
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	64QAM	1	1	21.74	21.73	21.71	22.0	1.0
20	256QAM	1	1	19.00	19.09	18.90	20.0	3.0
Channel				371500	370000	380500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1907.5	23.0	0.0
15	QPSK	1	1	22.20	22.28	22.09	23.0	0.0
Channel				371000	370000	381000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1905	1900	1905	23.0	0.0
10	QPSK	1	1	22.13	22.25	22.06	23.0	0.0
Channel				370500	370000	381500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5	23.0	0.0
5	QPSK	1	1	22.32	22.14	22.14	23.0	0.0

n7 Main PA 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				504000	507000	510000	23.0	0.0
Frequency (MHz)				2520	2535	2550		
40	PV2 BPSK	1	1	21.64	21.81	21.73		
40	PV2 BPSK	1	108	21.78	21.85	21.86		
40	PV2 BPSK	1	214	21.75	21.82	21.73	23.0	0.0
40	PV2 BPSK	108	0	21.79	21.82	21.78	23.0	0.0
40	PV2 BPSK	108	54	21.70	21.81	21.79	23.0	0.0
40	PV2 BPSK	108	108	21.67	21.86	21.71	23.0	0.0
40	PV2 BPSK	216	0	21.80	21.86	21.77	23.0	0.0
40	QPSK	1	1	21.77	21.93	21.83		
40	QPSK	1	108	21.63	21.73	21.73		
40	QPSK	1	214	21.76	21.78	21.60		
40	QPSK	108	0	21.68	21.74	21.73	23.0	0.0
40	QPSK	108	54	21.73	21.82	21.78	23.0	0.0
40	QPSK	108	108	21.62	21.79	21.64	23.0	0.0
40	QPSK	216	0	21.72	21.82	21.77	23.0	0.0
40	16QAM	1	1	21.57	21.77	21.63	23.0	0.0
40	64QAM	1	1	20.33	20.47	20.25	22.0	1.0
40	256QAM	1	1	18.87	18.86	18.73	20.0	3.0
Channel				503000	507000	511000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	23.0	0.0
30	QPSK	1	1	21.73	21.73	21.67	23.0	0.0
Channel				502500	507000	511500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				2512.5	2532	2557.5	23.0	0.0
25	QPSK	1	1	21.79	21.75	21.64	23.0	0.0
Channel				502000	507000	512000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	23.0	0.0
20	PV2 BPSK	1	1	21.63	21.77	21.83	23.0	0.0
Channel				501500	507000	512500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	23.0	0.0
15	QPSK	1	1	21.70	21.74	21.71	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	23.0	0.0
10	QPSK	1	1	21.63	21.83	21.66	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	23.0	0.0
5	QPSK	1	1	21.65	21.73	21.71	23.0	0.0

n66 Main PA 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				346000	348000	352000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	22.01	22.01	21.98		
40	PV2 BPSK	1	108	21.78	21.87	21.85		
40	PV2 BPSK	1	214	21.67	21.84	21.75	23.0	0.0
40	PV2 BPSK	108	0	21.76	21.98	21.99	23.0	0.0
40	PV2 BPSK	108	54	21.69	21.89	21.78	23.0	0.0
40	PV2 BPSK	108	108	21.67	21.88	21.90	23.0	0.0
40	PV2 BPSK	216	0	21.73	21.94	21.91	23.0	0.0
40	QPSK	1	1	22.04	22.25	22.01		
40	QPSK	1	108	21.73	21.76	21.71		
40	QPSK	1	214	21.78	21.87	21.71		
40	QPSK	108	0	21.98	21.98	21.86	23.0	0.0
40	QPSK	108	54	21.81	22.06	21.91	23.0	0.0
40	QPSK	108	108	21.76	21.95	21.86	23.0	0.0
40	QPSK	216	0	21.87	22.04	21.92	23.0	0.0
40	16QAM	1	1	21.74	21.91	21.85	23.0	0.0
40	64QAM	1	1	21.02	21.18	21.08	22.0	1.0
40	256QAM	1	1	18.85	18.99	18.86	20.0	3.0
Channel				345000	348000	353000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	21.94	22.09	22.02	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	23.0	0.0
20	QPSK	1	1	21.89	22.07	21.90	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	21.83	22.19	22.03	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	21.87	22.16	21.93	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	21.90	22.07	21.84	23.0	0.0

n38 Main PA 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				516004	519000	519996					
Frequency (MHz)				2590.02	2595	2599.98					
40	PI2 BPSK	1	1	21.63	21.74	21.64	23.0	0.0			
40	PI2 BPSK	1	53	21.59	21.57	21.48					
40	PI2 BPSK	1	104	21.70	21.69	21.67					
40	PI2 BPSK	50	0	21.16	21.32	21.15					
40	PI2 BPSK	50	28	21.43	21.63	21.45	23.0	0.0			
40	PI2 BPSK	50	56	21.04	21.23	21.21	22.5	0.5			
40	PI2 BPSK	100	0	21.16	21.23	21.06	23.0	0.0			
40	QPSK	1	1	21.80	21.82	21.69					
40	QPSK	1	53	21.66	21.67	21.53					
40	QPSK	1	104	21.60	21.70	21.54					
40	QPSK	50	0	20.70	20.70	20.52	22.0	1.0			
40	QPSK	50	28	21.64	21.68	21.64	23.0	0.0			
40	QPSK	50	56	20.73	20.72	20.64	22.0	1.0			
40	QPSK	100	0	20.53	20.64	20.59	22.0	1.0			
40	16QAM	1	1	20.73	20.94	20.94					
40	64QAM	1	1	19.07	19.29	19.08					
40	256QAM	1	1	17.03	17.20	17.16					
Channel				517002	519000	520998	Tune-up limit (dBm)				
Frequency (MHz)				2585.01	2595	2604.99	MPR (dB)				
30	QPSK	1	1	21.64	21.77	21.56	23.0	0.0			
Channel				516000	519000	520000	Tune-up limit (dBm)				
Frequency (MHz)				2590	2595	2610	MPR (dB)				
20	QPSK	1	1	21.62	21.66	21.63	23.0	0.0			
Channel				515502	519000	520498	Tune-up limit (dBm)				
Frequency (MHz)				2677.51	2695	2612.49	MPR (dB)				
15	QPSK	1	1	21.73	21.76	21.61	23.0	0.0			
Channel				515004	519000	520998	Tune-up limit (dBm)				
Frequency (MHz)				2679.12	2695	2614.88	MPR (dB)				
10	QPSK	1	1	21.73	21.63	21.67	23.0	0.0			

n41 Main PA 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				506202	518998	520000	23.0	0.0			
Frequency (MHz)				2546.01	2592.99	2640					
100	PI/2 BPSK	1	1	21.82	21.89	21.95	23.0	0.0			
100	PI/2 BPSK	1	137	21.73	21.76	21.67					
100	PI/2 BPSK	1	271	21.42	21.63	21.46					
100	PI/2 BPSK	135	0	21.86	21.90	21.78					
100	PI/2 BPSK	135	69	21.65	21.77	21.63	23.0	0.0			
100	PI/2 BPSK	135	138	21.64	21.68	21.64	23.0	0.0			
100	PI/2 BPSK	270	0	21.82	21.84	21.83	23.0	0.0			
100	QPSK	1	1	21.43	21.91	21.81					
100	QPSK	1	137	21.59	21.73	21.65					
100	QPSK	1	271	21.47	21.60	21.60					
100	QPSK	135	0	21.60	21.78	21.70	23.0	0.0			
100	QPSK	135	69	21.51	21.67	21.58	23.0	0.0			
100	QPSK	135	138	21.44	21.62	21.54	23.0	0.0			
100	QPSK	270	0	21.54	21.61	21.61	23.0	0.0			
100	16QAM	1	1	21.71	21.84	21.63					
100	64QAM	1	1	21.43	21.47	21.29					
100	256QAM	1	1	18.78	18.77	18.74					
Channel				506200	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2541	2592.99	2644.98	MPR (dB)				
90	QPSK	1	1	21.27	21.83	21.69	23.0	0.0			
Channel				507204	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2536.02	2592.99	2649.99	MPR (dB)				
80	QPSK	1	1	21.24	21.75	21.76	23.0	0.0			
Channel				506202	518998	520000	Tune-up limit (dBm)				
Frequency (MHz)				2631.01	2692.99	2665	MPR (dB)				
70	QPSK	1	1	21.22	21.81	21.76	23.0	0.0			
Channel				505200	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2624	2692.99	2669.99	MPR (dB)				
60	QPSK	1	1	21.30	21.72	21.60	23.0	0.0			
Channel				504204	518998	520000	Tune-up limit (dBm)				
Frequency (MHz)				2521.02	2592.99	2664.99	MPR (dB)				
50	QPSK	1	1	21.24	21.77	21.71	23.0	0.0			
Channel				503202	518998	520000	Tune-up limit (dBm)				
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)				
40	QPSK	1	1	21.39	21.69	21.79	23.0	0.0			
Channel				502200	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2511	2592.99	2674.99	MPR (dB)				
30	QPSK	1	1	21.33	21.77	21.62	23.0	0.0			
Channel				501204	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)				
20	QPSK	1	1	21.31	21.87	21.66	23.0	0.0			



n2 Main PA Ant3									
BW [MHz]	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	24.0	0.0	
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	23.13	23.24	23.19			
20	PI2 BPSK	1	53	23.04	23.22	23.07			
20	PI2 BPSK	1	104	23.05	23.13	23.05	24.0	0.0	
20	PI2 BPSK	50	0	23.07	23.08	23.06	24.0	0.0	
20	PI2 BPSK	50	28	23.02	23.15	23.05	24.0	0.0	
20	PI2 BPSK	50	56	23.01	23.02	23.09	24.0	0.0	
20	PI2 BPSK	100	0	23.05	23.08	23.06	24.0	0.0	
20	QPSK	1	1	23.21	23.30	23.18			
20	QPSK	1	53	23.12	23.26	23.15			
20	QPSK	1	104	23.05	23.15	23.15			
20	QPSK	50	0	23.15	23.21	23.20	24.0	0.0	
20	QPSK	50	28	23.15	23.27	23.12	24.0	0.0	
20	QPSK	50	56	23.05	23.15	23.12	24.0	0.0	
20	QPSK	100	0	23.16	23.23	23.04	24.0	0.0	
20	16QAM	1	1	23.10	23.14	23.11			
20	64QAM	1	1	22.02	22.15	22.05	23.0	1.0	
20	256QAM	1	1	20.26	20.27	20.29	21.0	3.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	23.07	23.12	23.17			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1905	24.0	0.0	
10	QPSK	1	1	23.15	23.11	23.07			
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	23.06	23.17	23.02	24.0	0.0	

n7 Main PA Ant3									
BW [MHz]	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	24.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	22.98	23.12	22.98			
40	PI2 BPSK	1	108	23.08	23.25	23.08	24.0	0.0	
40	PI2 BPSK	1	214	22.97	23.09	23.03	24.0	0.0	
40	PI2 BPSK	108	0	23.16	23.17	23.16	24.0	0.0	
40	PI2 BPSK	108	54	22.93	23.14	23.00	24.0	0.0	
40	PI2 BPSK	108	108	23.19	23.24	23.22	24.0	0.0	
40	PI2 BPSK	216	0	22.98	23.14	23.08	24.0	0.0	
40	QPSK	1	1	23.23	23.26	23.18			
40	QPSK	1	108	23.00	23.09	22.92			
40	QPSK	1	214	22.88	22.99	22.77			
40	QPSK	108	0	23.04	23.08	23.01	24.0	0.0	
40	QPSK	108	54	23.09	23.16	23.13	24.0	0.0	
40	QPSK	108	108	22.92	23.14	22.96	24.0	0.0	
40	QPSK	216	0	23.03	23.12	23.05	24.0	0.0	
40	16QAM	1	1	22.87	23.02	22.90			
40	64QAM	1	1	22.18	22.27	22.18	23.0	1.0	
40	256QAM	1	1	19.76	19.89	19.71	21.0	3.0	
Channel				503500	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	24.0	0.0	
30	QPSK	1	1	23.07	23.04	22.98			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0	
25	QPSK	1	1	23.06	23.19	23.03			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	24.0	0.0	
20	PI2 BPSK	1	1	23.07	23.25	22.98			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0	
15	QPSK	1	1	23.17	23.07	23.13			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.0	0.0	
10	QPSK	1	1	23.01	23.05	23.04			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0	
5	QPSK	1	1	23.18	23.07	23.13			

n66 Main PA Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.01	23.01	22.92			
40	PI2 BPSK	1	108	22.89	23.07	23.03	24.0	0.0	
40	PI2 BPSK	1	214	22.90	23.07	23.09	24.0	0.0	
40	PI2 BPSK	108	0	23.03	23.10	22.88	24.0	0.0	
40	PI2 BPSK	108	54	23.11	23.11	23.06	24.0	0.0	
40	PI2 BPSK	108	108	22.93	23.08	22.90	24.0	0.0	
40	PI2 BPSK	216	0	22.95	23.08	22.99	24.0	0.0	
40	QPSK	1	1	23.16	23.16	23.03			
40	QPSK	1	108	22.92	22.92	22.73			
40	QPSK	1	214	22.93	22.99	22.95			
40	QPSK	108	0	23.02	23.10	23.01	24.0	0.0	
40	QPSK	108	54	23.12	23.14	23.04	24.0	0.0	
40	QPSK	108	108	22.96	23.09	22.96	24.0	0.0	
40	QPSK	216	0	23.02	23.07	22.98	24.0	0.0	
40	16QAM	1	1	22.96	23.10	23.03			
40	64QAM	1	1	22.15	22.31	22.22	23.0	1.0	
40	256QAM	1	1	19.93	19.94	19.78	21.0	3.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.08	23.11	22.91			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.02	23.06	22.86			
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.06	22.98	22.96			
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.16	23.12	23.02			
Channel				342600	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.04	23.04	22.83			

n38 Main PA Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				51600.02	51600.0	51699.98	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	23.03	23.19	23.05	24.0	0.0	
40	PI/2 BPSK	1	53	22.85	22.99	22.84			
40	PI/2 BPSK	1	104	22.95	23.09	22.95			
40	PI/2 BPSK	50	0	22.71	22.74	22.72		23.5	
40	PI/2 BPSK	50	28	22.84	23.02	22.91	24.0	0.0	
40	PI/2 BPSK	50	56	22.59	22.67	22.52	23.5	0.5	
40	PI/2 BPSK	100	0	22.60	22.68	22.60	24.0	0.0	
40	QPSK	1	1	23.15	23.20	23.10			
40	QPSK	1	53	22.53	23.07	23.06			
40	QPSK	1	104	23.06	23.14	23.08			
40	QPSK	50	0	22.09	22.13	22.07	23.0	1.0	
40	QPSK	50	28	22.88	23.08	22.94	24.0	0.0	
40	QPSK	80	56	22.01	22.17	21.95	23.0	1.0	
40	QPSK	100	0	22.02	22.14	22.03	23.0	1.0	
40	16QAM	1	1	22.50	22.49	22.29			
40	64QAM	1	1	21.04	21.07	20.95			
40	256QAM	1	1	18.26	18.44	18.30		19.5	
Channel				51700.02	51700.0	51799.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	24.0	0.0	
30	QPSK	1	1	23.07	23.06	23.09	24.0	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570	2595	2610	24.0	0.0	
20	QPSK	1	1	23.14	23.15	23.12	24.0	0.0	
Channel				51550.02	519000	52498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2677.51	2595	2612.49	24.0	0.0	
15	QPSK	1	1	22.96	23.19	22.95	24.0	0.0	
Channel				515004	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2679.02	2595	2614.98	24.0	0.0	
10	QPSK	1	1	23.11	23.09	23.00	24.0	0.0	

n41 Main PA Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50600.02	518998	520000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.01	23.13	22.99	24.0	0.0	
100	PI/2 BPSK	1	137	22.92	22.96	22.75			
100	PI/2 BPSK	1	271	22.78	22.85	22.87			
100	PI/2 BPSK	135	0	23.05	23.09	22.90		24.0	
100	PI/2 BPSK	135	69	22.77	22.92	22.78	24.0	0.0	
100	PI/2 BPSK	135	138	22.72	22.81	22.70	24.0	0.0	
100	PI/2 BPSK	270	0	22.90	22.96	22.86	24.0	0.0	
100	QPSK	1	1	22.96	23.22	22.91			
100	QPSK	1	137	22.50	22.53	22.78			
100	QPSK	1	271	22.87	22.77	22.87			
100	QPSK	135	0	22.73	22.82	22.68	24.0	0.0	
100	QPSK	135	69	22.83	22.87	22.79	24.0	0.0	
100	QPSK	135	138	22.52	22.74	22.69	24.0	0.0	
100	QPSK	270	0	22.72	22.51	22.80	24.0	0.0	
100	16QAM	1	1	22.78	22.93	22.79			
100	64QAM	1	1	22.54	22.69	22.49			
100	256QAM	1	1	20.18	20.21	20.21		21.0	
Channel				50600.02	518998	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.84	23.13	22.81	24.0	0.0	
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.87	23.11	22.80	24.0	0.0	
Channel				50600.02	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.87	23.03	22.76	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	22.87	23.21	22.92	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	22.80	23.19	22.71	24.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.88	23.13	22.83	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	22.84	23.04	22.93	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	22.84	23.14	22.82	24.0	0.0	



Reduced Power Mode for Main PA DSI2

n2 Main PA 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				372000	376000	380000	23.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	21.86	21.94	21.79			
20	PI2 BPSK	1	53	21.92	21.98	21.87	23.0	0.0	
20	PI2 BPSK	1	104	21.72	21.91	21.89			
20	PI2 BPSK	50	0	21.77	21.94	21.72			
20	PI2 BPSK	50	28	21.80	21.81	21.92	23.0	0.0	
20	PI2 BPSK	50	56	21.77	21.94	21.71			
20	PI2 BPSK	100	0	21.84	21.86	21.78			
20	QPSK	1	1	21.92	22.06	21.84	23.0	0.0	
20	QPSK	1	53	21.83	21.92	21.84			
20	QPSK	1	104	21.93	21.84	21.78			
20	QPSK	50	0	21.73	21.74	21.79	23.0	0.0	
20	QPSK	50	28	21.77	21.88	21.74			
20	QPSK	50	56	21.81	21.83	21.81			
20	QPSK	100	0	22.02	22.04	21.88	23.0	0.0	
20	16QAM	1	1	21.72	21.76	21.89			
20	64QAM	1	1	20.97	21.16	21.08			
20	256QAM	1	1	18.56	18.67	18.60	20.0		
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1902.5			
15	QPSK	1	1	21.91	21.87	21.69		23.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	21.79	21.84	21.73		23.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	21.91	21.99	21.64		23.0	

n5 Main PA 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				166800	167200	167600	24.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.73	22.92	22.87			
20	PI2 BPSK	1	53	22.76	22.86	22.73	24.0	0.0	
20	PI2 BPSK	1	104	22.70	22.88	22.74			
20	PI2 BPSK	50	0	22.70	22.87	22.74			
20	PI2 BPSK	50	28	22.88	22.95	22.81	24.0	0.0	
20	PI2 BPSK	50	56	22.80	22.90	22.88			
20	PI2 BPSK	100	0	22.87	22.94	22.76			
20	QPSK	1	1	23.31	23.34	23.12	24.0	0.0	
20	QPSK	1	53	22.82	22.82	22.73			
20	QPSK	1	104	22.77	22.80	22.62			
20	QPSK	50	0	22.74	22.93	22.82	24.0	0.0	
20	QPSK	50	28	23.21	23.23	23.22			
20	QPSK	50	56	22.88	22.88	22.86			
20	QPSK	100	0	23.21	23.29	23.22	24.0	0.0	
20	16QAM	1	1	22.83	22.98	22.89			
20	64QAM	1	1	22.13	22.14	21.93			
20	256QAM	1	1	19.31	19.43	19.28	21.0		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.16	23.19	23.08		24.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.11	23.26	22.94		24.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.24	23.29	23.12		24.0	

n7 Main PA 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				50400	50700	51000	24.0	0.0	
Frequency (MHz)				2520	2534	2550			
40	PI2 BPSK	1	1	22.18	22.24	22.18			
40	PI2 BPSK	1	108	22.50	22.51	22.47	24.0	0.0	
40	PI2 BPSK	1	214	22.46	22.48	22.35			
40	PI2 BPSK	108	0	22.16	22.25	22.14			
40	PI2 BPSK	108	54	22.25	22.36	22.24	24.0	0.0	
40	PI2 BPSK	108	108	22.38	22.48	22.42			
40	PI2 BPSK	216	0	22.15	22.35	22.22			
40	QPSK	1	1	22.51	22.55	22.57	24.0	0.0	
40	QPSK	1	108	22.22	22.35	22.28			
40	QPSK	1	214	22.37	22.46	22.33			
40	QPSK	108	0	22.20	22.26	22.07	24.0	0.0	
40	QPSK	108	54	22.47	22.51	22.42			
40	QPSK	108	108	22.45	22.50	22.45			
40	QPSK	216	0	22.44	22.57	22.43	24.0	0.0	
40	16QAM	1	1	22.42	22.47	22.38			
40	64QAM	1	1	21.19	21.41	21.27			
40	256QAM	1	1	19.29	19.34	19.26	21.0		
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	22.37	22.51	22.46		24.0	
Channel				50260	50700	51150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.52	22.49	22.44		24.0	
Channel				50200	50700	51200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	22.40	22.40	22.50		24.0	
Channel				50150	50700	51250	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.42	22.49	22.41		24.0	
Channel				50100	50700	51300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.41	22.47	22.42		24.0	
Channel				50050	50700	51350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.31	22.48	22.39		24.0	

n26 Main PA 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				16800	16800	167800	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	23.07	23.08	22.97	24.0	0.0
20	PI2 BPSK	1	53	22.98	23.07	22.91		
20	PI2 BPSK	1	104	22.93	22.94	22.89		
20	PI2 BPSK	50	0	23.02	23.11	23.09	24.0	0.0
20	PI2 BPSK	50	28	23.07	23.08	22.97	24.0	0.0
20	PI2 BPSK	50	56	22.76	22.98	22.91	24.0	0.0
20	PI2 BPSK	100	0	23.08	23.08	23.06		
20	QPSK	1	1	23.15	23.17	23.13		
20	QPSK	1	53	22.96	23.07	22.89	24.0	0.0
20	QPSK	1	104	22.91	22.94	22.94		
20	QPSK	50	0	22.93	23.11	22.96		
20	QPSK	50	28	23.12	23.15	22.91	24.0	0.0
20	QPSK	50	56	22.84	22.98	22.77	24.0	0.0
20	QPSK	100	0	23.05	23.10	22.94		
20	16QAM	1	1	22.72	22.78	22.82		
20	64QAM	1	1	22.53	22.62	22.53	23.0	1.0
20	256QAM	1	1	19.68	19.72	19.52	21.0	3.0
Channel				168200	168300	168500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.99	23.08	23.14	24.0	0.0
Channel				168800	168900	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.12	23.16	23.05	24.0	0.0
Channel				169300	169500	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.02	23.05	22.93	24.0	0.0

n66 Main PA 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				348000	348000	348000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.68	21.68	21.59	23.0	0.0
40	PI2 BPSK	1	106	21.51	21.50	21.40		
40	PI2 BPSK	1	214	21.43	21.57	21.38		
40	PI2 BPSK	108	0	21.42	21.57	21.39	23.0	0.0
40	PI2 BPSK	108	54	21.50	21.51	21.40	23.0	0.0
40	PI2 BPSK	108	108	21.42	21.58	21.38	23.0	0.0
40	PI2 BPSK	216	0	21.28	21.48	21.38		
40	QPSK	1	1	21.69	21.73	21.67		
40	QPSK	1	108	21.36	21.49	21.29	23.0	0.0
40	QPSK	1	214	21.52	21.62	21.61		
40	QPSK	108	0	21.42	21.59	21.40		
40	QPSK	108	54	21.67	21.72	21.61	23.0	0.0
40	QPSK	108	108	21.52	21.63	21.62	23.0	0.0
40	QPSK	216	0	21.63	21.66	21.62	23.0	0.0
40	16QAM	1	1	21.44	21.52	21.31		
40	64QAM	1	1	20.74	20.74	20.59		
40	256QAM	1	1	18.47	18.52	18.38	20.0	3.0
Channel				349000	349000	349000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.60	21.54	21.53	23.0	0.0
Channel				349000	349000	349000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.64	21.72	21.47	23.0	0.0
Channel				349500	349500	349500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.56	21.55	21.55	23.0	0.0
Channel				349000	349000	349000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1716	1745	1775		
10	QPSK	1	1	21.68	21.69	21.67	23.0	0.0
Channel				349500	349000	349500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.61	21.60	21.49	23.0	0.0

n38 Main PA 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				518004	519000	519996	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	22.41	22.45	22.27			
40	PI/2 BPSK	1	53	22.15	22.32	22.30	24.0	0.0	
40	PI/2 BPSK	1	104	22.16	22.29	22.26			
40	PI/2 BPSK	50	0	21.81	21.97	21.88		23.5	
40	PI/2 BPSK	50	28	22.11	22.25	22.18	24.0	0.0	
40	PI/2 BPSK	50	56	21.64	21.85	21.72	23.5	0.5	
40	PI/2 BPSK	100	0	22.01	22.03	21.84	24.0	0.0	
40	QPSK	1	1	22.81	22.84	22.79			
40	QPSK	1	53	22.08	22.27	22.23			
40	QPSK	1	104	22.32	22.32	22.27	23.0	1.0	
40	QPSK	50	0	21.80	21.98	21.81			
40	QPSK	50	28	22.56	22.63	22.57		24.0	
40	QPSK	80	56	21.76	21.88	21.79	23.0	1.0	
40	QPSK	100	0	21.51	21.55	21.53	23.0	1.0	
40	16QAM	1	1	21.84	21.98	21.97			
40	64QAM	1	1	20.12	20.28	20.19		21.5	
40	256QAM	1	1	17.70	17.79	17.58	19.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	24.0	0.0	
30	QPSK	1	1	22.67	22.71	22.61	24.0	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570	2595	2610	24.0	0.0	
20	QPSK	1	1	22.60	22.69	22.65	24.0	0.0	
Channel				515502	519000	520498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	24.0	0.0	
15	QPSK	1	1	22.77	22.72	22.60	24.0	0.0	
Channel				515004	519000	520996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2574.02	2595	2614.98	24.0	0.0	
10	QPSK	1	1	22.82	22.79	22.68	24.0	0.0	

n41 Main PA 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				506202	518998	520000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.73	22.80	22.70			
100	PI/2 BPSK	1	137	22.47	22.46	22.44	24.0	0.0	
100	PI/2 BPSK	1	271	22.16	22.27	22.26	24.0	0.0	
100	PI/2 BPSK	135	0	22.58	22.66	22.61			
100	PI/2 BPSK	135	69	22.26	22.48	22.26		24.0	
100	PI/2 BPSK	135	138	22.01	22.20	22.18	24.0	0.0	
100	PI/2 BPSK	270	0	22.29	22.40	22.41	24.0	0.0	
100	QPSK	1	1	22.76	22.86	22.71			
100	QPSK	1	137	22.33	22.47	22.30			
100	QPSK	1	271	22.24	22.29	22.21	24.0	0.0	
100	QPSK	135	0	22.51	22.56	22.42			
100	QPSK	135	69	22.53	22.66	22.56		24.0	
100	QPSK	135	138	22.12	22.28	22.06	24.0	0.0	
100	QPSK	270	0	22.52	22.64	22.33	24.0	0.0	
100	16QAM	1	1	22.86	22.72	22.68			
100	64QAM	1	1	22.25	22.27	22.11		23.0	
100	256QAM	1	1	19.64	19.68	19.47	21.0	3.0	
Channel				505200	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.70	22.83	22.55	24.0	0.0	
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2640.99	24.0	0.0	
80	QPSK	1	1	22.62	22.79	22.72	24.0	0.0	
Channel				506202	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.71	22.70	22.55	24.0	0.0	
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.75	22.70	22.62	24.0	0.0	
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.75	22.68	22.70	24.0	0.0	
Channel				503202	518998	523000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.67	22.67	22.69	24.0	0.0	
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	22.70	22.73	22.57	24.0	0.0	
Channel				501204	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.62	22.80	22.51	24.0	0.0	

n2 Main PA Ant1 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				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	12.61	12.97	12.74			
20	PI2 BPSK	1	53	12.60	12.80	12.84	13.9	0.0	
20	PI2 BPSK	1	104	12.74	12.89	12.98	13.9	0.0	
20	PI2 BPSK	50	0	12.72	12.98	12.74			
20	PI2 BPSK	50	28	12.67	12.86	12.77		0.0	
20	PI2 BPSK	50	56	12.77	12.85	12.79	13.9	0.0	
20	PI2 BPSK	100	0	12.61	12.86	12.83	13.9		
20	QPSK	1	1	12.82	12.99	12.94			
20	QPSK	1	53	12.82	12.87	12.89		0.0	
20	QPSK	1	104	12.70	12.79	12.82	13.9		
20	QPSK	50	0	12.70	12.83	12.91		0.0	
20	QPSK	50	28	12.63	12.94	12.77		0.0	
20	QPSK	50	56	12.76	12.91	12.86	13.9	0.0	
20	QPSK	100	0	12.69	12.92	12.78	13.9		
20	16QAM	1	1	12.63	12.86	12.83		0.0	
20	64QAM	1	1	12.71	12.86	12.75		0.0	
20	256QAM	1	1	12.84	12.84	12.86	13.9	0.0	
Channel				371000	376000	376500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1902.5	13.9		
15	QPSK	1	1	12.82	12.91	12.93	13.9	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1900	1900	13.9	0.0	
10	QPSK	1	1	12.67	12.91	12.94	13.9	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1907.5	13.9	0.0	
5	QPSK	1	1	12.68	12.89	12.83	13.9	0.0	

n5 Main PA Ant1 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				166500	167500	167500			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	19.81	19.90	19.69			
20	PI2 BPSK	1	53	19.90	19.79	19.63	21.1	0.0	
20	PI2 BPSK	1	104	19.85	19.79	19.67	21.1	0.0	
20	PI2 BPSK	50	0	19.81	19.88	19.68			
20	PI2 BPSK	50	28	19.86	19.78	19.75		0.0	
20	PI2 BPSK	50	56	19.94	19.82	19.77	21.1	0.0	
20	PI2 BPSK	100	0	19.85	19.81	19.66	21.1		
20	QPSK	1	1	19.85	19.96	19.86			
20	QPSK	1	53	19.88	19.87	19.69		0.0	
20	QPSK	1	104	19.86	19.90	19.68	21.1		
20	QPSK	50	0	19.78	19.83	19.72		0.0	
20	QPSK	50	28	19.84	19.93	19.70		0.0	
20	QPSK	50	56	19.92	19.87	19.78	21.1	0.0	
20	QPSK	100	0	19.85	19.88	19.71	21.1		
20	16QAM	1	1	19.74	19.85	19.65		0.0	
20	64QAM	1	1	19.75	19.94	19.77		0.0	
20	256QAM	1	1	19.16	19.26	19.12	20.6	0.5	
Channel				165300	167200	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	21.1		
15	QPSK	1	1	19.81	19.77	19.85	21.1	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	825.5	844	21.1	0.0	
10	QPSK	1	1	19.80	19.95	19.79	21.1	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	21.1	0.0	
5	QPSK	1	1	19.77	19.87	19.84	21.1	0.0	



n7 Main PA 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				504000	507000	510000			
Frequency (MHz)				25400	25650	25900			
40	P12 BPSK	1	1	15.06	15.68	15.54			
40	P12 BPSK	1	108	15.62	15.64	15.57	17.0	0.0	
40	P12 BPSK	1	214	15.55	15.62	15.63			
40	P12 BPSK	108	0	15.59	15.73	15.59	17.0	0.0	
40	P12 BPSK	108	54	15.56	15.67	15.54	17.0	0.0	
40	P12 BPSK	108	108	15.62	15.70	15.56	17.0	0.0	
40	P12 BPSK	216	0	15.60	15.78	15.49			
40	QPSK	1	1	15.75	15.80	15.85			
40	QPSK	1	108	15.63	15.63	15.63	17.0	0.0	
40	QPSK	1	214	15.70	15.59	15.54			
40	QPSK	108	0	15.60	15.69	15.50	17.0	0.0	
40	QPSK	108	54	15.56	15.75	15.61	17.0	0.0	
40	QPSK	108	108	15.63	15.79	15.58	17.0	0.0	
40	QPSK	216	0	15.66	15.76	15.46	17.0	0.0	
40	16QAM	1	1	15.68	15.68	15.47	17.0	0.0	
40	64QAM	1	1	15.62	15.79	15.57	17.0	0.0	
40	256QAM	1	1	15.60	15.77	15.55	17.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				25300	25550	25800			
30	QPSK	1	1	15.61	15.78	15.64	17.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	15.71	15.63	15.49	17.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				25100	25350	25600			
20	P12 BPSK	1	1	15.73	15.59	15.53	17.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2507.5	25350	2562.5			
15	QPSK	1	1	15.64	15.61	15.65	17.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				25050	25350	25650			
10	QPSK	1	1	15.66	15.70	15.52	17.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2502.5	25350	2567.5			
5	QPSK	1	1	15.58	15.71	15.60	17.0	0.0	

n26 Main PA 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				164800	165300	167800			
Frequency (MHz)				824	831.5	839			
20	P12 BPSK	1	1	19.99	19.99	19.90			
20	P12 BPSK	1	53	19.98	19.89	19.83	21.1	0.0	
20	P12 BPSK	1	104	19.82	19.96	19.85			
20	P12 BPSK	50	0	19.92	19.89	19.80	21.1	0.0	
20	P12 BPSK	50	28	19.79	19.89	19.95	21.1	0.0	
20	P12 BPSK	50	56	19.99	19.85	19.86	21.1	0.0	
20	P12 BPSK	100	0	19.87	19.94	19.81			
20	QPSK	1	1	19.96	20.00	19.91			
20	QPSK	1	53	19.88	19.98	19.95	21.1	0.0	
20	QPSK	1	104	19.94	19.99	19.83			
20	QPSK	50	0	19.85	19.90	19.82	21.1	0.0	
20	QPSK	50	28	19.92	19.98	19.92	21.1	0.0	
20	QPSK	50	56	19.93	19.91	19.86			
20	QPSK	100	0	19.83	19.93	19.90	21.1	0.0	
20	16QAM	1	1	19.93	19.96	19.96	21.1	0.0	
20	64QAM	1	1	19.88	19.90	19.92	21.1	0.0	
20	256QAM	1	1	19.72	19.70	19.72	20.6	0.5	
Channel				164300	165300	166300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	19.98	19.96	19.97	21.1	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				810	831.5	844			
10	QPSK	1	1	19.86	19.97	19.79	21.1	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	19.80	19.95	19.96	21.1	0.0	

n66 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	13.64	13.71	13.56			
40	P12 BPSK	1	108	13.59	13.59	13.49	14.7	0.0	
40	P12 BPSK	1	214	13.71	13.71	13.58			
40	P12 BPSK	108	0	13.65	13.63	13.50	14.7	0.0	
40	P12 BPSK	108	54	13.65	13.51	13.64	14.7	0.0	
40	P12 BPSK	108	108	13.65	13.62	13.60	14.7	0.0	
40	P12 BPSK	216	0	13.57	13.65	13.42			
40	QPSK	1	1	13.70	13.72	13.64			
40	QPSK	1	108	13.63	13.59	13.48	14.7	0.0	
40	QPSK	1	214	13.54	13.70	13.60			
40	QPSK	108	0	13.68	13.68	13.42	14.7	0.0	
40	QPSK	108	54	13.68	13.70	13.58	14.7	0.0	
40	QPSK	108	108	13.61	13.69	13.59	14.7	0.0	
40	QPSK	216	0	13.57	13.61	13.52	14.7	0.0	
40	16QAM	1	1	13.53	13.65	13.58	14.7	0.0	
40	64QAM	1	1	13.57	13.61	13.53	14.7	0.0	
40	256QAM	1	1	13.70	13.50	13.45	14.7	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	13.66	13.57	13.51	14.7	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	13.65	13.55	13.62	14.7	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	13.60	13.56	13.57	14.7	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	13.60	13.70	13.53	14.7	0.0	
Channel				342600	349000	355500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	13.49	13.60	13.48	14.7	0.0	

n38 Main PA 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				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	14.96	14.98	14.94	16.1		
40	PI2 BPSK	1	53	14.73	14.89	14.87		0.0	
40	PI2 BPSK	1	104	14.76	14.97	14.80			
40	PI2 BPSK	50	0	14.89	14.95	14.82		0.0	
40	PI2 BPSK	50	28	14.78	14.89	14.71	16.1	0.0	
40	PI2 BPSK	50	56	14.86	15.06	14.65	16.1	0.0	
40	PI2 BPSK	100	0	14.76	14.90	14.80			
40	QPSK	1	1	14.94	15.06	14.96	16.1		
40	QPSK	1	53	14.76	15.00	14.83		0.0	
40	QPSK	1	104	14.80	15.04	14.88			
40	QPSK	50	0	14.73	15.00	14.73		0.0	
40	QPSK	50	28	14.76	15.04	14.67	16.1	0.0	
40	QPSK	50	56	14.83	14.95	14.81	16.1	0.0	
40	QPSK	100	0	14.74	14.99	14.85			
40	16QAM	1	1	14.75	15.03	14.83	16.1	0.0	
40	64QAM	1	1	14.89	14.90	14.64	16.1	0.0	
40	256QAM	1	1	14.90	14.96	14.73	16.1	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	14.92	14.90	14.88	16.1	0.0	
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	14.76	14.99	14.77	16.1	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	14.85	14.93	14.83	16.1	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570.02	2595	2614.98			
10	QPSK	1	1	14.87	14.94	14.67	16.1	0.0	

n41 Main PA 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				520020	518598	520020			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	14.77	14.93	14.84	16.1		
100	PI2 BPSK	1	137	14.90	14.98	14.77		0.0	
100	PI2 BPSK	1	271	14.82	14.96	14.91			
100	PI2 BPSK	135	0	14.80	15.01	14.68		0.0	
100	PI2 BPSK	135	69	14.92	14.90	14.85	16.1	0.0	
100	PI2 BPSK	135	138	14.73	15.04	14.73	16.1	0.0	
100	PI2 BPSK	270	0	14.77	15.00	14.84			
100	QPSK	1	1	14.94	15.06	14.99	16.1		
100	QPSK	1	137	14.80	14.93	14.82		0.0	
100	QPSK	1	271	14.77	14.91	14.71			
100	QPSK	135	0	14.77	15.00	14.83	16.1	0.0	
100	QPSK	135	69	14.78	15.03	14.72	16.1	0.0	
100	QPSK	135	138	14.86	14.89	14.70	16.1	0.0	
100	QPSK	270	0	14.92	14.95	14.68			
100	16QAM	1	1	14.79	14.92	14.76	16.1	0.0	
100	64QAM	1	1	14.94	15.05	14.71	16.1	0.0	
100	256QAM	1	1	14.84	14.93	14.79	16.1	0.0	
Channel				520620	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.95	14.87	14.74	16.1	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	14.74	15.03	14.75	16.1	0.0	
Channel				509202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	14.84	14.88	14.67	16.1	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.99			
60	QPSK	1	1	14.86	14.89	14.89	16.1	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99 <td colspan="3"></td>			
50	QPSK	1	1	14.67	15.04	14.80	16.1	0.0	
Channel				520202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.85	15.02	14.72	16.1	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	14.84	14.90	14.69	16.1	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.72	14.94	14.88	16.1	0.0	



n2 Main PA Ant2 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				372500	370500	380000	23.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PV2 BPSK	1	1	22.12	22.29	22.31		
20	PV2 BPSK	1	53	22.26	22.32	22.25		
20	PV2 BPSK	1	104	22.19	22.21	22.01	23.0	0.0
20	PV2 BPSK	50	0	22.31	22.32	22.30		
20	PV2 BPSK	50	28	22.16	22.29	22.14		
20	PV2 BPSK	50	56	22.12	22.20	22.11		
20	PV2 BPSK	100	0	22.29	22.32	22.21	23.0	0.0
20	QPSK	1	1	22.32	22.34	22.19		
20	QPSK	1	53	22.33	22.32	22.32		
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04	23.0	0.0
20	QPSK	50	28	22.23	22.29	22.12		
20	QPSK	50	56	22.14	22.21	22.14		
20	QPSK	100	0	22.22	22.27	22.06		
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	64QAM	1	1	21.74	21.73	21.71		
20	256QAM	1	1	19.00	19.09	18.90		
Channel				171500	170000	169500	20.0	3.0
Frequency (MHz)				1867.5	1860	1907.5		
15	QPSK	1	1	22.20	22.28	22.09		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1905	1900	1905		
10	QPSK	1	1	22.13	22.25	22.06		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1862.5	1860	1907.5		
5	QPSK	1	1	22.32	22.14	22.14		

n7 Main PA Ant2 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				504000	507000	510000	23.0	0.0
Frequency (MHz)				2520	2535	2550		
40	PV2 BPSK	1	1	21.64	21.81	21.73		
40	PV2 BPSK	1	108	21.78	21.85	21.86	23.0	0.0
40	PV2 BPSK	1	214	21.75	21.82	21.73		
40	PV2 BPSK	108	0	21.79	21.82	21.78		
40	PV2 BPSK	108	54	21.70	21.81	21.79		
40	PV2 BPSK	108	108	21.67	21.86	21.71	23.0	0.0
40	PV2 BPSK	216	0	21.80	21.86	21.77		
40	QPSK	1	1	21.77	21.93	21.83		
40	QPSK	1	108	21.63	21.73	21.73		
40	QPSK	1	214	21.76	21.78	21.60	23.0	0.0
40	QPSK	108	0	21.68	21.74	21.73		
40	QPSK	108	54	21.73	21.82	21.78		
40	QPSK	108	108	21.62	21.79	21.64		
40	QPSK	216	0	21.72	21.82	21.77	23.0	0.0
40	16QAM	1	1	21.57	21.77	21.63		
40	64QAM	1	1	20.33	20.47	20.25		
40	256QAM	1	1	18.87	18.86	18.73		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.73	21.73	21.67		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2512.5	2532	2557.5		
25	QPSK	1	1	21.79	21.75	21.64		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2510	2535	2560		
20	PV2 BPSK	1	1	21.63	21.77	21.83		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.70	21.74	21.71		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.63	21.83	21.66		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.65	21.73	21.71		

n66 Main PA Ant2 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				346000	348000	352000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	22.01	22.01	21.98		
40	PV2 BPSK	1	108	21.78	21.87	21.85		
40	PV2 BPSK	1	214	21.67	21.84	21.75	23.0	0.0
40	PV2 BPSK	108	0	21.76	21.98	21.99		
40	PV2 BPSK	108	54	21.69	21.89	21.78		
40	PV2 BPSK	108	108	21.67	21.88	21.90		
40	PV2 BPSK	216	0	21.73	21.94	21.91	23.0	0.0
40	QPSK	1	1	22.04	22.25	22.01		
40	QPSK	1	108	21.73	21.76	21.71		
40	QPSK	1	214	21.78	21.87	21.71		
40	QPSK	108	0	21.98	21.98	21.86	23.0	0.0
40	QPSK	108	54	21.81	22.06	21.91		
40	QPSK	108	108	21.76	21.95	21.86		
40	QPSK	216	0	21.97	22.04	21.92		
40	16QAM	1	1	21.74	21.91	21.85	23.0	0.0
40	64QAM	1	1	21.02	21.18	21.08		
40	256QAM	1	1	18.85	18.99	18.86		
Channel				345000	348000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.94	22.09	22.02		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.89	22.07	21.90		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.83	22.19	22.03		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.87	22.16	21.93		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.90	22.07	21.84		

n38 Main PA 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				518004	519000	519996		
Frequency (MHz)				2560.02	2595	2599.98		
40	PI2 BPSK	1	1	21.63	21.74	21.64		
40	PI2 BPSK	1	53	21.59	21.57	21.48	23.0	0.0
40	PI2 BPSK	1	104	21.70	21.69	21.67		
40	PI2 BPSK	50	0	21.16	21.32	21.15	22.5	0.5
40	PI2 BPSK	50	28	21.43	21.62	21.45	23.0	0.0
40	PI2 BPSK	50	56	21.04	21.23	21.21	22.5	0.5
40	PI2 BPSK	100	0	21.16	21.23	21.06		
40	QPSK	1	1	21.80	21.82	21.66		
40	QPSK	1	53	21.86	21.67	21.53	23.0	0.0
40	QPSK	1	104	21.60	21.70	21.54		
40	QPSK	50	0	20.70	20.69	20.52	22.0	1.0
40	QPSK	50	28	21.64	21.88	21.64	23.0	0.0
40	QPSK	50	56	20.73	20.72	20.64	22.0	1.0
40	QPSK	100	0	20.33	20.64	20.59		
40	16QAM	1	1	20.73	20.94	20.94	22.0	1.0
40	64QAM	1	1	19.07	19.29	19.08	20.5	2.5
40	256QAM	1	1	17.03	17.20	17.16	18.5	4.5
Channel				517002	518000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.64	21.77	21.56	23.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2200	2295	2310		
20	QPSK	1	1	21.62	21.66	21.63	23.0	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.73	21.76	21.61	23.0	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2570.02	2595	2614.98		
10	QPSK	1	1	21.73	21.63	21.67	23.0	0.0

n41 Main PA 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				526002	518598	526000		
Frequency (MHz)				2548.01	2562.99	2640		
100	PI2 BPSK	1	1	21.82	21.89	21.95		
100	PI2 BPSK	1	137	21.73	21.76	21.67	23.0	0.0
100	PI2 BPSK	1	274	21.42	21.63	21.46		
100	PI2 BPSK	135	0	21.86	21.90	21.78	23.0	0.0
100	PI2 BPSK	135	69	21.65	21.77	21.63	23.0	0.0
100	PI2 BPSK	135	138	21.64	21.68	21.64	23.0	0.0
100	PI2 BPSK	270	0	21.82	21.84	21.83		
100	QPSK	1	1	21.43	21.91	21.81		
100	QPSK	1	137	21.59	21.73	21.65	23.0	0.0
100	QPSK	1	274	21.47	21.60	21.60		
100	QPSK	135	0	21.60	21.78	21.70	23.0	0.0
100	QPSK	135	69	21.51	21.97	21.58	23.0	0.0
100	QPSK	135	138	21.44	21.62	21.54	23.0	0.0
100	QPSK	270	0	21.54	21.81	21.61		
100	16QAM	1	1	21.71	21.84	21.63	23.0	0.0
100	64QAM	1	1	21.43	21.47	21.29	22.0	1.0
100	256QAM	1	1	18.78	18.77	18.74	20.0	3.0
Channel				526200	518598	526998		
Frequency (MHz)				2541	2562.99	2644.98		
90	QPSK	1	1	21.27	21.83	21.69	23.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2562.99	2649.99		
80	QPSK	1	1	21.24	21.75	21.70	23.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2631.01	2562.99	2655		
70	QPSK	1	1	21.22	21.81	21.76	23.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2626	2562.99	2659.99		
60	QPSK	1	1	21.30	21.72	21.60	23.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2562.99	2664.99		
50	QPSK	1	1	21.24	21.77	21.71	23.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2562.99	2670		
40	QPSK	1	1	21.39	21.69	21.79	23.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2562.99	2674.98		
30	QPSK	1	1	21.33	21.77	21.62	23.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2562.99	2679.99		
20	QPSK	1	1	21.31	21.87	21.66	23.0	0.0



n2 Main PA Ant3 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				372000	376000	380000	18.3	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	17.07	17.16	17.10	18.3	0.0	
20	PI2 BPSK	1	53	17.18	17.09	17.12			
20	PI2 BPSK	1	104	17.26	17.26	17.19	18.3	0.0	
20	PI2 BPSK	50	0	17.17	17.11	17.06			
20	PI2 BPSK	50	28	17.14	17.25	17.18	18.3	0.0	
20	PI2 BPSK	50	56	17.17	17.19	17.18			
20	PI2 BPSK	100	0	17.09	17.22	17.14	18.3	0.0	
20	QPSK	1	1	17.25	17.31	17.21			
20	QPSK	1	53	17.25	17.16	17.00	18.3	0.0	
20	QPSK	1	104	17.07	17.11	17.09			
20	QPSK	50	0	17.26	17.18	17.04	18.3	0.0	
20	QPSK	50	28	17.16	17.28	17.05			
20	QPSK	50	56	17.20	17.22	17.06	18.3	0.0	
20	QPSK	100	0	17.23	17.25	17.00			
20	16QAM	1	1	17.28	17.10	17.14	18.3	0.0	
20	64QAM	1	1	17.17	17.23	17.21			
20	256QAM	1	1	17.16	17.20	17.04	18.3	0.0	
Channel				371500	376000	380500		Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	17.15	17.19	17.14	18.3	0.0	
Channel				371000	376000	381000		Tune-up limit (dBm)	
Frequency (MHz)				1905	1900	1905			
10	QPSK	1	1	17.08	17.11	17.14	18.3	0.0	
Channel				375500	376000	381500		Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	17.23	17.20	17.03	18.3	0.0	
Channel									

n7 Main PA Ant3 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				500000	507000	510000	17.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	15.93	16.12	15.89	17.0	0.0	
40	PI2 BPSK	1	108	15.96	16.03	15.99			
40	PI2 BPSK	1	214	15.87	16.03	16.01	17.0	0.0	
40	PI2 BPSK	108	0	15.86	16.11	16.04			
40	PI2 BPSK	108	54	16.05	16.01	15.90	17.0	0.0	
40	PI2 BPSK	108	108	15.94	16.07	16.04			
40	PI2 BPSK	216	0	16.00	16.10	15.94	17.0	0.0	
40	QPSK	1	1	16.04	16.16	16.02			
40	QPSK	1	108	16.01	16.17	15.98	17.0	0.0	
40	QPSK	1	214	16.04	16.12	15.89			
40	QPSK	108	0	15.94	16.13	15.92	17.0	0.0	
40	QPSK	108	54	15.85	16.14	16.02			
40	QPSK	108	108	16.04	15.99	16.04	17.0	0.0	
40	QPSK	216	0	15.89	16.05	15.98			
40	16QAM	1	1	15.96	16.14	15.98	17.0	0.0	
40	64QAM	1	1	15.93	16.03	15.95		17.0	
40	256QAM	1	1	15.87	16.13	15.95			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	16.01	15.96	16.01	17.0	0.0	
Channel				502500	507000	511500		Tune-up limit (dBm)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	15.83	16.08	15.90	17.0	0.0	
Channel				502000	507000	512000		Tune-up limit (dBm)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	15.97	15.98	15.93	17.0	0.0	
Channel				501500	507000	512500		Tune-up limit (dBm)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	15.93	16.10	15.92	17.0	0.0	
Channel				501000	507000	513000		Tune-up limit (dBm)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	15.89	15.97	15.94	17.0	0.0	
Channel				500500	507000	513500		Tune-up limit (dBm)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	16.04	16.16	15.90	17.0	0.0	
Channel									

n66 Main PA Ant3 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	349000	353000	19.1	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	17.90	18.00	17.83	19.1	0.0	
40	PI2 BPSK	1	108	17.88	17.94	17.98			
40	PI2 BPSK	1	214	17.80	18.04	17.80	19.1	0.0	
40	PI2 BPSK	108	0	17.93	18.06	17.80			
40	PI2 BPSK	108	54	17.92	18.01	17.96	19.1	0.0	
40	PI2 BPSK	108	108	17.98	17.93	17.98			
40	PI2 BPSK	216	0	17.88	18.05	17.94	19.1	0.0	
40	QPSK	1	1	18.01	18.06	17.99			
40	QPSK	1	108	17.94	17.96	17.92	19.1	0.0	
40	QPSK	1	214	17.97	17.93	17.99			
40	QPSK	108	0	17.96	18.00	17.81	19.1	0.0	
40	QPSK	108	54	17.81	18.05	17.87			
40	QPSK	108	108	17.86	17.97	18.01	19.1	0.0	
40	QPSK	216	0	17.90	17.98	17.94			
40	16QAM	1	1	17.83	17.96	17.87	19.1	0.0	
40	64QAM	1	1	17.96	17.99	17.96		19.1	
40	256QAM	1	1	17.82	18.04	17.83			
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	17.84	17.96	17.83	19.1	0.0	
Channel				344000	349000	354000		Tune-up limit (dBm)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	17.89	17.83	17.80	19.1	0.0	
Channel				343000	349000	354000		Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.81	17.90	17.92	19.1	0.0	
Channel				343000	349000	355000		Tune-up limit (dBm)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.89	18.01	17.97	19.1	0.0	
Channel				342600	349000	355500		Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.87	17.91	17.98	19.1	0.0	
Channel									

n38 Main PA Ant3 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				518004	519000	519996		
Frequency (MHz)				2560.02	2595	2599.98		
40	PI2 BPSK	1	1	15.49	15.39	15.36		
40	PI2 BPSK	1	53	15.47	15.45	15.46	16.7	0.0
40	PI2 BPSK	1	104	15.43	15.39	15.52		
40	PI2 BPSK	50	0	15.29	15.38	15.45	16.7	0.0
40	PI2 BPSK	50	28	15.39	15.48	15.45	16.7	0.0
40	PI2 BPSK	50	56	15.50	15.51	15.41	16.7	0.0
40	PI2 BPSK	100	0	15.34	15.41	15.44		
40	QPSK	1	1	15.49	15.60	15.51		
40	QPSK	1	53	15.46	15.56	15.42	16.7	0.0
40	QPSK	1	104	15.29	15.57	15.31		
40	QPSK	50	0	15.46	15.50	15.40	16.7	0.0
40	QPSK	50	28	15.42	15.52	15.32	16.7	0.0
40	QPSK	50	56	15.36	15.39	15.46		
40	QPSK	100	0	15.33	15.46	15.44	16.7	0.0
40	16QAM	1	1	15.35	15.45	15.42	16.7	0.0
40	64QAM	1	1	15.30	15.40	15.50	16.7	0.0
40	256QAM	1	1	15.31	15.47	15.35	16.7	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	15.45	15.49	15.51	16.7	0.0
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	15.41	15.59	15.52	16.7	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	15.43	15.39	15.52	16.7	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2570.02	2595	2614.98		
10	QPSK	1	1	15.37	15.57	15.51	16.7	0.0

n41 Main PA Ant3 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				526002	518598	526000		
Frequency (MHz)				2548.01	2562.99	2640		
100	PI2 BPSK	1	1	15.30	15.59	15.48		
100	PI2 BPSK	1	137	15.31	15.49	15.41	16.7	0.0
100	PI2 BPSK	1	271	15.32	15.49	15.59		
100	PI2 BPSK	135	0	15.43	15.48	15.45	16.7	0.0
100	PI2 BPSK	135	69	15.49	15.46	15.49	16.7	0.0
100	PI2 BPSK	135	138	15.32	15.49	15.43	16.7	0.0
100	PI2 BPSK	270	0	15.34	15.63	15.44		
100	QPSK	1	1	15.52	15.65	15.60		
100	QPSK	1	137	15.45	15.63	15.38	16.7	0.0
100	QPSK	1	271	15.44	15.49	15.59		
100	QPSK	135	0	15.44	15.55	15.39	16.7	0.0
100	QPSK	135	69	15.49	15.62	15.43	16.7	0.0
100	QPSK	135	138	15.51	15.61	15.42	16.7	0.0
100	QPSK	270	0	15.54	15.55	15.41		
100	16QAM	1	1	15.34	15.45	15.50	16.7	0.0
100	64QAM	1	1	15.41	15.55	15.59	16.7	0.0
100	256QAM	1	1	15.37	15.54	15.47	16.7	0.0
Channel				526002	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2562.99	2644.98		
90	QPSK	1	1	15.31	15.56	15.40	16.7	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2534.02	2562.99	2649.99		
80	QPSK	1	1	15.53	15.49	15.51	16.7	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2562.99	2656		
70	QPSK	1	1	15.38	15.50	15.41	16.7	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2562.99	2659.99		
60	QPSK	1	1	15.46	15.64	15.51	16.7	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2562.99	2664.99		
50	QPSK	1	1	15.53	15.49	15.48	16.7	0.0
Channel				523202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2562.99	2670		
40	QPSK	1	1	15.38	15.59	15.58	16.7	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2562.99	2674.99		
30	QPSK	1	1	15.54	15.51	15.52	16.7	0.0
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2562.99	2679.99		
20	QPSK	1	1	15.51	15.52	15.49	16.7	0.0



Reduced Power Mode for Main PA DSI3 Simultaneous

n2 Main PA 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				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.42	18.50	18.41		
20	PI2 BPSK	1	53	18.34	18.45	18.21	19.5	0.0
20	PI2 BPSK	1	104	18.34	18.55	18.39		
20	PI2 BPSK	50	0	18.28	18.56	18.34	19.5	0.0
20	PI2 BPSK	50	28	18.38	18.40	18.35	19.5	0.0
20	PI2 BPSK	50	56	18.41	18.51	18.28		
20	PI2 BPSK	100	0	18.30	18.47	18.43	19.5	0.0
20	QPSK	1	1	18.43	18.60	18.41		
20	QPSK	1	53	18.37	18.46	18.41	19.5	0.0
20	QPSK	1	104	18.34	18.45	18.27		
20	QPSK	50	0	18.31	18.50	18.25	19.5	0.0
20	QPSK	50	28	18.29	18.55	18.27	19.5	0.0
20	QPSK	50	56	18.44	18.42	18.20		
20	QPSK	100	0	18.43	18.49	18.39	19.5	0.0
20	16QAM	1	1	18.37	18.53	18.35	19.5	0.0
20	64QAM	1	1	18.26	18.42	18.31	19.5	0.0
20	256QAM	1	1	18.26	18.52	18.38	19.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1880	1902.5		
15	QPSK	1	1	18.31	18.52	18.21	19.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	18.33	18.59	18.35	19.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1886	1907.5		
5	QPSK	1	1	18.31	18.38	18.35	19.5	0.0

n5 Main PA 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				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.73	22.92	22.87		
20	PI2 BPSK	1	53	22.76	22.86	22.73	24.0	0.0
20	PI2 BPSK	1	104	22.70	22.88	22.74		
20	PI2 BPSK	50	0	22.70	22.87	22.74	24.0	0.0
20	PI2 BPSK	50	28	22.88	22.95	22.81	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.90	22.86		
20	PI2 BPSK	100	0	22.87	22.94	22.76	24.0	0.0
20	QPSK	1	1	23.31	23.34	23.12		
20	QPSK	1	53	22.62	22.62	22.75	24.0	0.0
20	QPSK	1	104	22.77	22.80	22.62		
20	QPSK	50	0	22.74	22.93	22.62	24.0	0.0
20	QPSK	50	28	23.21	23.23	23.22	24.0	0.0
20	QPSK	50	56	22.68	22.88	22.86		
20	QPSK	100	0	23.21	23.29	23.22	24.0	0.0
20	16QAM	1	1	22.83	22.98	22.89	24.0	0.0
20	64QAM	1	1	22.13	22.14	21.93	23.0	1.0
20	256QAM	1	1	19.31	19.43	19.28	21.0	3.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.19	23.08	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.11	23.25	22.94	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	23.24	23.29	23.12	24.0	0.0

n7 Main PA 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				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	17.25	17.66	17.39		
40	PI2 BPSK	1	108	17.38	17.63	17.37	18.9	0.0
40	PI2 BPSK	1	214	17.34	17.54	17.41		
40	PI2 BPSK	108	0	17.41	17.47	17.35	18.9	0.0
40	PI2 BPSK	108	54	17.24	17.65	17.54	18.9	0.0
40	PI2 BPSK	108	108	17.42	17.65	17.54		
40	PI2 BPSK	216	0	17.25	17.50	17.41	18.9	0.0
40	QPSK	1	1	17.40	17.67	17.53		
40	QPSK	1	108	17.26	17.55	17.33	18.9	0.0
40	QPSK	1	214	17.33	17.45	17.36		
40	QPSK	108	0	17.20	17.57	17.34	18.9	0.0
40	QPSK	108	54	17.21	17.60	17.41	18.9	0.0
40	QPSK	108	108	17.21	17.55	17.32	18.9	0.0
40	QPSK	216	0	17.33	17.55	17.34		
40	16QAM	1	1	17.20	17.57	17.32	18.9	0.0
40	64QAM	1	1	17.20	17.59	17.32	18.9	0.0
40	256QAM	1	1	17.34	17.56	17.55	18.9	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.33	17.50	17.34	18.9	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	17.19	17.62	17.39	18.9	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	17.26	17.52	17.45	18.9	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.29	17.45	17.52	18.9	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.40	17.56	17.52	18.9	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.24	17.49	17.49	18.9	0.0

n26 Main PA Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MidB Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	23.07	23.08	22.97		
20	PI2 BPSK	1	53	22.98	23.07	22.91		
20	PI2 BPSK	1	104	22.93	22.94	22.89	24.0	0.0
20	PI2 BPSK	50	0	23.02	23.11	23.09		
20	PI2 BPSK	50	28	23.07	23.06	22.97		
20	PI2 BPSK	50	56	22.76	22.98	22.81		
20	PI2 BPSK	100	0	23.08	23.08	23.08	24.0	0.0
20	QPSK	1	1	23.15	23.17	23.13		
20	QPSK	1	53	22.96	23.07	22.99		
20	QPSK	1	104	22.91	22.94	22.94		
20	QPSK	50	0	22.93	23.11	22.96	24.0	0.0
20	QPSK	50	28	23.12	23.15	22.91		
20	QPSK	50	56	22.84	22.98	22.77		
20	QPSK	100	0	23.05	23.10	22.94		
20	16QAM	1	1	22.72	22.76	22.62	24.0	0.0
20	64QAM	1	1	22.53	22.62	22.53		
20	256QAM	1	1	19.66	19.72	19.52		
Channel				164300	166300	168300		
Frequency (MHz)				821.5	831.5	841.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.99	23.08	23.14	24.0	0.0
Channel				163500	165300	166900		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.12	23.16	23.05		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	23.02	23.05	22.93		

n66 Main PA 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				346000	349000	350000	18.4	0.0
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	16.95	17.00	16.97		
40	PI2 BPSK	1	108	17.14	17.08	16.92		
40	PI2 BPSK	1	214	17.17	17.10	17.03	18.4	0.0
40	PI2 BPSK	108	0	16.95	17.04	17.06		
40	PI2 BPSK	108	54	17.02	17.08	16.90		
40	PI2 BPSK	108	108	17.05	17.12	16.94		
40	PI2 BPSK	216	0	17.11	17.15	17.02	18.4	0.0
40	QPSK	1	1	17.16	17.18	17.11		
40	QPSK	1	108	17.17	17.14	16.95		
40	QPSK	1	214	17.11	17.17	17.00		
40	QPSK	108	0	17.10	17.09	17.05	18.4	0.0
40	QPSK	108	54	17.09	17.15	16.89		
40	QPSK	108	108	17.10	17.13	17.02		
40	QPSK	216	0	17.11	17.12	16.92		
40	16QAM	1	1	16.99	17.06	17.00	18.4	0.0
40	64QAM	1	1	17.12	17.10	16.97		
40	256QAM	1	1	17.14	17.16	17.02		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	18.4	0.0
30	QPSK	1	1	17.07	17.03	16.90		
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	17.14	17.13	17.11	18.4	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	17.06	16.99	17.11		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	18.4	0.0
10	QPSK	1	1	17.16	17.00	17.04		
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.03	16.97	17.03	18.4	0.0

n38 Main PA 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				518004	519000	519996	20.3	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.01	19.43	19.23	20.3	0.0	
40	PI/2 BPSK	1	53	19.17	19.38	19.21			
40	PI/2 BPSK	1	104	19.22	19.26	19.14	20.3	0.0	
40	PI/2 BPSK	50	0	19.01	19.29	19.09			
40	PI/2 BPSK	50	28	19.09	19.34	19.10	20.3	0.0	
40	PI/2 BPSK	50	56	19.04	19.30	19.11			
40	PI/2 BPSK	100	0	19.06	19.33	19.21	20.3	0.0	
40	QPSK	1	1	19.22	19.44	19.31			
40	QPSK	1	53	19.06	19.32	19.17	20.3	0.0	
40	QPSK	1	104	19.07	19.33	19.11			
40	QPSK	50	0	19.11	19.38	19.23	20.3	0.0	
40	QPSK	50	28	19.04	19.42	19.10			
40	QPSK	80	56	19.06	19.35	19.25	20.3	0.0	
40	QPSK	100	0	19.07	19.40	19.23			
40	16QAM	1	1	19.03	19.22	19.31	20.3	0.0	
40	64QAM	1	1	19.19	19.26	19.27			
40	256QAM	1	1	17.50	17.77	17.37	18.8	1.5	
Channel				517002	519000	520998	20.3	MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.07	19.33	19.21	20.3	0.0	
Channel				516000	519000	520000	20.3	MPR	
Frequency (MHz)				2530	2595	2610			
20	QPSK	1	1	19.07	19.30	19.31	20.3	0.0	
Channel				515502	519000	520498	20.3	MPR	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.04	19.32	19.13	20.3	0.0	
Channel				515004	519000	520998	20.3	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.09	19.23	19.17	20.3	0.0	

n41 Main PA 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				506202	518998	520000	20.3	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.04	19.40	19.14	20.3	0.0	
100	PI/2 BPSK	1	137	19.10	19.35	19.14			
100	PI/2 BPSK	1	271	19.19	19.43	19.94	20.3	0.0	
100	PI/2 BPSK	135	0	19.09	19.44	19.98			
100	PI/2 BPSK	135	69	19.21	19.36	19.01	20.3	0.0	
100	PI/2 BPSK	135	138	19.11	19.30	19.99			
100	PI/2 BPSK	270	0	18.99	19.35	19.09	20.3	0.0	
100	QPSK	1	1	19.19	19.46	19.16			
100	QPSK	1	137	19.59	19.44	19.06	20.3	0.0	
100	QPSK	1	271	19.07	19.31	18.96			
100	QPSK	135	0	19.03	19.40	19.15	20.3	0.0	
100	QPSK	135	69	18.97	19.42	19.09			
100	QPSK	135	138	19.05	19.35	19.15	20.3	0.0	
100	QPSK	270	0	19.19	19.38	18.97			
100	16QAM	1	1	19.02	19.42	19.04	20.3	0.0	
100	64QAM	1	1	18.99	19.37	18.98			
100	256QAM	1	1	19.18	19.47	19.00	20.3	0.0	
Channel				502000	518998	520998	20.3	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.11	19.45	19.13	20.3	0.0	
Channel				507204	518998	520998	20.3	MPR	
Frequency (MHz)				2530.02	2592.99	2649.99			
80	QPSK	1	1	19.10	19.30	19.13	20.3	0.0	
Channel				506202	518998	520000	20.3	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.01	19.39	19.16	20.3	0.0	
Channel				505200	518998	520998	20.3	MPR	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	18.97	19.33	19.09	20.3	0.0	
Channel				504204	518998	520998	20.3	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.01	19.26	18.98	20.3	0.0	
Channel				503202	518998	520000	20.3	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.18	19.45	19.03	20.3	0.0	
Channel				502200	518998	520998	20.3	MPR	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	19.17	19.27	19.05	20.3	0.0	
Channel				501204	518998	520998	20.3	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.15	19.26	18.96	20.3	0.0	

n2 Main PA Ant1 DS13 Simultaneous

BW (MHz)	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	14.2	0.0
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	13.06	13.13	12.92		
20	PI2 BPSK	1	53	12.96	13.10	12.84		
20	PI2 BPSK	1	104	13.16	13.26	12.96	14.2	0.0
20	PI2 BPSK	50	0	13.03	13.26	12.95		
20	PI2 BPSK	50	28	13.25	13.14	13.01		
20	PI2 BPSK	50	56	13.23	13.21	12.92		
20	PI2 BPSK	100	0	13.14	13.16	13.09	14.2	0.0
20	QPSK	1	1	13.14	13.31	13.01		
20	QPSK	1	53	13.14	13.21	13.05		
20	QPSK	1	104	13.24	13.06	13.05		
20	QPSK	50	0	13.18	13.01	13.12	14.2	0.0
20	QPSK	50	28	13.03	13.21	13.14		
20	QPSK	50	56	13.15	12.93	13.16		
20	QPSK	100	0	12.99	13.15	13.03		
20	16QAM	1	1	13.08	13.07	12.79	14.2	0.0
20	64QAM	1	1	13.12	13.17	13.10		
20	256QAM	1	1	13.11	13.12	13.05		
Channel				371500	376000	376500		
Frequency (MHz)				1857.5	1860	1902.5	14.2	0.0
15	QPSK	1	1	12.97	13.15	13.04		
Channel				371000	376000	381000		
Frequency (MHz)				1905	1900	1905		
10	QPSK	1	1	12.96	13.09	13.01	14.2	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1892.5	1880	1907.5		
5	QPSK	1	1	13.12	13.27	13.14		

n5 Main PA Ant1 DS13 Simultaneous

BW (MHz)	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	22.1	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	20.52	20.67	20.34		
20	PI2 BPSK	1	53	20.60	20.63	20.31		
20	PI2 BPSK	1	104	20.44	20.59	20.40	22.1	0.0
20	PI2 BPSK	50	0	20.40	20.67	20.50		
20	PI2 BPSK	50	28	20.46	20.48	20.43		
20	PI2 BPSK	50	56	20.51	20.56	20.47		
20	PI2 BPSK	100	0	20.43	20.66	20.46	22.1	0.0
20	QPSK	1	1	20.54	20.73	20.62		
20	QPSK	1	53	20.42	20.63	20.37		
20	QPSK	1	104	20.57	20.61	20.43		
20	QPSK	50	0	20.57	20.61	20.58	22.1	0.0
20	QPSK	50	28	20.57	20.71	20.36		
20	QPSK	50	56	20.47	20.61	20.51		
20	QPSK	100	0	20.42	20.66	20.35		
20	16QAM	1	1	20.58	20.69	20.40	22.1	0.0
20	64QAM	1	1	20.43	20.56	20.44		
20	256QAM	1	1	19.10	19.12	19.08		
Channel				165300	167200	168300		
Frequency (MHz)				831.5	836.5	841.5	22.1	0.0
15	QPSK	1	1	20.46	20.61	20.39		
Channel				165800	167300	168800		
Frequency (MHz)				829	826.5	844		
10	QPSK	1	1	20.52	20.58	20.31	22.1	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	20.51	20.67	20.34		



n7 Main PA Ant1 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				598500	597000	510000	18.6	0.0	
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	17.25	17.56	17.44	18.6	0.0	
40	P12 BPSK	1	108	17.51	17.42	17.45			
40	P12 BPSK	1	214	17.55	17.52	17.51	18.6	0.0	
40	P12 BPSK	108	0	17.36	17.47	17.60			
40	P12 BPSK	108	54	17.26	17.48	17.46	18.6	0.0	
40	P12 BPSK	108	108	17.33	17.36	17.39			
40	P12 BPSK	216	0	17.30	17.35	17.48	18.6	0.0	
40	QPSK	1	1	17.54	17.62	17.44			
40	QPSK	1	108	17.26	17.48	17.50	18.6	0.0	
40	QPSK	1	214	17.20	17.56	17.54			
40	QPSK	108	0	17.31	17.50	17.35	18.6	0.0	
40	QPSK	108	54	17.55	17.61	17.46			
40	QPSK	108	108	17.21	17.41	17.39	18.6	0.0	
40	QPSK	216	0	17.38	17.60	17.56			
40	16QAM	1	1	17.42	17.37	17.37	18.6	0.0	
40	64QAM	1	1	17.29	17.49	17.54			
40	256QAM	1	1	17.24	17.33	17.57	18.6	0.0	
Channel				502000	507000	511000			
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm)	MPR	(dB)
30	QPSK	1	1	17.33	17.40	17.38	18.6	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5	Tune-up limit (dBm)	MPR	(dB)
20	QPSK	1	1	17.24	17.26	17.25	18.6	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560	Tune-up limit (dBm)	MPR	(dB)
20	P12 BPSK	1	1	17.26	17.40	17.42	18.6	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR	(dB)
15	QPSK	1	1	17.31	17.39	17.42	18.6	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR	(dB)
10	QPSK	1	1	17.22	17.54	17.50	18.6	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR	(dB)
5	QPSK	1	1	17.25	17.35	17.28	18.6	0.0	
Channel									

n26 Main PA Ant1 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	163300	167800	22.1	0.0	
Frequency (MHz)				824	831.5	839			
20	P12 BPSK	1	1	20.64	20.67	20.35	22.1	0.0	
20	P12 BPSK	1	53	20.49	20.56	20.28			
20	P12 BPSK	1	104	20.54	20.58	20.51	22.1	0.0	
20	P12 BPSK	50	0	20.34	20.74	20.40			
20	P12 BPSK	50	28	20.52	20.37	20.36	22.1	0.0	
20	P12 BPSK	50	56	20.48	20.64	20.39			
20	P12 BPSK	100	0	20.52	20.58	20.57	22.1	0.0	
20	QPSK	1	1	20.66	20.75	20.61			
20	QPSK	1	53	20.38	20.72	20.31	22.1	0.0	
20	QPSK	1	104	20.56	20.54	20.33			
20	QPSK	50	0	20.57	20.63	20.47	22.1	0.0	
20	QPSK	50	28	20.55	20.65	20.31			
20	QPSK	50	56	20.57	20.63	20.50	22.1	0.0	
20	QPSK	100	0	20.63	20.60	20.44			
20	16QAM	1	1	20.48	20.58	20.38	22.1	0.0	
20	64QAM	1	1	20.52	20.63	20.49			
20	256QAM	1	1	19.56	19.61	19.21	21.1	1.0	
Channel				164300	163800	167300			
Frequency (MHz)				821.5	831.5	841.5	Tune-up limit (dBm)	MPR	(dB)
15	QPSK	1	1	20.45	20.66	20.40	22.1	0.0	
Channel				163800	166300	168800			
Frequency (MHz)				810	813.5	844	Tune-up limit (dBm)	MPR	(dB)
10	QPSK	1	1	20.49	20.74	20.55	22.1	0.0	
Channel				163300	166300	169300			
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dBm)	MPR	(dB)
5	QPSK	1	1	20.37	20.72	20.52	22.1	0.0	
Channel									

n66 Main PA Ant1 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	353000	15.3	0.0	
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	13.77	13.83	13.68	15.3	0.0	
40	P12 BPSK	1	108	13.73	13.84	13.58			
40	P12 BPSK	1	214	13.83	13.89	13.70	15.3	0.0	
40	P12 BPSK	108	0	13.80	13.58	13.57			
40	P12 BPSK	108	54	13.71	13.83	13.49	15.3	0.0	
40	P12 BPSK	108	108	13.61	13.92	13.83			
40	P12 BPSK	216	0	13.67	13.79	13.65	15.3	0.0	
40	QPSK	1	1	13.76	13.96	13.84			
40	QPSK	1	108	13.75	13.90	13.71	15.3	0.0	
40	QPSK	1	214	13.49	13.68	13.70			
40	QPSK	108	0	13.65	13.87	13.53	15.3	0.0	
40	QPSK	108	54	13.76	13.97	13.75			
40	QPSK	108	108	13.70	13.84	13.46	15.3	0.0	
40	QPSK	216	0	13.65	13.86	13.82			
40	16QAM	1	1	13.70	13.61	13.57	15.3	0.0	
40	64QAM	1	1	13.76	13.71	13.68			
40	256QAM	1	1	13.74	13.92	13.77	15.3	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765	Tune-up limit (dBm)	MPR	(dB)
30	QPSK	1	1	13.67	13.66	13.63	15.3	0.0	
Channel				344000	349000	354000			
Frequency (MHz)				1720	1745	1770	Tune-up limit (dBm)	MPR	(dB)
20	QPSK	1	1	13.55	13.62	13.70	15.3	0.0	
Channel				343000	349000	354000			
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR	(dB)
15	QPSK	1	1	13.62	13.60	13.66	15.3	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1714.5	1745	1775	Tune-up limit (dBm)	MPR	(dB)
10	QPSK	1	1	13.58	13.78	13.57	16.3	0.0	
Channel				342600	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR	(dB)
5	QPSK	1	1	13.59	13.70	13.67	15.3	0.0	
Channel									

n38 Main PA Ant1 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	17.15	17.29	17.22			
40	PI2 BPSK	1	53	17.07	17.43	17.21	18.5	0.0	
40	PI2 BPSK	1	104	16.96	17.27	17.22			
40	PI2 BPSK	50	0	17.16	17.38	17.15	18.5	0.0	
40	PI2 BPSK	50	28	17.26	17.44	17.14	18.5	0.0	
40	PI2 BPSK	50	56	17.15	17.29	17.08	18.5	0.0	
40	PI2 BPSK	100	0	17.05	17.18	17.18			
40	QPSK	1	1	17.44	17.51	17.31			
40	QPSK	1	53	17.18	17.46	17.33	18.5	0.0	
40	QPSK	1	104	17.13	17.21	17.13			
40	QPSK	50	0	17.15	17.21	17.16	18.5	0.0	
40	QPSK	50	28	17.37	17.48	17.25	18.5	0.0	
40	QPSK	50	56	17.17	17.33	17.26	18.5	0.0	
40	QPSK	100	0	17.26	17.42	17.35			
40	16QAM	1	1	17.04	17.31	17.04	18.5	0.0	
40	64QAM	1	1	17.28	17.46	17.12	18.5	0.0	
40	256QAM	1	1	17.09	17.32	17.00	18.5	0.0	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	17.15	17.31	17.04	18.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	17.11	17.30	17.03	18.5	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	17.02	17.31	17.00	18.5	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2576.02	2595	2614.98			
10	QPSK	1	1	17.10	17.39	16.95	18.5	0.0	

n41 Main PA Ant1 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526002	518598	526000			
Frequency (MHz)				2548.01	2562.99	2640			
100	PI2 BPSK	1	1	17.51	17.44	17.46			
100	PI2 BPSK	1	137	17.37	17.52	17.43	18.5	0.0	
100	PI2 BPSK	1	274	17.36	17.54	17.45			
100	PI2 BPSK	135	0	17.28	17.44	17.38	18.5	0.0	
100	PI2 BPSK	135	69	17.36	17.53	17.45	18.5	0.0	
100	PI2 BPSK	135	138	17.38	17.59	17.40	18.5	0.0	
100	PI2 BPSK	270	0	17.48	17.33	17.22			
100	QPSK	1	1	17.58	17.61	17.56			
100	QPSK	1	137	17.44	17.54	17.30	18.5	0.0	
100	QPSK	1	274	17.30	17.58	17.22			
100	QPSK	135	0	17.34	17.38	17.25	18.5	0.0	
100	QPSK	135	69	17.35	17.58	17.33	18.5	0.0	
100	QPSK	135	138	17.35	17.38	17.34	18.5	0.0	
100	QPSK	270	0	17.38	17.48	17.40			
100	16QAM	1	1	17.52	17.58	17.21	18.5	0.0	
100	64QAM	1	1	17.30	17.39	17.49	18.5	0.0	
100	256QAM	1	1	17.33	17.40	17.56	18.5	0.0	
Channel				526200	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98			
90	QPSK	1	1	17.37	17.37	17.24	18.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2562.99	2649.99			
80	QPSK	1	1	17.29	17.49	17.41	18.5	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2562.99	2655			
70	QPSK	1	1	17.42	17.40	17.35	18.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2562.99	2659.99			
60	QPSK	1	1	17.42	17.52	17.21	18.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	17.34	17.44	17.21	18.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670			
40	QPSK	1	1	17.29	17.42	17.28	18.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.99			
30	QPSK	1	1	17.23	17.49	17.34	18.5	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.99			
20	QPSK	1	1	17.42	17.36	17.39	18.5	0.0	



n2 Main PA 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				372500	370500	380000	23.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PV2 BPSK	1	1	22.12	22.29	22.31		
20	PV2 BPSK	1	53	22.26	22.32	22.25		
20	PV2 BPSK	1	104	22.19	22.21	22.01	23.0	0.0
20	PV2 BPSK	50	0	22.31	22.32	22.30	23.0	0.0
20	PV2 BPSK	50	28	22.16	22.29	22.14	23.0	0.0
20	PV2 BPSK	50	56	22.12	22.20	22.11	23.0	0.0
20	PV2 BPSK	100	0	22.29	22.32	22.21	23.0	0.0
20	QPSK	1	1	22.32	22.34	22.19	23.0	0.0
20	QPSK	1	53	22.33	22.32	22.32		
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04		
20	QPSK	50	28	22.23	22.29	22.12	23.0	0.0
20	QPSK	50	56	22.14	22.21	22.14	23.0	0.0
20	QPSK	100	0	22.22	22.27	22.06	23.0	0.0
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	64QAM	1	1	21.74	21.73	21.71	22.0	1.0
20	256QAM	1	1	19.00	19.09	18.90	20.0	3.0
Channel				371500	370000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1902.5	23.0	0.0
15	QPSK	1	1	22.20	22.28	22.09	23.0	0.0
Channel				371000	370000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1900	1905	23.0	0.0
10	QPSK	1	1	22.13	22.25	22.06	23.0	0.0
Channel				370500	370000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5	23.0	0.0
5	QPSK	1	1	22.32	22.14	22.14	23.0	0.0

n7 Main PA Ant2 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				504000	507000	510000	20.8	0.0
Frequency (MHz)				2520	2535	2550		
40	PV2 BPSK	1	1	18.92	18.89	18.83		
40	PV2 BPSK	1	108	18.82	18.92	18.90		
40	PV2 BPSK	1	214	18.92	18.89	18.99	20.8	0.0
40	PV2 BPSK	108	0	18.93	18.94	18.84	20.8	0.0
40	PV2 BPSK	108	54	18.89	18.94	18.89	20.8	0.0
40	PV2 BPSK	108	108	18.89	18.84	18.87	20.8	0.0
40	PV2 BPSK	216	0	18.81	18.85	18.94	20.8	0.0
40	QPSK	1	1	18.91	18.95	18.94	20.8	0.0
40	QPSK	1	108	18.93	18.92	18.89		
40	QPSK	1	214	18.91	18.87	18.91		
40	QPSK	108	0	18.90	18.83	18.90		
40	QPSK	108	54	18.84	18.94	18.82	20.8	0.0
40	QPSK	108	108	18.89	18.91	18.92	20.8	0.0
40	QPSK	216	0	18.81	18.84	18.82	20.8	0.0
40	16QAM	1	1	18.94	18.85	18.82	20.8	0.0
40	64QAM	1	1	18.92	18.91	18.84	20.8	0.0
40	256QAM	1	1	18.84	18.94	18.84	20.8	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	20.8	0.0
30	QPSK	1	1	18.89	18.84	18.87	20.8	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	20.8	0.0
25	QPSK	1	1	18.81	18.93	18.80	20.8	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	20.8	0.0
20	PV2 BPSK	1	1	18.92	18.84	18.92	20.8	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	20.8	0.0
15	QPSK	1	1	18.92	18.89	18.84	20.8	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	20.8	0.0
10	QPSK	1	1	18.92	18.84	18.92	20.8	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	20.8	0.0
5	QPSK	1	1	18.92	18.94	18.89	20.8	0.0

n66 Main PA 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				346000	348000	352000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	22.01	22.01	21.98		
40	PV2 BPSK	1	108	21.78	21.87	21.85		
40	PV2 BPSK	1	214	21.87	21.84	21.75	23.0	0.0
40	PV2 BPSK	108	0	21.76	21.98	21.99	23.0	0.0
40	PV2 BPSK	108	54	21.69	21.89	21.78	23.0	0.0
40	PV2 BPSK	108	108	21.67	21.88	21.90	23.0	0.0
40	PV2 BPSK	216	0	21.73	21.94	21.91	23.0	0.0
40	QPSK	1	1	22.04	22.25	22.01	23.0	0.0
40	QPSK	1	108	21.73	21.76	21.71		
40	QPSK	1	214	21.78	21.87	21.71		
40	QPSK	108	0	21.98	21.98	21.86		
40	QPSK	108	54	21.81	22.06	21.91	23.0	0.0
40	QPSK	108	108	21.76	21.95	21.88	23.0	0.0
40	QPSK	216	0	21.97	22.04	21.92	23.0	0.0
40	16QAM	1	1	21.74	21.91	21.85	23.0	0.0
40	64QAM	1	1	21.02	21.18	21.08	22.0	1.0
40	256QAM	1	1	18.85	18.99	18.86	20.0	3.0
Channel				345000	348000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	21.94	22.09	22.02	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	23.0	0.0
20	QPSK	1	1	21.89	22.07	21.90	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	21.83	22.19	22.03	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	21.87	22.16	21.93	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	21.90	22.01	21.84	23.0	0.0

n38 Main PA 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				516004	516000	516996			
Frequency (MHz)				2580.02	2595	2599.98			
40	PI2 BPSK	1	1	18.73	18.69	18.69	20.3	0.0	
40	PI2 BPSK	1	53	18.62	18.71	18.57			
40	PI2 BPSK	1	104	18.71	18.88	18.71			
40	PI2 BPSK	50	0	18.60	18.82	18.69			
40	PI2 BPSK	50	28	18.64	18.86	18.64	20.3	0.0	
40	PI2 BPSK	50	56	18.58	18.77	18.63	20.3	0.0	
40	PI2 BPSK	100	0	18.71	18.70	18.52	20.3	0.0	
40	QPSK	1	1	18.75	18.90	18.72			
40	QPSK	1	53	18.72	18.84	18.67			
40	QPSK	1	104	18.65	18.71	18.72			
40	QPSK	50	0	18.67	18.84	18.56	20.3	0.0	
40	QPSK	50	28	18.75	18.83	18.54	20.3	0.0	
40	QPSK	50	56	18.75	18.83	18.73	20.3	0.0	
40	QPSK	100	0	18.58	18.79	18.56	20.3	0.0	
40	16QAM	1	1	18.69	18.83	18.53			
40	64QAM	1	1	18.71	18.87	18.70			
40	256QAM	1	1	18.89	17.04	17.01	18.3	2.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99	Tune-up limit	MPR	
30	QPSK	1	1	18.71	18.70	18.52	20.3	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2590	2595	2610	Tune-up limit	MPR	
20	QPSK	1	1	18.68	18.78	18.72	20.3	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	Tune-up limit	MPR	
15	QPSK	1	1	18.75	18.73	18.61	20.3	0.0	
Channel				515004	519000	522096			
Frequency (MHz)				2570.02	2595	2614.98	Tune-up limit	MPR	
10	QPSK	1	1	18.55	18.84	18.64	20.3	0.0	

n41 Main PA 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				526002	518598	526000					
Frequency (MHz)				2546.01	2562.99	2640					
100	PI2 BPSK	1	1	18.75	18.80	18.85	20.3	0.0			
100	PI2 BPSK	1	137	18.75	18.86	18.71					
100	PI2 BPSK	1	274	18.60	18.77	18.65					
100	PI2 BPSK	135	0	18.57	18.82	18.64					
100	PI2 BPSK	135	69	18.62	18.90	18.80	20.3	0.0			
100	PI2 BPSK	135	138	18.71	18.93	18.84	20.3	0.0			
100	PI2 BPSK	270	0	18.60	18.83	18.73	20.3	0.0			
100	QPSK	1	1	18.76	18.95	18.84					
100	QPSK	1	137	18.58	18.92	18.84					
100	QPSK	1	274	18.73	18.85	18.79					
100	QPSK	135	0	18.67	18.92	18.69	20.3	0.0			
100	QPSK	135	69	18.60	18.89	18.86	20.3	0.0			
100	QPSK	135	138	18.74	18.92	18.73	20.3	0.0			
100	QPSK	270	0	18.76	18.86	18.66	20.3	0.0			
100	16QAM	1	1	18.62	18.80	18.68					
100	64QAM	1	1	18.67	18.92	18.75					
100	256QAM	1	1	18.77	18.83	18.70	20.3	0.0			
Channel				526200	518598	526998					
Frequency (MHz)				2541	2562.99	2644.98					
90	QPSK	1	1	18.56	18.90	18.78	20.3	0.0			
Channel				507202	518598	529998					
Frequency (MHz)				2534.02	2562.99	2649.99					
80	QPSK	1	1	18.70	18.91	18.77	20.3	0.0			
Channel				506202	518598	531000					
Frequency (MHz)				2631.01	2562.99	2656					
70	QPSK	1	1	18.59	18.81	18.66	20.3	0.0			
Channel				505200	518598	531996					
Frequency (MHz)				2626	2562.99	2659.99					
60	QPSK	1	1	18.68	18.85	18.84	20.3	0.0			
Channel				504204	518598	532998					
Frequency (MHz)				2521.02	2562.99	2664.99					
50	QPSK	1	1	18.58	18.75	18.76	20.3	0.0			
Channel				525202	518598	534000					
Frequency (MHz)				2516.01	2562.99	2670					
40	QPSK	1	1	18.71	18.92	18.72	20.3	0.0			
Channel				502200	518598	534996					
Frequency (MHz)				2511	2562.99	2674.98					
30	QPSK	1	1	18.65	18.77	18.66	20.3	0.0			
Channel				501204	518598	535996					
Frequency (MHz)				2506.02	2562.99	2679.99					
20	QPSK	1	1	18.60	18.84	18.65	20.3	0.0			



n2 Main PA Ant3 DS3 Simultaneous									
BW [MHz]	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	21.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PV2 BPSK	1	1	19.84	19.66	19.51			
20	PV2 BPSK	1	53	19.83	19.73	19.61			
20	PV2 BPSK	1	104	19.68	19.63	19.58	21.0	0.0	
20	PV2 BPSK	50	0	19.49	19.82	19.64	21.0	0.0	
20	PV2 BPSK	50	28	19.54	19.67	19.64	21.0	0.0	
20	PV2 BPSK	50	58	19.63	19.63	19.42	21.0	0.0	
20	PV2 BPSK	100	0	19.58	19.49	19.71	21.0	0.0	
20	QPSK	1	1	19.79	19.86	19.76			
20	QPSK	1	53	19.67	19.47	19.61			
20	QPSK	1	104	19.61	19.73	19.56			
20	QPSK	50	0	19.78	19.57	19.48	21.0	0.0	
20	QPSK	50	28	19.76	19.81	19.69	21.0	0.0	
20	QPSK	50	58	19.56	19.58	19.38	21.0	0.0	
20	QPSK	100	0	19.65	19.75	19.76	21.0	0.0	
20	16QAM	1	1	19.64	19.80	19.52			
20	64QAM	1	1	19.77	19.74	19.74			
20	256QAM	1	1	19.66	19.66	19.41			
Channel				371500	376000	380500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1867.5	1880	1902.5	21.0	0.0	
15	QPSK	1	1	19.74	19.61	19.61			
Channel				371000	376000	381000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1905	1900	1905	21.0	0.0	
10	QPSK	1	1	19.56	19.66	19.56			
Channel				375500	376000	381500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	19.59	19.54	19.69	21.0	0.0	

n7 Main PA Ant3 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	20.1	0.0	
Frequency (MHz)				2520	2535	2550			
40	PV2 BPSK	1	1	18.50	18.60	18.59			
40	PV2 BPSK	1	108	18.69	18.73	18.52			
40	PV2 BPSK	1	214	18.58	18.66	18.66	20.1	0.0	
40	PV2 BPSK	108	0	18.58	18.67	18.55			
40	PV2 BPSK	108	54	18.71	18.66	18.72			
40	PV2 BPSK	108	108	18.71	18.77	18.56			
40	PV2 BPSK	216	0	18.48	18.48	18.61	20.1	0.0	
40	QPSK	1	1	18.72	18.86	18.67			
40	QPSK	1	108	18.67	18.57	18.54			
40	QPSK	1	214	18.51	18.62	18.68			
40	QPSK	108	0	18.77	18.56	18.74	20.1	0.0	
40	QPSK	108	54	18.65	18.85	18.64	20.1	0.0	
40	QPSK	108	108	18.65	18.65	18.56	20.1	0.0	
40	QPSK	216	0	18.68	18.78	18.65	20.1	0.0	
40	16QAM	1	1	18.60	18.58	18.52			
40	64QAM	1	1	18.51	18.83	18.54			
40	256QAM	1	1	18.78	18.74	18.45			
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	20.1	0.0	
30	QPSK	1	1	18.55	18.60	18.69			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	20.1	0.0	
25	QPSK	1	1	18.41	18.69	18.50			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	20.1	0.0	
20	PV2 BPSK	1	1	18.43	18.50	18.71			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	20.1	0.0	
15	QPSK	1	1	18.35	18.66	18.61			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	20.1	0.0	
10	QPSK	1	1	18.42	18.51	18.75			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	20.1	0.0	
5	QPSK	1	1	18.57	18.66	18.76			

n66 Main PA Ant3 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000	21.1	0.0	
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	20.05	19.96	20.03			
40	PV2 BPSK	1	108	19.75	20.05	19.81			
40	PV2 BPSK	1	214	19.94	20.05	19.92	21.1	0.0	
40	PV2 BPSK	108	0	20.08	19.91	19.89	21.1	0.0	
40	PV2 BPSK	108	54	19.76	20.02	19.88	21.1	0.0	
40	PV2 BPSK	108	108	19.93	20.15	19.83	21.1	0.0	
40	PV2 BPSK	216	0	20.00	20.06	19.91	21.1	0.0	
40	QPSK	1	1	20.06	20.22	20.16			
40	QPSK	1	108	19.86	20.12	19.97			
40	QPSK	1	214	20.02	19.93	19.78			
40	QPSK	108	0	19.99	19.93	19.87	21.1	0.0	
40	QPSK	108	54	19.95	20.11	20.05	21.1	0.0	
40	QPSK	108	108	20.02	20.10	19.99	21.1	0.0	
40	QPSK	216	0	20.08	20.12	19.74	21.1	0.0	
40	16QAM	1	1	19.71	20.06	19.74			
40	64QAM	1	1	19.94	20.15	19.81			
40	256QAM	1	1	19.82	20.02	19.95			
Channel				345500	348000	350500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	21.1	0.0	
30	QPSK	1	1	20.10	20.08	19.70			
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	21.1	0.0	
20	QPSK	1	1	20.11	19.99	19.83			
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	21.1	0.0	
15	QPSK	1	1	19.95	20.10	19.71			
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	21.1	0.0	
10	QPSK	1	1	20.11	20.07	19.70			
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	21.1	0.0	
5	QPSK	1	1	20.07	20.02	19.86			

n38 Main PA Ant3 DSI3 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2560.02	2595	2599.98		
40	PI2 BPSK	1	1	18.49	18.41	18.18		
40	PI2 BPSK	1	53	18.53	18.55	18.43	20.0	0.0
40	PI2 BPSK	1	104	18.38	18.48	18.30		
40	PI2 BPSK	50	0	18.38	18.38	18.38	20.0	0.0
40	PI2 BPSK	50	28	18.35	18.62	18.40	20.0	0.0
40	PI2 BPSK	50	56	18.21	18.63	18.32	20.0	0.0
40	PI2 BPSK	100	0	18.42	18.38	18.47		
40	QPSK	1	1	18.82	18.70	18.65		
40	QPSK	1	53	18.28	18.65	18.31	20.0	0.0
40	QPSK	1	104	18.44	18.57	18.34		
40	QPSK	50	0	18.24	18.61	18.37	20.0	0.0
40	QPSK	50	28	18.40	18.87	18.42	20.0	0.0
40	QPSK	50	56	18.36	18.34	18.23	20.0	0.0
40	QPSK	100	0	18.34	18.64	18.41		
40	16QAM	1	1	18.34	18.52	18.37	20.0	0.0
40	64QAM	1	1	18.49	18.43	18.19	20.0	0.0
40	256QAM	1	1	18.52	18.39	18.29	20.0	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	18.34	18.67	18.41	20.0	0.0
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2720	2795	2810		
20	QPSK	1	1	18.24	18.58	18.35	20.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	18.28	18.54	18.50	20.0	0.0
Channel				515004	519000	522096	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2576.02	2595	2614.98		
10	QPSK	1	1	18.36	18.63	18.31	20.0	0.0

n41 Main PA Ant3 DSI3 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				526002	518598	526000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	18.12	18.06	18.22		
100	PI2 BPSK	1	137	18.40	18.61	18.05	20.0	0.0
100	PI2 BPSK	1	271	18.23	18.43	18.08		
100	PI2 BPSK	135	0	18.36	18.62	18.09	20.0	0.0
100	PI2 BPSK	135	69	18.21	18.67	18.03	20.0	0.0
100	PI2 BPSK	135	138	18.27	18.68	18.16	20.0	0.0
100	PI2 BPSK	270	0	18.14	18.51	18.32		
100	QPSK	1	1	18.38	18.72	18.28		
100	QPSK	1	137	18.30	18.50	18.22	20.0	0.0
100	QPSK	1	271	18.27	18.70	18.13		
100	QPSK	135	0	18.31	18.62	18.10	20.0	0.0
100	QPSK	135	69	18.34	18.68	18.37	20.0	0.0
100	QPSK	135	138	18.11	18.59	18.37	20.0	0.0
100	QPSK	270	0	18.29	18.67	18.01		
100	16QAM	1	1	18.30	18.70	18.16	20.0	0.0
100	64QAM	1	1	18.21	18.48	18.06	20.0	0.0
100	256QAM	1	1	18.31	18.54	18.22	20.0	0.0
Channel				526002	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.46	18.42	18.19	20.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	18.42	18.62	18.13	20.0	0.0
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2656		
70	QPSK	1	1	18.41	18.40	18.06	20.0	0.0
Channel				508200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2628	2592.99	2659.99		
60	QPSK	1	1	18.41	18.51	18.08	20.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.43	18.49	18.02	20.0	0.0
Channel				525202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	18.43	18.51	18.09	20.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.25	18.63	18.08	20.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.99		
20	QPSK	1	1	18.41	18.44	18.11	20.0	0.0



Reduced Power Mode for Main PA DSI3

n2 Main PA Ant0 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.42	18.50	18.41	19.5	0.0
20	PI2 BPSK	1	53	18.34	18.45	18.21		
20	PI2 BPSK	1	104	18.34	18.55	18.39		
20	PI2 BPSK	50	0	18.28	18.56	18.34	19.5	0.0
20	PI2 BPSK	50	28	18.38	18.40	18.35	19.5	0.0
20	PI2 BPSK	50	56	18.41	18.51	18.28	19.5	0.0
20	PI2 BPSK	100	0	18.30	18.47	18.43	19.5	0.0
20	QPSK	1	1	18.43	18.60	18.41	19.5	0.0
20	QPSK	1	53	18.37	18.46	18.41		
20	QPSK	1	104	18.34	18.45	18.27		
20	QPSK	50	0	18.31	18.50	18.25	19.5	0.0
20	QPSK	50	28	18.29	18.55	18.27	19.5	0.0
20	QPSK	50	56	18.44	18.42	18.20	19.5	0.0
20	QPSK	100	0	18.43	18.49	18.39	19.5	0.0
20	16QAM	1	1	18.37	18.53	18.35	19.5	0.0
20	64QAM	1	1	18.26	18.42	18.31	19.5	0.0
20	256QAM	1	1	18.26	18.52	18.38	19.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.31	18.52	18.21	19.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	18.33	18.59	18.35	19.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.31	18.38	18.35	19.5	0.0

n5 Main PA Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
20	PI2 BPSK	1	1	166800	167300	167800		
20	PI2 BPSK	1	1	834	836.5	839		
20	PI2 BPSK	1	1	22.73	22.92	22.87	24.0	0.0
20	PI2 BPSK	1	53	22.76	22.88	22.73		
20	PI2 BPSK	1	104	22.70	22.88	22.74		
20	PI2 BPSK	50	0	22.70	22.87	22.74	24.0	0.0
20	PI2 BPSK	50	28	22.88	22.95	22.81	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.90	22.88	24.0	0.0
20	PI2 BPSK	100	0	22.87	22.94	22.76	24.0	0.0
20	QPSK	1	1	23.31	23.34	23.12	24.0	0.0
20	QPSK	1	53	22.82	22.82	22.73		
20	QPSK	1	104	22.77	22.80	22.82		
20	QPSK	50	0	22.74	22.93	22.82	24.0	0.0
20	QPSK	50	28	23.21	23.33	23.22	24.0	0.0
20	QPSK	50	56	22.68	22.88	22.88	24.0	0.0
20	QPSK	100	0	23.21	23.29	23.22	24.0	0.0
20	16QAM	1	1	22.83	22.98	22.89	24.0	0.0
20	64QAM	1	1	22.13	22.14	21.93	23.0	1.0
20	256QAM	1	1	19.31	19.43	19.28	21.0	3.0
Channel								
				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	23.16	23.19	23.08	24.0	0.0
Channel								
				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				828	834.5	844	(dBm)	(dB)
10	QPSK	1	1	23.11	23.25	22.94	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	23.24	23.29	23.12	24.0	0.0

n7 Main PA Ant0 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	17.25	17.86	17.39	18.9	0.0
40	PI2 BPSK	1	108	17.38	17.63	17.37		
40	PI2 BPSK	1	214	17.34	17.54	17.41		
40	PI2 BPSK	108	0	17.41	17.47	17.35	18.9	0.0
40	PI2 BPSK	108	54	17.24	17.65	17.54	18.9	0.0
40	PI2 BPSK	108	108	17.42	17.65	17.54	18.9	0.0
40	PI2 BPSK	216	0	17.25	17.50	17.41	18.9	0.0
40	QPSK	1	1	17.40	17.67	17.53	18.9	0.0
40	QPSK	1	108	17.28	17.55	17.33		
40	QPSK	1	214	17.33	17.45	17.36		
40	QPSK	108	0	17.26	17.57	17.34	18.9	0.0
40	QPSK	108	54	17.21	17.60	17.41	18.9	0.0
40	QPSK	108	108	17.21	17.55	17.32	18.9	0.0
40	QPSK	216	0	17.33	17.55	17.34	18.9	0.0
40	16QAM	1	1	17.20	17.57	17.32	18.9	0.0
40	64QAM	1	1	17.20	17.59	17.32	18.9	0.0
40	256QAM	1	1	17.34	17.56	17.55	18.9	0.0
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	17.33	17.50	17.34	18.9	0.0
Channel				502500	507000	511900	Tune-up limit	MPR
Frequency (MHz)				2497.5	2535	2597.5	(dBm)	(dB)
25	QPSK	1	1	17.19	17.62	17.39	18.9	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	PI2 BPSK	1	1	17.28	17.52	17.45	18.9	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	17.29	17.45	17.52	18.9	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	17.40	17.56	17.52	18.9	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	17.24	17.49	17.49	18.9	0.0

n26 Main PA 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				164800	166300	167800	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	23.07	23.08	22.97	24.0	0.0
20	PI2 BPSK	1	53	22.98	23.07	22.91		
20	PI2 BPSK	1	104	22.93	22.94	22.89		
20	PI2 BPSK	50	0	23.02	23.11	23.09	24.0	0.0
20	PI2 BPSK	50	28	23.07	23.06	22.97	24.0	0.0
20	PI2 BPSK	50	56	22.76	22.98	22.91	24.0	0.0
20	PI2 BPSK	100	0	23.08	23.08	23.06		
20	QPSK	1	1	23.15	23.17	23.13	24.0	0.0
20	QPSK	1	53	22.96	23.07	22.99		
20	QPSK	1	104	22.91	22.94	22.94		
20	QPSK	50	0	22.93	23.11	22.96	24.0	0.0
20	QPSK	50	28	23.12	23.15	22.91	24.0	0.0
20	QPSK	50	56	22.84	22.98	22.77	24.0	0.0
20	QPSK	100	0	23.05	23.10	22.94		
20	16QAM	1	1	22.72	22.76	22.62	24.0	0.0
20	64QAM	1	1	22.53	22.62	22.53	23.0	1.0
20	256QAM	1	1	19.66	19.72	19.52	21.0	3.0
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.99	23.08 <td>23.14</td> <td>24.0<td>0.0</td></td>	23.14	24.0 <td>0.0</td>	0.0
Channel				163500	165500	168500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	24.0	0.0
10	QPSK	1	1	23.12	23.16 <td>23.05</td> <td>24.0<td>0.0</td></td>	23.05	24.0 <td>0.0</td>	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	23.02	23.05	22.93	24.0	0.0

n66 Main PA 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				346000	348000	350000	18.4	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	16.95	17.00	16.97	18.4	0.0
40	PI2 BPSK	1	108	17.14	17.06	16.92		
40	PI2 BPSK	1	214	17.17	17.04	17.03		
40	PI2 BPSK	108	0	16.95	17.07	17.08	18.4	0.0
40	PI2 BPSK	108	54	17.02	17.08	16.90	18.4	0.0
40	PI2 BPSK	108	108	17.05	17.12	16.84		
40	PI2 BPSK	216	0	17.11	17.15	17.02	18.4	0.0
40	QPSK	1	1	17.16	17.18	17.11		
40	QPSK	1	108	17.17	17.14	16.95		
40	QPSK	1	214	17.11	17.17	17.00	18.4	0.0
40	QPSK	108	0	17.10	17.09	17.05		
40	QPSK	108	54	17.09	17.15	16.89	18.4	0.0
40	QPSK	108	108	17.10	17.13	17.02	18.4	0.0
40	QPSK	216	0	17.11	17.12	16.92		
40	16QAM	1	1	16.99	17.06	17.00	18.4	0.0
40	64QAM	1	1	17.12	17.10	16.97	18.4	0.0
40	256QAM	1	1	17.14	17.16	17.02	18.4	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	18.4	0.0
30	QPSK	1	1	17.07	17.03	16.90		
Channel				344000	348000	352000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	18.4	0.0
20	QPSK	1	1	17.14	17.13	17.11		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	18.4	0.0
15	QPSK	1	1	17.06	16.99	17.11		
Channel				343000	350000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	18.4	0.0
10	QPSK	1	1	17.16	17.00	17.04		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	18.4	0.0
5	QPSK	1	1	17.03	16.97	17.03		

n38 Main PA 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				518004	519000	519996					
Frequency (MHz)				2590.02	2595	2599.98					
40	PV2 BPSK	1	1	19.01	19.43	19.23	20.3	0.0			
40	PV2 BPSK	1	53	19.17	19.38	19.21					
40	PV2 BPSK	1	104	19.22	19.26	19.14					
40	PV2 BPSK	50	0	19.01	19.29	19.09	20.3	0.0			
40	PV2 BPSK	50	28	19.09	19.34	19.10	20.3	0.0			
40	PV2 BPSK	50	56	19.04	19.30	19.11	20.3	0.0			
40	PV2 BPSK	100	0	19.06	19.33	19.21	20.3	0.0			
40	QPSK	1	1	19.22	19.44	19.31					
40	QPSK	1	53	19.06	19.32	19.17					
40	QPSK	1	104	19.07	19.33	19.11	20.3	0.0			
40	QPSK	50	0	19.11	19.38	19.23					
40	QPSK	50	28	19.04	19.42	19.10					
40	QPSK	50	56	19.06	19.35	19.25	20.3	0.0			
40	QPSK	100	0	19.07	19.40	19.23	20.3	0.0			
40	16QAM	1	1	19.03	19.22	19.31					
40	64QAM	1	1	19.19	19.26	19.27					
40	256QAM	1	1	17.50	17.77	17.37	18.8	1.5			
Channel				517002	519000	520998	Tune-up limit (dBm)				
Frequency (MHz)				2585.01	2595	2604.99	MPR (dB)				
30	QPSK	1	1	19.07	19.33	19.21	20.3	0.0			
Channel				516000	519000	520000	Tune-up limit (dBm)				
Frequency (MHz)				2580	2595	2610	MPR (dB)				
20	QPSK	1	1	19.07	19.30	19.31	20.3	0.0			
Channel				515502	519000	520498	Tune-up limit (dBm)				
Frequency (MHz)				2577.51	2595	2612.49	MPR (dB)				
15	QPSK	1	1	19.04	19.32	19.13	20.3	0.0			
Channel				515004	519000	520996	Tune-up limit (dBm)				
Frequency (MHz)				2575.02	2595	2614.98	MPR (dB)				
10	QPSK	1	1	19.09	19.23	19.17	20.3	0.0			

n41 Main PA 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				506202	518998	520000					
Frequency (MHz)				2546.01	2592.99	2640					
100	PI/2 BPSK	1	1	19.04	19.40	19.14	20.3	0.0			
100	PI/2 BPSK	1	137	19.10	19.35	19.14					
100	PI/2 BPSK	1	271	19.19	19.43	19.94					
100	PI/2 BPSK	135	0	19.09	19.44	19.98	20.3	0.0			
100	PI/2 BPSK	135	69	19.21	19.36	19.01	20.3	0.0			
100	PI/2 BPSK	135	138	19.11	19.30	19.99	20.3	0.0			
100	PI/2 BPSK	270	0	18.99	19.35	19.09					
100	QPSK	1	1	19.19	19.46	19.16					
100	QPSK	1	137	18.99	19.44	19.06	20.3	0.0			
100	QPSK	1	271	19.07	19.31	18.96	20.3	0.0			
100	QPSK	135	0	19.03	19.40	19.15					
100	QPSK	135	69	18.97	19.42	19.09					
100	QPSK	135	138	19.05	19.35	19.15	20.3	0.0			
100	QPSK	270	0	19.19	19.38	18.97	20.3	0.0			
100	16QAM	1	1	19.02	19.42	19.04					
100	64QAM	1	1	18.99	19.37	18.98				0.0	
100	256QAM	1	1	19.18	19.47	19.00	20.3	0.0			
Channel				506200	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2541	2592.99	2644.98	MPR (dB)				
90	QPSK	1	1	19.11	19.45	19.13	20.3	0.0			
Channel				507204	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2530.02	2592.99	2649.99	MPR (dB)				
80	QPSK	1	1	19.10	19.30	19.13	20.3	0.0			
Channel				506202	518998	520000	Tune-up limit (dBm)				
Frequency (MHz)				2531.01	2592.99	2655	MPR (dB)				
70	QPSK	1	1	19.01	19.39	19.16	20.3	0.0			
Channel				505200	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2524	2592.99	2659.99	MPR (dB)				
60	QPSK	1	1	18.97	19.33	19.09	20.3	0.0			
Channel				504204	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2521.02	2592.99	2664.99	MPR (dB)				
50	QPSK	1	1	19.01	19.26	18.98	20.3	0.0			
Channel				503202	518998	520000	Tune-up limit (dBm)				
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)				
40	QPSK	1	1	19.18	19.45	19.03	20.3	0.0			
Channel				502200	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)				
30	QPSK	1	1	19.17	19.27	19.05	20.3	0.0			
Channel				501204	518998	520998	Tune-up limit (dBm)				
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)				
20	QPSK	1	1	19.15	19.26	18.96	20.3	0.0			

n2 Main PA Ant1 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				372000	376000	380000	15.2	0.0				
Frequency (MHz)				1860	1860	1900						
20	PI2 BPSK	1	1	14.10	14.15	13.84				15.2	0.0	
20	PI2 BPSK	1	53	14.04	14.16	13.87						
20	PI2 BPSK	1	104	14.19	14.27	13.92						
20	PI2 BPSK	50	0	14.15	14.26	13.99	15.2	0.0				
20	PI2 BPSK	50	28	14.13	14.13	14.06	15.2	0.0				
20	PI2 BPSK	50	56	14.13	14.24	13.89	15.2	0.0				
20	PI2 BPSK	100	0	14.09	14.25	13.99	15.2	0.0				
20	QPSK	1	1	14.20	14.30	14.06	15.2	0.0				
20	QPSK	1	53	14.02	14.19	14.06						
20	QPSK	1	104	14.15	14.10	14.06						
20	QPSK	50	0	13.99	14.11	13.99						
20	QPSK	50	28	14.02	14.22	13.87	15.2	0.0				
20	QPSK	50	56	14.16	14.09	14.06	15.2	0.0				
20	QPSK	100	0	13.99	14.17	14.06	15.2	0.0				
20	16QAM	1	1	14.00	14.10	13.86	15.2	0.0				
20	64QAM	1	1	14.10	14.27	13.88	15.2	0.0				
20	256QAM	1	1	14.05	14.10	14.07	15.2	0.0				
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1857.5	1860	1902.5	15.2	0.0				
15	QPSK	1	1	14.19	14.20	13.97	15.2 <td colspan="2">0.0</td>	0.0				
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1705	1700	1700	15.2 <td colspan="2">0.0</td>	0.0				
10	QPSK	1	1	14.18	14.18	14.04	15.2	0.0				
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1852.5	1860	1907.5	15.2 <td colspan="2">0.0</td>	0.0				
5	QPSK	1	1	14.09	14.29	13.92	15.2	0.0				

n5 Main PA Ant1 DS13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 166500	Power Middle Ch. / Freq 167500	Power High Ch. / Freq 167600	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)					834	839			
20	PI2 BPSK	1	1	21.47	21.64	21.42	23.1	0.0	
20	PI2 BPSK	1	53	21.49	21.64	21.38			
20	PI2 BPSK	1	104	21.47	21.60	21.33			
20	PI2 BPSK	50	0	21.60	21.67	21.46	23.1	0.0	
20	PI2 BPSK	50	28	21.57	21.60	21.33	23.1	0.0	
20	PI2 BPSK	50	56	21.49	21.62	21.38	23.1	0.0	
20	QPSK	1	1	21.59	21.69	21.51	23.1	0.0	
20	QPSK	1	53	21.55	21.53	21.38			
20	QPSK	1	104	21.41	21.68	21.34			
20	QPSK	50	0	21.45	21.63	21.33	23.1	0.0	
20	QPSK	50	28	21.46	21.65	21.45	23.1	0.0	
20	QPSK	50	56	21.58	21.60	21.33	23.1	0.0	
20	QPSK	100	0	21.42	21.57	21.50	23.1	0.0	
20	16QAM	1	1	21.53	21.63	21.35	23.1	0.0	
20	64QAM	1	1	21.02	20.94	20.87	22.6	0.5	
20	256QAM	1	1	19.11	19.01	19.00	20.6	2.5	
Channel				166300	167200	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	23.1	0.0	
15	QPSK	1	1	21.47	21.50	21.38	23.1	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	829.5	841	23.1	0.0	
10	QPSK	1	1	21.40	21.55	21.52	23.1	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	23.1	0.0	
5	QPSK	1	1	21.53	21.62	21.45	23.1	0.0	



n7 Main PA 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				500000	507000	510000	19.6	0.0	
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	18.42	18.62	18.61	19.6	0.0	
40	P12 BPSK	1	108	18.50	18.49	18.56			
40	P12 BPSK	1	214	18.54	18.59	18.57	19.6	0.0	
40	P12 BPSK	108	0	18.45	18.57	18.57			
40	P12 BPSK	108	54	18.43	18.58	18.51	19.6	0.0	
40	P12 BPSK	108	108	18.43	18.48	18.45			
40	P12 BPSK	216	0	18.45	18.41	18.60	19.6	0.0	
40	QPSK	1	1	18.55	18.63	18.61			
40	QPSK	1	108	18.36	18.49	18.45	19.6	0.0	
40	QPSK	1	214	18.33	18.53	18.59			
40	QPSK	108	0	18.38	18.52	18.40	19.6	0.0	
40	QPSK	108	54	18.53	18.60	18.39			
40	QPSK	108	108	18.35	18.55	18.42	19.6	0.0	
40	QPSK	216	0	18.35	18.55	18.53			
40	16QAM	1	1	18.41	18.44	18.40	19.6	0.0	
40	64QAM	1	1	18.36	18.49	18.52			
40	256QAM	1	1	18.36	18.49	18.60	19.6	0.0	
Channel				502000	507000	511000			
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm)	MPR	(dB)
30	QPSK	1	1	18.40	18.57	18.59	19.6	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	(dB)
20	QPSK	1	1	18.53	18.50	18.60	19.6	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560	Tune-up limit (dBm)	MPR	(dB)
20	P12 BPSK	1	1	18.53	18.57	18.40	19.6	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	(dB)
15	QPSK	1	1	18.55	18.48	18.40	19.6	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	(dB)
10	QPSK	1	1	18.56	18.43	18.58	19.6	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR	(dB)
5	QPSK	1	1	18.44	18.46	18.48	19.6	0.0	
Channel									

n26 Main PA 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				164800	166300	167800	23.1	0.0	
Frequency (MHz)				824	831.5	839			
20	P12 BPSK	1	1	21.51	21.84	21.70	23.1	0.0	
20	P12 BPSK	1	53	21.58	21.75	21.62			
20	P12 BPSK	1	104	21.67	21.75	21.69	23.1	0.0	
20	P12 BPSK	50	0	21.62	21.83	21.49			
20	P12 BPSK	50	28	21.69	21.76	21.62	23.1	0.0	
20	P12 BPSK	50	56	21.60	21.87	21.50			
20	P12 BPSK	100	0	21.52	21.88	21.55	23.1	0.0	
20	QPSK	1	1	21.72	21.95	21.69			
20	QPSK	1	53	21.61	21.93	21.58	23.1	0.0	
20	QPSK	1	104	21.50	21.78	21.57			
20	QPSK	50	0	21.73	21.79	21.65	23.1	0.0	
20	QPSK	50	28	21.70	21.91	21.60			
20	QPSK	50	56	21.76	21.84	21.53	23.1	0.0	
20	QPSK	100	0	21.62	21.85	21.57			
20	16QAM	1	1	21.72	21.94	21.71	23.1	0.0	
20	64QAM	1	1	21.16	21.08	20.88		22.6	
20	256QAM	1	1	19.87	19.79	19.78	21.1	2.0	
Channel				165300	166300	167300			
Frequency (MHz)				821.5	831.5	841.5	Tune-up limit (dBm)	MPR	(dB)
15	QPSK	1	1	21.67	21.89	21.47	23.1	0.0	
Channel				163800	166300	168800			
Frequency (MHz)				810	811.5	844	(dBm)	(dB)	(dB)
10	QPSK	1	1	21.55	21.82	21.69	23.1	0.0	
Channel				163300	166300	169300			
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dBm)	MPR	(dB)
5	QPSK	1	1	21.68	21.88	21.49	23.1	0.0	
Channel									

n66 Main PA 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				346000	348000	350000	16.3	0.0	
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	14.85	14.84	14.68	16.3	0.0	
40	P12 BPSK	1	108	14.74	14.89	14.71			
40	P12 BPSK	1	214	14.88	14.99	14.80	16.3	0.0	
40	P12 BPSK	108	0	14.73	14.79	14.85			
40	P12 BPSK	108	54	14.79	14.95	14.68	16.3	0.0	
40	P12 BPSK	108	108	14.79	14.99	14.83			
40	P12 BPSK	216	0	14.83	14.87	14.74	16.3	0.0	
40	QPSK	1	1	14.89	15.00	14.92			
40	QPSK	1	108	14.79	14.98	14.75	16.3	0.0	
40	QPSK	1	214	14.69	14.79	14.77			
40	QPSK	108	0	14.74	14.85	14.71	16.3	0.0	
40	QPSK	108	54	14.74	14.88	14.61			
40	QPSK	108	108	14.77	14.85	14.64	16.3	0.0	
40	QPSK	216	0	14.74	14.85	14.67			
40	16QAM	1	1	14.74	14.99	14.61	16.3	0.0	
40	64QAM	1	1	14.83	14.81	14.74		16.3	
40	256QAM	1	1	14.61	14.93	14.83	16.3	0.0	
Channel				345000	348000	350000			
Frequency (MHz)				1725	1745	1765	Tune-up limit (dBm)	MPR	(dB)
30	QPSK	1	1	14.82	14.98	14.69	16.3	0.0	
Channel				344000	348000	350000			
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	(dB)
20	QPSK	1	1	14.89	14.82	14.84	16.3	0.0	
Channel				343500	348000	350000			
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR	(dB)
15	QPSK	1	1	14.70	14.88	14.68	16.3	0.0	
Channel				343000	348000	350000			
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)	MPR	(dB)
10	QPSK	1	1	14.73	14.98	14.70	16.3	0.0	
Channel				342500	348000	350000			
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR	(dB)
5	QPSK	1	1	14.70	14.88	14.74	16.3	0.0	
Channel									

n38 Main PA 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				518004	519000	519996		
Frequency (MHz)				2560.02	2595	2599.98		
40	PI2 BPSK	1	1	18.16	18.44	18.38		
40	PI2 BPSK	1	53	18.23	18.56	18.24	19.5	0.0
40	PI2 BPSK	1	104	18.18	18.42	18.20		
40	PI2 BPSK	50	0	18.27	18.38	18.19	19.5	0.0
40	PI2 BPSK	50	28	18.31	18.49	18.35	19.5	0.0
40	PI2 BPSK	50	56	18.18	18.41	18.16	19.5	0.0
40	PI2 BPSK	100	0	18.14	18.39	18.38		
40	QPSK	1	1	18.32	18.57	18.37		
40	QPSK	1	53	18.31	18.56	18.38	19.5	0.0
40	QPSK	1	104	18.15	18.40	18.18		
40	QPSK	50	0	18.31	18.39	18.26	19.5	0.0
40	QPSK	50	28	18.19	18.48	18.35	19.5	0.0
40	QPSK	50	56	18.26	18.42	18.27		
40	QPSK	100	0	18.25	18.38	18.21	19.5	0.0
40	16QAM	1	1	18.10	18.39	18.17	19.5	0.0
40	64QAM	1	1	18.28	18.53	18.17	19.5	0.0
40	256QAM	1	1	18.27	18.47	18.20	19.5	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	18.28	18.38	18.30	19.5	0.0
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	18.23	18.44	18.23	19.5	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	18.32	18.53	18.27	19.5	0.0
Channel				515004	519000	522096	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2576.02	2595	2614.98		
10	QPSK	1	1	18.27	18.39	18.31	19.5	0.0

n41 Main PA 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				526002	518598	526000		
Frequency (MHz)				2548.01	2562.99	2640		
100	PI2 BPSK	1	1	18.50	18.52	18.46		
100	PI2 BPSK	1	137	18.27	18.41	18.32	19.5	0.0
100	PI2 BPSK	1	271	18.46	18.54	18.46		
100	PI2 BPSK	135	0	18.31	18.51	18.48	19.5	0.0
100	PI2 BPSK	135	69	18.44	18.51	18.35	19.5	0.0
100	PI2 BPSK	135	138	18.32	18.53	18.38	19.5	0.0
100	PI2 BPSK	270	0	18.37	18.38	18.34		
100	QPSK	1	1	18.46	18.56	18.47		
100	QPSK	1	137	18.49	18.55	18.25	19.5	0.0
100	QPSK	1	271	18.27	18.45	18.28		
100	QPSK	135	0	18.34	18.42	18.30	19.5	0.0
100	QPSK	135	69	18.45	18.52	18.33	19.5	0.0
100	QPSK	135	138	18.47	18.46	18.34	19.5	0.0
100	QPSK	270	0	18.29	18.50	18.46		
100	16QAM	1	1	18.43	18.47	18.30	19.5	0.0
100	64QAM	1	1	18.28	18.42	18.42	19.5	0.0
100	256QAM	1	1	18.29	18.43	18.49	19.5	0.0
Channel				526203	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2562.99	2644.98		
90	QPSK	1	1	18.47	18.44	18.34	19.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2562.99	2648.99		
80	QPSK	1	1	18.49	18.57	18.43	19.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2562.99	2656		
70	QPSK	1	1	18.37	18.55	18.41	19.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2562.99	2659.99		
60	QPSK	1	1	18.44	18.47	18.36	19.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2562.99	2664.99		
50	QPSK	1	1	18.47	18.54	18.40	19.5	0.0
Channel				525202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2562.99	2670		
40	QPSK	1	1	18.47	18.54	18.39	19.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2562.99	2671.98		
30	QPSK	1	1	18.49	18.49	18.26	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2562.99	2679.99		
20	QPSK	1	1	18.38	18.48	18.40	19.5	0.0



n2 Main PA 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				372500	370500	380000	23.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PV2 BPSK	1	1	22.12	22.29	22.31		
20	PV2 BPSK	1	53	22.26	22.32	22.25		
20	PV2 BPSK	1	104	22.19	22.21	22.01	23.0	0.0
20	PV2 BPSK	50	0	22.31	22.32	22.30	23.0	0.0
20	PV2 BPSK	50	28	22.16	22.29	22.14	23.0	0.0
20	PV2 BPSK	50	56	22.12	22.20	22.11	23.0	0.0
20	PV2 BPSK	100	0	22.29	22.32	22.21	23.0	0.0
20	QPSK	1	1	22.32	22.34	22.19		
20	QPSK	1	53	22.33	22.32	22.32		
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04	23.0	0.0
20	QPSK	50	28	22.23	22.29	22.12	23.0	0.0
20	QPSK	50	56	22.14	22.21	22.14	23.0	0.0
20	QPSK	100	0	22.22	22.27	22.06	23.0	0.0
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	64QAM	1	1	21.74	21.73	21.71	22.0	1.0
20	256QAM	1	1	19.00	19.09	18.90	20.0	3.0
Channel				371500	370000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1902.5		
15	QPSK	1	1	22.20	22.28	22.09	23.0	0.0
Channel				371000	370000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1900	1905		
10	QPSK	1	1	22.13	22.25	22.06	23.0	0.0
Channel				370500	370000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	QPSK	1	1	22.32	22.14	22.14	23.0	0.0

n7 Main PA Ant2 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				504000	507000	510000	20.8	0.0
Frequency (MHz)				2520	2535	2550		
40	PV2 BPSK	1	1	18.92	18.89	18.83		
40	PV2 BPSK	1	108	18.82	18.92	18.90		
40	PV2 BPSK	1	214	18.92	18.89	18.99	20.8	0.0
40	PV2 BPSK	108	0	18.93	18.94	18.84	20.8	0.0
40	PV2 BPSK	108	54	18.89	18.94	18.89	20.8	0.0
40	PV2 BPSK	108	108	18.89	18.84	18.87	20.8	0.0
40	PV2 BPSK	216	0	18.81	18.85	18.94	20.8	0.0
40	QPSK	1	1	18.91	18.95	18.84		
40	QPSK	1	108	18.93	18.92	18.89		
40	QPSK	1	214	18.91	18.87	18.91		
40	QPSK	108	0	18.90	18.83	18.90	20.8	0.0
40	QPSK	108	54	18.84	18.94	18.82	20.8	0.0
40	QPSK	108	108	18.89	18.91	18.92	20.8	0.0
40	QPSK	216	0	18.81	18.84	18.82	20.8	0.0
40	16QAM	1	1	18.94	18.85	18.82	20.8	0.0
40	64QAM	1	1	18.92	18.91	18.84	20.8	0.0
40	256QAM	1	1	18.84	18.94	18.84	20.8	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.89	18.84	18.87	20.8	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.81	18.93	18.80	20.8	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PV2 BPSK	1	1	18.92	18.84	18.92	20.8	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.92	18.89	18.84	20.8	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.92	18.84	18.92	20.8	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.92	18.94	18.89	20.8	0.0

n66 Main PA 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				346000	348000	352000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	22.01	22.01	21.98		
40	PV2 BPSK	1	108	21.78	21.87	21.85		
40	PV2 BPSK	1	214	21.87	21.84	21.75	23.0	0.0
40	PV2 BPSK	108	0	21.76	21.98	21.99	23.0	0.0
40	PV2 BPSK	108	54	21.69	21.89	21.78	23.0	0.0
40	PV2 BPSK	108	108	21.67	21.88	21.90	23.0	0.0
40	PV2 BPSK	216	0	21.73	21.94	21.91	23.0	0.0
40	QPSK	1	1	22.04	22.25	22.01		
40	QPSK	1	108	21.73	21.76	21.71		
40	QPSK	1	214	21.78	21.87	21.71		
40	QPSK	108	0	21.98	21.98	21.86	23.0	0.0
40	QPSK	108	54	21.81	22.06	21.91	23.0	0.0
40	QPSK	108	108	21.76	21.95	21.86	23.0	0.0
40	QPSK	216	0	21.97	22.04	21.92	23.0	0.0
40	16QAM	1	1	21.74	21.91	21.85	23.0	0.0
40	64QAM	1	1	21.02	21.18	21.08	22.0	1.0
40	256QAM	1	1	18.85	18.99	18.86	20.0	3.0
Channel				345000	348000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.94	22.09	22.02	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.89	22.07	21.90	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.83	22.19	22.03	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.87	22.16	21.93	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.90	22.01	21.84	23.0	0.0

n38 Main PA 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				516004	516000	516996			
Frequency (MHz)				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	18.73	18.69	18.69	20.3	0.0	
40	PI2 BPSK	1	53	18.62	18.71	18.57			
40	PI2 BPSK	1	104	18.71	18.68	18.71			
40	PI2 BPSK	50	0	18.60	18.82	18.69	20.3	0.0	
40	PI2 BPSK	50	28	18.64	18.86	18.64	20.3	0.0	
40	PI2 BPSK	50	56	18.58	18.77	18.63	20.3	0.0	
40	PI2 BPSK	100	0	18.71	18.70	18.52	20.3	0.0	
40	QPSK	1	1	18.75	18.90	18.72			
40	QPSK	1	53	18.72	18.84	18.67			
40	QPSK	1	104	18.65	18.71	18.72	20.3	0.0	
40	QPSK	50	0	18.67	18.84	18.56			
40	QPSK	50	28	18.75	18.83	18.54			
40	QPSK	50	56	18.75	18.83	18.73	20.3	0.0	
40	QPSK	100	0	18.58	18.76	18.56	20.3	0.0	
40	16QAM	1	1	18.69	18.83	18.53			
40	64QAM	1	1	18.71	18.87	18.70		2.0	
40	256QAM	1	1	18.89	17.04	17.01	18.3	2.0	
Channel				517002	516000	520996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.71	18.70	18.52	20.3	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	18.68	18.78	18.72	20.3	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	18.75	18.73	18.61	20.3	0.0	
Channel				515004	519000	522096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570.02	2595	2614.98			
10	QPSK	1	1	18.55	18.84	18.64	20.3	0.0	

n41 Main PA 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				526002	518598	526000			
Frequency (MHz)				2548.01	2562.99	2640			
100	PI2 BPSK	1	1	18.75	18.80	18.85	20.3	0.0	
100	PI2 BPSK	1	137	18.75	18.86	18.71			
100	PI2 BPSK	1	271	18.80	18.77	18.65			
100	PI2 BPSK	135	0	18.57	18.82	18.64	20.3	0.0	
100	PI2 BPSK	135	69	18.62	18.90	18.80	20.3	0.0	
100	PI2 BPSK	135	138	18.71	18.93	18.84	20.3	0.0	
100	PI2 BPSK	270	0	18.60	18.83	18.73	20.3	0.0	
100	QPSK	1	1	18.76	18.95	18.84			
100	QPSK	1	137	18.58	18.92	18.84			
100	QPSK	1	271	18.73	18.85	18.79	20.3	0.0	
100	QPSK	135	0	18.67	18.92	18.69			
100	QPSK	135	69	18.60	18.89	18.86			
100	QPSK	135	138	18.74	18.92	18.79	20.3	0.0	
100	QPSK	270	0	18.76	18.86	18.66	20.3	0.0	
100	16QAM	1	1	18.62	18.80	18.68			
100	64QAM	1	1	18.67	18.92	18.75		2.0	
100	256QAM	1	1	18.77	18.83	18.70	20.3	0.0	
Channel				526202	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98			
90	QPSK	1	1	18.56	18.90	18.78	20.3	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.02	2562.99	2649.99			
80	QPSK	1	1	18.70	18.91	18.77	20.3	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2562.99	2656			
70	QPSK	1	1	18.59	18.81	18.66	20.3	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2562.99	2659.99			
60	QPSK	1	1	18.68	18.85	18.84	20.3	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	18.58	18.75	18.76	20.3	0.0	
Channel				523202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670			
40	QPSK	1	1	18.71	18.92	18.72	20.3	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98			
30	QPSK	1	1	18.65	18.77	18.66	20.3	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.99			
20	QPSK	1	1	18.60	18.84	18.65	20.3	0.0	



n2 Main PA Ant3 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				372000	376000	380000	22.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	20.79	20.62	20.55	22.0	0.0	
20	PI2 BPSK	1	53	20.79	20.72	20.56			
20	PI2 BPSK	1	104	20.80	20.78	20.63			
20	PI2 BPSK	50	0	20.63	20.78	20.73	22.0	0.0	
20	PI2 BPSK	50	28	20.70	20.70	20.59	22.0	0.0	
20	PI2 BPSK	50	58	20.58	20.77	20.50	22.0	0.0	
20	PI2 BPSK	100	0	20.72	20.65	20.65	22.0	0.0	
20	QPSK	1	1	20.79	20.62	20.72			
20	QPSK	1	53	20.76	20.80	20.66			
20	QPSK	1	104	20.76	20.70	20.51	22.0	0.0	
20	QPSK	50	0	20.77	20.60	20.56			
20	QPSK	50	28	20.74	20.78	20.66			
20	QPSK	50	58	20.73	20.74	20.50	22.0	0.0	
20	QPSK	100	0	20.68	20.75	20.70	22.0	0.0	
20	16QAM	1	1	20.72	20.80	20.57			
20	64QAM	1	1	20.71	20.77	20.71		22.0	
20	256QAM	1	1	20.05	20.16	20.21	21.5	0.5	
Channel				371500	370000	369500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	22.0	0.0	
15	QPSK	1	1	20.59	20.74	20.66			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1900	1905	22.0	0.0	
10	QPSK	1	1	20.71	20.66	20.73			
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	22.0	0.0	
5	QPSK	1	1	20.65	20.74	20.62			

n7 Main PA Ant3 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				500000	507000	510000	21.1	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	19.61	19.66	19.65	21.1	0.0	
40	PI2 BPSK	1	108	19.63	19.70	19.60			
40	PI2 BPSK	1	214	19.67	19.75	19.63			
40	PI2 BPSK	108	0	19.54	19.83	19.63	21.1	0.0	
40	PI2 BPSK	108	54	19.70	19.80	19.68	21.1	0.0	
40	PI2 BPSK	108	108	19.65	19.78	19.60	21.1	0.0	
40	PI2 BPSK	216	0	19.52	19.63	19.69	21.1	0.0	
40	QPSK	1	1	19.74	19.84	19.72			
40	QPSK	1	108	19.67	19.65	19.57			
40	QPSK	1	214	19.59	19.65	19.69	21.1	0.0	
40	QPSK	108	0	19.71	19.62	19.70			
40	QPSK	108	54	19.61	19.82	19.72			
40	QPSK	108	108	19.71	19.80	19.60	21.1	0.0	
40	QPSK	216	0	19.71	19.80	19.71	21.1	0.0	
40	16QAM	1	1	19.58	19.64	19.67			
40	64QAM	1	1	19.55	19.80	19.63		21.1	
40	256QAM	1	1	19.73	19.82	19.55	21.1	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	21.1	0.0	
30	QPSK	1	1	19.54	19.79	19.71			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	21.1	0.0	
25	QPSK	1	1	19.61	19.70	19.54			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	21.1	0.0	
20	PI2 BPSK	1	1	19.53	19.65	19.73			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	21.1	0.0	
15	QPSK	1	1	19.73	19.81	19.73			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	21.1	0.0	
10	QPSK	1	1	19.67	19.75	19.60			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	21.1	0.0	
5	QPSK	1	1	19.54	19.71	19.61			

n66 Main PA Ant3 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				346000	348000	350000	22.1	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	21.01	21.10	20.96	22.1	0.0	
40	PI2 BPSK	1	108	20.88	21.14	20.88			
40	PI2 BPSK	1	214	20.94	21.09	21.03			
40	PI2 BPSK	108	0	21.09	20.96	21.04	22.1	0.0	
40	PI2 BPSK	108	54	20.88	20.96	21.02	22.1	0.0	
40	PI2 BPSK	108	108	20.91	21.12	20.95	22.1	0.0	
40	PI2 BPSK	216	0	20.87	21.10	20.89	22.1	0.0	
40	QPSK	1	1	21.07	21.16	21.03			
40	QPSK	1	108	21.03	21.09	21.01			
40	QPSK	1	214	21.07	21.07	20.87	22.1	0.0	
40	QPSK	108	0	20.99	21.09	20.81			
40	QPSK	108	54	20.86	21.14	20.81		22.1	
40	QPSK	108	108	20.99	21.10	21.03	22.1	0.0	
40	QPSK	216	0	21.08	21.10	20.86	22.1	0.0	
40	16QAM	1	1	20.85	21.10	20.82			
40	64QAM	1	1	20.92	21.13	20.89		22.1	
40	256QAM	1	1	19.76	19.74	19.76	21.1	1.0	
Channel				345000	346000	347000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	22.1	0.0	
30	QPSK	1	1	20.86	20.98	20.93			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	22.1	0.0	
20	QPSK	1	1	20.98	21.04	20.87			
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	22.1	0.0	
15	QPSK	1	1	21.08	20.99	20.83			
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	22.1	0.0	
10	QPSK	1	1	20.93	21.01	20.98			
Channel				342600	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	22.1	0.0	
5	QPSK	1	1	20.87	20.97	20.87			

n38 Main PA Ant3 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				518004	519000	519996		
Frequency (MHz)				2560.02	2595	2599.98		
40	PI2 BPSK	1	1	19.50	19.51	19.31	21.0	0.0
40	PI2 BPSK	1	53	19.52	19.62	19.38		
40	PI2 BPSK	1	104	19.50	19.63	19.37	21.0	0.0
40	PI2 BPSK	50	0	19.36	19.53	19.46		
40	PI2 BPSK	50	28	19.51	19.65	19.43	21.0	0.0
40	PI2 BPSK	50	56	19.36	19.67	19.39		
40	PI2 BPSK	100	0	19.44	19.65	19.44	21.0	0.0
40	QPSK	1	1	19.56	19.59	19.48		
40	QPSK	1	53	19.36	19.64	19.46	21.0	0.0
40	QPSK	1	104	19.54	19.62	19.38		
40	QPSK	50	0	19.36	19.56	19.43	21.0	0.0
40	QPSK	50	28	19.45	19.66	19.50		
40	QPSK	50	56	19.35	19.46	19.37	21.0	0.0
40	QPSK	100	0	19.50	19.65	19.34		
40	16QAM	1	1	19.45	19.47	19.47	21.0	0.0
40	64QAM	1	1	19.47	19.52	19.32		
40	256QAM	1	1	18.28	18.26	18.16	20.0	1.0
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	19.46	19.62	19.33	21.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2590	2595	2610	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.56	19.54	19.27		
Channel				515502	519000	524498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	19.41	19.48	19.34	21.0	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2570.02	2595	2614.98	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.56	19.62	19.42		

n41 Main PA Ant3 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				526002	518598	526000		
Frequency (MHz)				2548.01	2562.99	2640		
100	PI2 BPSK	1	1	19.24	19.64	19.20	21.0	0.0
100	PI2 BPSK	1	137	19.34	19.75	19.17		
100	PI2 BPSK	1	271	19.37	19.57	19.24	21.0	0.0
100	PI2 BPSK	135	0	19.39	19.56	19.12		
100	PI2 BPSK	135	69	19.25	19.61	19.13	21.0	0.0
100	PI2 BPSK	135	138	19.32	19.72	19.14		
100	PI2 BPSK	270	0	19.30	19.61	19.15	21.0	0.0
100	QPSK	1	1	19.43	19.77	19.32		
100	QPSK	1	137	19.35	19.56	19.16	21.0	0.0
100	QPSK	1	271	19.32	19.66	19.11		
100	QPSK	135	0	19.41	19.68	19.17	21.0	0.0
100	QPSK	135	69	19.43	19.70	19.32		
100	QPSK	135	138	19.26	19.67	19.13	21.0	0.0
100	QPSK	270	0	19.40	19.63	19.16		
100	16QAM	1	1	19.44	19.64	19.30	21.0	0.0
100	64QAM	1	1	19.24	19.59	19.13		
100	256QAM	1	1	19.33	19.62	19.23	21.0	0.0
Channel				526000	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2562.99	2644.98		
90	QPSK	1	1	19.42	19.64	19.26	21.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2534.02	2562.99	2643.99	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.22	19.68	19.16		
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2562.99	2656		
70	QPSK	1	1	19.24	19.57	19.13	21.0	0.0
Channel				505000	518598	531996		
Frequency (MHz)				2626	2562.99	2655.99	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.30	19.68	19.28		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2562.99	2664.99		
50	QPSK	1	1	19.34	19.63	19.14	21.0	0.0
Channel				525202	518598	534000		
Frequency (MHz)				2516.01	2562.99	2670	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.35	19.75	19.32		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2562.99	2674.98		
30	QPSK	1	1	19.24	19.64	19.18	21.0	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2562.99	2679.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.35	19.72	19.22		



Reduced Power Mode for Main PA DSI5 Simultaneous

n2 Main PA Ant0 DSI5 Simultaneous											
BW (MHz)	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	19.1	0.0			
Frequency (MHz)				1860	1860	1900					
20	PI2 BPSK	1	1	17.37	17.48	17.46					
20	PI2 BPSK	1	53	17.34	17.46	17.22	19.1	0.0			
20	PI2 BPSK	1	104	17.18	17.61	17.33					
20	PI2 BPSK	50	0	17.18	17.49	17.19					
20	PI2 BPSK	50	28	17.44	17.40	17.33	19.1	0.0			
20	PI2 BPSK	50	56	17.37	17.41	17.24					
20	PI2 BPSK	100	0	17.18	17.37	17.30					
20	QPSK	1	1	17.42	17.67	17.45	19.1	0.0			
20	QPSK	1	53	17.28	17.35	17.40					
20	QPSK	1	104	17.27	17.29	17.27					
20	QPSK	50	0	17.17	17.65	17.30	19.1	0.0			
20	QPSK	50	28	17.23	17.41	17.25					
20	QPSK	50	56	17.37	17.40	17.11					
20	QPSK	100	0	17.47	17.54	17.28	19.1	0.0			
20	16QAM	1	1	17.38	17.55	17.28					
20	64QAM	1	1	17.29	17.32	17.15					
20	256QAM	1	1	17.24	17.26	17.28	10.1	0.0			
Channel				371500	376000	380500					
Frequency (MHz)				1857.5	1860	1902.5	Tune-up limit (dBm)				
15	QPSK	1	1	17.28	17.43	17.34	19.1	0.0			
Channel				371000	376000	381000	Tune-up limit (dBm)				
Frequency (MHz)				1855	1860	1905	19.1				
10	QPSK	1	1	17.35	17.48	17.34	19.1	0.0			
Channel				370500	376000	381500	Tune-up limit (dBm)				
Frequency (MHz)				1852.5	1860	1907.5	19.1				
5	QPSK	1	1	17.15	17.51	17.42	19.1	0.0			

n5 Main PA Ant0 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				166800	167300	167800	23.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	21.76	21.91	21.82			
20	PI2 BPSK	1	53	21.82	21.74	21.76	23.0	0.0	
20	PI2 BPSK	1	104	21.58	21.89	21.71			
20	PI2 BPSK	50	0	21.71	21.83	21.65			
20	PI2 BPSK	50	28	21.94	21.96	21.64	23.0	0.0	
20	PI2 BPSK	50	56	21.64	21.95	21.88			
20	PI2 BPSK	100	0	21.87	21.94	21.67			
20	QPSK	1	1	22.34	22.38	22.19	23.0	0.0	
20	QPSK	1	53	21.61	21.80	21.68			
20	QPSK	1	104	21.71	21.81	21.66			
20	QPSK	50	0	21.75	21.84	21.70	23.0	0.0	
20	QPSK	50	28	22.12	22.32	22.28			
20	QPSK	50	56	21.66	21.86	21.90			
20	QPSK	100	0	22.28	22.30	22.25	23.0	0.0	
20	16QAM	1	1	21.76	21.96	21.86			
20	64QAM	1	1	21.84	21.92	21.78			
20	256QAM	1	1	19.83	19.87	19.80	21.0	2.0	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5	Tune-up limit (dbm)		
15	QPSK	1	1	21.73	21.87	21.75	23.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	21.69	21.88	21.73	23.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.83	21.96	21.83	23.0	0.0	

n7 Main PA Ant0 DSI5 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	17.5	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	15.82	16.08	15.97			
40	PI2 BPSK	1	108	15.83	15.97	16.02	17.5	0.0	
40	PI2 BPSK	1	214	15.84	16.03	16.07			
40	PI2 BPSK	108	0	16.01	15.79	16.05			
40	PI2 BPSK	108	54	15.97	15.92	16.00	17.5	0.0	
40	PI2 BPSK	108	108	16.04	15.83	15.92			
40	PI2 BPSK	216	0	16.07	16.02	15.95			
40	QPSK	1	1	16.07	16.15	16.03	17.5	0.0	
40	QPSK	1	108	16.11	15.93	16.83			
40	QPSK	1	214	16.07	15.94	15.74			
40	QPSK	108	0	15.95	16.04	15.79	17.5	0.0	
40	QPSK	108	54	16.02	16.12	15.91			
40	QPSK	108	108	15.77	16.05	15.82			
40	QPSK	216	0	16.03	16.11	16.09	17.5	0.0	
40	16QAM	1	1	15.94	15.93	15.81			
40	64QAM	1	1	15.98	15.92	15.74			
40	256QAM	1	1	16.00	15.97	15.74	17.5	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm)		
30	QPSK	1	1	15.93	15.98	15.84	17.5	MPR (dB)	
Channel				502500	507000	511500	Tune-up limit (dBm)		
Frequency (MHz)				2512.5	2535	2557.5	17.5		
25	QPSK	1	1	15.98	15.89	15.79	17.5	MPR (dB)	
Channel				502000	507000	512000	Tune-up limit (dBm)		
Frequency (MHz)				2510	2535	2560	17.5		
20	PI2 BPSK	1	1	15.90	16.02	15.89	17.5	MPR (dB)	
Channel				501500	507000	512500	Tune-up limit (dBm)		
Frequency (MHz)				2507.5	2535	2562.5	17.5		
15	QPSK	1	1	15.97	15.87	15.87	17.5	MPR (dB)	
Channel				501000	507000	513000	Tune-up limit (dBm)		
Frequency (MHz)				2505	2535	2565	17.5		
10	QPSK	1	1	16.00	15.84	15.91	17.5	MPR (dB)	
Channel				500500	507000	513500	Tune-up limit (dBm)		
Frequency (MHz)				2502.5	2535	2567.5	17.5		
5	QPSK	1	1	16.06	16.00	15.77	17.5	0.0	



n26 Main PA Ant0 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.			
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	21.80	21.85	21.75	23.0	0.0	
20	PI2 BPSK	1	53	21.70	21.84	21.87			
20	PI2 BPSK	1	104	21.65	21.80	21.83			
20	PI2 BPSK	50	0	21.66	21.78	21.60	23.0	0.0	
20	PI2 BPSK	50	28	21.96	21.89	21.56	23.0	0.0	
20	PI2 BPSK	50	56	21.55	21.86	21.90	23.0	0.0	
20	PI2 BPSK	100	0	21.94	21.83	21.72			
20	QPSK	1	1	22.24	22.38	22.21			
20	QPSK	1	53	21.68	21.91	21.81	23.0	0.0	
20	QPSK	1	104	21.80	21.92	21.57	23.0	0.0	
20	QPSK	50	0	21.76	21.77	21.77			
20	QPSK	50	28	22.24	22.35	22.27			
20	QPSK	50	56	21.72	21.93	21.81	23.0	0.0	
20	QPSK	100	0	22.29	22.35	22.22	23.0	0.0	
20	16QAM	1	1	21.69	21.91	21.92			
20	64QAM	1	1	21.78	22.03	21.70			
20	256QAM	1	1	19.86	19.98	19.75	21.0	2.0	
Channel				164500	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.19	22.23	22.31	23.0	0.0	
Channel				163500	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.14	22.38	22.30	23.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.08	22.28	22.17	23.0	0.0	

n66 Main PA Ant0 DSI5 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				348000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	16.43	16.49	16.59	17.9	0.0	
40	PV2 BPSK	1	106	16.49	16.59	16.53			
40	PV2 BPSK	1	214	16.44	16.63	16.84			
40	PV2 BPSK	108	0	16.33	16.43	16.48	17.9	0.0	
40	PV2 BPSK	108	54	16.40	16.42	16.50	17.9	0.0	
40	PV2 BPSK	108	106	16.31	16.73	16.60			
40	PV2 BPSK	216	0	16.62	16.51	16.70			
40	QPSK	1	1	16.63	16.75	16.73	17.9	0.0	
40	QPSK	1	106	16.48	16.44	16.52			
40	QPSK	1	214	16.31	16.66	16.31			
40	QPSK	108	0	16.50	16.38	16.41	17.9	0.0	
40	QPSK	108	54	16.54	16.74	16.41	17.9	0.0	
40	QPSK	108	106	16.35	16.72	16.45			
40	QPSK	216	0	16.57	16.60	16.35			
40	16QAM	1	1	16.43	16.49	16.48	17.9	0.0	
40	64QAM	1	1	16.59	16.65	16.53	17.9	0.0	
40	256QAM	1	1	16.58	16.71	16.70	17.9	0.0	
Channel				345000	349000	353000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.30	16.52	16.60	17.9	0.0	
Channel				348000	349000	354000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.29	16.63	16.52	17.9	0.0	
Channel				343500	349000	354500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.33	16.64	16.62	17.9	0.0	
Channel				343000	349000	355000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.48	16.69	16.65	17.9	0.0	
Channel				342500	349000	355500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.41	16.53	16.57	17.9	0.0	

n38 Main PA Ant0 DS15 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	16.59	16.79	16.50	17.7	0.0	
40	PI2 BPSK	1	53	16.72	16.60	16.49			
40	PI2 BPSK	1	104	16.80	16.73	16.46			
40	PI2 BPSK	50	0	16.73	16.64	16.61			
40	PI2 BPSK	50	28	16.72	16.65	16.60	17.7	0.0	
40	PI2 BPSK	50	56	16.59	16.77	16.45	17.7	0.0	
40	PI2 BPSK	100	0	16.66	16.68	16.54	17.7	0.0	
40	QPSK	1	1	16.74	16.84	16.50			
40	QPSK	1	53	16.59	16.64	16.57			
40	QPSK	1	104	16.72	16.71	16.58			
40	QPSK	50	0	16.64	16.68	16.53	17.7	0.0	
40	QPSK	50	28	16.44	16.62	16.43	17.7	0.0	
40	QPSK	50	56	16.70	16.78	16.52	17.7	0.0	
40	QPSK	100	0	16.71	16.78	16.53			
40	16QAM	1	1	16.71	16.75	16.56			
40	64QAM	1	1	16.57	16.65	16.55			
40	256QAM	1	1	16.60	16.67	16.69	17.7	0.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.61	16.72	16.52	17.7	0.0	
Channel				516000	519000	520000			
Frequency (MHz)				2590	2595	2610	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.64	16.65	16.65	17.7	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.59	16.70	16.63	17.7	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.63	16.68	16.59	17.7	0.0	

n41 Main PA Ant0 DS15 Simultaneous											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				506202	518998	520000					
Frequency (MHz)				2546.01	2592.99	2640					
100	PI/2 BPSK	1	1	16.65	16.61	16.65	17.7	0.0			
100	PI/2 BPSK	1	137	16.58	16.61	16.57					
100	PI/2 BPSK	1	271	16.52	16.70	16.51					
100	PI/2 BPSK	135	0	16.64	16.78	16.60					
100	PI/2 BPSK	135	69	16.59	16.65	16.79	17.7	0.0			
100	PI/2 BPSK	135	138	16.49	16.63	16.59	17.7	0.0			
100	PI/2 BPSK	270	0	16.54	16.63	16.71	17.7	0.0			
100	QPSK	1	1	16.76	16.60	16.64					
100	QPSK	1	137	16.63	16.60	16.63					
100	QPSK	1	271	16.60	16.69	16.57					
100	QPSK	135	0	16.71	16.73	16.67	17.7	0.0			
100	QPSK	135	69	16.65	16.79	16.64	17.7	0.0			
100	QPSK	135	138	16.53	16.62	16.45	17.7	0.0			
100	QPSK	270	0	16.71	16.72	16.55	17.7	0.0			
100	16QAM	1	1	16.65	16.85	16.63					
100	64QAM	1	1	16.52	16.61	16.59					
100	256QAM	1	1	16.60	16.77	16.73					
Channel				506200	518998	520996					
Frequency (MHz)				2541	2592.99	2644.98					
90	QPSK	1	1	16.52	16.70	16.44	17.7	0.0			
Channel				507204	518998	520998					
Frequency (MHz)				2536.02	2592.99	2649.99					
80	QPSK	1	1	16.47	16.58	16.45	17.7	0.0			
Channel				506202	518998	531000					
Frequency (MHz)				2531.01	2592.99	2665					
70	QPSK	1	1	16.55	16.73	16.53	17.7	0.0			
Channel				505200	518998	531996					
Frequency (MHz)				2526	2592.99	2659.98					
60	QPSK	1	1	16.57	16.63	16.44	17.7	0.0			
Channel				504204	518998	532998					
Frequency (MHz)				2521.02	2592.99	2664.99					
50	QPSK	1	1	16.51	16.60	16.63	17.7	0.0			
Channel				503202	518998	533000					
Frequency (MHz)				2516.01	2592.99	2670					
40	QPSK	1	1	16.40	16.68	16.54	17.7	0.0			
Channel				502200	518998	534996					
Frequency (MHz)				2511	2592.99	2674.99					
30	QPSK	1	1	16.45	16.67	16.56	17.7	0.0			
Channel				501204	518998	535998					
Frequency (MHz)				2506.02	2592.99	2679.99					
20	QPSK	1	1	16.55	16.61	16.56	17.7	0.0			

n2 Main PA DSI5 Simultaneous

BW (MHz)	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	13.39	13.48	13.30		
20	PI2 BPSK	1	53	13.55	13.60	13.43	14.5	0.0
20	PI2 BPSK	1	104	13.41	13.36	13.23	14.5	0.0
20	PI2 BPSK	50	0	13.20	13.54	13.38		
20	PI2 BPSK	50	28	13.43	13.35	13.19		
20	PI2 BPSK	50	56	13.41	13.47	13.45	14.5	0.0
20	PI2 BPSK	100	0	13.42	13.41	13.45	14.5	0.0
20	QPSK	1	1	13.53	13.58	13.52		
20	QPSK	1	53	13.54	13.30	13.43		
20	QPSK	1	104	13.60	13.52	13.32	14.5	0.0
20	QPSK	50	0	13.41	13.45	13.28		
20	QPSK	50	28	13.57	13.66	13.45		
20	QPSK	50	56	13.51	13.45	13.18	14.5	0.0
20	QPSK	100	0	13.43	13.65	13.20	14.5	0.0
20	16QAM	1	1	13.32	13.39	13.40		
20	64QAM	1	1	13.38	13.37	13.26		
20	256QAM	1	1	13.40	13.38	13.34	14.5	0.0
Channel				371000	373000	375000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1902.5	14.5	0.0
15	QPSK	1	1	13.39	13.48	13.40	14.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1925	1930	1905	14.5	0.0
10	QPSK	1	1	13.49	13.51	13.30	14.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5	14.5	0.0
5	QPSK	1	1	13.43	13.46	13.37	14.5	0.0

n5 Main PA DSI5 Simultaneous

BW (MHz)	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	20.23	20.53	20.28		
20	PI2 BPSK	1	53	20.24	20.32	20.32	22.2	0.0
20	PI2 BPSK	1	104	20.25	20.29	20.43	22.2	0.0
20	PI2 BPSK	50	0	20.34	20.41	20.38		
20	PI2 BPSK	50	28	20.29	20.40	20.25		
20	PI2 BPSK	50	56	20.27	20.32	20.33	22.2	0.0
20	PI2 BPSK	100	0	20.21	20.24	20.36	22.2	0.0
20	QPSK	1	1	20.42	20.57	20.39		
20	QPSK	1	53	20.29	20.41	20.30		
20	QPSK	1	104	20.32	20.42	20.31	22.2	0.0
20	QPSK	50	0	20.23	20.28	20.34		
20	QPSK	50	28	20.52	20.55	20.41		
20	QPSK	50	56	20.36	20.36	20.25	22.2	0.0
20	QPSK	100	0	20.31	20.46	20.29	22.2	0.0
20	16QAM	1	1	20.24	20.33	20.21		
20	64QAM	1	1	20.28	20.33	20.33		
20	256QAM	1	1	19.27	19.35	19.32	21.2	1.0
Channel				165300	167200	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	14.5	0.0
15	QPSK	1	1	20.29	20.34	20.23	22.2	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				823	826.5	844	14.5	0.0
10	QPSK	1	1	20.21	20.24	20.30	22.2	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				828.5	836.5	846.5	14.5	0.0
5	QPSK	1	1	20.26	20.23	20.28	22.2	0.0



n7 Main PA Ant1 DSI5 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	510000	18.7	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	17.25	17.56	17.44	18.7	0.0	
40	PI2 BPSK	1	108	17.51	17.42	17.45			
40	PI2 BPSK	1	214	17.55	17.52	17.51	18.7	0.0	
40	PI2 BPSK	108	0	17.36	17.47	17.60			
40	PI2 BPSK	108	54	17.26	17.48	17.46	18.7	0.0	
40	PI2 BPSK	108	108	17.33	17.36	17.39			
40	PI2 BPSK	216	0	17.30	17.35	17.48	18.7	0.0	
40	QPSK	1	1	17.54	17.62	17.44			
40	QPSK	1	108	17.26	17.48	17.50	18.7	0.0	
40	QPSK	1	214	17.20	17.56	17.54			
40	QPSK	108	0	17.31	17.50	17.35	18.7	0.0	
40	QPSK	108	54	17.55	17.61	17.46			
40	QPSK	108	108	17.21	17.41	17.39	18.7	0.0	
40	QPSK	216	0	17.38	17.60	17.56			
40	16QAM	1	1	17.42	17.37	17.37	18.7	0.0	
40	64QAM	1	1	17.29	17.49	17.54			
40	256QAM	1	1	17.24	17.33	17.57	18.7	0.0	
Channel				502000	507000	511000		Tune-up limit (dBm)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	17.33	17.40	17.38	18.7	0.0	
Channel				502500	507000	511500		Tune-up limit (dBm)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	17.24	17.26	17.25	18.7	0.0	
Channel				502000	507000	512000		Tune-up limit (dBm)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	17.26	17.40	17.42	18.7	0.0	
Channel				501500	507000	512500		Tune-up limit (dBm)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	17.31	17.39	17.42	18.7	0.0	
Channel				501000	507000	513000		Tune-up limit (dBm)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	17.22	17.54	17.50	18.7	0.0	
Channel				500500	507000	513500		Tune-up limit (dBm)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	17.25	17.35	17.28	18.7	0.0	
Channel									

n26 Main PA Ant1 DSI5 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800	22.2	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	20.29	20.47	20.31	22.2	0.0	
20	PI2 BPSK	1	53	20.34	20.42	20.27			
20	PI2 BPSK	1	104	20.22	20.29	20.38	22.2	0.0	
20	PI2 BPSK	50	0	20.43	20.33	20.28			
20	PI2 BPSK	50	28	20.32	20.43	20.33	22.2	0.0	
20	PI2 BPSK	50	56	20.24	20.28	20.26			
20	PI2 BPSK	100	0	20.46	20.29	20.30	22.2	0.0	
20	QPSK	1	1	20.56	20.63	20.46			
20	QPSK	1	53	20.34	20.47	20.24	22.2	0.0	
20	QPSK	1	104	20.21	20.42	20.37			
20	QPSK	50	0	20.27	20.37	20.30	22.2	0.0	
20	QPSK	50	28	20.42	20.56	20.47			
20	QPSK	50	56	20.34	20.36	20.26	22.2	0.0	
20	QPSK	100	0	20.37	20.47	20.26			
20	16QAM	1	1	20.28	20.42	20.30	22.2	0.0	
20	64QAM	1	1	20.26	20.28	20.29			
20	256QAM	1	1	19.35	19.23	19.40	21.2	1.0	
Channel				164300	166800	167300			
Frequency (MHz)				821.5	831.5	841.5	22.2	0.0	
15	QPSK	1	1	20.25	20.36	20.52			
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				810	811.5	844			
10	QPSK	1	1	20.35	20.38	20.52	22.2	0.0	
Channel				163300	166300	169300			
Frequency (MHz)				816.5	831.5	846.5	20.36	22.2	
5	QPSK	1	1	20.27	20.23	20.36			

n66 Main PA Ant1 DSI5 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000	15.8	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	14.65	14.89	14.58	15.8	0.0	
40	PI2 BPSK	1	108	14.49	14.83	14.62			
40	PI2 BPSK	1	214	14.85	14.68	14.80	15.8	0.0	
40	PI2 BPSK	108	0	14.75	14.79	14.67			
40	PI2 BPSK	108	54	14.62	14.72	14.61	15.8	0.0	
40	PI2 BPSK	108	108	14.74	14.96	14.85			
40	PI2 BPSK	216	0	14.42	14.72	14.55	15.8	0.0	
40	QPSK	1	1	14.81	15.00	14.83			
40	QPSK	1	108	14.89	14.86	14.74	15.8	0.0	
40	QPSK	1	214	14.78	14.80	14.54			
40	QPSK	108	0	14.77	14.80	14.52	15.8	0.0	
40	QPSK	108	54	14.89	14.97	14.79			
40	QPSK	108	108	14.70	14.80	14.61	15.8	0.0	
40	QPSK	216	0	14.76	14.88	14.59			
40	16QAM	1	1	14.47	14.98	14.59	15.8	0.0	
40	64QAM	1	1	14.77	14.77	14.76			
40	256QAM	1	1	14.64	14.77	14.52	15.8	0.0	
Channel				345000	348000	350000		Tune-up limit (dBm)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	14.84	14.92	14.78	15.8	0.0	
Channel				344500	349000	353500		Tune-up limit (dBm)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	14.85	14.95	14.77	15.8	0.0	
Channel				344000	349000	354000		Tune-up limit (dBm)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	14.68	14.98	14.73	15.8	0.0	
Channel				343500	349000	354500		Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	14.77	14.98	14.82	15.8	0.0	
Channel				343000	349000	355000		Tune-up limit (dBm)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	14.78	14.95	14.75	15.8	0.0	
Channel				342500	349000	355500		Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	14.68	14.95	14.76	15.8	0.0	
Channel									

n38 Main PA Ant1 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	19.21	19.45	19.53			
40	PI2 BPSK	1	53	19.39	19.31	19.33	20.5	0.0	
40	PI2 BPSK	1	104	19.44	19.32	19.49	20.5	0.0	
40	PI2 BPSK	50	0	19.21	19.43	19.51	20.5	0.0	
40	PI2 BPSK	50	28	19.28	19.39	19.26	20.5	0.0	
40	PI2 BPSK	50	56	19.23	19.39	19.33	20.5	0.0	
40	PI2 BPSK	100	0	19.24	19.53	19.29			
40	QPSK	1	1	19.45	19.56	19.43			
40	QPSK	1	53	19.25	19.52	19.33	20.5	0.0	
40	QPSK	1	104	19.51	19.51	19.46			
40	QPSK	50	0	19.48	19.40	19.38	20.5	0.0	
40	QPSK	50	28	19.49	19.55	19.43	20.5	0.0	
40	QPSK	50	56	19.16	19.52	19.50	20.5	0.0	
40	QPSK	100	0	19.38	19.51	19.38			
40	16QAM	1	1	19.48	19.44	19.11	20.5	0.0	
40	64QAM	1	1	19.36	19.41	19.34	20.5	0.0	
40	256QAM	1	1	18.35	18.41	18.39	19.5	1.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.35	19.42	19.47	20.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.34	19.51	19.40	20.5	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.17	19.43	19.38	20.5	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570.02	2595	2614.98			
10	QPSK	1	1	19.24	19.51	19.41	20.5	0.0	

n41 Main PA Ant1 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526002	518598	526000			
Frequency (MHz)				2548.01	2562.99	2640			
100	PI2 BPSK	1	1	19.26	19.42	19.26			
100	PI2 BPSK	1	137	19.43	19.68	19.37	20.5	0.0	
100	PI2 BPSK	1	274	19.11	19.42	19.24	20.5	0.0	
100	PI2 BPSK	135	0	19.23	19.49	19.39	20.5	0.0	
100	PI2 BPSK	135	69	19.41	19.67	19.34	20.5	0.0	
100	PI2 BPSK	135	138	19.12	19.44	19.26	20.5	0.0	
100	PI2 BPSK	270	0	19.19	19.39	19.20			
100	QPSK	1	1	19.33	19.69	19.26			
100	QPSK	1	137	19.21	19.67	19.38	20.5	0.0	
100	QPSK	1	274	19.31	19.58	19.31			
100	QPSK	135	0	19.46	19.54	19.26	20.5	0.0	
100	QPSK	135	69	19.40	19.67	19.31	20.5	0.0	
100	QPSK	135	138	19.25	19.46	19.10	20.5	0.0	
100	QPSK	270	0	19.11	19.62	19.27			
100	16QAM	1	1	19.23	19.63	19.10	20.5	0.0	
100	64QAM	1	1	19.26	19.55	19.21	20.5	0.0	
100	256QAM	1	1	19.28	19.51	19.12	20.5	0.0	
Channel				526002	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98			
90	QPSK	1	1	19.07	19.36	19.21	20.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.02	2562.99	2643.99			
80	QPSK	1	1	19.27	19.49	19.18	20.5	0.0	
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2562.99	2655			
70	QPSK	1	1	19.14	19.45	19.19	20.5	0.0	
Channel				505000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2562.99	2659.99			
60	QPSK	1	1	19.23	19.44	19.31	20.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	19.05	19.45	19.19	20.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670			
40	QPSK	1	1	19.25	19.44	19.16	20.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98			
30	QPSK	1	1	19.16	19.47	19.14	20.5	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.99			
20	QPSK	1	1	19.06	19.45	19.34	20.5	0.0	



n2 Main PA 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				372000	370000	380000	23.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PV2 BPSK	1	1	22.12	22.29	22.31		
20	PV2 BPSK	1	53	22.26	22.32	22.25		
20	PV2 BPSK	1	104	22.19	22.21	22.01	23.0	0.0
20	PV2 BPSK	50	0	22.31	22.32	22.30	23.0	0.0
20	PV2 BPSK	50	28	22.16	22.29	22.14	23.0	0.0
20	PV2 BPSK	50	56	22.12	22.20	22.11	23.0	0.0
20	PV2 BPSK	100	0	22.29	22.32	22.21	23.0	0.0
20	QPSK	1	1	22.32	22.34	22.19	23.0	0.0
20	QPSK	1	53	22.33	22.32	22.32		
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04		
20	QPSK	50	28	22.23	22.29	22.12	23.0	0.0
20	QPSK	50	56	22.14	22.21	22.14	23.0	0.0
20	QPSK	100	0	22.22	22.27	22.06	23.0	0.0
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	64QAM	1	1	21.74	21.73	21.71	22.0	1.0
20	256QAM	1	1	19.00	19.09	18.90	20.0	3.0
Channel				371500	370000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1902.5	23.0	0.0
15	QPSK	1	1	22.20	22.28	22.09	23.0	0.0
Channel				371000	370000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1900	1905	23.0	0.0
10	QPSK	1	1	22.13	22.25	22.06	23.0	0.0
Channel				370500	370000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5	23.0	0.0
5	QPSK	1	1	22.32	22.14	22.14	23.0	0.0

n7 Main PA Ant2 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000	18.8	0.0
Frequency (MHz)				2520	2535	2550		
40	PV2 BPSK	1	1	17.84	17.76	17.75		
40	PV2 BPSK	1	108	17.87	17.93	17.96		
40	PV2 BPSK	1	214	17.82	17.78	17.89	18.8	0.0
40	PV2 BPSK	108	0	17.84	17.86	17.77	18.8	0.0
40	PV2 BPSK	108	54	17.80	17.96	17.86	18.8	0.0
40	PV2 BPSK	108	108	17.88	17.85	17.84	18.8	0.0
40	PV2 BPSK	216	0	17.73	17.82	17.81	18.8	0.0
40	QPSK	1	1	17.91	18.00	17.86	18.8	0.0
40	QPSK	1	108	17.82	17.79	17.84		
40	QPSK	1	214	17.80	17.71	17.91		
40	QPSK	108	0	17.83	17.89	17.92		
40	QPSK	108	54	17.80	17.98	17.81	18.8	0.0
40	QPSK	108	108	17.85	17.75	17.76	18.8	0.0
40	QPSK	216	0	17.70	17.96	17.83	18.8	0.0
40	16QAM	1	1	17.97	17.89	17.85	18.8	0.0
40	64QAM	1	1	17.97	17.89	17.74	18.8	0.0
40	256QAM	1	1	17.78	17.95	17.79	18.8	0.0
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	18.8	0.0
30	QPSK	1	1	17.82	17.84	17.73	18.8	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	18.8	0.0
25	QPSK	1	1	17.78	17.83	17.81	18.8	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	18.8	0.0
20	PV2 BPSK	1	1	17.79	17.89	17.93	18.8	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	18.8	0.0
15	QPSK	1	1	17.96	17.77	17.77	18.8	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	18.8	0.0
10	QPSK	1	1	17.85	17.98	17.81	18.8	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	18.8	0.0
5	QPSK	1	1	17.93	17.79	17.84	18.8	0.0

n66 Main PA Ant2 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	22.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	21.03	20.85	20.99		
40	PV2 BPSK	1	108	20.66	20.91	20.77		
40	PV2 BPSK	1	214	20.84	20.81	20.61	22.0	0.0
40	PV2 BPSK	108	0	20.82	21.01	20.88	22.0	0.0
40	PV2 BPSK	108	54	20.58	20.72	20.82	22.0	0.0
40	PV2 BPSK	108	108	20.50	20.94	20.82	22.0	0.0
40	PV2 BPSK	216	0	20.69	20.78	20.93	22.0	0.0
40	QPSK	1	1	21.02	21.14	20.94	22.0	0.0
40	QPSK	1	108	20.79	20.76	20.68		
40	QPSK	1	214	20.63	20.81	20.59		
40	QPSK	108	0	20.88	21.04	20.87		
40	QPSK	108	54	20.83	21.13	20.94	22.0	0.0
40	QPSK	108	108	20.80	21.01	20.91	22.0	0.0
40	QPSK	216	0	20.98	21.09	20.87	22.0	0.0
40	16QAM	1	1	20.79	20.86	20.85	22.0	0.0
40	64QAM	1	1	20.68	20.92	20.74	22.0	0.0
40	256QAM	1	1	18.71	18.78	18.62	20.0	2.0
Channel				345500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	22.0	0.0
30	QPSK	1	1	20.63	20.77	20.55	22.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	22.0	0.0
20	QPSK	1	1	20.75	20.72	20.59	22.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	22.0	0.0
15	QPSK	1	1	20.70	20.86	20.59	22.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	22.0	0.0
10	QPSK	1	1	20.67	20.93	20.68	22.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	22.0	0.0
5	QPSK	1	1	20.85	20.87	20.61	22.0	0.0

n38 Main PA Ant2 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	17.79	17.75	17.67	19.0	0.0	
40	PI2 BPSK	1	53	17.50	17.54	17.47			
40	PI2 BPSK	1	104	17.85	17.77	17.68	19.0	0.0	
40	PI2 BPSK	50	0	17.50	17.76	17.82			
40	PI2 BPSK	50	28	17.81	17.78	17.48	19.0	0.0	
40	PI2 BPSK	50	56	17.81	17.85	17.53	19.0	0.0	
40	PI2 BPSK	100	0	17.75	17.80	17.39	19.0	0.0	
40	QPSK	1	1	17.87	17.90	17.70			
40	QPSK	1	53	17.80	17.87	17.73	19.0	0.0	
40	QPSK	1	104	17.51	17.71	17.74			
40	QPSK	50	0	17.82	17.76	17.62	19.0	0.0	
40	QPSK	50	28	17.74	17.79	17.56	19.0	0.0	
40	QPSK	50	56	17.72	17.88	17.75	19.0	0.0	
40	QPSK	100	0	17.42	17.84	17.44	19.0	0.0	
40	16QAM	1	1	17.53	17.71	17.54	19.0	0.0	
40	64QAM	1	1	17.72	17.89	17.66	19.0	0.0	
40	256QAM	1	1	16.76	16.88	16.73	18.0	1.0	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	17.50	17.83	17.72	19.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	17.52	17.88	17.60	19.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	17.48	17.83	17.66	19.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570.02	2595	2614.98			
10	QPSK	1	1	17.64	17.86	17.59	19.0	0.0	

n41 Main PA Ant2 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526002	518598	526000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	17.63	17.83	17.74	19.0	0.0	
100	PI2 BPSK	1	137	17.70	17.92	17.86			
100	PI2 BPSK	1	271	17.45	17.82	17.85	19.0	0.0	
100	PI2 BPSK	135	0	17.43	17.88	17.70			
100	PI2 BPSK	135	69	17.52	17.94	17.66	19.0	0.0	
100	PI2 BPSK	135	138	17.72	17.94	17.79	19.0	0.0	
100	PI2 BPSK	270	0	17.51	17.71	17.73			
100	QPSK	1	1	17.68	17.85	17.91	19.0	0.0	
100	QPSK	1	137	17.45	17.94	17.72			
100	QPSK	1	271	17.70	17.68	17.78	19.0	0.0	
100	QPSK	135	0	17.54	17.85	17.76	19.0	0.0	
100	QPSK	135	69	17.61	17.92	17.84	19.0	0.0	
100	QPSK	135	138	17.67	17.71	17.61	19.0	0.0	
100	QPSK	270	0	17.80	17.88	17.69			
100	16QAM	1	1	17.52	17.66	17.67	19.0	0.0	
100	64QAM	1	1	17.55	17.89	17.64	19.0	0.0	
100	256QAM	1	1	17.80	17.68	17.73	19.0	0.0	
Channel				526200	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.55	17.84	17.81	19.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	17.74	17.87	17.80	19.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2656			
70	QPSK	1	1	17.58	17.85	17.72	19.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.99			
60	QPSK	1	1	17.70	17.92	17.70	19.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.57	17.89	17.72	19.0	0.0	
Channel				523202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2670			
40	QPSK	1	1	17.61	17.84	17.67	19.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	17.77	17.86	17.69	19.0	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.65	17.77	17.85	19.0	0.0	



n2 Main PA Ant3 DSI5 Simultaneous									
BW [MHz]	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	20.9	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	19.75	19.51	19.53			
20	PI2 BPSK	1	53	19.68	19.75	19.39			
20	PI2 BPSK	1	104	19.64	19.79	19.51	20.9	0.0	
20	PI2 BPSK	50	0	19.59	19.69	19.75	20.9	0.0	
20	PI2 BPSK	50	28	19.77	19.55	19.46	20.9	0.0	
20	PI2 BPSK	50	56	19.62	19.68	19.47	20.9	0.0	
20	PI2 BPSK	100	0	19.71	19.67	19.57	20.9	0.0	
20	QPSK	1	1	19.62	19.65	19.59	20.9	0.0	
20	QPSK	1	53	19.66	19.56	19.68			
20	QPSK	1	104	19.76	19.72	19.54			
20	QPSK	50	0	19.75	19.54	19.45			
20	QPSK	50	28	19.58	19.84	19.66	20.9	0.0	
20	QPSK	50	56	19.61	19.76	19.53	20.9	0.0	
20	QPSK	100	0	19.73	19.81	19.57	20.9	0.0	
20	16QAM	1	1	19.61	19.83	19.51	20.9	0.0	
20	64QAM	1	1	19.56	19.83	19.69	20.9	0.0	
20	256QAM	1	1	19.66	19.73	19.72	20.9	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	20.9	0.0	
15	QPSK	1	1	19.74	19.65	19.65	20.9	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1905	1905	20.9	0.0	
10	QPSK	1	1	19.69	19.64	19.65	20.9	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	20.9	0.0	
5	QPSK	1	1	19.74	19.60	19.67	20.9	0.0	

n7 Main PA Ant3 DSI5 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	22.3	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	20.93	21.10	20.98			
40	PI2 BPSK	1	108	21.09	20.99	21.03			
40	PI2 BPSK	1	214	21.16	21.20	21.08	22.3	0.0	
40	PI2 BPSK	108	0	21.08	21.08	20.97	22.3	0.0	
40	PI2 BPSK	108	54	21.15	21.18	21.07	22.3	0.0	
40	PI2 BPSK	108	108	21.11	21.18	21.02	22.3	0.0	
40	PI2 BPSK	216	0	20.95	21.00	21.18	22.3	0.0	
40	QPSK	1	1	21.04	21.22	20.97			
40	QPSK	1	108	21.03	21.11	21.09			
40	QPSK	1	214	20.95	21.01	21.05			
40	QPSK	108	0	21.01	21.10	21.04	22.3	0.0	
40	QPSK	108	54	21.01	21.19	21.09	22.3	0.0	
40	QPSK	108	108	21.04	21.15	21.11	22.3	0.0	
40	QPSK	216	0	20.95	21.18	21.17	22.3	0.0	
40	16QAM	1	1	21.00	21.20	21.04	22.3	0.0	
40	64QAM	1	1	20.95	21.08	21.00	22.3	0.0	
40	256QAM	1	1	19.70	19.75	19.60	20.8	1.5	
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	22.3	0.0	
30	QPSK	1	1	21.07	21.01	21.00	22.3	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	22.3	0.0	
25	QPSK	1	1	21.03	21.18	21.05	22.3	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	22.3	0.0	
20	PI2 BPSK	1	1	21.10	21.17	21.17	22.3	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	22.3	0.0	
15	QPSK	1	1	20.97	21.05	20.99	22.3	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	22.3	0.0	
10	QPSK	1	1	21.01	21.09	21.00	22.3	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	22.3	0.0	
5	QPSK	1	1	20.92	20.99	21.01	22.3	0.0	

n66 Main PA Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.01	23.01	22.92			
40	PI2 BPSK	1	108	22.89	23.07	23.03			
40	PI2 BPSK	1	214	22.90	23.07	23.09	24.0	0.0	
40	PI2 BPSK	108	0	23.03	23.10	22.88	24.0	0.0	
40	PI2 BPSK	108	54	23.11	23.11	23.06	24.0	0.0	
40	PI2 BPSK	108	108	22.93	23.08	22.90	24.0	0.0	
40	PI2 BPSK	216	0	22.95	23.08	22.99	24.0	0.0	
40	QPSK	1	1	23.16	23.18	23.03			
40	QPSK	1	108	22.92	22.92	22.73			
40	QPSK	1	214	22.93	22.99	22.95			
40	QPSK	108	0	23.02	23.10	23.01	24.0	0.0	
40	QPSK	108	54	23.12	23.14	23.04	24.0	0.0	
40	QPSK	108	108	22.96	23.09	22.96	24.0	0.0	
40	QPSK	216	0	23.02	23.07	22.98	24.0	0.0	
40	16QAM	1	1	22.96	23.10	23.03	24.0	0.0	
40	64QAM	1	1	22.15	22.31	22.22	23.0	1.0	
40	256QAM	1	1	19.93	19.94	19.78	21.0	3.0	
Channel				345000	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.08	23.11	22.91	24.0	0.0	
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.02	23.06	22.86	24.0	0.0	
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.06	22.98	22.96	24.0	0.0	
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.16	23.12	23.02	24.0	0.0	
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.04	23.04	22.83	24.0	0.0	

n38 Main PA Ant3 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	518000	518996		
Frequency (MHz)				2560.02	2595	2599.98		
40	PI2 BPSK	1	1	21.18	21.20	21.18		
40	PI2 BPSK	1	53	20.98	21.07	21.00	22.4	0.0
40	PI2 BPSK	1	104	21.19	20.99	21.11		
40	PI2 BPSK	50	0	21.14	21.12	21.02	22.4	0.0
40	PI2 BPSK	50	28	21.20	21.10	20.98	22.4	0.0
40	PI2 BPSK	50	56	21.00	21.22	20.92	22.4	0.0
40	PI2 BPSK	100	0	21.08	21.09	21.15		
40	QPSK	1	1	21.22	21.23	21.16		
40	QPSK	1	53	21.21	21.13	21.08	22.4	0.0
40	QPSK	1	104	21.12	21.16	21.12		
40	QPSK	50	0	21.09	21.24	21.06	22.4	0.0
40	QPSK	50	28	21.13	21.11	21.09	22.4	0.0
40	QPSK	50	56	20.98	21.18	21.23	22.4	0.0
40	QPSK	100	0	21.21	21.22	21.04		
40	16QAM	1	1	21.10	21.13	20.94	22.4	0.0
40	64QAM	1	1	20.75	20.85	20.79	21.9	0.5
40	256QAM	1	1	18.77	18.78	18.81	19.9	2.5
Channel				517002	518000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.20	21.09	21.12	22.4	0.0
Channel				518000	519000	522000		
Frequency (MHz)				2200	2292	2310		
20	QPSK	1	1	21.06	21.11	20.90	22.4	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.11	20.96	20.92	22.4	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2570.02	2595	2614.98		
10	QPSK	1	1	21.03	21.00	20.99	22.4	0.0

n41 Main PA Ant3 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				526002	518598	528000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	20.95	21.00	20.83		
100	PI2 BPSK	1	137	21.08	21.17	20.93	22.4	0.0
100	PI2 BPSK	1	274	20.95	21.17	21.03		
100	PI2 BPSK	135	0	21.11	21.17	20.96	22.4	0.0
100	PI2 BPSK	135	69	20.98	21.05	21.10	22.4	0.0
100	PI2 BPSK	135	138	20.95	21.12	20.95	22.4	0.0
100	PI2 BPSK	270	0	21.01	20.93	21.00		
100	QPSK	1	1	21.22	21.25	21.17		
100	QPSK	1	137	21.16	21.22	20.98	22.4	0.0
100	QPSK	1	274	20.90	21.07	20.85		
100	QPSK	135	0	21.19	21.10	20.90	22.4	0.0
100	QPSK	135	69	21.16	21.23	21.11	22.4	0.0
100	QPSK	135	138	20.85	21.15	20.91	22.4	0.0
100	QPSK	270	0	21.03	21.22	21.08		
100	16QAM	1	1	21.21	21.14	21.01	22.4	0.0
100	64QAM	1	1	20.96	21.00	21.02	22.4	0.0
100	256QAM	1	1	20.01	20.05	20.02	21.4	1.0
Channel				525000	518598	529998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.04	21.12	20.84	22.4	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2534.02	2592.99	2643.99		
80	QPSK	1	1	20.98	21.15	20.94	22.4	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	21.07	21.19	20.90	22.4	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2626	2592.99	2659.99		
60	QPSK	1	1	21.04	21.05	20.98	22.4	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.19	21.09	21.00	22.4	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.20	21.03	20.80	22.4	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.17	21.07	20.94	22.4	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.17	21.16	20.88	22.4	0.0



Reduced Power Mode for Main PA DSI5

n2 Main PA Ant0 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1660	1660	1660			
Frequency (MHz)				1660	1660	1660			
20	PI2 BPSK	1	1	18.42	18.50	18.41	20.1	0.0	
20	PI2 BPSK	1	53	18.34	18.45	18.21			
20	PI2 BPSK	1	104	18.34	18.55	18.39			
20	PI2 BPSK	50	0	18.28	18.56	18.34	20.1	0.0	
20	PI2 BPSK	50	28	18.38	18.40	18.35	20.1	0.0	
20	PI2 BPSK	50	56	18.41	18.51	18.29	20.1	0.0	
20	PI2 BPSK	100	0	18.30	18.47	18.43			
20	QPSK	1	1	18.43	18.60	18.41			
20	QPSK	1	53	18.37	18.46	18.41	20.1	0.0	
20	QPSK	1	104	18.34	18.45	18.27			
20	QPSK	50	0	18.31	18.50	18.25	20.1	0.0	
20	QPSK	50	28	18.29	18.55	18.27	20.1	0.0	
20	QPSK	50	56	18.44	18.42	18.20	20.1	0.0	
20	QPSK	100	0	18.43	18.49	18.39			
20	16QAM	1	1	18.37	18.53	18.35	20.1	0.0	
20	64QAM	1	1	18.26	18.42	18.31	20.1	0.0	
20	256QAM	1	1	18.26	18.52	18.38	20.1	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1860	1902.5	(dBm)		
15	QPSK	1	1	18.31	18.52	18.21	20.1	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1905	(dBm)		
10	QPSK	1	1	18.33	18.59	18.35	20.1	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1907.5	(dBm)		
5	QPSK	1	1	18.31	18.38	18.35	20.1	0.0	

n5 Main PA 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				166800	167300	167800			
Frequency (MHz)				834	836.5	835			
20	PI2 BPSK	1	1	22.73	22.92	22.87	24.0	0.0	
20	PI2 BPSK	1	53	22.76	22.86	22.73			
20	PI2 BPSK	1	104	22.70	22.88	22.74			
20	PI2 BPSK	50	0	22.70	22.87	22.74	24.0	0.0	
20	PI2 BPSK	50	28	22.86	22.95	22.81	24.0	0.0	
20	PI2 BPSK	50	56	22.80	22.90	22.86	24.0	0.0	
20	PI2 BPSK	100	0	22.87	22.94	22.76			
20	QPSK	1	1	23.31	23.34	23.12			
20	QPSK	1	53	22.62	22.62	22.73	24.0	0.0	
20	QPSK	1	104	22.77	22.86	22.62			
20	QPSK	50	0	22.74	22.93	22.82	24.0	0.0	
20	QPSK	50	28	23.21	23.23	23.22	24.0	0.0	
20	QPSK	50	56	22.68	22.88	22.86	24.0	0.0	
20	QPSK	100	0	23.21	23.29	23.22			
20	16QAM	1	1	22.83	22.98	22.89	24.0	0.0	
20	64QAM	1	1	22.13	22.14	21.93	23.0	1.0	
20	256QAM	1	1	19.31	19.43	19.28	21.0	3.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	(dBm)		
15	QPSK	1	1	23.16	23.19	23.00	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	(dBm)		
10	QPSK	1	1	23.11	23.25	22.94	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	(dBm)		
5	QPSK	1	1	23.24	23.29	23.12	24.0	0.0	

n7 Main PA Ant0 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2500	2535	2550			
Frequency (MHz)				2500	2535	2550			
40	PI2 BPSK	1	1	16.94	17.03	17.02	18.5	0.0	
40	PI2 BPSK	1	108	17.05	16.97	16.98			
40	PI2 BPSK	1	214	16.96	16.99	17.03			
40	PI2 BPSK	108	0	17.08	16.94	16.99	18.5	0.0	
40	PI2 BPSK	108	54	16.95	17.00	17.00	18.5	0.0	
40	PI2 BPSK	108	108	17.06	16.94	17.07	18.5	0.0	
40	PI2 BPSK	216	0	17.12	17.13	17.04			
40	QPSK	1	1	17.12	17.14	17.06			
40	QPSK	1	108	17.05	16.95	16.86	18.5	0.0	
40	QPSK	1	214	17.13	17.10	16.86			
40	QPSK	108	0	17.10	17.02	16.86	18.5	0.0	
40	QPSK	108	54	17.11	17.12	16.93	18.5	0.0	
40	QPSK	108	108	16.94	17.11	16.98	18.5	0.0	
40	QPSK	216	0	17.05	17.10	17.04			
40	16QAM	1	1	17.03	17.10	16.96	18.5	0.0	
40	64QAM	1	1	16.94	17.01	16.90	18.5	0.0	
40	256QAM	1	1	17.09	17.02	16.93	18.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	(dBm)		
30	QPSK	1	1	17.02	17.13	16.89	18.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)		
25	QPSK	1	1	17.05	17.12	17.06	18.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	(dBm)		
20	PI2 BPSK	1	1	16.93	17.08	16.91	18.5	0.0	
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)		
15	QPSK	1	1	17.03	16.98	17.01	18.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	(dBm)		
10	QPSK	1	1	17.10	17.10	17.02	18.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)		
5	QPSK	1	1	17.09	17.08	16.96	18.5	0.0	

n26 Main PA 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				164800	166300	167800	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	23.07	23.08	22.97		
20	PI2 BPSK	1	53	22.98	23.07	22.91	24.0	0.0
20	PI2 BPSK	1	104	22.93	22.94	22.89		
20	PI2 BPSK	50	0	23.02	23.11	23.09		
20	PI2 BPSK	50	28	23.07	23.08	22.97	24.0	0.0
20	PI2 BPSK	50	56	22.76	22.98	22.91		
20	PI2 BPSK	100	0	23.08	23.08	23.06		
20	QPSK	1	1	23.15	23.17	23.13	24.0	0.0
20	QPSK	1	53	22.96	23.07	22.99		
20	QPSK	1	104	22.91	22.94	22.94		
20	QPSK	50	0	22.93	23.11	22.96	24.0	0.0
20	QPSK	50	28	23.12	23.15	22.91		
20	QPSK	50	56	22.84	22.98	22.77		
20	QPSK	100	0	23.05	23.10	22.94	24.0	0.0
20	16QAM	1	1	22.72	22.76	22.62		
20	64QAM	1	1	22.53	22.62	22.53		
20	256QAM	1	1	19.66	19.72	19.52	21.0	3.0
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				821.5	831.5	841.5	(dB)	(dB)
15	QPSK	1	1	22.99	23.08	23.14	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR
Frequency (MHz)				819	831.5	844	(dBm)	(dB)
10	QPSK	1	1	23.12	23.16	23.05	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)
5	QPSK	1	1	23.02	23.05	22.93	24.0	0.0

n66 Main PA Ant0 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				348000	349000	350000	18.9	0.0
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	17.53	17.67	17.55		
40	PI2 BPSK	1	108	17.47	17.60	17.55	18.9	0.0
40	PI2 BPSK	1	214	17.56	17.70	17.69		
40	PI2 BPSK	108	0	17.45	17.59	17.47		
40	PI2 BPSK	108	54	17.57	17.55	17.61	18.9	0.0
40	PI2 BPSK	108	108	17.46	17.70	17.59		
40	PI2 BPSK	216	0	17.63	17.61	17.68		
40	QPSK	1	1	17.62	17.74	17.68	18.9	0.0
40	QPSK	1	108	17.55	17.59	17.58		
40	QPSK	1	214	17.46	17.70	17.47		
40	QPSK	108	0	17.57	17.54	17.53	18.9	0.0
40	QPSK	108	54	17.52	17.72	17.57		
40	QPSK	108	108	17.44	17.68	17.51		
40	QPSK	216	0	17.58	17.67	17.48	18.9	0.0
40	16QAM	1	1	17.60	17.55	17.60		
40	64QAM	1	1	17.56	17.71	17.60		
40	256QAM	1	1	17.58	17.70	17.68	18.9	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	17.53	17.53	17.70	18.9	0.0
Channel				348000	349000	350000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	17.46	17.56	17.63	18.9	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	17.44	17.60	17.57	18.9	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	17.52	17.62	17.69	18.9	0.0
Channel				342000	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	17.62	17.64	17.51	18.9	0.0

n38 Main PA Ant0 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	17.67	17.80	17.81			
40	PI/2 BPSK	1	53	17.83	17.83	17.80	18.7	0.0	
40	PI/2 BPSK	1	104	17.83	17.89	17.49			
40	PI/2 BPSK	50	0	17.83	17.90	17.65	18.7	0.0	
40	PI/2 BPSK	50	28	17.79	17.85	17.49	18.7	0.0	
40	PI/2 BPSK	50	56	17.70	17.89	17.81	18.7	0.0	
40	PI/2 BPSK	100	0	17.69	17.82	17.59			
40	QPSK	1	1	17.82	17.94	17.68			
40	QPSK	1	53	17.65	17.81	17.66	18.7	0.0	
40	QPSK	1	104	17.83	17.89	17.54			
40	QPSK	50	0	17.74	17.78	17.87	18.7	0.0	
40	QPSK	50	28	17.61	17.82	17.47	18.7	0.0	
40	QPSK	80	56	17.66	17.85	17.51	18.7	0.0	
40	QPSK	100	0	17.77	17.90	17.80			
40	16QAM	1	1	17.86	17.90	17.54	18.7	0.0	
40	64QAM	1	1	17.63	17.75	17.57	18.7	0.0	
40	256QAM	1	1	17.76	17.81	17.58	18.7	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	17.63	17.85	17.54	18.7	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570	2595	2610			
20	QPSK	1	1	17.80	17.89	17.54	18.7	0.0	
Channel				515502	519000	520498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	17.63	17.88	17.69	18.7	0.0	
Channel				515004	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.03	2595	2614.98			
10	QPSK	1	1	17.77	17.78	17.47	18.7	0.0	

n41 Main PA Ant0 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518998	520000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	17.66	17.67	17.64			
100	PI/2 BPSK	1	137	17.71	17.78	17.74	18.7	0.0	
100	PI/2 BPSK	1	271	17.65	17.87	17.65			
100	PI/2 BPSK	135	0	17.89	17.80	17.70	18.7	0.0	
100	PI/2 BPSK	135	69	17.86	17.81	17.79	18.7	0.0	
100	PI/2 BPSK	135	138	17.59	17.80	17.70	18.7	0.0	
100	PI/2 BPSK	270	0	17.71	17.77	17.73			
100	QPSK	1	1	17.76	17.88	17.78			
100	QPSK	1	137	17.70	17.78	17.68	18.7	0.0	
100	QPSK	1	271	17.89	17.80	17.71			
100	QPSK	135	0	17.73	17.68	17.74	18.7	0.0	
100	QPSK	135	69	17.83	17.82	17.83	18.7	0.0	
100	QPSK	135	138	17.57	17.73	17.59	18.7	0.0	
100	QPSK	270	0	17.71	17.80	17.80			
100	16QAM	1	1	17.71	17.85	17.83	18.7	0.0	
100	64QAM	1	1	17.58	17.72	17.58	18.7	0.0	
100	256QAM	1	1	17.71	17.85	17.74	18.7	0.0	
Channel				509200	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.57	17.70	17.82	18.7	0.0	
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	17.77	17.85	17.68	18.7	0.0	
Channel				506202	518998	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	17.63	17.74	17.79	18.7	0.0	
Channel				505200	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	17.77	17.75	17.77	18.7	0.0	
Channel				504204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.85	17.73	17.75	18.7	0.0	
Channel				503202	518998	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.77	17.82	17.70	18.7	0.0	
Channel				502200	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	17.60	17.75	17.64	18.7	0.0	
Channel				501204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.73	17.80	17.77	18.7	0.0	

n2 Main PA Ant1 DS15

BW (MHz)	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	14.47	14.51	14.30		
20	PI2 BPSK	1	53	14.52	14.65	14.40	15.5	0.0
20	PI2 BPSK	1	104	14.40	14.51	14.29	15.5	0.0
20	PI2 BPSK	50	0	14.36	14.63	14.32		
20	PI2 BPSK	50	28	14.57	14.50	14.30		
20	PI2 BPSK	50	56	14.51	14.63	14.47	15.5	0.0
20	PI2 BPSK	100	0	14.39	14.50	14.47	15.5	0.0
20	QPSK	1	1	14.57	14.67	14.50		
20	QPSK	1	53	14.49	14.46	14.39		
20	QPSK	1	104	14.55	14.46	14.33	15.5	0.0
20	QPSK	50	0	14.49	14.50	14.38		
20	QPSK	50	28	14.35	14.65	14.35		
20	QPSK	50	56	14.46	14.60	14.31	15.5	0.0
20	QPSK	100	0	14.40	14.62	14.30	15.5	0.0
20	16QAM	1	1	14.47	14.45	14.39		
20	64QAM	1	1	14.35	14.50	14.36		
20	256QAM	1	1	14.40	14.51	14.35	15.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1902.5		
15	QPSK	1	1	14.44	14.55	14.33		15.5
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	14.54	14.65	14.32		15.5
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	QPSK	1	1	14.51	14.63	14.52		15.5

n5 Main PA Ant1 DS15

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166500	167000	167500		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	21.29	21.50	21.28		
20	PI2 BPSK	1	53	21.28	21.48	21.35		
20	PI2 BPSK	1	104	21.24	21.41	21.41		
20	PI2 BPSK	50	0	21.25	21.48	21.39	23.2	0.0
20	PI2 BPSK	50	28	21.34	21.44	21.23	23.2	0.0
20	PI2 BPSK	50	56	21.30	21.37	21.32		
20	PI2 BPSK	100	0	21.23	21.40	21.32		
20	QPSK	1	1	21.36	21.55	21.44	23.2	0.0
20	QPSK	1	53	21.24	21.46	21.44		
20	QPSK	1	104	21.27	21.38	21.25		
20	QPSK	50	0	21.23	21.42	21.39	23.2	0.0
20	QPSK	50	28	21.25	21.52	21.35	23.2	0.0
20	QPSK	50	56	21.36	21.41	21.35		
20	QPSK	100	0	21.28	21.47	21.31		
20	16QAM	1	1	21.21	21.35	21.36	23.2	0.0
20	64QAM	1	1	21.26	21.38	21.38		
20	256QAM	1	1	19.22	19.38	19.40		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	23.2	0.0
15	QPSK	1	1	21.28	21.50	21.38	23.2	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	21.34	21.37	21.23	23.2	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	23.2	0.0
5	QPSK	1	1	21.31	21.51	21.25	23.2	0.0



n7 Main PA Ant1 DSI5									
BW [MHz]	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	PV2 BPSK	1	1	18.42	18.62	18.61			
40	PV2 BPSK	1	108	18.50	18.49	18.56	19.7	0.0	
40	PV2 BPSK	1	214	18.54	18.59	18.57			
40	PV2 BPSK	108	0	18.45	18.57	18.57	19.7	0.0	
40	PV2 BPSK	108	54	18.43	18.58	18.51	19.7	0.0	
40	PV2 BPSK	108	108	18.43	18.48	18.45	19.7	0.0	
40	PV2 BPSK	216	0	18.45	18.41	18.60			
40	QPSK	1	1	18.55	18.63	18.61			
40	QPSK	1	108	18.36	18.49	18.45	19.7	0.0	
40	QPSK	1	214	18.33	18.53	18.59			
40	QPSK	108	0	18.38	18.52	18.40	19.7	0.0	
40	QPSK	108	54	18.53	18.60	18.39	19.7	0.0	
40	QPSK	108	108	18.35	18.55	18.42			
40	QPSK	216	0	18.35	18.55	18.53	19.7	0.0	
40	16QAM	1	1	18.41	18.44	18.40	19.7	0.0	
40	64QAM	1	1	18.36	18.49	18.52	19.7	0.0	
40	256QAM	1	1	18.36	18.49	18.60	19.7	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.40	18.57	18.59	19.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.33	18.50	18.60	19.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2510	2535	2560			
20	PV2 BPSK	1	1	18.53	18.57	18.40	19.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.55	18.48	18.40	19.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.36	18.43	18.58	19.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.44	18.46	18.48	19.7	0.0	

n26 Main PA Ant1 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PV2 BPSK	1	1	21.31	21.71	21.28			
20	PV2 BPSK	1	53	21.36	21.70	21.43	23.2		0.0
20	PV2 BPSK	1	104	21.35	21.59	21.31			
20	PV2 BPSK	50	0	21.28	21.70	21.29	23.2		0.0
20	PV2 BPSK	50	28	21.42	21.63	21.39	23.2		0.0
20	PV2 BPSK	50	56	21.46	21.63	21.49			0.0
20	PV2 BPSK	100	0	21.39	21.55	21.36			
20	QPSK	1	1	21.45	21.74	21.47			
20	QPSK	1	53	21.29	21.72	21.46	23.2		0.0
20	QPSK	1	104	21.34	21.62	21.40			
20	QPSK	50	0	21.45	21.58	21.47	23.2		0.0
20	QPSK	50	28	21.24	21.70	21.49	23.2		0.0
20	QPSK	50	56	21.41	21.63	21.42			
20	QPSK	100	0	21.43	21.65	21.48	23.2		0.0
20	16QAM	1	1	21.33	21.63	21.49	23.2		0.0
20	64QAM	1	1	21.20	21.09	20.93	22.7		0.5
20	256QAM	1	1	18.78	19.86	19.77	21.2		2.0
Channel				165300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	21.40	21.70	21.47	23.2		0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				810	831.5	844			
10	QPSK	1	1	21.34	21.67	21.47	23.2		0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	21.29	21.53	21.47	23.2		0.0

n66 Main PA Ant1 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	350000			
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	15.62	16.00	15.64			
40	PV2 BPSK	1	108	15.64	15.91	15.60	16.8	0.0	
40	PV2 BPSK	1	214	15.78	15.84	15.80			
40	PV2 BPSK	108	0	15.72	15.79	15.73	16.8	0.0	
40	PV2 BPSK	108	54	15.71	15.89	15.77	16.8	0.0	
40	PV2 BPSK	108	108	15.69	15.98	15.76	16.8	0.0	
40	PV2 BPSK	216	0	15.57	15.85	15.61			
40	QPSK	1	1	15.76	16.01	15.81			
40	QPSK	1	108	15.77	15.98	15.59	16.8	0.0	
40	QPSK	1	214	15.77	15.88	15.59			
40	QPSK	108	0	15.71	15.95	15.63	16.8	0.0	
40	QPSK	108	54	15.69	16.00	15.71	16.8	0.0	
40	QPSK	108	108	15.63	15.93	15.60			
40	QPSK	216	0	15.70	15.91	15.62			
40	16QAM	1	1	15.56	15.91	15.71	16.8	0.0	
40	64QAM	1	1	15.75	15.93	15.75	16.8	0.0	
40	256QAM	1	1	15.58	15.95	15.59	16.8	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.80	15.96	15.80	16.8	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	15.83	15.93	15.61	16.8	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.79	15.80	15.83	16.8	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.78	15.83	15.73	16.8	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.77	15.90	15.62	16.8	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.62	15.98	15.83	16.8	0.0	

n38 Main PA Ant1 DSI5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	20.30	20.57	20.49			
40	PI2 BPSK	1	53	20.35	20.42	20.37	21.5	0.0	
40	PI2 BPSK	1	104	20.51	20.42	20.41			
40	PI2 BPSK	50	0	20.30	20.57	20.45	21.5	0.0	
40	PI2 BPSK	50	28	20.34	20.56	20.40	21.5	0.0	
40	PI2 BPSK	50	56	20.31	20.46	20.50	21.5	0.0	
40	PI2 BPSK	100	0	20.35	20.50	20.38			
40	QPSK	1	1	20.50	20.62	20.49			
40	QPSK	1	53	20.33	20.57	20.28	21.5	0.0	
40	QPSK	1	104	20.46	20.51	20.49			
40	QPSK	50	0	20.49	20.45	20.42	21.5	0.0	
40	QPSK	50	28	20.47	20.57	20.39	21.5	0.0	
40	QPSK	50	56	20.33	20.53	20.50			
40	QPSK	100	0	20.44	20.50	20.42	21.5	0.0	
40	16QAM	1	1	20.44	20.60	20.28	21.5	0.0	
40	64QAM	1	1	20.30	20.55	20.36	21.5	0.0	
40	256QAM	1	1	18.58	18.57	18.62	19.5	2.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	20.42	20.50	20.39	21.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	20.36	20.48	20.30	21.5	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	20.30	20.57	20.37	21.5	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.02	2595	2614.98			
10	QPSK	1	1	20.40	20.58	20.50	21.5	0.0	

n41 Main PA Ant1 DSI5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				256002	258000	259000			
Frequency (MHz)				2548.01	2562.99	2640			
100	PI2 BPSK	1	1	20.20	20.50	20.30			
100	PI2 BPSK	1	137	20.36	20.68	20.34	21.5	0.0	
100	PI2 BPSK	1	274	20.26	20.49	20.19			
100	PI2 BPSK	135	0	20.18	20.50	20.38	21.5	0.0	
100	PI2 BPSK	135	69	20.39	20.60	20.39	21.5	0.0	
100	PI2 BPSK	135	138	20.25	20.49	20.37	21.5	0.0	
100	PI2 BPSK	270	0	20.20	20.52	20.29			
100	QPSK	1	1	20.40	20.60	20.39			
100	QPSK	1	137	20.35	20.64	20.40	21.5	0.0	
100	QPSK	1	274	20.29	20.61	20.34			
100	QPSK	135	0	20.40	20.60	20.38	21.5	0.0	
100	QPSK	135	69	20.38	20.65	20.39	21.5	0.0	
100	QPSK	135	138	20.26	20.57	20.25	21.5	0.0	
100	QPSK	270	0	20.24	20.58	20.29			
100	16QAM	1	1	20.38	20.60	20.21	21.5	0.0	
100	64QAM	1	1	20.41	20.55	20.22	21.5	0.0	
100	256QAM	1	1	19.98	20.21	20.33	21.0	0.5	
Channel				505002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98			
90	QPSK	1	1	20.39	20.54	20.20	21.5	0.0	
Channel				507004	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.02	2562.99	2643.99			
80	QPSK	1	1	20.22	20.62	20.19	21.5	0.0	
Channel				506002	518000	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2562.99	2656			
70	QPSK	1	1	20.21	20.50	20.30	21.5	0.0	
Channel				505000	518000	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2562.99	2659.99			
60	QPSK	1	1	20.41	20.60	20.23	21.5	0.0	
Channel				504004	518000	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	20.32	20.58	20.28	21.5	0.0	
Channel				503002	518000	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670			
40	QPSK	1	1	20.23	20.55	20.41	21.5	0.0	
Channel				502000	518000	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.99			
30	QPSK	1	1	20.18	20.59	20.24	21.5	0.0	
Channel				501004	518000	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.99			
20	QPSK	1	1	20.36	20.57	20.27	21.5	0.0	



n2 Main PA 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				372000	370000	380000	23.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PV2 BPSK	1	1	22.12	22.29	22.31		
20	PV2 BPSK	1	53	22.26	22.32	22.25		
20	PV2 BPSK	1	104	22.19	22.21	22.01	23.0	0.0
20	PV2 BPSK	50	0	22.31	22.32	22.30	23.0	0.0
20	PV2 BPSK	50	28	22.16	22.29	22.14	23.0	0.0
20	PV2 BPSK	50	56	22.12	22.20	22.11	23.0	0.0
20	PV2 BPSK	100	0	22.29	22.32	22.21	23.0	0.0
20	QPSK	1	1	22.32	22.34	22.19		
20	QPSK	1	53	22.33	22.32	22.32		
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04	23.0	0.0
20	QPSK	50	28	22.23	22.29	22.12	23.0	0.0
20	QPSK	50	56	22.14	22.21	22.14	23.0	0.0
20	QPSK	100	0	22.22	22.27	22.06	23.0	0.0
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	64QAM	1	1	21.74	21.73	21.71	22.0	1.0
20	256QAM	1	1	19.00	19.09	18.90	20.0	3.0
Channel				371500	370000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1907.5		
15	QPSK	1	1	22.20	22.28	22.09	23.0	0.0
Channel				371000	370000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1900	1905		
10	QPSK	1	1	22.13	22.25	22.06	23.0	0.0
Channel				370500	370000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	QPSK	1	1	22.32	22.14	22.14	23.0	0.0

n7 Main PA Ant2 DS15

BW [MHz]	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	19.8	0.0
Frequency (MHz)				2520	2535	2550		
40	PV2 BPSK	1	1	18.92	18.89	18.83		
40	PV2 BPSK	1	108	18.82	18.92	18.90		
40	PV2 BPSK	1	214	18.92	18.89	18.99	19.8	0.0
40	PV2 BPSK	108	0	18.93	18.94	18.84	19.8	0.0
40	PV2 BPSK	108	54	18.89	18.94	18.89	19.8	0.0
40	PV2 BPSK	108	108	18.89	18.84	18.87	19.8	0.0
40	PV2 BPSK	216	0	18.81	18.85	18.94	19.8	0.0
40	QPSK	1	1	18.91	18.95	18.94		
40	QPSK	1	108	18.93	18.92	18.89		
40	QPSK	1	214	18.91	18.87	18.91		
40	QPSK	108	0	18.90	18.83	18.90	19.8	0.0
40	QPSK	108	54	18.84	18.94	18.82	19.8	0.0
40	QPSK	108	108	18.89	18.91	18.92	19.8	0.0
40	QPSK	216	0	18.81	18.84	18.82	19.8	0.0
40	16QAM	1	1	18.94	18.85	18.82	19.8	0.0
40	64QAM	1	1	18.92	18.91	18.84	19.8	0.0
40	256QAM	1	1	18.84	18.94	18.84	19.8	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.89	18.84	18.87	19.8	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.81	18.93	18.80	19.8	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PV2 BPSK	1	1	18.92	18.84	18.92	19.8	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.92	18.89	18.84	19.8	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.92	18.84	18.92	19.8	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.92	18.94	18.89	19.8	0.0

n66 Main PA 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				346000	348000	352000	23.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	22.01	22.01	21.98		
40	PV2 BPSK	1	108	21.78	21.87	21.85		
40	PV2 BPSK	1	214	21.87	21.84	21.75	23.0	0.0
40	PV2 BPSK	108	0	21.76	21.98	21.99	23.0	0.0
40	PV2 BPSK	108	54	21.69	21.89	21.78	23.0	0.0
40	PV2 BPSK	108	108	21.67	21.88	21.90	23.0	0.0
40	PV2 BPSK	216	0	21.73	21.94	21.91	23.0	0.0
40	QPSK	1	1	22.04	22.25	22.01		
40	QPSK	1	108	21.73	21.76	21.71		
40	QPSK	1	214	21.78	21.87	21.71		
40	QPSK	108	0	21.98	21.98	21.86	23.0	0.0
40	QPSK	108	54	21.81	22.06	21.91	23.0	0.0
40	QPSK	108	108	21.76	21.95	21.86	23.0	0.0
40	QPSK	216	0	21.87	22.04	21.92	23.0	0.0
40	16QAM	1	1	21.74	21.91	21.85	23.0	0.0
40	64QAM	1	1	21.02	21.18	21.08	22.0	1.0
40	256QAM	1	1	18.85	18.99	18.86	20.0	3.0
Channel				345000	348000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.94	22.09	22.02	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.89	22.07	21.90	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.83	22.19	22.03	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.87	22.16	21.93	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.90	22.07	21.84	23.0	0.0

n38 Main PA Ant2 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2580.02	2595	2599.98			
40	PI2 BPSK	1	1	18.73	18.69	18.69	20.0	0.0	
40	PI2 BPSK	1	53	18.62	18.71	18.57			
40	PI2 BPSK	1	104	18.71	18.88	18.71			
40	PI2 BPSK	50	0	18.60	18.82	18.69	20.0	0.0	
40	PI2 BPSK	50	28	18.64	18.86	18.64	20.0	0.0	
40	PI2 BPSK	50	56	18.58	18.77	18.63	20.0	0.0	
40	PI2 BPSK	100	0	18.71	18.70	18.52	20.0	0.0	
40	QPSK	1	1	18.75	18.90	18.72			
40	QPSK	1	53	18.72	18.84	18.67			
40	QPSK	1	104	18.65	18.71	18.72	20.0	0.0	
40	QPSK	50	0	18.67	18.84	18.56			
40	QPSK	50	28	18.75	18.83	18.54			
40	QPSK	50	56	18.75	18.83	18.73	20.0	0.0	
40	QPSK	100	0	18.58	18.79	18.56	20.0	0.0	
40	16QAM	1	1	18.69	18.83	18.53	20.0	0.0	
40	64QAM	1	1	18.71	18.87	18.70	20.0	0.0	
40	256QAM	1	1	18.89	17.04	17.01	18.0	2.0	
Channel				517002	519000	520098	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.71	18.70	18.52	20.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	18.68	18.78	18.72	20.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	18.75	18.73	18.61	20.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2570.02	2595	2614.98			
10	QPSK	1	1	18.55	18.84	18.64	20.0	0.0	

n41 Main PA Ant2 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				520002	518598	520000			
Frequency (MHz)				2546.01	2562.99	2640			
100	PI2 BPSK	1	1	18.75	18.80	18.85	20.0	0.0	
100	PI2 BPSK	1	137	18.75	18.86	18.71			
100	PI2 BPSK	1	271	18.60	18.77	18.65			
100	PI2 BPSK	135	0	18.57	18.82	18.64	20.0	0.0	
100	PI2 BPSK	135	69	18.62	18.90	18.80	20.0	0.0	
100	PI2 BPSK	135	138	18.71	18.93	18.84	20.0	0.0	
100	PI2 BPSK	270	0	18.60	18.83	18.73			
100	QPSK	1	1	18.76	18.95	18.84			
100	QPSK	1	137	18.58	18.92	18.84	20.0	0.0	
100	QPSK	1	271	18.73	18.85	18.79	20.0	0.0	
100	QPSK	135	0	18.67	18.92	18.69			
100	QPSK	135	69	18.60	18.89	18.86			
100	QPSK	135	138	18.74	18.82	18.73	20.0	0.0	
100	QPSK	270	0	18.76	18.86	18.66	20.0	0.0	
100	16QAM	1	1	18.62	18.80	18.68	20.0	0.0	
100	64QAM	1	1	18.67	18.92	18.75	20.0	0.0	
100	256QAM	1	1	18.77	18.83	18.70	20.0	0.0	
Channel				506200	518598	520996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98			
90	QPSK	1	1	18.56	18.90	18.78	20.0	0.0	
Channel				505200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.02	2562.99	2649.99			
80	QPSK	1	1	18.70	18.91	18.77	20.0	0.0	
Channel				504202	518598	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2562.99	2656			
70	QPSK	1	1	18.59	18.81	18.66	20.0	0.0	
Channel				503200	518598	521996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2562.99	2659.99			
60	QPSK	1	1	18.68	18.85	18.84	20.0	0.0	
Channel				502204	518598	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	18.58	18.75	18.76	20.0	0.0	
Channel				520202	518598	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2562.99	2670			
40	QPSK	1	1	18.71	18.92	18.72	20.0	0.0	
Channel				502200	518598	524996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98			
30	QPSK	1	1	18.65	18.77	18.66	20.0	0.0	
Channel				501204	518598	525996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.99			
20	QPSK	1	1	18.60	18.84	18.65	20.0	0.0	



n2 Main PA Ant3 DSI5									
BW [MHz]	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	21.9	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	20.79	20.62	20.55	21.9	0.0	
20	PI2 BPSK	1	53	20.79	20.72	20.56			
20	PI2 BPSK	1	104	20.80	20.78	20.63	21.9	0.0	
20	PI2 BPSK	50	0	20.63	20.78	20.73	21.9	0.0	
20	PI2 BPSK	50	28	20.70	20.70	20.59	21.9	0.0	
20	PI2 BPSK	50	58	20.58	20.77	20.50	21.9	0.0	
20	PI2 BPSK	100	0	20.72	20.65	20.65	21.9	0.0	
20	QPSK	1	1	20.79	20.62	20.72			
20	QPSK	1	53	20.76	20.60	20.66	21.9	0.0	
20	QPSK	1	104	20.76	20.70	20.51	21.9	0.0	
20	QPSK	50	0	20.77	20.60	20.56			
20	QPSK	50	28	20.74	20.78	20.66	21.9	0.0	
20	QPSK	50	58	20.73	20.74	20.50	21.9	0.0	
20	QPSK	100	0	20.68	20.75	20.70	21.9	0.0	
20	16QAM	1	1	20.72	20.80	20.57			
20	64QAM	1	1	20.71	20.77	20.71	21.9	0.0	
20	256QAM	1	1	20.05	20.16	20.21	21.4	0.5	
Channel				371500	371000	369500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	21.9	0.0	
15	QPSK	1	1	20.59	20.74	20.66			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1900	1905	21.9	0.0	
10	QPSK	1	1	20.71	20.66	20.73			
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	21.9	0.0	
5	QPSK	1	1	20.65	20.74	20.62			

n7 Main PA Ant3 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	510000	23.3	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	22.06	22.18	22.07	23.3	0.0	
40	PI2 BPSK	1	108	21.97	22.06	22.11			
40	PI2 BPSK	1	214	22.01	22.10	21.98	23.3	0.0	
40	PI2 BPSK	108	0	22.08	22.11	22.00	23.3	0.0	
40	PI2 BPSK	108	54	22.03	22.15	22.03	23.3	0.0	
40	PI2 BPSK	108	108	22.07	22.19	22.11	23.3	0.0	
40	PI2 BPSK	216	0	21.97	22.00	21.97	23.3	0.0	
40	QPSK	1	1	22.14	22.20	22.18			
40	QPSK	1	108	22.07	22.17	22.05	23.3	0.0	
40	QPSK	1	214	21.95	22.05	22.15	23.3	0.0	
40	QPSK	108	0	21.98	22.18	22.08			
40	QPSK	108	54	21.98	22.09	22.09	23.3	0.0	
40	QPSK	108	108	22.00	22.17	22.07	23.3	0.0	
40	QPSK	216	0	22.01	22.15	22.10	23.3	0.0	
40	16QAM	1	1	22.13	22.12	22.16			
40	64QAM	1	1	22.10	22.03	22.01	23.3	0.0	
40	256QAM	1	1	19.70	19.75	19.80	20.8	2.5	
Channel				503500	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	23.3	0.0	
30	QPSK	1	1	22.10	22.05	21.98			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	23.3	0.0	
25	QPSK	1	1	22.02	22.01	22.07			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	23.3	0.0	
20	PI2 BPSK	1	1	22.07	22.05	22.00			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	23.3	0.0	
15	QPSK	1	1	22.01	22.10	22.14			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	23.3	0.0	
10	QPSK	1	1	22.05	22.17	22.09			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	23.3	0.0	
5	QPSK	1	1	22.06	22.16	22.03			

n66 Main PA Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.01	23.01	22.92	24.0	0.0	
40	PI2 BPSK	1	108	22.89	23.07	23.03			
40	PI2 BPSK	1	214	22.90	23.07	23.09	24.0	0.0	
40	PI2 BPSK	108	0	23.03	23.10	22.88	24.0	0.0	
40	PI2 BPSK	108	54	23.11	23.11	23.06	24.0	0.0	
40	PI2 BPSK	108	108	22.93	23.08	22.90	24.0	0.0	
40	PI2 BPSK	216	0	22.95	23.08	22.99	24.0	0.0	
40	QPSK	1	1	23.16	23.16	23.03			
40	QPSK	1	108	22.92	22.92	22.73	24.0	0.0	
40	QPSK	1	214	22.93	22.99	22.95	24.0	0.0	
40	QPSK	108	0	23.02	23.10	23.01			
40	QPSK	108	54	23.12	23.14	23.04	24.0	0.0	
40	QPSK	108	108	22.96	23.09	22.96	24.0	0.0	
40	QPSK	216	0	23.02	23.07	22.98	24.0	0.0	
40	16QAM	1	1	22.96	23.10	23.03			
40	64QAM	1	1	22.15	22.31	22.22	23.0	1.0	
40	256QAM	1	1	19.93	19.94	19.78	21.0	3.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.08	23.11	22.91			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.02	23.06	22.86			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.06	22.98	22.96			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.16	23.12	23.02			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.04	23.04	22.83			

n38 Main PA Ant3 DSI5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	22.22	22.24	22.13	23.4		
40	PI2 BPSK	1	53	22.07	22.18	22.05			
40	PI2 BPSK	1	104	22.15	22.11	22.21		0.0	
40	PI2 BPSK	50	0	22.24	22.22	22.07	23.4	0.0	
40	PI2 BPSK	50	28	22.23	22.15	22.10	23.4	0.0	
40	PI2 BPSK	50	56	22.07	22.20	22.02	23.4	0.0	
40	PI2 BPSK	100	0	22.20	22.14	22.22			
40	QPSK	1	1	22.24	22.28	22.21	23.4		
40	QPSK	1	53	22.20	22.07	22.06		0.0	
40	QPSK	1	104	22.10	22.10	22.13			
40	QPSK	50	0	22.15	22.25	22.12	23.4	0.0	
40	QPSK	50	28	22.10	22.12	22.20	23.4	0.0	
40	QPSK	50	56	22.10	22.24	22.18	23.4	0.0	
40	QPSK	100	0	22.18	22.20	22.16			
40	16QAM	1	1	22.22	22.21	22.02	23.4	0.0	
40	64QAM	1	1	21.01	20.98	20.76	21.9	1.5	
40	256QAM	1	1	18.25	18.26	18.18	19.9	3.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.08	22.15	22.00	23.4	0.0	
Channel				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	22.15	22.11	22.10	23.4	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.17	22.12	22.19	23.4	0.0	
Channel				515004	519000	522096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2576.02	2595	2614.98			
10	QPSK	1	1	22.07	22.22	22.05	23.4	0.0	

n41 Main PA Ant3 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526202	518598	526200			
Frequency (MHz)				2546.01	2562.99	2640			
100	PI2 BPSK	1	1	22.07	22.17	21.99	23.4		
100	PI2 BPSK	1	137	22.02	22.17	21.95		0.0	
100	PI2 BPSK	1	271	22.07	22.25	22.06			
100	PI2 BPSK	135	0	22.15	22.27	22.00	23.4	0.0	
100	PI2 BPSK	135	69	22.03	22.19	22.06	23.4	0.0	
100	PI2 BPSK	135	138	22.00	22.10	22.11	23.4	0.0	
100	PI2 BPSK	270	0	22.03	22.09	21.98			
100	QPSK	1	1	22.20	22.30	22.11	23.4		
100	QPSK	1	137	22.11	22.23	21.93		0.0	
100	QPSK	1	271	22.07	22.15	21.92			
100	QPSK	135	0	22.13	22.25	21.91	23.4	0.0	
100	QPSK	135	69	22.05	22.21	21.98	23.4	0.0	
100	QPSK	135	138	22.02	22.15	21.98	23.4	0.0	
100	QPSK	270	0	22.13	22.15	21.96			
100	16QAM	1	1	22.16	22.21	21.95	23.4	0.0	
100	64QAM	1	1	22.10	22.12	22.11	23.4	0.0	
100	256QAM	1	1	20.06	20.02	20.08	21.4	2.0	
Channel				526203	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98			
90	QPSK	1	1	22.20	22.18	22.03	23.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2562.99	2649.99			
80	QPSK	1	1	22.04	22.12	22.00	23.4	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2562.99	2655			
70	QPSK	1	1	22.19	22.18	21.98	23.4	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2562.99	2659.99			
60	QPSK	1	1	22.04	22.24	22.09	23.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	22.08	22.09	21.95	23.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670			
40	QPSK	1	1	22.14	22.26	22.00	23.4	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.99			
30	QPSK	1	1	22.11	22.20	22.07	23.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.99			
20	QPSK	1	1	22.11	22.16	22.10	23.4	0.0	