



n5 Main PA Ant1 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.04	22.22	22.01			
20	PI2 BPSK	1	53	22.11	22.23	22.03	24.0	0.0	
20	PI2 BPSK	1	104	22.12	22.12	22.17			
20	PI2 BPSK	50	0	22.06	22.14	22.06	24.0	0.0	
20	PI2 BPSK	50	28	22.22	22.25	22.20	24.0	0.0	
20	PI2 BPSK	50	56	22.16	22.14	22.11	24.0	0.0	
20	PI2 BPSK	100	0	22.16	22.17	22.11			
20	QPSK	1	1	22.26	22.30	22.27			
20	QPSK	1	53	22.17	22.13	22.25	24.0	0.0	
20	QPSK	1	104	22.16	22.07	22.09			
20	QPSK	50	0	22.08	22.16	22.16	24.0	0.0	
20	QPSK	50	28	22.21	22.25	22.19	24.0	0.0	
20	QPSK	50	56	22.09	22.15	22.09	24.0	0.0	
20	QPSK	100	0	22.15	22.23	22.20			
20	6QAM	1	1	22.19	22.15	22.06	24.0	0.0	
20	6QAM	1	1	21.20	21.27	21.19	23.0	1.0	
20	256QAM	1	1	19.33	19.28	19.22	21.0	3.0	
Channel									
Frequency (MHz)				168300	167300	168300	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.11	22.19	22.15	24.0	0.0	
Channel									
Frequency (MHz)				165800	167300	166800	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.18	22.26	22.26	24.0	0.0	
Channel									
Frequency (MHz)				836.5	836.5	836.5	time-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.28	22.10	22.25	24.0	0.0	

n7 Main PA Ant1 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	18.37	18.49	18.43			
50	PI2 BPSK	1	135	18.38	18.41	18.34	19.0	0.0	
50	PI2 BPSK	1	268	18.25	18.51	18.20			
50	PI2 BPSK	135	0	18.43	18.51	18.53	19.0	0.0	
50	PI2 BPSK	135	68	18.32	18.38	18.41	19.0	0.0	
50	PI2 BPSK	135	135	18.49	18.63	18.56	19.0	0.0	
50	PI2 BPSK	270	0	18.48	18.62	18.61			
50	QPSK	1	1	18.42	18.64	18.56			
50	QPSK	1	135	18.19	18.46	18.31	19.0	0.0	
50	QPSK	1	268	18.16	18.37	18.34			
50	QPSK	135	0	18.47	18.42	18.31	19.0	0.0	
50	QPSK	135	68	18.54	18.59	18.50	19.0	0.0	
50	QPSK	135	135	18.37	18.46	18.51	19.0	0.0	
50	QPSK	270	0	18.37	18.57	18.48			
50	6QAM	1	1	18.21	18.24	18.22	19.0	0.0	
50	6QAM	1	1	18.14	18.26	18.09	19.0	0.0	
50	256QAM	1	1	18.34	18.39	18.41	19.0	0.0	
Channel									
Frequency (MHz)				504000	507000	510000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	18.33	18.44	18.55	19.0	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.42	18.63	18.40	19.0	0.0	
Channel									
Frequency (MHz)				505300	507000	513000	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	18.30	18.60	18.51	19.0	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	time-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	18.24	18.60	18.43	19.0	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.35	18.55	18.53	19.0	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.34	18.43	18.43	19.0	0.0	
Channel									
Frequency (MHz)				500000	507000	513000	time-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	18.38	18.59	18.35	19.0	0.0	

n66 Main PA Ant1 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1722.5	1745	1727.5			
45	PI2 BPSK	1	1	15.10	15.25	15.33			
45	PI2 BPSK	1	120	15.11	15.44	15.28	17.0	0.0	
45	PI2 BPSK	1	243	15.11	15.09	15.31			
45	PI2 BPSK	120	0	15.19	15.48	15.32	17.0	0.0	
45	PI2 BPSK	120	60	15.32	15.41	15.26	17.0	0.0	
45	PI2 BPSK	120	120	15.45	15.51	15.43	17.0	0.0	
45	PI2 BPSK	240	0	15.40	15.22	15.31			
45	QPSK	1	1	15.52	15.55	15.38			
45	QPSK	1	120	14.95	15.25	15.07	17.0	0.0	
45	QPSK	1	243	15.21	15.14	15.22			
45	QPSK	120	0	15.16	15.11	15.28	17.0	0.0	
45	QPSK	120	60	15.29	15.51	15.42	17.0	0.0	
45	QPSK	120	120	15.10	15.37	15.36	17.0	0.0	
45	QPSK	240	0	15.21	15.35	15.11			
45	6QAM	1	1	15.17	15.23	15.19	17.0	0.0	
45	6QAM	1	1	15.33	15.37	15.37	17.0	0.0	
45	256QAM	1	1	15.27	15.19	15.27	17.0	0.0	
Channel									
Frequency (MHz)				349000	349000	350000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.23	15.44	15.23	17.0	0.0	
Channel									
Frequency (MHz)				345000	349000	350500	time-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	15.35	15.52	15.33	17.0	0.0	
Channel									
Frequency (MHz)				1727.5	1745	1765	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.32	15.52	15.31	17.0	0.0	
Channel									
Frequency (MHz)				344000	349000	353500	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	15.34	15.52	15.23	17.0	0.0	
Channel									
Frequency (MHz)				346000	349000	349000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.37	15.52	15.52	17.0	0.0	
Channel									
Frequency (MHz)				343000	349000	345500	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.51	15.45	15.32	17.0	0.0	
Channel									
Frequency (MHz)				345000	349000	350000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.49	15.36	15.29	17.0	0.0	
Channel									
Frequency (MHz)				342000	349000	346500	time-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	15.47	15.53	15.53	17.0	0.0	



n38 Main PA Ant1 DS10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.99			
40	PI2 BPSK	1	1	17.20	17.34	17.16			
40	PI2 BPSK	1	53	17.15	17.29	16.99	18.0	0.0	
40	PI2 BPSK	1	104	16.97	17.12	16.97			
40	PI2 BPSK	50	0	17.38	17.36	17.07	18.0	0.0	
40	PI2 BPSK	50	28	17.24	17.26	17.35	18.0	0.0	
40	PI2 BPSK	50	56	17.10	17.21	17.04			
40	PI2 BPSK	100	0	17.21	17.35	17.19	18.0	0.0	
40	QPSK	1	1	17.15	17.41	17.22			
40	QPSK	1	53	17.07	17.18	17.14	18.0	0.0	
40	QPSK	1	104	16.99	17.09	17.06			
40	QPSK	50	0	17.06	17.30	17.07	18.0	0.0	
40	QPSK	50	28	17.09	17.33	17.28	18.0	0.0	
40	QPSK	50	56	17.07	17.29	17.22	18.0	0.0	
40	QPSK	100	0	17.22	17.35	17.24	18.0	0.0	
40	16QAM	1	1	17.16	17.37	17.23	18.0	0.0	
40	16QAM	1	1	17.15	17.22	17.16	18.0	0.0	
40	256QAM	1	1	17.21	17.36	17.29	18.0	0.0	
Channel									
Frequency (MHz)				517002	519000	520998	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2581.01	2595	2604.99	18.0	0.0	
30	QPSK	1	1	17.12	17.34	17.00	18.0	0.0	
Channel									
Frequency (MHz)				516504	519000	521496	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	2582.52	2595	2607.48	18.0	0.0	
25	QPSK	1	1	17.04	17.23	17.04	18.0	0.0	
Channel									
Frequency (MHz)				516000	519000	520000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2580	2595	2610	18.0	0.0	
20	QPSK	1	1	17.13	17.32	17.22	18.0	0.0	
Channel									
Frequency (MHz)				515502	519000	522498	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2577.51	2595	2614.49	18.0	0.0	
15	QPSK	1	1	17.01	17.31	17.14	18.0	0.0	
Channel									
Frequency (MHz)				515004	519000	522996	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2575.02	2595	2614.98	18.0	0.0	
10	QPSK	1	1	17.09	17.38	17.06	18.0	0.0	

n41 Main PA Ant1 DS10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.74	17.55	17.76			
100	PI2 BPSK	1	137	17.61	17.83	17.71	19.0	0.0	
100	PI2 BPSK	1	271	17.48	17.71	17.48			
100	PI2 BPSK	135	0	17.77	17.75	17.68	19.0	0.0	
100	PI2 BPSK	135	69	17.73	17.86	17.71	19.0	0.0	
100	PI2 BPSK	135	138	17.83	17.92	17.80	19.0	0.0	
100	PI2 BPSK	270	0	17.77	17.82	17.89	19.0	0.0	
100	QPSK	1	1	17.93	17.97	17.81			
100	QPSK	1	137	17.72	17.93	17.69	19.0	0.0	
100	QPSK	1	271	17.69	17.86	17.69			
100	QPSK	135	0	17.79	17.80	17.84	19.0	0.0	
100	QPSK	135	69	17.70	17.94	17.81	19.0	0.0	
100	QPSK	135	138	17.78	17.78	17.75	19.0	0.0	
100	QPSK	270	0	17.85	17.88	17.81	19.0	0.0	
100	16QAM	1	1	17.86	17.93	17.78	19.0	0.0	
100	16QAM	1	1	17.75	17.69	17.60	19.0	0.0	
100	256QAM	1	1	17.87	17.86	17.95	19.0	0.0	
Channel									
Frequency (MHz)				508200	518598	528996	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	2571	2592.99	2644.98	18.0	0.0	
90	QPSK	1	1	17.67	17.96	17.72	19.0	0.0	
Channel									
Frequency (MHz)				507204	518598	529994	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	2578.02	2592.99	2649.98	18.0	0.0	
80	QPSK	1	1	17.82	17.85	17.83	19.0	0.0	
Channel									
Frequency (MHz)				506202	518598	531000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	2571.01	2592.99	2655	18.0	0.0	
70	QPSK	1	1	17.71	17.94	17.68	19.0	0.0	
Channel									
Frequency (MHz)				505200	518598	531996	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	2576	2592.99	2654.98	18.0	0.0	
60	QPSK	1	1	17.92	17.76	17.74	19.0	0.0	
Channel									
Frequency (MHz)				504204	518598	532998	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	2571.02	2592.99	2664.98	18.0	0.0	
50	QPSK	1	1	17.87	17.87	17.73	19.0	0.0	
Channel									
Frequency (MHz)				503202	518598	533000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	2576.01	2592.99	2670	18.0	0.0	
40	QPSK	1	1	17.81	17.79	17.79	19.0	0.0	
Channel									
Frequency (MHz)				502200	518598	533996	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2571	2592.99	2674.98	18.0	0.0	
30	QPSK	1	1	17.67	17.96	17.76	19.0	0.0	
Channel									
Frequency (MHz)				501204	518598	534998	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2566.02	2592.99	2679.98	18.0	0.0	
20	QPSK	1	1	17.79	17.88	17.82	19.0	0.0	
Channel									
Frequency (MHz)				500202	518598	535996	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2563.5	2592.99	2682.48	18.0	0.0	
15	QPSK	1	1	17.76	17.77	17.81	19.0	0.0	
Channel									
Frequency (MHz)				500200	518598	537000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2561.01	2592.99	2688	18.0	0.0	
10	QPSK	1	1	17.72	17.96	17.71	19.0	0.0	

Part270 n77 Main PA Ant1 DS10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3700	3840	3900			
100	PI2 BPSK	1	1	16.86	16.96	17.03			
100	PI2 BPSK	1	137	16.97	17.03	16.83	18.5	0.0	
100	PI2 BPSK	1	271	16.76	16.75	16.72			
100	PI2 BPSK	135	0	16.84	16.91	16.82	18.5	0.0	
100	PI2 BPSK	135	69	17.04	17.02	17.04	18.5	0.0	
100	PI2 BPSK	135	138	16.77	16.75	16.71	18.5	0.0	
100	PI2 BPSK	270	0	16.97	16.92	16.71	18.5	0.0	
100	QPSK	1	1	17.05	17.12	17.09			
100	QPSK	1	137	16.81	16.98	16.93	18.5	0.0	
100	QPSK	1	271	16.86	17.03	17.01			
100	QPSK	135	0	16.84	17.00	16.83	18.5	0.0	
100	QPSK	135	69	16.96	17.04	16.91	18.5	0.0	
100	QPSK	135	138	16.71	16.95	16.88	18.5	0.0	
100	QPSK	270	0	16.90	16.94	16.93	18.5	0.0	
100	16QAM	1	1	16.83	16.86	16.88	18.5	0.0	
100	16QAM	1	1	16.99	16.96	16.98	18.5	0.0	
100	256QAM	1	1	16.66	16.85	16.74	18.5	0.0	
Channel									
Frequency (MHz)				649668	650000	662334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3743.02	3840	3923.01	18.5	0.0	
90	QPSK	1	1	16.92	17.09	17.04	18.5	0.0	
Channel									
Frequency (MHz)				649334	650000	663668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3840	3940.02	18.5	0.0	
80	QPSK	1	1	16.99	17.07	16.95	18.5	0.0	
Channel									
Frequency (MHz)				649000	650000	664000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3735.01	3840	3955.02	18.5	0.0	
70	QPSK	1	1	16.96	17.08	17.03	18.5	0.0	
Channel									
Frequency (MHz)				648668	650000	663334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3743.02	3840	3923.01	18.5	0.0	
60	QPSK	1	1	16.90	16.99	17.05	18.5	0.0	
Channel									
Frequency (MHz)				648334	650000	663668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3735.01	3840	3955.02	18.5	0.0	
50	QPSK	1	1	16.98	16.94	16.97	18.5	0.0	
Channel									
Frequency (MHz)				648000	650000	664000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3730	3840	3960	18.5	0.0	
40	QPSK	1	1	16.87	16.93	17.05	18.5	0.0	
Channel									
Frequency (MHz)				647668	650000	664334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3743.02	3840	3923.01	18.5	0.0	
30	QPSK	1	1	16.91	17.06	17.05	18.5	0.0	
Channel									
Frequency (MHz)				647300	650000	664600	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3732.5	3840	3967.5			



Part270 n77 PC2 Main PA Ant1 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.15	20.17	20.02			
100	PI2 BPSK	1	137	20.05	20.14	19.98	21.5	0.0	
100	PI2 BPSK	1	271	20.15	20.04	20.06			
100	PI2 BPSK	135	0	20.09	20.12	19.99	21.5	0.0	
100	PI2 BPSK	135	69	20.20	20.14	20.02	21.5	0.0	
100	PI2 BPSK	135	138	19.95	20.17	20.00			
100	PI2 BPSK	270	0	20.15	20.12	20.12	21.5	0.0	
100	QPSK	1	1	20.20	20.22	20.18			
100	QPSK	1	137	20.14	20.08	20.07	21.5	0.0	
100	QPSK	1	271	20.03	20.15	20.04			
100	QPSK	135	0	20.08	20.11	20.02	21.5	0.0	
100	QPSK	135	69	20.14	20.20	20.17	21.5	0.0	
100	QPSK	135	138	20.03	20.16	20.00	21.5	0.0	
100	QPSK	270	0	20.17	20.18	20.13	21.5	0.0	
100	8QAM	1	1	20.10	20.03	20.18	21.5	0.0	
100	8QAM	1	1	20.12	20.09	20.02	21.5	0.0	
100	25QAM	1	1	19.29	19.20	19.14	20.5	1.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64968	65000	65234	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.11	20.10	20.18	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64534	65000	65068	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3749.01	3840	3840.02	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.01	20.09	20.01	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3795	3840	3845	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	20.00	20.02	20.02	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64688	65000	65334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3742.02	3840	3850.01	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	20.09	20.16	20.09	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64534	65000	65068	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3725.01	3840	3850.02	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.09	20.06	20.09	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64900	65000	65000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3790	3840	3890	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.07	20.08	19.99	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65434	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3715.02	3840	3850.01	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.05	20.21	20.13	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	64700	65000	65400	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3712.5	3840	3897.5	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	20.07	20.18	20.10	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65068	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3710.01	3840	3970.02	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.10	20.06	20.04	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64718	65000	65484	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3707.52	3840	3972.51	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.00	20.03	20.03	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3705	3840	3975	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.19	20.21	19.99	21.5	0.0	

Part27Q n77 Main PA Ant1 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.11				
100	PI2 BPSK	1	137		17.02		18.5	0.0	
100	PI2 BPSK	1	271		17.06				
100	PI2 BPSK	135	0		17.00		18.5	0.0	
100	PI2 BPSK	135	69		17.21		18.5	0.0	
100	PI2 BPSK	135	138		16.94				
100	PI2 BPSK	270	0		17.02		18.5	0.0	
100	QPSK	1	1		17.25				
100	QPSK	1	137		17.15		18.5	0.0	
100	QPSK	1	271		17.06				
100	QPSK	135	0		16.99		18.5	0.0	
100	QPSK	135	69		17.17		18.5	0.0	
100	QPSK	135	138		17.09		18.5	0.0	
100	QPSK	270	0		17.19		18.5	0.0	
100	8QAM	1	1		16.94		18.5	0.0	
100	8QAM	1	1		16.83		18.5	0.0	
100	25QAM	1	1		17.20		18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63334	63668	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3496	3500.01	3523.02	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	17.09	17.22	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63068	63334	63400	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3500.01	3510	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.11	17.10	16.94	18.5	0.0	
80	QPSK	1	1	63234	63334	63434	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3485.01	3500.01	3515.01	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.00	17.10	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63200	63334	63668	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3490	3500.01	3523.02	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	17.02	17.14	16.92	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63168	63334	63500	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3476.02	3500.01	3525	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.06	17.13	17.08	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63100	63334	63668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	63134	63334	63334	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3470.01	3500.01	3530.01	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	17.08	17.15	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63100	63334	63668	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3476	3500.01	3523.02	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	17.02	17.22	16.99	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63084	63334	63634	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3462.51	3500.01	3537.51	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	17.11	17.21	16.96	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63068	63334	63500	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3460.02	3500.01	3540	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.97	17.09	17.10	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63050	63334	63618	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3457.5	3500.01	3523.52	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.06	17.16	17.05	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63034	63334	63534	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3455.01	3500.01	3545.01	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	17.08	17.09	16.93	18.5	0.0	

Part27Q n77 PC2 Main PA Ant1 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		20.38				
100	PI2 BPSK	1	137		20.27		21.5	0.0	
100	PI2 BPSK	1	271		20.35				
100	PI2 BPSK	135	0		20.38		21.5	0.0	
100	PI2 BPSK	135	69		20.38		21.5	0.0	
100	PI2 BPSK	135	138		20.41				
100	PI2 BPSK	270	0		20.36		21.5	0.0	
100	QPSK	1	1		20.45				
100	QPSK	1	137		20.36		21.5	0.0	
100	QPSK	1	271		20.27				
100	QPSK	135	0		20.35		21.5	0.0	
100	QPSK	135	69		20.44		21.5	0.0	
100	QPSK	135	138		20.30		21.5	0.0	
100	QPSK	270	0		20.42		21.5	0.0	
100	8QAM	1	1		20.41		21.5	0.0	
100	8QAM	1	1		20.43		21.5	0.0	
10									



Part270 n78 Main PA Ant1 DSI0										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)		
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000				
Channel				3750	3750	3750				
Frequency (MHz)				17.14						
100	PI2 BPSK	1	1		16.99		18.0	0.0		
100	PI2 BPSK	1	137		16.99					
100	PI2 BPSK	1	271		16.87					
100	PI2 BPSK	135	0		18.82		18.0	0.0		
100	PI2 BPSK	135	69		17.10		18.0	0.0		
100	PI2 BPSK	135	138		18.82					
100	PI2 BPSK	270	0		16.98		18.0	0.0		
100	QPSK	1	1		17.15					
100	QPSK	1	137		17.07		18.0	0.0		
100	QPSK	1	271		17.06					
100	QPSK	135	0		17.06		18.0	0.0		
100	QPSK	135	69		17.10		18.0	0.0		
100	QPSK	135	138		17.03		18.0	0.0		
100	QPSK	270	0		17.00		18.0	0.0		
100	16QAM	1	1		16.93		18.0	0.0		
100	64QAM	1	1		16.96		18.0	0.0		
100	256QAM	1	1		16.95		18.0	0.0		
Channel				649698	650000	650334	turn-up limit (dBm)	MPR		
Frequency (MHz)				3745.02	3750	3763.01	(dB)	(dB)		
50	QPSK	1	1		17.25	17.14	16.97	18.0	0.0	
Channel				649334	650000	650668	turn-up limit (dBm)	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dB)	(dB)		
80	QPSK	1	1		16.99	17.11	16.95	18.0	0.0	
Channel				649000	650000	651000	turn-up limit (dBm)	MPR		
Frequency (MHz)				3735	3750	3765	(dB)	(dB)		
70	QPSK	1	1		17.01	17.11	17.01	18.0	0.0	
Channel				648698	650000	651334	turn-up limit (dBm)	MPR		
Frequency (MHz)				3730.02	3750	3770.01	(dB)	(dB)		
60	QPSK	1	1		16.95	17.05	17.04	18.0	0.0	
Channel				648334	650000	651668	turn-up limit (dBm)	MPR		
Frequency (MHz)				3725.01	3750	3775.02	(dB)	(dB)		
50	QPSK	1	1		16.96	17.06	16.93	18.0	0.0	
Channel				648000	650000	652000	turn-up limit (dBm)	MPR		
Frequency (MHz)				3720	3750	3780	(dB)	(dB)		
40	QPSK	1	1		16.89	17.14	16.99	18.0	0.0	
Channel				647698	650000	652334	turn-up limit (dBm)	MPR		
Frequency (MHz)				3715.02	3750	3783.01	(dB)	(dB)		
30	QPSK	1	1		16.95	17.05	17.05	18.0	0.0	
Channel				647500	650000	652500	turn-up limit (dBm)	MPR		
Frequency (MHz)				3712.5	3750	3787.5	(dB)	(dB)		
25	QPSK	1	1		16.94	17.12	17.04	18.0	0.0	
Channel				647334	650000	652668	turn-up limit (dBm)	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dB)	(dB)		
20	QPSK	1	1		16.91	17.13	16.94	18.0	0.0	
Channel				647198	650000	652834	turn-up limit (dBm)	MPR		
Frequency (MHz)				3707.52	3750	3792.51	(dB)	(dB)		
15	QPSK	1	1		16.87	17.03	16.96	18.0	0.0	
Channel				647000	650000	653000	turn-up limit (dBm)	MPR		
Frequency (MHz)				3705	3750	3795	(dB)	(dB)		
10	QPSK	1	1		17.00	17.00	16.97	18.0	0.0	

Part270 n78 PC2 Main PA Ant1 DSI0										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)		
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000				
Channel				3750	3750	3750				
Frequency (MHz)				19.89						
100	PI2 BPSK	1	1		19.89		21.0	0.0		
100	PI2 BPSK	1	137		19.89					
100	PI2 BPSK	1	271		19.88					
100	PI2 BPSK	135	0		20.00		21.0	0.0		
100	PI2 BPSK	135	69		19.73		21.0	0.0		
100	PI2 BPSK	135	138		19.78					
100	PI2 BPSK	270	0		19.89		21.0	0.0		
100	QPSK	1	1		20.01					
100	QPSK	1	137		19.78		21.0	0.0		
100	QPSK	1	271		19.76					
100	QPSK	135	0		19.82		21.0	0.0		
100	QPSK	135	69		20.00		21.0	0.0		
100	QPSK	135	138		19.80		21.0	0.0		
100	QPSK	270	0		19.84		21.0	0.0		
100	16QAM	1	1		19.82		21.0	0.0		
100	64QAM	1	1		19.41		21.0	0.0		
100	256QAM	1	1		19.97		21.0	0.0		
Channel				649698	650000	650334	turn-up limit (dBm)	MPR		
Frequency (MHz)				3745.02	3750	3763.01	(dB)	(dB)		
50	QPSK	1	1		19.84	19.95	19.87	21.0	0.0	
Channel				649334	650000	650668	turn-up limit (dBm)	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dB)	(dB)		
80	QPSK	1	1		19.83	19.97	19.79	21.0	0.0	
Channel				649000	650000	651000	turn-up limit (dBm)	MPR		
Frequency (MHz)				3735	3750	3765	(dB)	(dB)		
70	QPSK	1	1		19.84	19.90	19.89	21.0	0.0	
Channel				648698	650000	651334	turn-up limit (dBm)	MPR		
Frequency (MHz)				3730.02	3750	3770.01	(dB)	(dB)		
60	QPSK	1	1		19.95	19.97	19.75	21.0	0.0	
Channel				648334	650000	651668	turn-up limit (dBm)	MPR		
Frequency (MHz)				3725.01	3750	3775.02	(dB)	(dB)		
50	QPSK	1	1		19.90	19.87	19.91	21.0	0.0	
Channel				648000	650000	652000	turn-up limit (dBm)	MPR		
Frequency (MHz)				3720	3750	3780	(dB)	(dB)		
40	QPSK	1	1		19.88	19.98	19.76	21.0	0.0	
Channel				647698	650000	652334	turn-up limit (dBm)	MPR		
Frequency (MHz)				3715.02	3750	3783.01	(dB)	(dB)		
30	QPSK	1	1		19.95	19.95	19.73	21.0	0.0	
Channel				647500	650000	652500	turn-up limit (dBm)	MPR		
Frequency (MHz)				3712.5	3750	3787.5	(dB)	(dB)		
25	QPSK	1	1		19.78	19.86	19.90	21.0	0.0	
Channel				647334	650000	652668	turn-up limit (dBm)	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dB)	(dB)		
20	QPSK	1	1		19.84	20.00	19.84	21.0	0.0	
Channel				647198	650000	652834	turn-up limit (dBm)	MPR		
Frequency (MHz)				3707.52	3750	3792.51	(dB)	(dB)		
15	QPSK	1	1		19.75	19.83	19.85	21.0	0.0	
Channel				647000	650000	653000	turn-up limit (dBm)	MPR		
Frequency (MHz)				3705	3750	3795	(dB)	(dB)		
10	QPSK	1	1		19.77	19.89	19.71	21.0	0.0	



Part27Q n78 Main PA Ant1 DSI0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq. 633334]	Power Middle Ch. [Freq. 633334]	Power High Ch. [Freq. 633334]	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi/2 BPSK	1	1	17.30	3500.01		
100	Pi/2 BPSK	1	137	17.24	17.19	18.0	0.0
100	Pi/2 BPSK	1	271	16.99			
100	Pi/2 BPSK	135	0	16.89	18.0	0.0	
100	Pi/2 BPSK	135	69	17.19	18.0	0.0	
100	Pi/2 BPSK	135	138	17.08			
100	Pi/2 BPSK	270	0	17.29	18.0	0.0	
100	QPSK	1	1	17.44			
100	QPSK	1	137	17.30		18.0	0.0
100	QPSK	1	271	17.24			
100	QPSK	135	0	17.35		18.0	0.0
100	QPSK	135	69	17.40		18.0	0.0
100	QPSK	135	138	17.22		18.0	0.0
100	QPSK	270	0	17.12		18.0	0.0
100	16QAM	1	1	17.12		18.0	0.0
100	16QAM	1	1	16.85		18.0	0.0
100	256QAM	1	1	17.07		18.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.22	17.19	16.92	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.02	17.17	17.06	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.11	17.14	17.01	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.11	17.07	16.93	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.19	17.21	16.93	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.11	17.25	16.95	18.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.11	17.23	16.98	18.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	17.14	17.20	16.97	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.22	17.09	17.09	18.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.08	17.14	17.05	18.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.22	17.08	16.88	18.0

Part27Q n78 PC2 Main PA Ant1 DSI0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq. 633334]	Power Middle Ch. [Freq. 633334]	Power High Ch. [Freq. 633334]	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi/2 BPSK	1	1	20.12	3500.01		
100	Pi/2 BPSK	1	137	19.92	18.0	21.0	0.0
100	Pi/2 BPSK	1	271	19.87			
100	Pi/2 BPSK	135	0	20.23	18.0	21.0	0.0
100	Pi/2 BPSK	135	69	19.82	18.0	21.0	0.0
100	Pi/2 BPSK	135	138	19.79		21.0	0.0
100	Pi/2 BPSK	270	0	20.19	18.0	21.0	0.0
100	QPSK	1	1	20.29			
100	QPSK	1	137	20.05		21.0	0.0
100	QPSK	1	271	19.97			
100	QPSK	135	0	20.07		21.0	0.0
100	QPSK	135	69	20.22		21.0	0.0
100	QPSK	135	138	20.14		21.0	0.0
100	QPSK	270	0	20.12		21.0	0.0
100	16QAM	1	1	19.98		21.0	0.0
100	16QAM	1	1	19.66		21.0	0.0
100	256QAM	1	1	20.10		21.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.03	20.00	19.92	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.04	19.98	19.98	21.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.96	20.07	19.88	21.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.06	20.12	20.01	21.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.00	19.98	19.89	21.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.01	20.08	19.84	21.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.93	20.04	20.01	21.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.12	19.99	19.79	21.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.06	20.12	19.85	21.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.14	19.95	19.85	21.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.98	19.88	19.90	21.0



n7 Main PA Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 505000	Power Middle Ch. F.Freq. 507000	Power High Ch. F.Freq. 509000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	24.82	24.89	24.75		
50	PI2 BPSK	1	135	24.67	24.76	24.71	25.7	0.0
50	PI2 BPSK	1	268	24.49	24.69	24.54		
50	PI2 BPSK	135	0	24.29	24.39	24.28	25.2	0.5
50	PI2 BPSK	135	68	24.79	24.82	24.72	25.7	0.0
50	PI2 BPSK	135	155	24.28	24.24	24.21		
50	PI2 BPSK	270	0	24.28	24.40	24.39	25.2	0.5
50	QPSK	1	1	24.88	24.92	24.83		
50	QPSK	1	135	24.76	24.82	24.78	25.7	0.0
50	QPSK	1	268	24.67	24.73	24.71		
50	QPSK	135	0	23.78	23.91	23.81	24.7	1.0
50	QPSK	135	68	24.72	24.85	24.73	25.7	0.0
50	QPSK	135	135	23.76	23.83	23.81	24.7	1.0
50	QPSK	270	0	23.83	23.99	23.95		
50	16QAM	1	1	22.71	23.81	23.85	24.7	1.0
50	64QAM	1	1	22.21	22.29	22.28	23.2	2.5
50	256QAM	1	1	20.32	20.49	20.44	21.2	4.5
Channel								
Frequency (MHz)				504000	507000	510000	limit (dB)	MPR (dB)
40	QPSK	1	1	24.75	24.85	24.75	25.7	0.0
Channel								
Frequency (MHz)				503000	507000	511000	limit (dB)	MPR (dB)
30	QPSK	1	1	24.74	24.86	24.69	25.7	0.0
Channel								
Frequency (MHz)				502500	507000	511500	limit (dB)	MPR (dB)
25	QPSK	1	1	24.78	24.80	24.74	25.7	0.0
Channel								
Frequency (MHz)				502000	507000	512000	limit (dB)	MPR (dB)
20	QPSK	1	1	24.76	24.88	24.72	25.7	0.0
Channel								
Frequency (MHz)				501500	507000	512500	limit (dB)	MPR (dB)
15	QPSK	1	1	24.83	24.77	24.78	25.7	0.0
Channel								
Frequency (MHz)				501000	507000	513000	limit (dB)	MPR (dB)
10	QPSK	1	1	24.84	24.78	24.75	25.7	0.0
Channel								
Frequency (MHz)				500500	507000	513500	limit (dB)	MPR (dB)
5	QPSK	1	1	24.81	24.79	24.70	25.7	0.0

n66 Main PA Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 346500	Power Middle Ch. F.Freq. 349000	Power High Ch. F.Freq. 351500	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1732.5	1745	1737.5		
45	PI2 BPSK	1	1	23.79	23.87	23.75		
45	PI2 BPSK	1	120	23.72	23.81	23.71	24.5	0.0
45	PI2 BPSK	1	243	23.47	23.65	23.55		
45	PI2 BPSK	120	0	23.28	23.40	23.23	24.0	0.5
45	PI2 BPSK	120	60	23.75	23.86	23.66	24.5	0.0
45	PI2 BPSK	120	120	23.28	23.35	23.24	24.0	0.5
45	PI2 BPSK	240	0	23.28	23.45	23.34		
45	QPSK	1	1	23.88	23.90	23.83		
45	QPSK	1	120	23.75	23.79	23.71	24.5	0.0
45	QPSK	1	243	23.59	23.80	23.64		
45	QPSK	120	0	22.71	22.89	22.80	23.5	1.0
45	QPSK	120	60	23.67	23.82	23.72	24.5	0.0
45	QPSK	120	120	22.73	22.88	22.74	23.5	1.0
45	QPSK	240	0	22.85	23.01	22.92		
45	16QAM	1	1	22.74	22.79	22.81	23.5	1.0
45	64QAM	1	1	21.20	21.20	21.15	22.0	2.5
45	256QAM	1	1	19.30	19.44	19.39	20.0	4.5
Channel								
Frequency (MHz)				346000	349000	352000	limit (dB)	MPR (dB)
40	QPSK	1	1	23.64	23.73	23.69	24.5	0.0
Channel								
Frequency (MHz)				345500	349000	352500	limit (dB)	MPR (dB)
35	QPSK	1	1	23.76	23.87	23.81	24.5	0.0
Channel								
Frequency (MHz)				345000	349000	353000	limit (dB)	MPR (dB)
30	QPSK	1	1	23.78	23.81	23.73	24.5	0.0
Channel								
Frequency (MHz)				344500	349000	353500	limit (dB)	MPR (dB)
25	QPSK	1	1	23.75	23.85	23.71	24.5	0.0
Channel								
Frequency (MHz)				344000	349000	354000	limit (dB)	MPR (dB)
20	QPSK	1	1	23.80	23.77	23.77	24.5	0.0
Channel								
Frequency (MHz)				343500	349000	354500	limit (dB)	MPR (dB)
15	QPSK	1	1	23.80	23.80	23.76	24.5	0.0
Channel								
Frequency (MHz)				343000	349000	355000	limit (dB)	MPR (dB)
10	QPSK	1	1	23.82	23.87	23.78	24.5	0.0
Channel								
Frequency (MHz)				342500	349000	355500	limit (dB)	MPR (dB)
5	QPSK	1	1	23.72	23.75	23.73	24.5	0.0



n38 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	25.11	25.25	25.21			
40	PI2 BPSK	1	53	25.00	25.12	25.02	25.7	0.0	
40	PI2 BPSK	1	104	24.99	25.02	24.93			
40	PI2 BPSK	50	0	24.71	24.81	24.77	25.2	0.5	
40	PI2 BPSK	50	28	25.16	25.19	25.15	25.7	0.0	
40	PI2 BPSK	50	56	24.64	24.73	24.64			
40	PI2 BPSK	100	0	24.75	24.87	24.74	25.2	0.5	
40	QPSK	1	1	25.20	25.28	25.26			
40	QPSK	1	53	25.09	25.21	25.15	25.7	0.0	
40	QPSK	1	104	25.15	25.16	25.13			
40	QPSK	50	0	24.29	24.34	24.27	24.7	1.0	
40	QPSK	50	28	25.15	25.22	25.11	25.7	0.0	
40	QPSK	50	56	24.26	24.30	24.16	24.7	1.0	
40	QPSK	100	0	24.32	24.41	24.29			
40	16QAM	1	1	24.12	24.22	24.08	24.7	1.0	
40	64QAM	1	1	22.50	22.63	22.56	23.2	2.5	
40	256QAM	1	1	20.73	20.85	20.77	21.2	4.5	
Channel				517002	519000	520998	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2598.01	2599	2604.99			
30	QPSK	1	1	25.10	25.18	25.22	25.7	0.0	
Channel				518504	519000	521496	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2592.02	2595	2607.48			
25	QPSK	1	1	25.10	25.16	25.14	25.7	0.0	
Channel				518000	519000	522000	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	25.15	25.24	25.19	25.7	0.0	
Channel				515502	519000	522498	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2577.01	2595	2612.49			
15	QPSK	1	1	25.05	25.21	25.11	25.7	0.0	
Channel				515004	519000	522996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	25.16	25.26	25.19	25.7	0.0	

n41 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509502	518596	529500			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.20	25.33	25.30			
100	PI2 BPSK	1	137	25.07	25.19	25.18	25.7	0.0	
100	PI2 BPSK	1	271	25.04	25.19	24.99			
100	PI2 BPSK	135	0	24.85	24.90	24.93	25.2	0.5	
100	PI2 BPSK	135	69	25.31	25.24	25.21	25.7	0.0	
100	PI2 BPSK	135	138	24.70	24.65	24.73			
100	PI2 BPSK	270	0	24.88	25.01	24.91	25.2	0.5	
100	QPSK	1	1	25.27	25.38	25.36			
100	QPSK	1	137	25.24	25.37	25.28	25.7	0.0	
100	QPSK	1	271	25.18	25.26	25.18			
100	QPSK	135	0	24.46	24.43	24.41	24.7	1.0	
100	QPSK	135	69	25.20	25.35	25.22	25.7	0.0	
100	QPSK	135	138	24.37	24.39	24.21	24.7	1.0	
100	QPSK	270	0	24.42	24.46	24.44			
100	16QAM	1	1	24.21	24.31	24.14	24.7	1.0	
100	64QAM	1	1	22.64	22.80	22.72	23.2	2.5	
100	256QAM	1	1	20.80	21.00	20.83	21.2	4.5	
Channel				508500	518596	528596	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.23	25.29	25.28	25.7	0.0	
Channel				507204	518596	528596	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.15	25.32	25.32	25.7	0.0	
Channel				506502	518596	531000	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.18	25.25	25.21	25.7	0.0	
Channel				505200	518596	531996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2525	2592.99	2659.98			
60	QPSK	1	1	25.16	25.24	25.22	25.7	0.0	
Channel				504204	518596	532996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.17	25.30	25.30	25.7	0.0	
Channel				503202	518596	534000	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.23	25.25	25.22	25.7	0.0	
Channel				502200	518596	534996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.14	25.23	25.22	25.7	0.0	
Channel				501204	518596	535996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.22	25.31	25.29	25.7	0.0	
Channel				500700	518596	536996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2503.05	2592.99	2682.48			
15	QPSK	1	1	25.23	25.28	25.31	25.7	0.0	
Channel				500202	518596	537000	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	25.15	25.30	25.27	25.7	0.0	



n7 Main PA Ant3 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq.	Power Middle Ch. F. Freq.	Power High Ch. F. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	509000			
Frequency (MHz)				2512	2535	2545			
50	PI2 BPSK	1	1	19.54	19.60	19.31			
50	PI2 BPSK	1	135	19.25	19.41	19.45	21.0	0.0	
50	PI2 BPSK	1	268	19.20	19.21	19.21			
50	PI2 BPSK	135	0	19.40	19.54	19.46	21.0	0.0	
50	PI2 BPSK	135	68	19.36	19.39	19.45	21.0	0.0	
50	PI2 BPSK	135	155	19.47	19.44	19.37	21.0	0.0	
50	PI2 BPSK	270	0	19.42	19.54	19.43			
50	QPSK	1	1	19.47	19.61	19.44			
50	QPSK	1	135	19.31	19.48	19.39	21.0	0.0	
50	QPSK	1	268	19.28	19.44	19.44			
50	QPSK	135	0	19.44	19.51	19.42	21.0	0.0	
50	QPSK	135	68	19.47	19.56	19.44	21.0	0.0	
50	QPSK	135	135	19.44	19.51	19.43	21.0	0.0	
50	QPSK	270	0	19.45	19.49	19.46			
50	16QAM	1	1	19.35	19.45	19.29	21.0	0.0	
50	64QAM	1	1	19.34	19.31	19.43	21.0	0.0	
50	256QAM	1	1	18.18	18.24	18.17	19.5	1.5	
Channel				504000	507000	510000	Interp limit (dB)	MPR	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	19.38	19.58	19.27	21.0	0.0	
Channel				503000	507000	511000	Interp limit (dB)	MPR	
Frequency (MHz)				2518	2535	2555			
30	QPSK	1	1	19.47	19.45	19.33	21.0	0.0	
Channel				502500	507000	511500	Interp limit (dB)	MPR	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.42	19.44	19.30	21.0	0.0	
Channel				502000	507000	512000	Interp limit (dB)	MPR	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	19.34	19.52	19.30	21.0	0.0	
Channel				501500	507000	512500	Interp limit (dB)	MPR	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.40	19.48	19.37	21.0	0.0	
Channel				501000	507000	513000	Interp limit (dB)	MPR	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.45	19.60	19.39	21.0	0.0	
Channel				500500	507000	513500	Interp limit (dB)	MPR	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.32	19.53	19.32	21.0	0.0	

n66 Main PA Ant3 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq.	Power Middle Ch. F. Freq.	Power High Ch. F. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	349000	351500			
Frequency (MHz)				1732.5	1745	1737.5			
45	PI2 BPSK	1	1	18.83	18.87	18.74			
45	PI2 BPSK	1	120	18.75	18.79	18.80	20.5	0.0	
45	PI2 BPSK	1	243	18.74	18.77	18.76			
45	PI2 BPSK	120	0	18.79	18.83	18.61	20.5	0.0	
45	PI2 BPSK	120	60	18.66	18.73	18.73	20.5	0.0	
45	PI2 BPSK	120	120	18.65	18.71	18.81	20.5	0.0	
45	PI2 BPSK	240	0	18.79	18.89	18.67			
45	QPSK	1	1	18.95	18.99	18.92			
45	QPSK	1	120	18.61	18.77	18.73	20.5	0.0	
45	QPSK	1	243	18.75	18.71	18.67			
45	QPSK	120	0	18.71	18.82	18.75	20.5	0.0	
45	QPSK	120	60	18.78	18.84	18.84	20.5	0.0	
45	QPSK	120	120	18.79	18.78	18.79	20.5	0.0	
45	QPSK	240	0	18.82	18.86	18.80			
45	16QAM	1	1	18.69	18.83	18.60	20.5	0.0	
45	64QAM	1	1	18.62	18.66	18.60	20.5	0.0	
45	256QAM	1	1	17.19	17.23	17.14	19.0	1.5	
Channel				346000	349000	352000	Interp limit (dB)	MPR	
Frequency (MHz)				1729	1745	1760			
40	QPSK	1	1	18.54	18.53	18.57	20.5	0.0	
Channel				345500	349000	352500	Interp limit (dB)	MPR	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	18.61	18.60	18.64	20.5	0.0	
Channel				345000	349000	353000	Interp limit (dB)	MPR	
Frequency (MHz)				1725	1745	1766			
30	QPSK	1	1	18.66	18.75	18.62	20.5	0.0	
Channel				344500	349000	353500	Interp limit (dB)	MPR	
Frequency (MHz)				1722.5	1745	1768.5			
25	QPSK	1	1	18.77	18.60	18.63	20.5	0.0	
Channel				344000	349000	354000	Interp limit (dB)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.70	18.57	18.75	20.5	0.0	
Channel				343500	349000	354500	Interp limit (dB)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.58	18.64	18.74	20.5	0.0	
Channel				343000	349000	355000	Interp limit (dB)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.66	18.64	18.65	20.5	0.0	
Channel				342500	349000	355500	Interp limit (dB)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.68	18.69	18.78	20.5	0.0	





n7 Main PA Ant3 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq.	Power Middle Ch. F. Freq.	Power High Ch. F. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	509000			
Frequency (MHz)				2512	2535	2545			
50	PI2 BPSK	1	1	19.54	19.60	19.31			
50	PI2 BPSK	1	135	19.25	19.41	19.45	21.0	0.0	
50	PI2 BPSK	1	268	19.20	19.21	19.21			
50	PI2 BPSK	135	0	19.40	19.54	19.46	21.0	0.0	
50	PI2 BPSK	135	68	19.36	19.39	19.45	21.0	0.0	
50	PI2 BPSK	135	155	19.47	19.44	19.37	21.0	0.0	
50	PI2 BPSK	270	0	19.42	19.54	19.43			
50	QPSK	1	1	19.47	19.61	19.44			
50	QPSK	1	135	19.31	19.48	19.39	21.0	0.0	
50	QPSK	1	268	19.28	19.44	19.44			
50	QPSK	135	0	19.44	19.51	19.42	21.0	0.0	
50	QPSK	135	68	19.47	19.56	19.44	21.0	0.0	
50	QPSK	135	135	19.44	19.51	19.43	21.0	0.0	
50	QPSK	270	0	19.45	19.49	19.46			
50	16QAM	1	1	19.35	19.45	19.29	21.0	0.0	
50	64QAM	1	1	19.34	19.31	19.43	21.0	0.0	
50	256QAM	1	1	18.18	18.24	18.17	19.5	1.5	
Channel				504000	507000	510000	Interup limit (dB)	MPR	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	19.38	19.58	19.27	21.0	0.0	
Channel				503000	507000	511000	Interup limit (dB)	MPR	
Frequency (MHz)				2518	2535	2555			
30	QPSK	1	1	19.47	19.45	19.33	21.0	0.0	
Channel				502500	507000	511500	Interup limit (dB)	MPR	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.42	19.44	19.30	21.0	0.0	
Channel				502000	507000	512000	Interup limit (dB)	MPR	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	19.34	19.52	19.30	21.0	0.0	
Channel				501500	507000	512500	Interup limit (dB)	MPR	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.40	19.48	19.37	21.0	0.0	
Channel				501000	507000	513000	Interup limit (dB)	MPR	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.45	19.60	19.39	21.0	0.0	
Channel				500500	507000	513500	Interup limit (dB)	MPR	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.32	19.53	19.32	21.0	0.0	

n66 Main PA Ant3 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq.	Power Middle Ch. F. Freq.	Power High Ch. F. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	349000	351500			
Frequency (MHz)				1732.5	1745	1737.5			
45	PI2 BPSK	1	1	18.83	18.87	18.74			
45	PI2 BPSK	1	120	18.75	18.79	18.80	20.5	0.0	
45	PI2 BPSK	1	243	18.74	18.77	18.76			
45	PI2 BPSK	120	0	18.79	18.83	18.61	20.5	0.0	
45	PI2 BPSK	120	60	18.66	18.73	18.73	20.5	0.0	
45	PI2 BPSK	120	120	18.65	18.71	18.81	20.5	0.0	
45	PI2 BPSK	240	0	18.79	18.89	18.67			
45	QPSK	1	1	18.95	18.99	18.92			
45	QPSK	1	120	18.61	18.77	18.73	20.5	0.0	
45	QPSK	1	243	18.75	18.71	18.67			
45	QPSK	120	0	18.71	18.82	18.75	20.5	0.0	
45	QPSK	120	60	18.78	18.84	18.84	20.5	0.0	
45	QPSK	120	120	18.79	18.78	18.79	20.5	0.0	
45	QPSK	240	0	18.82	18.86	18.80			
45	16QAM	1	1	18.69	18.83	18.60	20.5	0.0	
45	64QAM	1	1	18.62	18.66	18.60	20.5	0.0	
45	256QAM	1	1	17.19	17.23	17.14	19.0	1.5	
Channel				346000	349000	352000	Interup limit (dB)	MPR	
Frequency (MHz)				1729	1745	1760			
40	QPSK	1	1	18.54	18.53	18.57	20.5	0.0	
Channel				345500	349000	352500	Interup limit (dB)	MPR	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	18.61	18.60	18.64	20.5	0.0	
Channel				345000	349000	353000	Interup limit (dB)	MPR	
Frequency (MHz)				1725	1745	1766			
30	QPSK	1	1	18.66	18.75	18.62	20.5	0.0	
Channel				344500	349000	353500	Interup limit (dB)	MPR	
Frequency (MHz)				1722.5	1745	1768.5			
25	QPSK	1	1	18.77	18.60	18.63	20.5	0.0	
Channel				344000	349000	354000	Interup limit (dB)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.70	18.57	18.75	20.5	0.0	
Channel				343500	349000	354500	Interup limit (dB)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.58	18.64	18.74	20.5	0.0	
Channel				343000	349000	355000	Interup limit (dB)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.66	18.64	18.65	20.5	0.0	
Channel				342500	349000	355500	Interup limit (dB)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.68	18.69	18.78	20.5	0.0	



n38 Main PA Ant3 DSI0								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.		
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	18.99	19.15	18.93		
40	PI2 BPSK	1	53	18.89	18.96	18.79	20.5	0.0
40	PI2 BPSK	1	104	18.89	18.94	18.78		
40	PI2 BPSK	50	0	19.10	19.24	19.16	20.5	0.0
40	PI2 BPSK	80	28	18.99	18.99	19.14	20.5	0.0
40	PI2 BPSK	50	56	19.02	19.14	18.89		
40	PI2 BPSK	100	0	19.17	19.19	19.09	20.5	0.0
40	QPSK	1	1	18.95	19.25	19.17		
40	QPSK	1	53	19.01	19.19	19.01	20.5	0.0
40	QPSK	1	104	18.97	19.22	19.14		
40	QPSK	50	0	19.50	19.06	19.16	20.5	0.0
40	QPSK	50	28	19.18	19.21	19.15	20.5	0.0
40	QPSK	50	56	18.97	18.98	18.03	20.5	0.0
40	QPSK	100	0	19.12	19.16	19.06		
40	16QAM	1	1	19.04	19.14	19.12	20.5	0.0
40	64QAM	1	1	18.93	19.12	19.12	20.5	0.0
40	256QAM	1	1	18.84	18.91	18.87	20.0	0.5
Channel				517002	519000	520998	Turn-up limit (dB)	MPR
Frequency (MHz)				2595.01	2595	2604.99		
30	QPSK	1	1	18.78	19.20	18.95	20.5	0.0
Channel				516504	519000	521496	Turn-up limit (dB)	MPR
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	18.84	19.20	18.93	20.5	0.0
Channel				516006	519000	522000	Turn-up limit (dB)	MPR
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	18.94	19.23	18.94	20.5	0.0
Channel				515502	519000	522498	Turn-up limit (dB)	MPR
Frequency (MHz)				2577.01	2595	2612.99		
15	QPSK	1	1	18.85	19.09	18.99	20.5	0.0
Channel				515004	519000	522996	Turn-up limit (dB)	MPR
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	18.78	19.11	19.12	20.5	0.0

n41 Main PA Ant3 DSI0								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.		
Channel				509502	516596	529500		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	18.12	18.30	18.14		
100	PI2 BPSK	1	137	18.20	18.19	18.06	20.0	0.0
100	PI2 BPSK	1	271	18.20	18.28	18.02		
100	PI2 BPSK	135	0	18.20	18.48	18.23	20.0	0.0
100	PI2 BPSK	135	69	18.18	18.33	18.14	20.0	0.0
100	PI2 BPSK	135	138	18.04	18.27	18.29	20.0	0.0
100	PI2 BPSK	270	0	18.32	18.30	18.31		
100	QPSK	1	1	18.23	18.52	18.36		
100	QPSK	1	137	18.23	18.25	18.21	20.0	0.0
100	QPSK	1	271	18.28	18.34	18.22		
100	QPSK	135	0	18.22	18.40	18.18	20.0	0.0
100	QPSK	135	69	18.44	18.48	18.27	20.0	0.0
100	QPSK	135	138	18.17	18.28	18.08	20.0	0.0
100	QPSK	270	0	18.25	18.26	18.18		
100	16QAM	1	1	18.19	18.42	18.28	20.0	0.0
100	64QAM	1	1	18.21	18.28	18.25	20.0	0.0
100	256QAM	1	1	18.37	18.45	18.39	20.0	0.0
Channel				508500	516596	528996	Turn-up limit (dB)	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.14	18.43	18.26	20.0	0.0
Channel				507504	516596	529996	Turn-up limit (dB)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.20	18.38	18.19	20.0	0.0
Channel				506502	516596	531000	Turn-up limit (dB)	MPR
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	18.01	18.45	18.26	20.0	0.0
Channel				505500	516596	531996	Turn-up limit (dB)	MPR
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.12	18.43	18.32	20.0	0.0
Channel				504504	516596	532996	Turn-up limit (dB)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.19	18.50	18.33	20.0	0.0
Channel				503502	516596	534000	Turn-up limit (dB)	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.07	18.41	18.15	20.0	0.0
Channel				502500	516596	534996	Turn-up limit (dB)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.05	18.23	18.23	20.0	0.0
Channel				501504	516596	535996	Turn-up limit (dB)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.04	18.45	18.25	20.0	0.0
Channel				500500	516596	536996	Turn-up limit (dB)	MPR
Frequency (MHz)				2503.05	2592.99	2682.48		
15	QPSK	1	1	18.18	18.45	18.16	20.0	0.0
Channel				500202	516596	537000	Turn-up limit (dB)	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.13	18.41	18.26	20.0	0.0



n7 Main PA Ant4 DSI0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	19.33	19.59	19.37		
50	PI2 BPSK	1	135	19.34	19.48	19.17	20.5	0.0
50	PI2 BPSK	1	268	19.33	19.39	19.28		
50	PI2 BPSK	135	0	19.47	19.48	19.39	20.5	0.0
50	PI2 BPSK	135	68	19.45	19.49	19.23	20.5	0.0
50	PI2 BPSK	135	155	19.54	19.44	19.40	20.5	0.0
50	PI2 BPSK	270	0	19.45	19.51	19.53	20.5	0.0
50	QPSK	1	1	19.50	19.64	19.57		
50	QPSK	1	135	19.41	19.59	19.30	20.5	0.0
50	QPSK	1	268	19.45	19.53	19.61		
50	QPSK	135	0	19.29	19.43	19.49	20.5	0.0
50	QPSK	135	68	19.49	19.57	19.33	20.5	0.0
50	QPSK	135	135	19.29	19.37	19.22	20.5	0.0
50	QPSK	270	0	19.35	19.51	19.28	20.5	0.0
50	16QAM	1	1	19.50	19.45	19.47	20.5	0.0
50	64QAM	1	1	19.44	19.48	19.40	20.5	0.0
50	256QAM	1	1	19.48	19.63	19.55	20.5	0.0
Channel				504000	507000	510000	turn-up limit (dB)	MPR
Frequency (MHz)				2525	2535	2545		
40	QPSK	1	1	19.49	19.57	19.45	20.5	0.0
Channel				503000	507000	511000	turn-up limit (dB)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	19.47	19.47	19.61	20.5	0.0
Channel				502500	507000	511500	turn-up limit (dB)	MPR
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	19.39	19.53	19.57	20.5	0.0
Channel				502000	507000	512000	turn-up limit (dB)	MPR
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	19.51	19.56	19.58	20.5	0.0
Channel				501500	507000	512500	turn-up limit (dB)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	19.30	19.49	19.56	20.5	0.0
Channel				501000	507000	513000	turn-up limit (dB)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	19.35	19.60	19.52	20.5	0.0
Channel				500500	507000	513500	turn-up limit (dB)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.36	19.55	19.56	20.5	0.0

n66 Main PA Ant4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1737.5		
45	PI2 BPSK	1	1	23.63	23.72	23.67		
45	PI2 BPSK	1	120	23.47	23.67	23.35	24.5	0.0
45	PI2 BPSK	1	243	23.39	23.55	23.45		
45	PI2 BPSK	120	0	23.06	23.17	23.20	24.0	0.5
45	PI2 BPSK	120	60	23.65	23.66	23.56	24.5	0.0
45	PI2 BPSK	120	120	23.09	23.23	23.98	24.0	0.5
45	PI2 BPSK	240	0	23.25	23.24	23.18		
45	QPSK	1	1	23.69	23.76	23.72		
45	QPSK	1	120	23.48	23.71	23.59	24.5	0.0
45	QPSK	1	243	23.84	23.69	23.68		
45	QPSK	120	0	22.74	22.83	22.58	23.5	1.0
45	QPSK	120	60	23.48	23.65	23.60	24.5	0.0
45	QPSK	120	120	22.44	22.55	22.47	23.5	1.0
45	QPSK	240	0	22.58	22.61	22.52	23.5	1.0
45	16QAM	1	1	22.63	22.57	22.60	23.5	1.0
45	64QAM	1	1	20.97	21.17	21.11	22.0	2.5
45	256QAM	1	1	19.23	19.35	19.33	20.0	4.5
Channel				346000	349000	352000	turn-up limit (dB)	MPR
Frequency (MHz)				1730	1745	1750		
40	QPSK	1	1	23.52	23.71	23.59	24.5	0.0
Channel				345500	349000	352500	turn-up limit (dB)	MPR
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	23.64	23.73	23.70	24.5	0.0
Channel				345000	349000	353000	turn-up limit (dB)	MPR
Frequency (MHz)				1725	1745	1766		
30	QPSK	1	1	23.60	23.63	23.62	24.5	0.0
Channel				344500	349000	353500	turn-up limit (dB)	MPR
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.68	23.72	23.65	24.5	0.0
Channel				344000	349000	354000	turn-up limit (dB)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.57	23.69	23.60	24.5	0.0
Channel				343500	349000	354500	turn-up limit (dB)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.54	23.62	23.59	24.5	0.0
Channel				343000	349000	355000	turn-up limit (dB)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.58	23.70	23.58	24.5	0.0
Channel				342500	349000	355500	turn-up limit (dB)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.55	23.72	23.68	24.5	0.0



n38 Main PA Ant4 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.			
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	19.85	19.85	19.88			
40	PI2 BPSK	1	53	19.79	19.80	19.81	20.2	0.0	
40	PI2 BPSK	1	104	19.80	19.93	19.83			
40	PI2 BPSK	50	0	19.91	19.94	19.81	20.2	0.0	
40	PI2 BPSK	80	28	19.63	20.04	19.75	20.2	0.0	
40	PI2 BPSK	50	56	19.79	19.89	19.77			
40	PI2 BPSK	100	0	19.86	20.01	19.90	20.2	0.0	
40	QPSK	1	1	19.90	20.08	19.94			
40	QPSK	1	83	19.92	19.93	19.73	20.2	0.0	
40	QPSK	1	104	19.76	19.88	19.79			
40	QPSK	50	0	19.89	20.01	19.85	20.2	0.0	
40	QPSK	50	28	19.98	20.04	19.88	20.2	0.0	
40	QPSK	50	56	19.86	19.94	19.76	20.2	0.0	
40	QPSK	100	0	19.89	20.03	19.77	20.2	0.0	
40	16QAM	1	1	19.94	19.70	19.93	20.2	0.0	
40	64QAM	1	1	19.88	20.02	19.79	20.2	0.0	
40	256QAM	1	1	20.02	19.88	19.83	20.2	0.0	
Channel				517002	519000	520998	Turn-up limit (dB)	MPR	
Frequency (MHz)				2585.01	2590	2604.99			
30	QPSK	1	1	20.04	19.87	19.69	20.2	0.0	
Channel				516504	519000	521496	Turn-up limit (dB)	MPR	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	19.90	19.83	19.84	20.2	0.0	
Channel				516000	519000	522000	Turn-up limit (dB)	MPR	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.98	19.94	19.89	20.2	0.0	
Channel				515502	519000	522498	Turn-up limit (dB)	MPR	
Frequency (MHz)				2587.51	2595	2612.49			
15	QPSK	1	1	20.07	19.76	19.89	20.2	0.0	
Channel				515004	519000	522996	Turn-up limit (dB)	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.99	19.85	19.77	20.2	0.0	

n41 Main PA Ant4 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.			
Channel				506002	518998	529000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.37	19.33	19.32			
100	PI2 BPSK	1	137	19.22	19.20	19.25	19.7	0.0	
100	PI2 BPSK	1	271	19.23	19.24	19.13			
100	PI2 BPSK	135	0	19.35	19.39	19.24	19.7	0.0	
100	PI2 BPSK	135	69	19.11	19.41	19.20	19.7	0.0	
100	PI2 BPSK	135	138	19.20	19.16	19.09			
100	PI2 BPSK	270	0	19.24	19.37	19.29	19.7	0.0	
100	QPSK	1	1	19.35	19.42	19.28			
100	QPSK	1	137	19.31	19.32	19.20	19.7	0.0	
100	QPSK	1	271	19.16	19.37	19.10			
100	QPSK	135	0	19.27	19.34	19.21	19.7	0.0	
100	QPSK	135	69	19.29	19.41	19.15	19.7	0.0	
100	QPSK	135	138	19.23	19.40	19.24			
100	QPSK	270	0	19.28	19.35	19.29	19.7	0.0	
100	16QAM	1	1	19.34	19.20	19.22	19.7	0.0	
100	64QAM	1	1	19.17	19.39	19.21	19.7	0.0	
100	256QAM	1	1	19.31	19.35	19.30	19.7	0.0	
Channel				506000	518998	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.35	19.21	19.16	19.7	0.0	
Channel				507204	518998	529996	Turn-up limit (dB)	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.19	19.24	19.24	19.7	0.0	
Channel				506502	518998	531000	Turn-up limit (dB)	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.21	19.32	19.17	19.7	0.0	
Channel				505200	518998	531996	Turn-up limit (dB)	MPR	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.20	19.12	19.09	19.7	0.0	
Channel				504204	518998	532996	Turn-up limit (dB)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.27	19.14	19.24	19.7	0.0	
Channel				503502	518998	534000	Turn-up limit (dB)	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.34	19.29	19.09	19.7	0.0	
Channel				502200	518998	534996	Turn-up limit (dB)	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.35	19.13	19.23	19.7	0.0	
Channel				501204	518998	535996	Turn-up limit (dB)	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.19	19.29	19.24	19.7	0.0	
Channel				500700	518998	536996	Turn-up limit (dB)	MPR	
Frequency (MHz)				2503.05	2592.99	2682.48			
15	QPSK	1	1	19.40	19.17	19.10	19.7	0.0	
Channel				500202	518998	537000	Turn-up limit (dB)	MPR	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.32	19.13	19.05	19.7	0.0	



Part270 n77 Main PA Ant5 DS10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3700	3840	3930				
100	PI2 BPSK	1	1	16.53	16.55	16.57				
100	PI2 BPSK	1	137	16.62	16.55	16.39	17.5	0.0		
100	PI2 BPSK	1	271	16.30	16.40	16.23				
100	PI2 BPSK	135	0	16.28	16.45	16.36	17.5	0.0		
100	PI2 BPSK	135	69	16.52	16.66	16.39	17.5	0.0		
100	PI2 BPSK	135	138	16.32	16.51	16.26				
100	PI2 BPSK	270	0	16.34	16.43	16.36	17.5	0.0		
100	QPSK	1	1	16.52	16.69	16.56				
100	QPSK	1	137	16.38	16.45	16.59	17.5	0.0		
100	QPSK	1	271	16.54	16.47	16.51				
100	QPSK	135	0	16.30	16.53	16.34	17.5	0.0		
100	QPSK	135	69	16.59	16.62	16.48	17.5	0.0		
100	QPSK	135	138	16.32	16.38	16.29	17.5	0.0		
100	QPSK	270	0	16.40	16.41	16.31	17.5	0.0		
100	6QAM	1	1	16.19	16.36	16.37	17.5	0.0		
100	6QAM	1	1	15.96	16.00	15.88	17.5	0.0		
100	256QAM	1	1	16.46	16.81	16.37	17.5	0.0		
Channel										
Frequency (MHz)				649668	656000	662334	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3743.02	3840	3943.01	17.5	0.0		
80	QPSK	1	1	15.90	16.03	15.97	17.5	0.0		
Channel										
Frequency (MHz)				649334	656000	662668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3749.01	3840	3949.02	17.5	0.0		
80	QPSK	1	1	15.91	16.18	16.01	17.5	0.0		
Channel										
Frequency (MHz)				649000	656000	663000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	3795	3840	3945	17.5	0.0		
70	QPSK	1	1	15.88	16.00	15.90	17.5	0.0		
Channel										
Frequency (MHz)				648668	656000	663334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	3743.02	3840	3943.01	17.5	0.0		
60	QPSK	1	1	15.92	16.00	15.94	17.5	0.0		
Channel										
Frequency (MHz)				648334	656000	663668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3725.01	3840	3925.02	17.5	0.0		
50	QPSK	1	1	15.94	16.06	15.97	17.5	0.0		
Channel										
Frequency (MHz)				648000	656000	664000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3720	3840	3920	17.5	0.0		
40	QPSK	1	1	15.95	16.15	16.01	17.5	0.0		
Channel										
Frequency (MHz)				647668	656000	664334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	3713.02	3840	3913.01	17.5	0.0		
30	QPSK	1	1	15.91	16.15	16.01	17.5	0.0		
Channel										
Frequency (MHz)				647300	656000	664600	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3712.5	3840	3912.5	17.5	0.0		
25	QPSK	1	1	15.83	16.11	16.01	17.5	0.0		
Channel										
Frequency (MHz)				647000	656000	664900	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3710.01	3840	3910.02	17.5	0.0		
20	QPSK	1	1	15.87	16.05	15.88	17.5	0.0		
Channel										
Frequency (MHz)				647168	656000	664834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	3707.52	3840	3917.51	17.5	0.0		
15	QPSK	1	1	15.90	16.14	15.92	17.5	0.0		
Channel										
Frequency (MHz)				647000	656000	665000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	3705	3840	3915	17.5	0.0		
10	QPSK	1	1	15.88	16.13	15.93	17.5	0.0		

Part270 n77 PC2 Main PA Ant5 DS10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3700	3840	3930				
100	PI2 BPSK	1	1	19.33	19.52	19.54				
100	PI2 BPSK	1	137	19.57	19.39	19.26	20.5	0.0		
100	PI2 BPSK	1	271	19.15	19.37	19.07				
100	PI2 BPSK	135	0	19.12	19.31	19.19	20.5	0.0		
100	PI2 BPSK	135	69	19.36	19.55	19.27	20.5	0.0		
100	PI2 BPSK	135	138	19.17	19.40	19.23				
100	PI2 BPSK	270	0	19.21	19.26	19.19	20.5	0.0		
100	QPSK	1	1	19.56	19.71	19.59				
100	QPSK	1	137	19.24	19.32	19.57	20.5	0.0		
100	QPSK	1	271	19.54	19.46	19.52				
100	QPSK	135	0	19.17	19.31	19.19	20.5	0.0		
100	QPSK	135	69	19.42	19.64	19.28	20.5	0.0		
100	QPSK	135	138	19.18	19.24	19.17	20.5	0.0		
100	QPSK	270	0	19.22	19.35	19.32	20.5	0.0		
100	6QAM	1	1	19.06	19.26	19.37	20.5	0.0		
100	6QAM	1	1	18.95	18.87	18.87	20.5	0.0		
100	256QAM	1	1	19.30	19.49	19.36	20.5	0.0		
Channel										
Frequency (MHz)				649668	656000	662334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	3743.02	3840	3943.01	20.5	0.0		
90	QPSK	1	1	19.01	19.09	19.00	20.5	0.0		
Channel										
Frequency (MHz)				649334	656000	662668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3749.01	3840	3949.02	20.5	0.0		
80	QPSK	1	1	18.95	19.13	19.08	20.5	0.0		
Channel										
Frequency (MHz)				649000	656000	663000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	3795	3840	3945	20.5	0.0		
70	QPSK	1	1	18.88	19.19	19.04	20.5	0.0		
Channel										
Frequency (MHz)				648668	656000	663334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	3743.02	3840	3943.01	20.5	0.0		
60	QPSK	1	1	19.01	19.09	19.00	20.5	0.0		
Channel										
Frequency (MHz)				648334	656000	663668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3725.01	3840	3925.02	20.5	0.0		
50	QPSK	1	1	19.04	19.18	19.02	20.5	0.0		
Channel										
Frequency (MHz)				648000	656000	664000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3720	3840	3920	20.5	0.0		
40	QPSK	1	1	18.91	19.15	18.93	20.5	0.0		
Channel										
Frequency (MHz)				647668	656000	664334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	3713.02	3840	3913.01	20.5	0.0		
30	QPSK	1	1	18.98	19.09	19.05	20.5	0.0		
Channel										
Frequency (MHz)				647300	656000	664600	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3712.5	3840	3912.5	20.5	0.0		
25	QPSK	1	1	18.90	19.06	19.06	20.5	0.0		
Channel										
Frequency (MHz)				647000	656000	664900	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3710.01	3840	3910.02	20.5	0.0		
20	QPSK	1	1	19.01	19.02	18.89	20.5	0.0		
Channel										
Frequency (MHz)				647168	656000	664834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	3707.52	3840	3917.51	20.5	0.0		
15	QPSK	1	1	18.98	19.11	19.06	20.5	0.0		
Channel										
Frequency (MHz)				647000	656000	665000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	3705	3840	3915	20.5	0.0		
10	QPSK	1	1	18.97	19.17	19.01	20.5	0.0		

Part27Q n77 Main PA Ant5 DS10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)						3500.01				
100	PI2 BPSK	1	1			16.56				
100	PI2 BPSK	1	137			16.63			17.5	0.0
100	PI2 BPSK	1	271			16.39				
100	PI2 BPSK	135	0			16.81			17.5	0.0
100	PI2 BPSK	135	69			16.75			17.5	0.0
100	PI2 BPSK	135	138			16.58			17.5	0.0
100	PI2 BPSK	270	0			16.53				
100	QPSK	1	1			16.82				
100	QPSK	1	137			16.74			17.5	0.0
100	QPSK	1	271			16.81				
100	QPSK	135	0			16.81			17.5	0.0
100	QPSK	135	69			16.73			17.5	0.0
100	QPSK	135	138			16.56			17.5	0.0
100	QPSK	270	0			16.47			17.5	0.0
100	6QAM	1	1			16.17			17.5	0.0
100	6QAM	1	1			15.97			17.5	0.0
100	256QAM	1	1			16.41			17.5	0.0
Channel										
Frequency (MHz)				633000	6333					



Part27Q n77 PC2 Main PA Ant5 DSI0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.56	3500.01					
100	PI2 BPSK	1	137	19.87			20.5	0.0		
100	PI2 BPSK	1	271	19.82						
100	PI2 BPSK	135	0	19.85			20.5	0.0		
100	PI2 BPSK	135	69	19.95			20.5	0.0		
100	PI2 BPSK	135	138	19.76						
100	PI2 BPSK	270	0	19.95			20.5	0.0		
100	QPSK	1	1	20.15						
100	QPSK	1	137	19.98			20.5	0.0		
100	QPSK	1	271	20.00						
100	QPSK	135	0	20.02			20.5	0.0		
100	QPSK	135	69	20.09			20.5	0.0		
100	QPSK	135	138	19.78						
100	QPSK	270	0	19.97			20.5	0.0		
100	8QAM	1	1	19.47			20.5	0.0		
100	8QAM	1	1	19.21			20.5	0.0		
100	256QAM	1	1	19.83			20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	63300	63334	63368	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3450	3500.01	3550.02	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.55	19.50	19.59	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	63268	63334	63400	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3490.02	3500.01	3510	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.58	19.59	19.50	20.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	63234	63334	63434	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	3485.01	3500.01	3515.01	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	19.51	19.49	19.42	20.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	63200	63334	63468	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	3470	3500.01	3540.02	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.56	19.53	19.41	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63168	63334	63500	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3476.02	3500.01	3525	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	19.54	19.54	19.51	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	63134	63334	63534	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3470.01	3500.01	3530.01	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	19.52	19.50	19.56	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	63100	63334	63568	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	3460	3500.01	3550.02	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	19.59	19.47	19.42	20.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	63034	63334	63634	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3462.51	3500.01	3537.51	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	19.54	19.48	19.41	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63000	63334	63668	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3450.02	3500.01	3540	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	19.55	19.52	19.43	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	63050	63334	63618	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	3475	3500.01	3542.5	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	19.54	19.54	19.45	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	63034	63334	63634	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	3458.01	3500.01	3548.01	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	19.54	19.56	19.50	20.5	0.0		

Part27O n78 Main PA Ant5 DSI0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	16.21	3750	3750				
100	PI2 BPSK	1	137	16.29			17.0	0.0		
100	PI2 BPSK	1	271	16.11						
100	PI2 BPSK	135	0	16.09			17.0	0.0		
100	PI2 BPSK	135	69	16.23			17.0	0.0		
100	PI2 BPSK	135	138	16.14						
100	PI2 BPSK	270	0	16.20			17.0	0.0		
100	QPSK	1	1	16.32						
100	QPSK	1	137	16.22			17.0	0.0		
100	QPSK	1	271	16.20						
100	QPSK	135	0	16.16			17.0	0.0		
100	QPSK	135	69	16.28			17.0	0.0		
100	QPSK	135	138	16.19						
100	QPSK	270	0	16.22			17.0	0.0		
100	8QAM	1	1	16.04			17.0	0.0		
100	8QAM	1	1	15.80			17.0	0.0		
100	256QAM	1	1	16.24			17.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	64968	65000	65034	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	3742.02	3750	3760.01	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	16.20	16.16	16.07	17.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	64934	65000	65068	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	16.18	16.08	16.11	17.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	64900	65000	65100	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	3735	3750	3765	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	16.21	16.22	16.10	17.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	64868	65000	65134	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	3742.02	3750	3760.01	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	16.05	16.07	16.07	17.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64834	65000	65168	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3736.01	3750	3765.02	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	16.18	16.11	16.00	17.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	64800	65000	65200	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3730	3750	3760	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	16.00	16.14	16.07	17.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	64768	65000	65234	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	3742.02	3750	3760.01	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	16.22	16.15	16.08	17.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	64700	65000	65250	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3742.5	3750	3767.5	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	16.17	16.04	16.16	17.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	64734	65000	65268	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	16.05	16.11	16.11	17.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	64718	65000	65284	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	3742.02	3750	3762.51	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	16.17	16.18	16.01	17.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	64700	65000	65300	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	3705	3750	3795	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	16.09	16.20	16.13	17.0	0.0		

Part27O n78 PC2 Main PA Ant5 DSI0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.12	3750	3750				
100	PI2 BPSK	1	137	19.23			20.0	0.0		
100	PI2 BPSK	1	271	19.18						
100	PI2 BPSK	135	0	19.17			20.0	0.0		
100	PI2 BPSK	135	69	19.32			20.0	0.0		
100	PI2 BPSK	135	138	19.06						
100	PI2 BPSK	270	0	19.19			20.0	0.0		
100	QPSK	1	1	19.39						
100	QPSK	1	137	19.12			20.0	0.0		
100	QPSK	1	271	19.09						
100	QPSK	135	0	19.15			20.0	0.0		
100	QPSK	135	69</							



Part27Q n78 Main PA Ant5 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.15	18.06	18.01			
100	PI2 BPSK	1	137	18.06	18.06	18.01	17.0	0.0	
100	PI2 BPSK	1	271	18.01	18.01	18.01			
100	PI2 BPSK	135	0	15.84	15.84	15.84	17.0	0.0	
100	PI2 BPSK	135	69	18.09	18.09	18.09	17.0	0.0	
100	PI2 BPSK	135	138	18.02	18.02	18.02	17.0	0.0	
100	PI2 BPSK	270	0	18.09	18.09	18.09	17.0	0.0	
100	QPSK	1	1	18.28	18.28	18.28			
100	QPSK	1	137	18.06	18.06	18.06	17.0	0.0	
100	QPSK	1	271	18.06	18.06	18.06			
100	QPSK	135	0	18.04	18.04	18.04	17.0	0.0	
100	QPSK	135	69	18.12	18.12	18.12	17.0	0.0	
100	QPSK	135	138	18.08	18.08	18.08	17.0	0.0	
100	QPSK	270	0	18.08	18.08	18.08	17.0	0.0	
100	16QAM	1	1	18.83	18.83	18.83	17.0	0.0	
100	64QAM	1	1	18.59	18.59	18.59	17.0	0.0	
100	256QAM	1	1	18.08	18.08	18.08	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63300	63334	63968	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3480.02	3500.01	3510	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.10	18.15	18.05	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63468	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3480	3500.01	3520.02	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63168	63334	63500	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3475.02	3500.01	3525	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.08	18.02	18.05	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.14	18.04	18.07	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63100	63334	63568	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3480	3500.01	3520.02	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63068	63334	63600	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3482.51	3500.01	3537.51	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.01	18.01	18.07	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63098	63334	63634	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3485.01	3500.01	3545.01	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.00	18.06	18.84	17.0	0.0	

Part27Q n78 PC2 Main PA Ant5 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.91	18.91	18.91			
100	PI2 BPSK	1	137	18.11	18.11	18.11	20.0	0.0	
100	PI2 BPSK	1	271	18.96	18.96	18.96			
100	PI2 BPSK	135	0	18.00	18.00	18.00	20.0	0.0	
100	PI2 BPSK	135	69	19.25	19.25	19.25	20.0	0.0	
100	PI2 BPSK	135	138	18.86	18.86	18.86	20.0	0.0	
100	PI2 BPSK	270	0	18.87	18.87	18.87	20.0	0.0	
100	QPSK	1	1	18.39	18.39	18.39			
100	QPSK	1	137	18.10	18.10	18.10	20.0	0.0	
100	QPSK	1	271	18.12	18.12	18.12			
100	QPSK	135	0	18.12	18.12	18.12	20.0	0.0	
100	QPSK	135	69	19.22	19.22	19.22	20.0	0.0	
100	QPSK	135	138	18.08	18.08	18.08	20.0	0.0	
100	QPSK	270	0	19.00	19.00	19.00	20.0	0.0	
100	16QAM	1	1	18.87	18.87	18.87	20.0	0.0	
100	64QAM	1	1	18.71	18.71	18.71	20.0	0.0	
100	256QAM	1	1	18.22	18.22	18.22	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63300	63334	63968	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3480	3500.01	3520.02	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.92	18.87	18.86	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63234	63334	63434	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3485.01	3500.01	3515.01	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.98	18.88	18.75	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63200	63334	63468	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3480	3500.01	3520.02	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63168	63334	63500	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3475.02	3500.01	3525	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63134	63334	63334	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3470.01	3500.01	3530.01	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.12	18.03	18.89	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63100	63334	63568	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3480	3500.01	3520.02	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63068	63334	63600	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3482.51	3500.01	3537.51	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.08	18.62	18.87	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63098	63334	63634	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3485.01	3500.01	3545.01	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.02	19.04	18.81	20.0	0.0	



Part270 n77 Main PA Ant6 DS10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	15.12	15.20	15.02				
100	PI2 BPSK	1	137	15.07	15.16	14.93	16.5	0.0		
100	PI2 BPSK	1	271	14.91	15.14	14.89				
100	PI2 BPSK	135	0	14.89	15.02	15.03	16.5	0.0		
100	PI2 BPSK	135	69	15.19	15.10	15.02	16.5	0.0		
100	PI2 BPSK	135	138	15.03	15.19	14.77				
100	PI2 BPSK	270	0	15.00	15.10	14.91	16.5	0.0		
100	QPSK	1	1	15.21	15.30	15.26				
100	QPSK	1	137	15.18	15.10	14.99	16.5	0.0		
100	QPSK	1	271	15.04	15.14	15.01				
100	QPSK	135	0	14.90	15.06	14.82	16.5	0.0		
100	QPSK	135	69	15.21	15.28	15.23	16.5	0.0		
100	QPSK	135	138	15.02	15.04	14.89	16.5	0.0		
100	QPSK	270	0	15.20	15.25	15.16	16.5	0.0		
100	8QAM	1	1	15.19	15.19	14.99	16.5	0.0		
100	8QAM	1	1	15.11	15.26	14.99	16.5	0.0		
100	256QAM	1	1	15.17	15.27	15.11	16.5	0.0		
Channel										
Frequency (MHz)				649668	650000	652334	Time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	15.07	15.14	15.14	19.5	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	Time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	15.08	15.16	15.14	16.5	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	Time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	15.09	15.19	15.16	16.5	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	Time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	15.03	15.16	15.21	19.5	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	Time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	15.18	15.28	15.25	16.5	0.0		
Channel										
Frequency (MHz)				3720	3840	3960	Time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	15.14	15.13	15.22	16.5	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	Time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	15.14	15.13	15.11	19.5	0.0		
Channel										
Frequency (MHz)				647000	650000	654000	Time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	15.17	15.20	15.10	16.5	0.0		
Channel										
Frequency (MHz)				3710.01	3840	3970.02	Time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	15.13	15.13	15.21	16.5	0.0		
Channel										
Frequency (MHz)				647168	650000	654834	Time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	15.13	15.20	15.21	19.5	0.0		
Channel										
Frequency (MHz)				647000	650000	650000	Time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	15.15	15.23	15.15	16.5	0.0		

Part270 n77 PC2 Main PA Ant6 DS10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	17.50	18.04	17.66				
100	PI2 BPSK	1	137	17.85	18.05	17.75	19.5	0.0		
100	PI2 BPSK	1	271	17.70	17.90	17.65				
100	PI2 BPSK	135	0	17.80	17.70	17.74	19.5	0.0		
100	PI2 BPSK	135	69	18.02	17.99	17.87	19.5	0.0		
100	PI2 BPSK	135	138	17.81	18.01	17.86				
100	PI2 BPSK	270	0	17.87	17.84	17.78	19.5	0.0		
100	QPSK	1	1	18.02	18.06	18.01				
100	QPSK	1	137	17.92	17.85	17.83	19.5	0.0		
100	QPSK	1	271	17.84	18.03	17.71				
100	QPSK	135	0	17.77	17.96	17.73	19.5	0.0		
100	QPSK	135	69	17.95	18.03	17.99	19.5	0.0		
100	QPSK	135	138	17.91	17.94	17.87	19.5	0.0		
100	QPSK	270	0	17.97	17.99	17.97	19.5	0.0		
100	8QAM	1	1	17.96	18.02	17.96	19.5	0.0		
100	8QAM	1	1	17.87	17.86	17.90	19.5	0.0		
100	256QAM	1	1	18.00	18.00	17.78	19.5	0.0		
Channel										
Frequency (MHz)				649668	650000	652334	Time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	18.02	17.91	17.90	19.5	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	Time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	17.88	17.95	17.84	19.5	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	Time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	17.90	17.97	17.92	19.5	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	Time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	17.97	17.95	17.99	19.5	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	Time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	17.99	17.86	17.88	19.5	0.0		
Channel										
Frequency (MHz)				3720	3840	3960	Time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	17.84	17.98	17.82	19.5	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	Time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	17.92	18.04	17.83	19.5	0.0		
Channel										
Frequency (MHz)				647000	650000	654000	Time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	18.01	17.95	17.99	19.5	0.0		
Channel										
Frequency (MHz)				3710.01	3840	3970.02	Time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	17.93	17.87	17.82	19.5	0.0		
Channel										
Frequency (MHz)				647168	650000	654834	Time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	17.93	18.00	17.91	19.5	0.0		
Channel										
Frequency (MHz)				647000	650000	650000	Time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	18.00	17.93	17.87	19.5	0.0		

Part27Q n77 Main PA Ant6 DS10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)					3500.01					
100	PI2 BPSK	1	1		15.07					
100	PI2 BPSK	1	137		15.19		16.5	0.0		
100	PI2 BPSK	1	271		14.83					
100	PI2 BPSK	135	0		14.73		16.5	0.0		
100	PI2 BPSK	135	69		15.02		16.5	0.0		
100	PI2 BPSK	135	138		15.17					
100	PI2 BPSK	270	0		15.14		16.5	0.0		
100	QPSK	1	1		15.22					
100	QPSK	1	137		15.04		16.5	0.0		
100	QPSK	1	271		14.98					
100	QPSK	135	0		15.10		16.5	0.0		
100	QPSK	135	69		15.15		16.5	0.0		
100	QPSK	135	138		15.02		16.5	0.0		
100	QPSK	270	0		15.12		16.5	0.0		
100	8QAM	1	1		15.21		16.5	0.0		
100	8QAM	1	1		15.22		16.5	0.0		
100	256QAM	1	1		15.08		16.5	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	Time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	15.08	15.11	15.02	19.5	0.0		
Channel										
Frequency (MHz)				633668	633334	633000	Time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	14.92	15.11	14.97	16.5	0.0		
Channel										
Frequency (MHz)				633000	633334	633334	Time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	15.03	15.11	15.07	16.5	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	Time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	15.01	15.11	15.02	19.5	0.0		
Channel										
Frequency (MHz)				631668	633334	633000	Time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	15.08	15.06	15.06	16.5	0.0		
Channel										
Frequency (MHz)				631334	633334	633334	Time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	14.99	15.03	14.87	16.5	0.0		
Channel										
Frequency (MHz)				631000	633334	633668	Time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	14.91	15.11	15.03	19.5	0.0		
Channel										
Frequency (MHz)				630668	633334	633668	Time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	14.94	15.02	14.92	16.5	0.0		
Channel										
Frequency (MHz)				630334	633334	633000	Time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	14.90	15.15	14.80	16.5	0.0		
Channel										
Frequency (MHz)				630000	633334	633668	Time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	14.91	15.11	15.03	19.5	0.0		
Channel										
Frequency (MHz)				630334	633334	633334	Time-up limit (dBm)	MPR (dB)		





Part27Q n77 PC2 Main PA Ant6 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.12	3500.01				
100	PI2 BPSK	1	137	18.19			19.5	0.0	
100	PI2 BPSK	1	271	17.95					
100	PI2 BPSK	135	0	17.83			19.5	0.0	
100	PI2 BPSK	135	69	18.19			19.5	0.0	
100	PI2 BPSK	135	138	18.04			19.5	0.0	
100	PI2 BPSK	270	0	17.99			19.5	0.0	
100	QPSK	1	1	18.23					
100	QPSK	1	137	18.05			19.5	0.0	
100	QPSK	1	271	18.11					
100	QPSK	135	0	18.07			19.5	0.0	
100	QPSK	135	69	18.20			19.5	0.0	
100	QPSK	135	138	18.00			19.5	0.0	
100	QPSK	270	0	18.16			19.5	0.0	
100	8QAM	1	1	18.19			19.5	0.0	
100	8QAM	1	1	18.07			19.5	0.0	
100	256QAM	1	1	18.13			19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3499	3500.01	3502.02	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3499.02	3500.01	3501.00	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.98	18.17	17.98	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.01	18.13	18.07	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.91	18.12	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3476.02	3500.01	3525	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3470.01	3500.01	3530.01	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.07	18.14	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	633668	19.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3482.51	3500.01	3537.51	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.98	18.19	18.07	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	633668	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3458.01	3500.01	3548.01	19.5	0.0	

Part27O n78 Main PA Ant6 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.50	3750	3750			
100	PI2 BPSK	1	137	14.48			15.5	0.0	
100	PI2 BPSK	1	271	14.26					
100	PI2 BPSK	135	0	14.33			15.5	0.0	
100	PI2 BPSK	135	69	14.43			15.5	0.0	
100	PI2 BPSK	135	138	14.44			15.5	0.0	
100	PI2 BPSK	270	0	14.33			15.5	0.0	
100	QPSK	1	1	14.66					
100	QPSK	1	137	14.49			15.5	0.0	
100	QPSK	1	271	14.54					
100	QPSK	135	0	14.56			15.5	0.0	
100	QPSK	135	69	14.57			15.5	0.0	
100	QPSK	135	138	14.30			15.5	0.0	
100	QPSK	270	0	14.54			15.5	0.0	
100	8QAM	1	1	14.81			15.5	0.0	
100	8QAM	1	1	14.36			15.5	0.0	
100	256QAM	1	1	14.53			15.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3742.02	3750	3760.01	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.46	14.48	14.36	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.50	14.50	14.51	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3726.01	3750	3726.02	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.54	14.52	14.38	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.56	14.62	14.47	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	19.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3712.5	3750	3762.5	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.58	14.54	14.47	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	15.5	0.0	

Part27O n78 PC2 Main PA Ant6 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.40	3750	3750			
100	PI2 BPSK	1	137	17.41			18.5	0.0	
100	PI2 BPSK	1	271	17.20					
100	PI2 BPSK	135	0	17.18			18.5	0.0	
100	PI2 BPSK	135	69	17.43			18.5	0.0	
100	PI2 BPSK	135	138	17.51			18.5	0.0	
100	PI2 BPSK	270	0	17.26			18.5	0.0	
100	QPSK	1	1	17.63					
100	QPSK	1	137	17.34			18.5	0.0	
100	QPSK	1	271	17.47					
100	QPSK	135	0	17.43			18.5	0.0	
100	QPSK	135	69	17.58			18.5	0.0	
100	QPSK	135	138	17.30			18.5	0.0	
100	QPSK	270	0	17.48			18.5	0.0	
100	8QAM	1	1	17.20			18.5	0.0	
100	8QAM	1	1	16.87			18.5	0.0	
100	256QAM	1	1	17.22			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3743.02	3750	3763.01	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.44	17.59	17.53	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.41	17.52	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3727.01	3750	3727.02	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.27	17.45	17.50	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.30	17.48	17.30	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	19.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3712.5	3750	3767.5	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.45	17.47	17.39	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	15.5	0.0	



Part27Q n78 Main PA DSI0 Ant6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.48	3000.01				
100	PI2 BPSK	1	137	14.57			15.5	0.0	
100	PI2 BPSK	1	271	14.40					
100	PI2 BPSK	135	0	14.48			15.5	0.0	
100	PI2 BPSK	135	69	14.38			15.5	0.0	
100	PI2 BPSK	135	138	14.44			15.5	0.0	
100	PI2 BPSK	270	0	14.30			15.5	0.0	
100	QPSK	1	1	14.69					
100	QPSK	1	137	14.47			15.5	0.0	
100	QPSK	1	271	14.69					
100	QPSK	135	0	14.54			15.5	0.0	
100	QPSK	135	69	14.63			15.5	0.0	
100	QPSK	135	138	14.40			15.5	0.0	
100	QPSK	270	0	14.58			15.5	0.0	
100	16QAM	1	1	14.39			15.5	0.0	
100	64QAM	1	1	14.04			15.5	0.0	
100	256QAM	1	1	14.48			15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.49	633334	63968	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.47	3490.02	3500.01	3510	15.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.39	633334	634000	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.50	633334	634668	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.42	633334	635000	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.59	633334	635000	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.45	633334	635634	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.47	633334	636000	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.53	633334	636168	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.53	633334	636168	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.44	633334	636168	tune-up limit (dBm)	MPR (dB)	

Part27Q n78 PC2 Main PA Ant6 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.49	3000.01				
100	PI2 BPSK	1	137	17.61			18.5	0.0	
100	PI2 BPSK	1	271	17.51					
100	PI2 BPSK	135	0	17.30			18.5	0.0	
100	PI2 BPSK	135	69	17.69			18.5	0.0	
100	PI2 BPSK	135	138	17.72			18.5	0.0	
100	PI2 BPSK	270	0	17.49			18.5	0.0	
100	QPSK	1	1	17.85					
100	QPSK	1	137	17.63			18.5	0.0	
100	QPSK	1	271	17.67					
100	QPSK	135	0	17.60			18.5	0.0	
100	QPSK	135	69	17.77			18.5	0.0	
100	QPSK	135	138	17.60			18.5	0.0	
100	QPSK	270	0	17.63			18.5	0.0	
100	16QAM	1	1	17.40			18.5	0.0	
100	64QAM	1	1	17.12			18.5	0.0	
100	256QAM	1	1	17.49			18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.36	633334	63968	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.42	3490.02	3500.01	3510	18.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.48	633334	634000	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.37	633334	634668	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.46	633334	635000	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.50	633334	635000	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.53	633334	635634	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.53	633334	636000	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.39	633334	636168	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.54	633334	636168	tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.40	633334	636168	tune-up limit (dBm)	MPR (dB)	



### Part270 n77 Main PA Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	20.70	20.71	20.73		
100	Pl2 BPSK	1	137	20.53	20.67	20.80	22.5	0.0
100	Pl2 BPSK	1	271	20.53	20.56	20.51		
100	Pl2 BPSK	135	0	20.53	20.60	20.58	22.5	0.0
100	Pl2 BPSK	135	69	20.64	20.71	20.59	22.5	0.0
100	Pl2 BPSK	135	138	20.55	20.54	20.54		
100	Pl2 BPSK	270	0	20.63	20.56	20.56	22.5	0.0
100	QPSK	1	1	20.69	20.81	20.75		
100	QPSK	1	137	20.56	20.66	20.61	22.5	0.0
100	QPSK	1	271	20.59	20.68	20.63		
100	QPSK	135	0	20.63	20.70	20.68	22.5	0.0
100	QPSK	135	69	20.72	20.76	20.69	22.5	0.0
100	QPSK	135	138	20.52	20.65	20.60	22.5	0.0
100	QPSK	270	0	20.61	20.68	20.53	22.5	0.0
100	6QAM	1	1	20.53	20.62	20.66	22.5	0.0
100	6QAM	1	1	20.57	20.66	20.59	22.5	0.0
100	25QAM	1	1	19.16	19.29	19.25	21.0	1.5
Channel								
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3742.02	3840	3930.01	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.53	20.70	20.60	22.5	0.0
Channel								
Frequency (MHz)				645334	650000	650668	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3749.01	3840	3940.02	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.60	20.75	20.64	22.5	0.0
Channel								
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3795	3840	3945	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.59	20.67	20.70	22.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3742.02	3840	3930.01	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.58	20.68	20.70	22.5	0.0
Channel								
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3725.01	3840	3950.02	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.66	20.76	20.65	22.5	0.0
Channel								
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3790	3840	3990	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.61	20.69	20.64	22.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3712.02	3840	3930.01	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.54	20.66	20.62	22.5	0.0
Channel								
Frequency (MHz)				647000	650000	654000	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3712.5	3840	3975.5	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	20.57	20.67	20.67	22.5	0.0
Channel								
Frequency (MHz)				647334	650000	650668	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3710.01	3840	3970.02	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.62	20.75	20.63	22.5	0.0
Channel								
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3707.52	3840	3972.51	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.59	20.70	20.72	22.5	0.0
Channel								
Frequency (MHz)				647000	650000	650000	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3705	3840	3975	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.65	20.71	20.69	22.5	0.0

### Part270 n77 PC2 Main PA Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	23.74	23.76	23.69		
100	Pl2 BPSK	1	137	23.60	23.73	23.68	25.5	0.0
100	Pl2 BPSK	1	271	23.61	23.68	23.55		
100	Pl2 BPSK	135	0	23.20	23.32	23.26	25.0	0.5
100	Pl2 BPSK	135	69	23.09	23.75	23.61	25.0	0.0
100	Pl2 BPSK	135	138	23.20	23.27	23.23		
100	Pl2 BPSK	270	0	23.18	23.26	23.22	25.0	0.5
100	QPSK	1	1	23.77	23.82	23.72		
100	QPSK	1	137	23.71	23.75	23.67	25.5	0.0
100	QPSK	1	271	23.56	23.67	23.52		
100	QPSK	135	0	22.84	22.73	22.84	24.5	1.0
100	QPSK	135	69	23.63	23.77	23.68	25.5	0.0
100	QPSK	135	138	22.67	22.70	22.57	24.5	1.0
100	QPSK	270	0	22.62	22.74	22.64	24.5	1.0
100	6QAM	1	1	22.84	22.89	22.59	24.5	1.0
100	6QAM	1	1	21.12	21.17	21.21	23.0	2.5
100	25QAM	1	1	19.26	19.34	19.30	21.0	4.5
Channel								
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3742.02	3840	3930.01	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.65	23.67	23.59	25.5	0.0
Channel								
Frequency (MHz)				645334	650000	650668	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3749.01	3840	3940.02	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.64	23.74	23.67	25.5	0.0
Channel								
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3795	3840	3945	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.70	23.70	23.65	25.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3742.02	3840	3930.01	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.65	23.75	23.63	25.5	0.0
Channel								
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3725.01	3840	3950.02	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.71	23.69	23.62	25.5	0.0
Channel								
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3790	3840	3990	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.63	23.76	23.65	25.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3712.02	3840	3930.01	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.67	23.68	23.63	25.5	0.0
Channel								
Frequency (MHz)				647000	650000	654000	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3712.5	3840	3975.5	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	23.68	23.70	23.57	25.5	0.0
Channel								
Frequency (MHz)				647334	650000	650668	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3710.01	3840	3970.02	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.70	23.76	23.64	25.5	0.0
Channel								
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3707.52	3840	3972.51	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.64	23.71	23.57	25.5	0.0
Channel								
Frequency (MHz)				647000	650000	650000	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3705	3840	3975	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.64	23.74	23.61	25.5	0.0

### Part270Q n77 Main PA Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)						3500.01		
100	Pl2 BPSK	1	1			20.54		
100	Pl2 BPSK	1	137			20.87	22.5	0.0
100	Pl2 BPSK	1	271			20.79		
100	Pl2 BPSK	135	0			20.80	22.5	0.0
100	Pl2 BPSK	135	69			20.94	22.5	0.0
100	Pl2 BPSK	135	138			20.69		
100	Pl2 BPSK	270	0			20.87	22.5	0.0
100	QPSK	1	1			20.98		
100	QPSK	1	137			20.85	22.5	0.0
100	QPSK	1	271			20.80		
100	QPSK	135	0			20.87	22.5	0.0
100	QPSK	135	69			20.93	22.5	0.0
100	QPSK	135	138			20.80	22.5	0.0
100	QPSK	270	0			20.87	22.5	0.0
100	6QAM	1	1			20.57	22.5	0.0
100	6QAM	1	1			20.63	22.5	0.0
100	25QAM	1	1			19.26	21.0	1.5
Channel								
Frequency (MHz)				630000	633334	633668	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3495	3500.01	3503.02	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.90	20.95	20.85	22.5	0.0
Channel								
Frequency (MHz)				630668	633334	634000	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3490.02	3500.01	3510	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.84	20.87	20.78	22.5	0.0
Channel								
Frequency (MHz)				630334	633334	633334	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3485.01	3500.01	3515.01	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.81	20.86	20.74	22.5	0.0
Channel								
Frequency (MHz)				630000	633334	634668	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1					



### Part27Q n77 PC2 Main PA Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01				
100	PI2 BPSK	1	137	23.86			25.5	0.0
100	PI2 BPSK	1	271	23.63				
100	PI2 BPSK	135	0	23.32			25.0	0.5
100	PI2 BPSK	135	69	23.73			25.5	0.0
100	PI2 BPSK	135	138	23.24			25.0	0.5
100	PI2 BPSK	270	0	23.32				
100	QPSK	1	1	23.83				
100	QPSK	1	137	23.73			25.5	0.0
100	QPSK	1	271	23.65				
100	QPSK	135	0	22.71			24.5	1.0
100	QPSK	135	69	23.78			25.5	0.0
100	QPSK	135	138	22.74			24.5	1.0
100	QPSK	270	0	22.77			24.5	1.0
100	8QAM	1	1	22.57			24.5	1.0
100	8QAM	1	1	21.90			23.0	2.5
100	25QAM	1	1	19.16			21.0	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	633000	633334	633668	time-up limit (dBm)	MPR (dB)
				3495	3500.01	3505.02		
				23.68	23.70	23.74	25.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	time-up limit (dBm)	MPR (dB)
				3490.02	3500.01	3510		
				23.65	23.72	23.73	25.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	time-up limit (dBm)	MPR (dB)
				3485.01	3500.01	3515.01		
				23.73	23.68	23.71	25.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	time-up limit (dBm)	MPR (dB)
				3480	3500.01	3505.02		
				23.76	23.79	23.68	25.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	time-up limit (dBm)	MPR (dB)
				3475.02	3500.01	3525		
				23.69	23.74	22.71	25.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	time-up limit (dBm)	MPR (dB)
				3470.01	3500.01	3530.01		
				23.74	23.69	23.66	25.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631000	633334	635668	time-up limit (dBm)	MPR (dB)
				3465	3500.01	3535.02		
				23.77	23.70	23.68	25.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	630834	633334	635834	time-up limit (dBm)	MPR (dB)
				3462.51	3500.01	3537.51		
				23.73	23.68	23.63	25.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630668	633334	636000	time-up limit (dBm)	MPR (dB)
				3460.02	3500.01	3540		
				23.75	23.76	23.63	25.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630500	633334	636168	time-up limit (dBm)	MPR (dB)
				3457.5	3500.01	3542.5		
				23.69	23.68	23.67	25.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630334	633334	636334	time-up limit (dBm)	MPR (dB)
				3455.01	3500.01	3545.01		
				23.70	23.77	23.64	25.5	0.0

### Part27O n78 Main PA Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3750	3750		
100	PI2 BPSK	1	137	21.56			23.0	0.0
100	PI2 BPSK	1	271	21.70				
100	PI2 BPSK	135	0	21.77			23.0	0.0
100	PI2 BPSK	135	69	21.87			23.0	0.0
100	PI2 BPSK	135	138	21.70			23.0	0.0
100	PI2 BPSK	270	0	21.83				
100	QPSK	1	1	21.99				
100	QPSK	1	137	21.82			23.0	0.0
100	QPSK	1	271	21.85				
100	QPSK	135	0	21.83			23.0	0.0
100	QPSK	135	69	21.94			23.0	0.0
100	QPSK	135	138	21.80			23.0	0.0
100	QPSK	270	0	21.85			23.0	0.0
100	8QAM	1	1	21.78			23.0	0.0
100	8QAM	1	1	21.45			23.0	0.0
100	25QAM	1	1	20.47			21.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)
				3742.02	3750	3763.01		
				21.98	21.93	21.94	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)
				3740.01	3750	3760.02		
				21.79	21.89	21.78	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	650000	651000	time-up limit (dBm)	MPR (dB)
				3735	3750	3765		
				21.90	21.94	21.79	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)
				3730.02	3750	3763.01		
				21.97	21.88	21.77	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02		
				21.83	21.87	21.83	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648000	650000	652000	time-up limit (dBm)	MPR (dB)
				3720	3750	3790		
				21.82	21.91	21.73	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)
				3715.02	3750	3763.01		
				21.82	21.94	21.72	23.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	647500	650000	652500	time-up limit (dBm)	MPR (dB)
				3712.5	3750	3787.5		
				21.87	21.83	21.84	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	652668	time-up limit (dBm)	MPR (dB)
				3710.01	3750	3790.02		
				21.81	21.90	21.72	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	647168	650000	652834	time-up limit (dBm)	MPR (dB)
				3707.52	3750	3762.51		
				21.89	21.94	21.72	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	647000	650000	653000	time-up limit (dBm)	MPR (dB)
				3705	3750	3795		
				21.83	21.85	21.77	23.0	0.0

### Part27O n78 PC2 Main PA Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3750	3750		
100	PI2 BPSK	1	137	24.86			28.0	0.0
100	PI2 BPSK	1	271	24.79				
100	PI2 BPSK	135	0	24.40			25.5	0.5
100	PI2 BPSK	135	69	24.76			26.0	0.0
100	PI2 BPSK	135	138	24.29			25.5	0.5
100	PI2 BPSK	270	0	24.39				
100	QPSK	1	1	24.94				
100	QPSK	1	137	24.85			26.0	0.0
100	QPSK	1	271	24.78				
100	QPSK	135	0	23.75			25.0	1.0
100	QPSK	135	69	24.88			26.0	0.0
100	QPSK	135	138	23.77			25.0	1.0
100	QPSK	270	0	23.87			25.0	1.0
100	8QAM	1	1	23.70			23.0	1.0
100	8QAM	1	1	21.99			23.5	2.5
100	25QAM	1	1	20.48			21.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)
				3742.02	3750	3763.01		
				24.76	24.83	24.71	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)
				3740.01	3750	3760.02		
				24.86	24.82	24.89	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	650000	651000	time-up limit (dBm)	MPR (dB)
				3735	3750	3765		
				24.87	24.90	24.71	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)
				3730.02	3750	3763.01		
				24.82	24.81	24.77	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02		
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Part27Q n78 Main PA Ant7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.12	22.15	22.15			
100	PI2 BPSK	1	137	22.15	22.15	22.15	23.0	0.0	
100	PI2 BPSK	1	271	21.97	22.03	22.03			
100	PI2 BPSK	135	0	22.03	22.03	22.03	23.0	0.0	
100	PI2 BPSK	135	69	22.14	22.14	22.14	23.0	0.0	
100	PI2 BPSK	135	138	21.89	22.04	22.04	23.0	0.0	
100	PI2 BPSK	270	0	22.04	22.04	22.04	23.0	0.0	
100	QPSK	1	1	22.17	22.06	22.06			
100	QPSK	1	137	22.06	22.06	22.06	23.0	0.0	
100	QPSK	1	271	22.16	22.02	22.02			
100	QPSK	135	0	22.02	22.02	22.02	23.0	0.0	
100	QPSK	135	69	22.13	22.13	22.13	23.0	0.0	
100	QPSK	135	138	22.01	22.01	22.01	23.0	0.0	
100	QPSK	270	0	22.04	22.04	22.04	23.0	0.0	
100	16QAM	1	1	21.87	21.87	21.87	23.0	0.0	
100	64QAM	1	1	21.83	21.83	21.83	23.0	0.0	
100	256QAM	1	1	20.81	20.81	20.81	21.5	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.300	63.334	63.368	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495	3500.01	3520.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.01	22.05	22.01	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63.300	63.334	63.368	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3495	3500.01	3520.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.168	63.334	63.500	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.04	22.05	22.02	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63.100	63.334	63.568	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3495	3500.01	3530.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63.0834	63.334	63.5834	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3482.51	3500.01	3537.51	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.05	22.05	22.03	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63.050	63.334	63.618	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63.050	63.334	63.618	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3475	3500.01	3542.52	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63.034	63.334	63.634	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3500.01	3545.01	tune-up limit (dB)	MPR	

Part27Q n78 PC2 Main PA Ant7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.73	24.70	24.70			
100	PI2 BPSK	1	137	24.70	24.70	24.70	26.0	0.0	
100	PI2 BPSK	1	271	24.63	24.29	24.29			
100	PI2 BPSK	135	0	24.29	24.29	24.29	25.5	0.5	
100	PI2 BPSK	135	69	24.67	24.67	24.67	26.0	0.0	
100	PI2 BPSK	135	138	24.27	24.27	24.27	25.5	0.5	
100	PI2 BPSK	270	0	24.27	24.27	24.27	25.5	0.5	
100	QPSK	1	1	24.79	24.72	24.72			
100	QPSK	1	137	24.72	24.72	24.72	26.0	0.0	
100	QPSK	1	271	24.65	24.65	24.65			
100	QPSK	135	0	24.72	24.72	24.72	25.0	1.0	
100	QPSK	135	69	24.71	24.71	24.71	26.0	0.0	
100	QPSK	135	138	23.76	23.76	23.76	25.0	1.0	
100	QPSK	270	0	23.76	23.76	23.76	25.0	1.0	
100	16QAM	1	1	23.72	23.72	23.72	25.0	1.0	
100	64QAM	1	1	22.28	22.28	22.28	23.5	2.5	
100	256QAM	1	1	20.81	20.81	20.81	21.5	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.300	63.334	63.368	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495	3500.01	3520.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.61	24.68	24.64	26.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63.234	63.334	63.334	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3495.01	3500.01	3515.01	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.65	24.70	24.63	26.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63.200	63.334	63.468	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3495	3500.01	3520.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.168	63.334	63.500	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.67	24.65	24.61	26.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63.100	63.334	63.568	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3495	3500.01	3530.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63.0834	63.334	63.5834	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3482.51	3500.01	3537.51	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.67	24.68	24.69	26.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63.050	63.334	63.618	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3475	3500.01	3542.52	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63.034	63.334	63.634	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3457	3464	3464	26.0	0.0	



### DSI 0 Power for FR1 EN-DC Main PA

n5 Main PA Ant1 DSI0 ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168300	167300	169300			
Frequency (MHz)				834	836.5	839			
20	PV2 BPSK	1	1	19.56	19.65	19.56			
20	PV2 BPSK	1	53	19.54	19.66	19.57	21.5	0.0	
20	PV2 BPSK	1	104	19.55	19.55	19.60			
20	PV2 BPSK	50	0	19.58	19.57	19.56	21.5	0.0	
20	PV2 BPSK	50	28	19.65	19.68	19.63	21.5	0.0	
20	PV2 BPSK	50	56	19.59	19.57	19.54	21.5	0.0	
20	PV2 BPSK	100	0	19.59	19.60	19.54			
20	QPSK	1	1	19.69	19.73	19.70			
20	QPSK	1	53	19.60	19.56	19.68	21.5	0.0	
20	QPSK	1	104	19.59	19.54	19.52			
20	QPSK	50	0	19.51	19.59	19.59	21.5	0.0	
20	QPSK	50	28	19.64	19.68	19.62	21.5	0.0	
20	QPSK	50	56	19.52	19.58	19.52	21.5	0.0	
20	QPSK	100	0	19.58	19.66	19.63			
20	16QAM	1	1	19.62	19.58	19.54	21.5	0.0	
20	16QAM	1	1	19.63	19.70	19.62	21.5	0.0	
20	256QAM	1	1	19.33	19.28	19.22	21.0	0.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	19.58	19.70	19.55	21.5	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	836.5	841			
10	QPSK	1	1	19.64	19.56	19.67	21.5	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	19.53	19.60	19.52	21.5	0.0	

n7 Main PA Ant1 DSI0 ENDC									
BW [MHz]	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	509000			
Frequency (MHz)				2525	2535	2545			
50	PV2 BPSK	1	1	15.76	15.88	15.84			
50	PV2 BPSK	1	136	15.78	15.80	15.73	16.5	0.0	
50	PV2 BPSK	1	268	15.84	15.90	15.59			
50	PV2 BPSK	135	0	15.82	15.90	15.92	16.5	0.0	
50	PV2 BPSK	135	68	15.71	15.97	15.80	16.5	0.0	
50	PV2 BPSK	135	135	15.88	16.02	15.95			
50	PV2 BPSK	270	0	15.88	16.01	16.00	16.5	0.0	
50	QPSK	1	1	15.81	16.03	15.95			
50	QPSK	1	136	15.59	15.85	15.70	16.5	0.0	
50	QPSK	1	268	15.55	15.76	15.73			
50	QPSK	135	0	15.86	15.81	15.70	16.5	0.0	
50	QPSK	135	68	15.93	15.98	15.89	16.5	0.0	
50	QPSK	135	135	15.76	15.85	15.90	16.5	0.0	
50	QPSK	270	0	15.76	15.96	15.87			
50	16QAM	1	1	15.60	15.63	15.61	16.5	0.0	
50	16QAM	1	1	15.53	15.65	15.48	16.5	0.0	
50	256QAM	1	1	15.73	15.78	15.80	16.5	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	15.72	15.83	15.95	16.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	15.81	16.02	15.79	16.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	15.69	15.99	15.90	16.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PV2 BPSK	1	1	15.63	15.99	15.82	16.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	15.74	15.94	15.92	16.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	15.73	15.82	15.82	16.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	15.75	15.88	15.74	16.5	0.0	

n66 Main PA Ant1 DSI0 ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	345000	348000			
Frequency (MHz)				1732.5	1745	1757.5			
45	PV2 BPSK	1	1	13.14	13.29	13.37			
45	PV2 BPSK	1	120	13.15	13.48	13.32	15.0	0.0	
45	PV2 BPSK	1	243	13.15	13.13	13.35			
45	PV2 BPSK	120	0	13.23	13.52	13.36	15.0	0.0	
45	PV2 BPSK	120	60	13.36	13.45	13.29	15.0	0.0	
45	PV2 BPSK	120	120	13.49	13.55	13.47	15.0	0.0	
45	PV2 BPSK	240	0	13.44	13.26	13.35			
45	QPSK	1	1	13.56	13.59	13.42			
45	QPSK	1	120	12.96	13.29	13.11	15.0	0.0	
45	QPSK	1	243	13.25	13.16	13.26			
45	QPSK	120	0	13.20	13.15	13.30	15.0	0.0	
45	QPSK	120	60	13.33	13.55	13.46	15.0	0.0	
45	QPSK	120	120	13.14	13.41	13.40	15.0	0.0	
45	QPSK	240	0	13.25	13.39	13.15			
45	16QAM	1	1	13.21	13.27	13.23	15.0	0.0	
45	16QAM	1	1	13.37	13.41	13.41	15.0	0.0	
45	256QAM	1	1	13.31	13.23	13.31	15.0	0.0	
Channel				346000	345000	349000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	13.32	13.48	13.29	17.0	0.0	
Channel				345500	345000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	13.39	13.58	13.37	15.0	0.0	
Channel				345000	345000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	13.36	13.56	13.35	15.0	0.0	
Channel				344500	345000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	13.38	13.56	13.27	15.0	0.0	
Channel				344000	345000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	13.41	13.56	13.36	15.0	0.0	
Channel				343500	345000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	13.55	13.48	13.36	15.0	0.0	
Channel				343000	345000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	13.53	13.40	13.33	15.0	0.0	
Channel				342500	345000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	13.51	13.57	13.37	15.0	0.0	



n38 Main PA Ant1 DS10 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Max Ch. / Freq.	Power Top Ch. / Freq.	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	15.78	15.92	15.74			
40	P12 BPSK	1	53	15.73	15.87	15.57	15.5	0.0	
40	P12 BPSK	1	104	15.55	15.70	15.55			
40	P12 BPSK	50	0	15.96	15.94	15.65	15.5	0.0	
40	P12 BPSK	50	29	15.82	15.84	15.63	15.5	0.0	
40	P12 BPSK	50	56	15.68	15.79	15.62	15.5	0.0	
40	P12 BPSK	100	0	15.79	15.93	15.77			
40	QPSK	1	1	15.73	15.89	15.80			
40	QPSK	1	53	15.65	15.76	15.72	15.5	0.0	
40	QPSK	1	104	15.57	15.67	15.66			
40	QPSK	50	0	15.64	15.88	15.65	15.5	0.0	
40	QPSK	50	29	15.87	15.87	15.86	15.5	0.0	
40	QPSK	50	56	15.65	15.87	15.80	15.5	0.0	
40	QPSK	100	0	15.80	15.93	15.82			
40	16QAM	1	1	15.74	15.95	15.81	15.5	0.0	
40	64QAM	1	1	15.73	15.80	15.76	15.5	0.0	
40	256QAM	1	1	15.79	15.94	15.87	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.70	15.92	15.58	15.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.62	15.81	15.62	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.71	15.90	15.80	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.69	15.89	15.72	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.67	15.96	15.84	15.5	0.0	

n41 Main PA Ant1 DS10 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Max Ch. / Freq.	Power Top Ch. / Freq.	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	14.82	14.93	14.84			
100	P12 BPSK	1	137	14.69	14.91	14.79	15.0	0.0	
100	P12 BPSK	1	271	14.56	14.79	14.56			
100	P12 BPSK	135	0	14.85	14.93	14.70	15.0	0.0	
100	P12 BPSK	135	60	14.81	14.94	14.79	15.0	0.0	
100	P12 BPSK	135	138	14.91	15.00	14.88	15.0	0.0	
100	P12 BPSK	270	0	14.85	14.90	14.97			
100	QPSK	1	1	15.01	15.09	14.99			
100	QPSK	1	137	14.80	15.01	14.77	15.0	0.0	
100	QPSK	1	271	14.77	14.76	14.77			
100	QPSK	135	0	14.87	14.88	14.72	15.0	0.0	
100	QPSK	135	60	14.78	15.07	14.89	15.0	0.0	
100	QPSK	135	138	14.88	14.88	14.83	15.0	0.0	
100	QPSK	270	0	14.99	14.95	14.85			
100	16QAM	1	1	14.74	15.01	14.85	15.0	0.0	
100	64QAM	1	1	14.83	14.77	14.88	15.0	0.0	
100	256QAM	1	1	14.95	14.94	15.03	15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.83	15.04	14.80	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.90	14.93	14.91	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.79	15.02	14.76	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.00	14.96	14.85	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.96	14.95	14.81	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.89	15.02	14.87	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.95	15.04	14.84	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.87	14.96	14.70	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.84	14.85	14.91	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.80	15.04	14.79	15.0	0.0	

Part270 n78 Main PA Ant1 DS10 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Max Ch. / Freq.	Power Top Ch. / Freq.	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	14.56					
100	P12 BPSK	1	137	14.41			15.5	0.0	
100	P12 BPSK	1	271	14.29					
100	P12 BPSK	135	0	14.24			15.5	0.0	
100	P12 BPSK	135	60	14.52			15.5	0.0	
100	P12 BPSK	135	138	14.33			15.5	0.0	
100	P12 BPSK	270	0	14.45					
100	QPSK	1	1	14.57					
100	QPSK	1	137	14.49			15.5	0.0	
100	QPSK	1	271	14.48					
100	QPSK	135	0	14.48			15.5	0.0	
100	QPSK	135	60	14.52			15.5	0.0	
100	QPSK	135	138	14.45			15.5	0.0	
100	QPSK	270	0	14.42					
100	16QAM	1	1	14.52			15.5	0.0	
100	64QAM	1	1	14.38			15.5	0.0	
100	256QAM	1	1	14.37			15.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.35	14.48	14.41	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.43	14.54	14.38	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.48	14.51	14.44	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.50	14.49	14.41	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.38	14.50	14.42	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.30	14.45	14.32	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.49	14.53	14.35	15.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.57	14.55	14.44	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.74	14.66	14.45	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.50	14.47	14.38	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.45	14.50	14.43	15.5	0.0	



**Part270 n78 PC2 Main PA Ant1 DS10 ENDC**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Pmax	Power High Ch. / Pmax	Power High Ch. / Pmax	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.41	17.41	17.41	18.5	0.0
100	PI2 BPSK	1	137	17.31	17.31	17.31	18.5	0.0
100	PI2 BPSK	1	271	17.30	17.30	17.30	18.5	0.0
100	PI2 BPSK	135	0	17.42	17.42	17.42	18.5	0.0
100	PI2 BPSK	135	69	17.16	17.16	17.16	18.5	0.0
100	PI2 BPSK	135	138	17.20	17.20	17.20	18.5	0.0
100	PI2 BPSK	270	0	17.31	17.31	17.31	18.5	0.0
100	QPSK	1	1	17.43	17.43	17.43	18.5	0.0
100	QPSK	1	137	17.20	17.20	17.20	18.5	0.0
100	QPSK	1	271	17.18	17.18	17.18	18.5	0.0
100	QPSK	135	0	17.34	17.34	17.34	18.5	0.0
100	QPSK	135	69	17.52	17.52	17.52	18.5	0.0
100	QPSK	135	138	17.22	17.22	17.22	18.5	0.0
100	QPSK	270	0	17.26	17.26	17.26	18.5	0.0
100	16QAM	1	1	17.24	17.24	17.24	18.5	0.0
100	64QAM	1	1	16.83	16.83	16.83	18.5	0.0
100	256QAM	1	1	17.89	17.89	17.89	18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.26	17.26	17.26	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.25	17.25	17.25	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.26	17.26	17.26	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.27	17.27	17.27	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.32	17.32	17.32	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.30	17.30	17.30	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.37	17.37	17.37	18.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	17.20	17.20	17.20	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.26	17.26	17.26	18.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.20	17.20	17.20	18.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.19	17.19	17.19	18.5	0.0

**Part27Q n78 Main PA Ant1 DS10 ENDC**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Pmax	Power High Ch. / Pmax	Power High Ch. / Pmax	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.80	14.80	14.80	15.5	0.0
100	PI2 BPSK	1	137	14.61	14.61	14.61	15.5	0.0
100	PI2 BPSK	1	271	14.41	14.41	14.41	15.5	0.0
100	PI2 BPSK	135	0	14.31	14.31	14.31	15.5	0.0
100	PI2 BPSK	135	69	14.61	14.61	14.61	15.5	0.0
100	PI2 BPSK	135	138	14.50	14.50	14.50	15.5	0.0
100	PI2 BPSK	270	0	14.71	14.71	14.71	15.5	0.0
100	QPSK	1	1	14.86	14.86	14.86	15.5	0.0
100	QPSK	1	137	14.72	14.72	14.72	15.5	0.0
100	QPSK	1	271	14.76	14.76	14.76	15.5	0.0
100	QPSK	135	0	14.77	14.77	14.77	15.5	0.0
100	QPSK	135	69	14.92	14.92	14.92	15.5	0.0
100	QPSK	135	138	14.84	14.84	14.84	15.5	0.0
100	QPSK	270	0	14.54	14.54	14.54	15.5	0.0
100	16QAM	1	1	14.54	14.54	14.54	15.5	0.0
100	64QAM	1	1	14.27	14.27	14.27	15.5	0.0
100	256QAM	1	1	14.49	14.49	14.49	15.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.89	14.89	14.89	15.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.67	14.67	14.67	15.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.57	14.57	14.57	15.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.67	14.67	14.67	15.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.68	14.68	14.68	15.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.56	14.56	14.56	15.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.60	14.60	14.60	15.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	14.63	14.63	14.63	15.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.59	14.59	14.59	15.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.62	14.62	14.62	15.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.61	14.61	14.61	15.5	0.0

**Part27Q n78 PC2 Main PA Ant1 DS10 ENDC**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Pmax	Power High Ch. / Pmax	Power High Ch. / Pmax	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.54	17.54	17.54	18.5	0.0
100	PI2 BPSK	1	137	17.34	17.34	17.34	18.5	0.0
100	PI2 BPSK	1	271	17.29	17.29	17.29	18.5	0.0
100	PI2 BPSK	135	0	17.65	17.65	17.65	18.5	0.0
100	PI2 BPSK	135	69	17.44	17.44	17.44	18.5	0.0
100	PI2 BPSK	135	138	17.51	17.51	17.51	18.5	0.0
100	PI2 BPSK	270	0	17.61	17.61	17.61	18.5	0.0
100	QPSK	1	1	17.71	17.71	17.71	18.5	0.0
100	QPSK	1	137	17.47	17.47	17.47	18.5	0.0
100	QPSK	1	271	17.39	17.39	17.39	18.5	0.0
100	QPSK	135	0	17.49	17.49	17.49	18.5	0.0
100	QPSK	135	69	17.64	17.64	17.64	18.5	0.0
100	QPSK	135	138	17.58	17.58	17.58	18.5	0.0
100	QPSK	270	0	17.54	17.54	17.54	18.5	0.0
100	16QAM	1	1	17.40	17.40	17.40	18.5	0.0
100	64QAM	1	1	17.68	17.68	17.68	18.5	0.0
100	256QAM	1	1	17.62	17.62	17.62	18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.51	17.51	17.51	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.38	17.38	17.38	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.51	17.51	17.51	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.42	17.42	17.42	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.46	17.46	17.46	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.38	17.38	17.38	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.44	17.44	17.44	18.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	17.46	17.46	17.46	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.50	17.50	17.50	18.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.34	17.34	17.34	18.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.46	17.46	17.46	18.5	0.0





n7 Main PA Ant3 DS10 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch</sub> / P <sub>max</sub>	Power Media P <sub>ch</sub> / P <sub>max</sub>	Power High P <sub>ch</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	18.87	18.73	18.44			
50	PI2 BPSK	1	135	18.38	18.34	18.38	18.0	0.0	
50	PI2 BPSK	1	269	18.33	18.34	18.34			
50	PI2 BPSK	135	0	18.53	18.67	18.59	18.0	0.0	
50	PI2 BPSK	135	68	18.49	18.52	18.58	18.0	0.0	
50	PI2 BPSK	135	135	18.60	18.57	18.50	18.0	0.0	
50	PI2 BPSK	270	0	18.55	18.67	18.56	18.0	0.0	
50	QPSK	1	1	18.80	18.74	18.57			
50	QPSK	1	135	18.44	18.81	18.52	18.0	0.0	
50	QPSK	1	269	18.41	18.57	18.57			
50	QPSK	135	0	18.57	18.64	18.55	18.0	0.0	
50	QPSK	135	68	18.60	18.59	18.57	18.0	0.0	
50	QPSK	135	135	18.57	18.64	18.58	18.0	0.0	
50	QPSK	270	0	18.58	18.65	18.59	18.0	0.0	
50	64QAM	1	1	18.48	18.58	18.42	18.0	0.0	
50	64QAM	1	1	18.47	18.44	18.58	18.0	0.0	
50	256QAM	1	1	18.61	18.67	18.60	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.51	18.71	18.40	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.60	18.38	18.48	18.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.55	18.57	18.43	18.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	18.47	18.88	18.43	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.62	18.81	18.50	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.58	18.73	18.52	18.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.45	18.68	18.45	18.0	0.0	

n66 Main PA Ant3 DS10 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch</sub> / P <sub>max</sub>	Power Media P <sub>ch</sub> / P <sub>max</sub>	Power High P <sub>ch</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	18.28	18.27	18.14			
45	PI2 BPSK	1	100	18.15	18.19	18.20	18.0	0.0	
45	PI2 BPSK	1	243	18.14	18.17	18.16			
45	PI2 BPSK	120	0	18.19	18.23	18.01	18.0	0.0	
45	PI2 BPSK	120	60	18.08	18.13	18.13	18.0	0.0	
45	PI2 BPSK	120	120	18.05	18.11	18.21	18.0	0.0	
45	PI2 BPSK	240	0	18.19	18.20	18.07			
45	QPSK	1	1	18.38	18.34	18.34			
45	QPSK	1	100	18.01	18.17	18.13	18.0	0.0	
45	QPSK	1	243	18.15	18.11	18.27			
45	QPSK	120	0	18.11	18.22	18.15	18.0	0.0	
45	QPSK	120	60	18.18	18.24	18.24	18.0	0.0	
45	QPSK	120	120	18.19	18.18	18.19	18.0	0.0	
45	QPSK	240	0	18.22	18.25	18.20	18.0	0.0	
45	64QAM	1	1	18.08	18.31	18.03	18.0	0.0	
45	64QAM	1	1	18.02	18.06	18.02	18.0	0.0	
45	256QAM	1	1	18.18	18.23	18.14	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.54	18.93	18.97	20.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.01	18.03	18.04	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.06	18.15	18.02	18.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.17	18.05	18.03	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.10	18.04	18.15	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.09	18.04	18.14	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.06	18.04	18.05	18.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.08	18.09	18.18	18.0	0.0	



n38 Main PA Ant3 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch, Fmax</sub>	Power Med P <sub>ch, Fmax</sub>	Power High P <sub>ch, Fmax</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2550.02	2565	2559.98			
40	PIQ BPSK	1	1	17.03	17.19	18.97	18.5	0.0	
40	PIQ BPSK	1	51	16.93	17.00	18.83			
40	PIQ BPSK	1	104	16.93	16.98	18.82			
40	PIQ BPSK	50	0	17.14	17.28	17.20	18.5	0.0	
40	PIQ BPSK	50	26	17.03	17.03	17.18	18.5	0.0	
40	PIQ BPSK	50	56	17.06	17.18	17.02	18.5	0.0	
40	PIQ BPSK	100	0	17.21	17.23	17.13			
40	QPSK	1	1	16.99	17.26	17.21			
40	QPSK	1	53	17.05	17.23	17.05	18.5	0.0	
40	QPSK	1	104	17.01	17.26	17.18			
40	QPSK	50	0	16.97	17.19	17.20	18.5	0.0	
40	QPSK	50	26	17.22	17.25	17.19	18.5	0.0	
40	QPSK	50	56	17.01	17.00	17.07	18.5	0.0	
40	QPSK	100	0	17.16	17.20	17.10			
40	16QAM	1	1	17.08	17.18	17.05	18.5	0.0	
40	64QAM	1	1	16.97	17.16	17.16	18.5	0.0	
40	256QAM	1	1	17.06	17.18	17.11	18.5	0.0	
Channel				518004	519000	519996			
Frequency (MHz)				2585.01	2595	2584.99			
30	QPSK	1	1	16.82	17.24	16.99	18.5	0.0	
Channel				518004	519000	519996			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	16.88	17.24	16.97	18.5	0.0	
Channel				518000	519000	520000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.98	17.27	16.98	18.5	0.0	
Channel				518000	519000	520000			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	16.89	17.13	17.00	18.5	0.0	
Channel				518004	519000	520000			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	16.82	17.15	17.16	18.5	0.0	

n41 Main PA Ant3 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch, Fmax</sub>	Power Med P <sub>ch, Fmax</sub>	Power High P <sub>ch, Fmax</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel				502002	518996	530998			
Frequency (MHz)				2545.01	2592.99	2590			
100	PIQ BPSK	1	1	15.07	15.22	15.02			
100	PIQ BPSK	1	137	15.08	15.00	15.07	17.0	0.0	
100	PIQ BPSK	1	271	15.06	15.14	15.04			
100	PIQ BPSK	135	0	15.06	15.34	15.09	17.0	0.0	
100	PIQ BPSK	135	69	15.04	15.19	15.03	17.0	0.0	
100	PIQ BPSK	135	138	15.06	15.23	15.15	17.0	0.0	
100	PIQ BPSK	270	0	15.18	15.10	15.17			
100	QPSK	1	1	15.09	15.26	15.22			
100	QPSK	1	137	15.09	15.11	15.07	17.0	0.0	
100	QPSK	1	271	15.14	15.20	15.08			
100	QPSK	135	0	15.08	15.26	15.04	17.0	0.0	
100	QPSK	135	69	15.20	15.30	15.13	17.0	0.0	
100	QPSK	135	138	15.03	15.14	15.09	17.0	0.0	
100	QPSK	270	0	15.11	15.31	15.04			
100	16QAM	1	1	15.05	15.20	15.14	17.0	0.0	
100	64QAM	1	1	15.07	15.12	15.11	17.0	0.0	
100	256QAM	1	1	15.23	15.31	15.25	17.0	0.0	
Channel				502002	518996	530998			
Frequency (MHz)				2541	2592.99	2644.93			
90	QPSK	1	1	15.09	15.35	15.12	17.0	0.0	
Channel				502004	518996	530998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	15.06	15.24	15.05	17.0	0.0	
Channel				502002	518996	530998			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	14.87	15.31	15.12	17.0	0.0	
Channel				502000	518996	530998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	15.09	15.31	15.18	17.0	0.0	
Channel				502004	518996	530998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.06	15.30	15.19	17.0	0.0	
Channel				502002	518996	530998			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.14	15.27	15.01	17.0	0.0	
Channel				502000	518996	530998			
Frequency (MHz)				2511	2592.99	2675.99			
30	QPSK	1	1	15.11	15.10	15.09	17.0	0.0	
Channel				502004	518996	530998			
Frequency (MHz)				2506.02	2592.99	2680.99			
20	QPSK	1	1	15.13	15.31	15.11	17.0	0.0	
Channel				502000	518996	530998			
Frequency (MHz)				2501.01	2592.99	2685.99			
15	QPSK	1	1	15.04	15.31	15.02	17.0	0.0	
Channel				502002	518996	530998			
Frequency (MHz)				2496.01	2592.99	2690.99			
10	QPSK	1	1	15.16	15.27	15.12	17.0	0.0	

### n7 Main PA Ant4 DSI0 ENDC

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up Unit (dBm)	MPR (dB)
				Low Ch. F. Power	Mid Ch. F. Power	High Ch. F. Power		
Channel				20000	20700	20000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	16.43	16.66	16.47		0.0
50	PI/2 BPSK	1	135	16.44	16.58	16.27	17.5	0.0
50	PI/2 BPSK	1	268	16.43	16.49	16.33		0.0
50	PI/2 BPSK	135	0	16.57	16.56	16.49	17.5	0.0
50	PI/2 BPSK	135	68	16.56	16.59	16.43	17.5	0.0
50	PI/2 BPSK	135	135	16.64	16.54	16.50	17.5	0.0
50	PI/2 BPSK	270	0	16.65	16.61	16.63		0.0
50	QPSK	1	1	16.68	16.74	16.67		0.0
50	QPSK	1	135	16.51	16.69	16.46	17.5	0.0
50	QPSK	1	268	16.65	16.63	16.71		0.0
50	QPSK	135	0	16.39	16.53	16.59	17.5	0.0
50	QPSK	135	68	16.59	16.67	16.43	17.5	0.0
50	QPSK	135	135	16.39	16.47	16.32	17.5	0.0
50	QPSK	270	0	16.46	16.61	16.46		0.0
50	16QAM	1	1	16.60	16.65	16.67	17.5	0.0
50	16QAM	1	1	16.64	16.68	16.60	17.5	0.0
Channel				20400	20700	20000		
Frequency (MHz)				2020	2035	2050		
40	QPSK	1	1	16.59	16.67	16.55	17.5	0.0
Channel				20300	20700	20000		
Frequency (MHz)				2015	2035	2055		
30	QPSK	1	1	16.57	16.57	16.71	17.5	0.0
Channel				20400	20700	20000		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	16.49	16.63	16.67	17.5	0.0
Channel				20400	20700	20000		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	16.61	16.66	16.68	17.5	0.0
Channel				20400	20700	20000		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.40	16.59	16.66	17.5	0.0
Channel				20100	20700	20000		
Frequency (MHz)				2506	2535	2565		
10	QPSK	1	1	16.46	16.70	16.62	17.5	0.0
Channel				20400	20700	20000		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	16.46	16.65	16.66	17.5	0.0



n38 Main PA Ant4 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch</sub> / P <sub>max</sub>	Power Median P <sub>ch</sub> / P <sub>max</sub>	Power High P <sub>ch</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518096			
Frequency (MHz)				2550.02	2550	2559.98			
40	PIQ BPSK	1	1	17.23	17.30	17.33			
40	PIQ BPSK	1	51	17.14	17.15	17.18	17.7	0.0	
40	PIQ BPSK	1	104	17.15	17.28	17.18			
40	PIQ BPSK	50	0	17.28	17.29	17.16	17.7	0.0	
40	PIQ BPSK	50	26	16.98	17.28	17.10	17.7	0.0	
40	PIQ BPSK	50	56	17.14	17.24	17.12			
40	PIQ BPSK	100	0	17.21	17.36	17.26	17.7	0.0	
40	QPSK	1	1	17.25	17.25	17.29			
40	QPSK	1	53	17.27	17.28	17.28	17.7	0.0	
40	QPSK	1	104	17.13	17.33	17.14			
40	QPSK	50	0	17.24	17.38	17.20	17.7	0.0	
40	QPSK	50	28	17.33	17.30	17.23	17.7	0.0	
40	QPSK	50	56	17.21	17.29	17.11	17.7	0.0	
40	QPSK	100	0	17.24	17.38	17.12			
40	16QAM	1	1	17.20	17.02	17.20	17.7	0.0	
40	64QAM	1	1	17.03	17.37	17.14	17.7	0.0	
40	256QAM	1	1	17.37	17.21	17.18	17.7	0.0	
Channel				518100	518100	518096			
Frequency (MHz)				2555.01	2555	2554.99			
30	QPSK	1	1	17.39	17.22	17.04	17.7	0.0	
Channel				518104	518100	518100			
Frequency (MHz)				2561.52	2561	2607.48			
25	QPSK	1	1	17.25	17.18	17.19	17.7	0.0	
Channel				518100	518000	520000			
Frequency (MHz)				2560	2556	2610			
20	QPSK	1	1	17.31	17.29	17.24	17.7	0.0	
Channel				518000	518000	522000			
Frequency (MHz)				2577.51	2575	2612.49			
15	QPSK	1	1	17.42	17.13	17.21	17.7	0.0	
Channel				518004	518000	522000			
Frequency (MHz)				2575.02	2565	2614.98			
10	QPSK	1	1	17.34	17.20	17.12	17.7	0.0	

n41 Main PA Ant4 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch</sub> / P <sub>max</sub>	Power Median P <sub>ch</sub> / P <sub>max</sub>	Power High P <sub>ch</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518596	520000			
Frequency (MHz)				2545.01	2592.99	2590			
100	PIQ BPSK	1	1	16.29	16.25	16.24			
100	PIQ BPSK	1	137	16.14	16.12	16.17	16.7	0.0	
100	PIQ BPSK	1	271	16.15	16.16	16.05			
100	PIQ BPSK	135	0	16.27	16.31	16.16	16.7	0.0	
100	PIQ BPSK	135	69	16.03	16.31	16.12	16.7	0.0	
100	PIQ BPSK	135	138	16.12	16.08	16.01			
100	PIQ BPSK	270	0	16.16	16.20	16.21			
100	QPSK	1	1	16.27	16.24	16.20			
100	QPSK	1	137	16.23	16.24	16.12	16.7	0.0	
100	QPSK	1	271	16.08	16.20	16.02			
100	QPSK	135	0	16.19	16.26	16.13	16.7	0.0	
100	QPSK	135	69	16.21	16.30	16.07	16.7	0.0	
100	QPSK	135	138	16.15	16.34	16.16	16.7	0.0	
100	QPSK	270	0	16.20	16.27	16.21			
100	16QAM	1	1	16.28	16.12	16.14	16.7	0.0	
100	64QAM	1	1	16.09	16.31	16.13	16.7	0.0	
100	256QAM	1	1	16.23	16.27	16.22	16.7	0.0	
Channel				505000	518596	520000			
Frequency (MHz)				2541	2592.99	2544.93			
90	QPSK	1	1	16.30	16.13	16.08	16.7	0.0	
Channel				505004	518596	520000			
Frequency (MHz)				2536.02	2592.99	2549.99			
80	QPSK	1	1	16.11	16.16	16.16	16.7	0.0	
Channel				505000	518596	520000			
Frequency (MHz)				2531.01	2592.99	2555			
70	QPSK	1	1	16.13	16.24	16.09	16.7	0.0	
Channel				505000	518596	520000			
Frequency (MHz)				2526	2592.99	2559.98			
60	QPSK	1	1	16.12	16.04	16.01	16.7	0.0	
Channel				505004	518596	520000			
Frequency (MHz)				2521.02	2592.99	2564.99			
50	QPSK	1	1	16.19	16.06	16.16	16.7	0.0	
Channel				505000	518596	520000			
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	16.26	16.21	16.01	16.7	0.0	
Channel				502000	518596	534996			
Frequency (MHz)				2511	2592.99	2575.99			
30	QPSK	1	1	16.30	16.11	16.15	16.7	0.0	
Channel				501004	518596	535996			
Frequency (MHz)				2506.02	2592.99	2573.99			
20	QPSK	1	1	16.11	16.21	16.16	16.7	0.0	
Channel				500700	518596	536496			
Frequency (MHz)				2501.5	2592.99	2569.24			
15	QPSK	1	1	16.32	16.09	16.02	16.7	0.0	
Channel				500000	518596	537000			
Frequency (MHz)				2501.01	2592.99	2565			
10	QPSK	1	1	16.24	16.10	16.01	16.7	0.0	



Part270 n78 Main PA Ant5 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch</sub> / P <sub>max</sub>	Power Med P <sub>ch</sub> / P <sub>max</sub>	Power High P <sub>ch</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1	13.57					
100	PIQ BPSK	1	137	13.65					
100	PIQ BPSK	1	271	13.47			14.5	0.0	
100	PIQ BPSK	135	0	13.45			14.5	0.0	
100	PIQ BPSK	135	89	13.59			14.5	0.0	
100	PIQ BPSK	135	138	13.50			14.5	0.0	
100	PIQ BPSK	270	0	13.56			14.5	0.0	
100	QPSK	1	1	13.58					
100	QPSK	1	137	13.58			14.5	0.0	
100	QPSK	1	271	13.58					
100	QPSK	135	0	13.52			14.5	0.0	
100	QPSK	135	89	13.54			14.5	0.0	
100	QPSK	135	138	13.55			14.5	0.0	
100	QPSK	270	0	13.58			14.5	0.0	
100	16QAM	1	1	13.60			14.5	0.0	
100	64QAM	1	1	13.16			14.5	0.0	
100	256QAM	1	1	13.00			14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.46	13.51	13.37	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.59	13.55	13.40	14.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.46	13.52	13.35	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.55	13.53	13.20	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.58	13.49	13.31	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.48	13.60	13.37	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.53	13.53	13.31	14.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	13.48	13.53	13.41	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.53	13.46	13.24	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.54	13.60	13.25	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.54	13.42	13.32	14.5	0.0	

Part270 n78 PC2 Main PA Ant5 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch</sub> / P <sub>max</sub>	Power Med P <sub>ch</sub> / P <sub>max</sub>	Power High P <sub>ch</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1	16.43					
100	PIQ BPSK	1	137	16.50					
100	PIQ BPSK	1	271	16.54			17.5	0.0	
100	PIQ BPSK	135	0	16.53			17.5	0.0	
100	PIQ BPSK	135	89	16.68			17.5	0.0	
100	PIQ BPSK	135	138	16.42			17.5	0.0	
100	PIQ BPSK	270	0	16.52			17.5	0.0	
100	QPSK	1	1	16.70					
100	QPSK	1	137	16.43			17.5	0.0	
100	QPSK	1	271	16.45					
100	QPSK	135	0	16.51			17.5	0.0	
100	QPSK	135	89	16.52			17.5	0.0	
100	QPSK	135	138	16.52			17.5	0.0	
100	QPSK	270	0	16.54			17.5	0.0	
100	16QAM	1	1	16.50			17.5	0.0	
100	64QAM	1	1	16.27			17.5	0.0	
100	256QAM	1	1	16.71			17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.54	16.43	16.38	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.47	16.36	16.27	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.39	16.43	16.35	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.39	16.43	16.29	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.39	16.38	16.29	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.53	16.48	16.25	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.43	16.54	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.44	16.49	16.28	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.53	16.38	16.27	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.40	16.49	16.37	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.44	16.47	16.24	17.5	0.0	



Part27Q n78 Main PA Ant5 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. F.Frac.	Power M20 Ch. F.Frac.	Power High Ch. F.Frac.	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1		13.51				
100	PIQ BPSK	1	137		13.42		14.5	0.0	
100	PIQ BPSK	1	271		13.37				
100	PIQ BPSK	135	0		13.30		14.6	0.0	
100	PIQ BPSK	135	69		13.46		14.6	0.0	
100	PIQ BPSK	135	138		13.38		14.5	0.0	
100	PIQ BPSK	270	0		13.45				
100	QPSK	1	1		13.44				
100	QPSK	1	137		13.42		14.5	0.0	
100	QPSK	1	271		13.42				
100	QPSK	135	0		13.40		14.5	0.0	
100	QPSK	135	69		13.48		14.5	0.0	
100	QPSK	135	138		13.34		14.5	0.0	
100	QPSK	270	0		13.44				
100	16QAM	1	1		13.19		14.5	0.0	
100	64QAM	1	1		12.95		14.5	0.0	
100	256QAM	1	1		13.42		14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1		83200	83234	83268		
					3495	3500.01	3505.02		
					13.41	13.32	13.28	14.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1		83268	83334	83400		
					3490.02	3500.01	3510		
					13.40	13.31	13.32	14.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1		83400	83334	83268		
					3485.01	3500.01	3515.01		
					13.48	13.35	13.32	14.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1		83496	83334	83174		
					3490	3500.01	3520.02		
					13.42	13.33	13.22	14.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1		83592	83334	83072		
					3475.02	3500.01	3525		
					13.50	13.23	13.32	14.6	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1		83688	83334	83016		
					13.54	13.35	13.22	14.6	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1		83784	83334	82960		
					13.49	13.26	13.35	14.6	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1		83880	83334	82904		
					13.54	13.29	13.19	14.6	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1		83976	83334	82848		
					13.55	13.30	13.37	14.6	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1		84072	83334	82792		
					13.47	13.23	13.18	14.6	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1		84168	83334	82736		
					13.43	13.32	13.27	14.6	0.0

Part27Q n78 PC2 Main PA Ant5 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. F.Frac.	Power M20 Ch. F.Frac.	Power High Ch. F.Frac.	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1		16.27				
100	PIQ BPSK	1	137		16.47				
100	PIQ BPSK	1	271		16.32			17.5	0.0
100	PIQ BPSK	135	0		16.36			17.5	0.0
100	PIQ BPSK	135	69		16.61			17.5	0.0
100	PIQ BPSK	135	138		16.32			17.5	0.0
100	PIQ BPSK	270	0		16.33				
100	QPSK	1	1		16.75				
100	QPSK	1	137		16.46			17.5	0.0
100	QPSK	1	271		16.40				
100	QPSK	135	0		16.48			17.5	0.0
100	QPSK	135	69		16.58			17.5	0.0
100	QPSK	135	138		16.41			17.5	0.0
100	QPSK	270	0		16.36				
100	16QAM	1	1		16.23			17.5	0.0
100	64QAM	1	1		16.07			17.5	0.0
100	256QAM	1	1		16.68			17.5	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1		63200	63234	63268		
					3495	3500.01	3505.02		
					16.42	16.28	16.22	17.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1		63268	63334	63400		
					3490.02	3500.01	3510		
					16.48	16.14	16.27	17.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1		63334	63334	63400		
					3485.01	3500.01	3515.01		
					16.34	16.27	16.21	17.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1		63400	63334	63468		
					3490	3500.01	3520.02		
					16.45	16.23	16.23	17.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1		63496	63334	63500		
					3475.02	3500.01	3525		
					16.47	16.13	16.22	17.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1		63592	63334	63568		
					16.38	16.29	16.16	17.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1		63688	63334	63592		
					16.30	16.15	16.19	17.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1		63784	63334	63536		
					16.51	16.23	16.24	17.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1		63880	63334	63480		
					16.48	16.15	16.19	17.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1		63976	63334	63424		
					16.44	16.31	16.26	17.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1		64072	63334	63368		
					16.47	16.16	16.25	17.5	0.0



Part270 n78 Main PA Ant6 DS10 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch</sub> / P <sub>max</sub>	Power Med. P <sub>ch</sub> / P <sub>max</sub>	Power High P <sub>ch</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1	12.43					
100	PIQ BPSK	1	137	12.41					
100	PIQ BPSK	1	271	12.19			13.5	0.0	
100	PIQ BPSK	135	0	12.26			13.5	0.0	
100	PIQ BPSK	135	69	12.36			13.5	0.0	
100	PIQ BPSK	135	138	12.37			13.5	0.0	
100	PIQ BPSK	270	0	12.26			13.5	0.0	
100	QPSK	1	1	12.29					
100	QPSK	1	137	12.42			13.5	0.0	
100	QPSK	1	271	12.47					
100	QPSK	135	0	12.49			13.5	0.0	
100	QPSK	135	69	12.50			13.5	0.0	
100	QPSK	135	138	12.23			13.5	0.0	
100	QPSK	270	0	12.47			13.5	0.0	
100	16QAM	1	1	12.54			13.5	0.0	
100	64QAM	1	1	12.29			13.5	0.0	
100	256QAM	1	1	12.46			13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.44	12.33	12.27	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.29	12.44	12.19	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.42	12.36	12.27	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.33	12.44	12.18	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.31	12.48	12.23	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.37	12.43	12.21	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.48	12.38	12.11	13.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	12.30	12.46	12.24	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.47	12.43	12.29	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.51	12.46	12.16	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.34	12.53	12.19	13.5	0.0	

Part270 n78 PC2 Main PA Ant6 DS10 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch</sub> / P <sub>max</sub>	Power Med. P <sub>ch</sub> / P <sub>max</sub>	Power High P <sub>ch</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1	15.33					
100	PIQ BPSK	1	137	15.24			16.5	0.0	
100	PIQ BPSK	1	271	15.13					
100	PIQ BPSK	135	0	15.11			16.5	0.0	
100	PIQ BPSK	135	69	15.26			16.5	0.0	
100	PIQ BPSK	135	138	15.44			16.5	0.0	
100	PIQ BPSK	270	0	15.19			16.5	0.0	
100	QPSK	1	1	15.26					
100	QPSK	1	137	15.27			16.5	0.0	
100	QPSK	1	271	15.40					
100	QPSK	135	0	15.36			16.5	0.0	
100	QPSK	135	69	15.51			16.5	0.0	
100	QPSK	135	138	15.23			16.5	0.0	
100	QPSK	270	0	15.41			16.5	0.0	
100	16QAM	1	1	15.11			16.5	0.0	
100	64QAM	1	1	14.80			16.5	0.0	
100	256QAM	1	1	15.15			16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.33	15.43	15.10	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.26	15.41	15.28	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.40	15.44	15.18	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.37	15.41	15.10	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.22	15.38	15.29	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.28	15.20	15.09	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.39	15.30	15.27	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.33	15.29	15.24	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.42	15.39	15.18	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.27	15.44	15.16	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.32	15.32	15.26	16.5	0.0	



Part27Q n78 Main PA Ant6 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. F.Freq.	Power Mod. Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		12.41				
100	PI2 BPSK	1	137		12.20			13.5	0.0
100	PI2 BPSK	1	271		12.33				
100	PI2 BPSK	135	0		12.39		13.6	0.0	
100	PI2 BPSK	135	69		12.21		13.5	0.0	
100	PI2 BPSK	135	138		12.37		13.5	0.0	
100	PI2 BPSK	270	0		12.23				
100	QPSK	1	1		12.40			13.5	0.0
100	QPSK	1	137		12.40				
100	QPSK	1	271		12.58				
100	QPSK	135	0		12.47		13.5	0.0	
100	QPSK	135	69		12.36		13.5	0.0	
100	QPSK	135	138		12.33		13.5	0.0	
100	QPSK	270	0		12.51		13.5	0.0	
100	16QAM	1	1		12.31		13.5	0.0	
100	64QAM	1	1		11.97		13.5	0.0	
100	256QAM	1	1		12.39		13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83300	83334	83368	Tune-up limit (dB)	MPR (dB)	
				3495	3500.01	3505.02			
Channel									
Frequency (MHz)									
80	QPSK	1	1	83368	83334	83300	Tune-up limit (dB)	MPR (dB)	
				3490.02	3500.01	3510			
Channel									
Frequency (MHz)									
70	QPSK	1	1	83334	83334	83334	Tune-up limit (dB)	MPR (dB)	
				3485.01	3500.01	3515.01			
Channel									
Frequency (MHz)									
60	QPSK	1	1	83300	83334	83368	Tune-up limit (dB)	MPR (dB)	
				3490	3500.01	3520.02			
Channel									
Frequency (MHz)									
50	QPSK	1	1	83368	83334	83300	Tune-up limit (dB)	MPR (dB)	
				3475.02	3500.01	3505			
Channel									
Frequency (MHz)									
40	QPSK	1	1	83334	83334	83334	Tune-up limit (dB)	MPR (dB)	
				12.20	12.34	12.38			
Channel									
Frequency (MHz)									
30	QPSK	1	1	83300	83334	83368	Tune-up limit (dB)	MPR (dB)	
				12.32	12.29	12.27			
Channel									
Frequency (MHz)									
25	QPSK	1	1	83368	83334	83300	Tune-up limit (dB)	MPR (dB)	
				12.28	12.43	12.28			
Channel									
Frequency (MHz)									
20	QPSK	1	1	83334	83334	83334	Tune-up limit (dB)	MPR (dB)	
				12.20	12.30	12.29			
Channel									
Frequency (MHz)									
15	QPSK	1	1	83300	83334	83368	Tune-up limit (dB)	MPR (dB)	
				12.28	12.44	12.29			
Channel									
Frequency (MHz)									
10	QPSK	1	1	83334	83334	83334	Tune-up limit (dB)	MPR (dB)	
				12.20	12.38	12.32			

Part27Q n78 PC2 Main PA Ant6 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. F.Freq.	Power Mod. Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		15.42				
100	PI2 BPSK	1	137		15.54			16.5	0.0
100	PI2 BPSK	1	271		15.44				
100	PI2 BPSK	135	0		15.23		16.9	0.0	
100	PI2 BPSK	135	69		15.62		16.5	0.0	
100	PI2 BPSK	135	138		15.55		16.5	0.0	
100	PI2 BPSK	270	0		15.42				
100	QPSK	1	1		15.76			16.5	0.0
100	QPSK	1	137		15.56				
100	QPSK	1	271		15.60				
100	QPSK	135	0		15.53		16.5	0.0	
100	QPSK	135	69		15.70		16.5	0.0	
100	QPSK	135	138		15.53		16.5	0.0	
100	QPSK	270	0		15.56		16.5	0.0	
100	16QAM	1	1		15.33		16.5	0.0	
100	64QAM	1	1		15.05		16.5	0.0	
100	256QAM	1	1		15.42		16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83300	83334	83368	Tune-up limit (dB)	MPR (dB)	
				3495	3500.01	3505.02			
Channel									
Frequency (MHz)									
80	QPSK	1	1	83368	83334	83300	Tune-up limit (dB)	MPR (dB)	
				3490.02	3500.01	3510			
Channel									
Frequency (MHz)									
70	QPSK	1	1	83334	83334	83334	Tune-up limit (dB)	MPR (dB)	
				3485.01	3500.01	3515.01			
Channel									
Frequency (MHz)									
60	QPSK	1	1	83300	83334	83368	Tune-up limit (dB)	MPR (dB)	
				3490	3500.01	3520.02			
Channel									
Frequency (MHz)									
50	QPSK	1	1	83368	83334	83300	Tune-up limit (dB)	MPR (dB)	
				3475.02	3500.01	3505			
Channel									
Frequency (MHz)									
40	QPSK	1	1	83334	83334	83334	Tune-up limit (dB)	MPR (dB)	
				15.15	15.29	15.51			
Channel									
Frequency (MHz)									
30	QPSK	1	1	83300	83334	83368	Tune-up limit (dB)	MPR (dB)	
				15.13	15.63	15.53			
Channel									
Frequency (MHz)									
25	QPSK	1	1	83368	83334	83300	Tune-up limit (dB)	MPR (dB)	
				15.16	15.72	15.62			
Channel									
Frequency (MHz)									
20	QPSK	1	1	83334	83334	83334	Tune-up limit (dB)	MPR (dB)	
				15.24	15.65	15.49			
Channel									
Frequency (MHz)									
15	QPSK	1	1	83300	83334	83368	Tune-up limit (dB)	MPR (dB)	
				15.12	15.72	15.49			
Channel									
Frequency (MHz)									
10	QPSK	1	1	83334	83334	83334	Tune-up limit (dB)	MPR (dB)	
				15.17	15.70	15.60			





Part270 n78 Main PA Ant7 DSIO									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Med. Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.92					
100	PI2 BPSK	1	137	20.02			21.0	0.0	
100	PI2 BPSK	1	271	19.75					
100	PI2 BPSK	135	0	19.85			21.0	0.0	
100	PI2 BPSK	135	99	19.77			21.0	0.0	
100	PI2 BPSK	135	198	19.88			21.0	0.0	
100	PI2 BPSK	270	0	19.74			21.0	0.0	
100	QPSK	1	1	20.00					
100	QPSK	1	137	19.81			21.0	0.0	
100	QPSK	1	271	19.97					
100	QPSK	135	0	19.88			21.0	0.0	
100	QPSK	135	99	19.96			21.0	0.0	
100	QPSK	135	198	19.71			21.0	0.0	
100	QPSK	270	0	19.88			21.0	0.0	
100	16QAM	1	1	19.78			21.0	0.0	
100	16QAM	1	1	19.53			21.0	0.0	
100	256QAM	1	1	19.91			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.84	20.01	19.78	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.83	19.95	19.86	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.86	19.87	19.73	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.86	19.88	19.84	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.84	19.97	19.74	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.96	19.87	19.86	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.96	20.02	19.79	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.86	20.03	19.93	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.92	19.88	19.89	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.85	20.03	19.90	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.94	19.93	19.80	21.0	0.0	

Part270 n78 PC2 Main PA Ant7 DSIO									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Med. Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.92					
100	PI2 BPSK	1	137	22.96			24.0	0.0	
100	PI2 BPSK	1	271	22.75					
100	PI2 BPSK	135	0	22.80			24.0	0.0	
100	PI2 BPSK	135	99	22.84			24.0	0.0	
100	PI2 BPSK	135	198	22.81			24.0	0.0	
100	PI2 BPSK	270	0	22.81			24.0	0.0	
100	QPSK	1	1	23.01					
100	QPSK	1	137	22.86			24.0	0.0	
100	QPSK	1	271	22.92					
100	QPSK	135	0	22.85			24.0	0.0	
100	QPSK	135	99	22.95			24.0	0.0	
100	QPSK	135	198	22.69			24.0	0.0	
100	QPSK	270	0	22.92			24.0	0.0	
100	16QAM	1	1	22.71			24.0	0.0	
100	256QAM	1	1	22.84			23.5	0.5	
100	256QAM	1	1	20.51			21.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.86	22.81	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.88	22.88	22.71	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.92	22.96	22.79	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.91	22.84	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.93	22.88	22.73	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.88	22.83	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.99	22.95	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.99	22.98	22.75	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.85	22.85	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.94	22.90	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.86	22.84	22.79	24.0	0.0	



Part27Q n78 Main PA Ant7 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.05					
100	PI2 BPSK	1	137	20.06			21.0	0.0	
100	PI2 BPSK	1	271	19.98					
100	PI2 BPSK	135	0	20.00			21.0	0.0	
100	PI2 BPSK	135	69	20.21			21.0	0.0	
100	PI2 BPSK	135	138	19.97			21.0	0.0	
100	PI2 BPSK	270	0	20.06					
100	QPSK	1	1	20.26			21.0	0.0	
100	QPSK	1	137	20.10					
100	QPSK	1	271	20.25					
100	QPSK	135	0	20.02			21.0	0.0	
100	QPSK	135	69	20.13			21.0	0.0	
100	QPSK	135	138	20.06			21.0	0.0	
100	QPSK	270	0	20.38			21.0	0.0	
100	16QAM	1	1	19.92			21.0	0.0	
100	64QAM	1	1	19.84			21.0	0.0	
100	256QAM	1	1	20.11			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.04	20.15	20.12	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.18	20.09	20.16	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.11	20.09	20.11	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.18	20.15	20.05	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.04	20.06	20.18	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.08	20.14	20.04	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.18	20.23	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.04	20.13	20.18	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.00	20.16	20.04	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.03	20.19	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.05	20.07	20.07	21.0	0.0	

Part27Q n78 PC2 Main PA Ant7 DSI0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.71					
100	PI2 BPSK	1	137	22.69			24.0	0.0	
100	PI2 BPSK	1	271	22.81					
100	PI2 BPSK	135	0	22.70			23.5	0.5	
100	PI2 BPSK	135	69	22.89			24.0	0.0	
100	PI2 BPSK	135	138	22.87			23.5	0.5	
100	PI2 BPSK	270	0	22.65					
100	QPSK	1	1	22.86			24.0	0.0	
100	QPSK	1	137	22.88					
100	QPSK	1	271	22.78					
100	QPSK	135	0	22.81			24.0	0.0	
100	QPSK	135	69	22.74			24.0	0.0	
100	QPSK	135	138	22.81			24.0	0.0	
100	QPSK	270	0	22.71			24.0	0.0	
100	16QAM	1	1	22.45			23.5	0.5	
100	64QAM	1	1	22.44			23.5	0.5	
100	256QAM	1	1	20.44			21.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.89	22.81	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.58	22.78	22.66	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.73	22.74	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.59	22.71	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.73	22.78	22.66	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.87	22.75	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.69	22.76	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.76	22.78	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.63	22.70	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.72	22.77	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.76	22.77	22.77	24.0	0.0	



## DSI 1 Power for FR1 Main PA

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	PI/2 BPSK	1	1	24.48	24.57	24.51		
20	PI/2 BPSK	1	53	24.41	24.51	24.38	25.5	0.0
20	PI/2 BPSK	1	104	24.33	24.46	24.39		
20	PI/2 BPSK	50	0	24.16	24.21	24.15	25.0	0.5
20	PI/2 BPSK	50	28	24.54	24.59	24.51	25.5	0.0
20	PI/2 BPSK	50	56	24.12	24.21	24.17		
20	PI/2 BPSK	100	0	24.13	24.18	24.10	25.0	0.5
20	QPSK	1	1	24.52	24.63	24.48		
20	QPSK	1	53	24.43	24.53	24.41	25.5	0.0
20	QPSK	1	104	24.37	24.46	24.33		
20	QPSK	50	0	23.65	23.71	23.61	24.5	1.0
20	QPSK	50	28	24.56	24.61	24.54	25.5	0.0
20	QPSK	50	56	23.49	23.62	23.53		
20	QPSK	100	0	23.60	23.66	23.52	24.5	1.0
20	16QAM	1	1	23.28	23.34	23.31	24.5	1.0
20	64QAM	1	1	21.84	21.93	21.83	23.0	2.5
20	256QAM	1	1	20.66	20.69	20.61	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.48	24.53	24.44	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.55	24.59	24.40	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.50	24.57	24.49	25.5	0.0



n5 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.59	23.68	23.55			
20	PI2 BPSK	1	53	23.61	23.66	23.55	25.5	0.0	
20	PI2 BPSK	1	104	23.56	23.61	23.57			
20	PI2 BPSK	50	0	23.23	23.31	23.22	25.0	0.5	
20	PI2 BPSK	50	28	23.58	23.65	23.58	25.5	0.0	
20	PI2 BPSK	50	56	23.20	23.27	23.14	25.0	0.5	
20	PI2 BPSK	100	0	23.20	23.33	23.25			
20	QPSK	1	1	23.68	23.73	23.64			
20	QPSK	1	53	23.53	23.65	23.55	25.5	0.0	
20	QPSK	1	104	23.60	23.66	23.54			
20	QPSK	50	0	22.68	22.83	22.75	24.5	1.0	
20	QPSK	50	28	23.56	23.66	23.60	25.5	0.0	
20	QPSK	50	56	22.84	22.77	22.70	24.5	1.0	
20	QPSK	100	0	22.76	22.81	22.70			
20	6QAM	1	1	22.57	22.64	22.52	24.5	1.0	
20	6QAM	1	1	21.15	21.28	21.22	23.0	2.5	
20	25QAM	1	1	19.58	19.72	19.62	21.0	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	166300	167300	168300	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	831.5	836.5	841.5	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	828.5	836.5	846.5	time-up limit (dB)	MPR (dB)	

n7 Main PA Ant1 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	19.69	19.84	19.49			
50	PI2 BPSK	1	135	19.65	19.58	19.69	20.5	0.0	
50	PI2 BPSK	1	268	19.54	19.61	19.57			
50	PI2 BPSK	135	0	19.75	19.76	19.85	20.5	0.0	
50	PI2 BPSK	135	68	19.63	19.58	19.48	20.5	0.0	
50	PI2 BPSK	135	135	19.62	19.79	19.76	20.5	0.0	
50	PI2 BPSK	270	0	19.79	19.76	19.77			
50	QPSK	1	1	19.76	19.89	19.72			
50	QPSK	1	135	19.42	19.58	19.46	20.5	0.0	
50	QPSK	1	268	19.26	19.50	19.54			
50	QPSK	135	0	19.67	19.65	19.74	20.5	0.0	
50	QPSK	135	68	19.69	19.75	19.71	20.5	0.0	
50	QPSK	135	135	19.64	19.70	19.70	20.5	0.0	
50	QPSK	270	0	19.77	19.84	19.72			
50	6QAM	1	1	19.37	19.56	19.51	20.5	0.0	
50	6QAM	1	1	19.34	19.59	19.44	20.5	0.0	
50	25QAM	1	1	19.23	19.24	19.16	19.5	1.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	504000	507000	510000	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2520	2535	2550	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.68	19.60	19.60	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.68	19.56	19.63	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	502000	507000	512000	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.58	19.67	19.58	20.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.66	19.66	19.53	20.5	0.0	

n66 Main PA Ant1 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	20.83	20.74	20.66			
45	PI2 BPSK	1	120	20.81	20.72	20.68	22.5	0.0	
45	PI2 BPSK	1	243	20.53	20.71	20.61			
45	PI2 BPSK	120	0	20.60	20.65	20.81	22.5	0.0	
45	PI2 BPSK	120	60	20.52	20.66	20.66	22.5	0.0	
45	PI2 BPSK	120	120	20.76	20.81	20.73	22.5	0.0	
45	PI2 BPSK	240	0	20.68	20.72	20.77			
45	QPSK	1	1	20.83	20.87	20.82			
45	QPSK	1	120	20.58	20.76	20.53	22.5	0.0	
45	QPSK	1	243	20.52	20.68	20.55			
45	QPSK	120	0	20.69	20.75	20.72	22.5	0.0	
45	QPSK	120	60	20.76	20.82	20.72	22.5	0.0	
45	QPSK	120	120	20.57	20.70	20.58	22.5	0.0	
45	QPSK	240	0	20.79	20.80	20.74			
45	6QAM	1	1	20.52	20.66	20.63	22.5	0.0	
45	6QAM	1	1	19.73	19.81	19.81	21.5	1.0	
45	25QAM	1	1	18.20	18.27	18.20	19.5	3.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	349000	349000	350000	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
35	QPSK	1	1	1745	1745	1760	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.72	20.68	20.64	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.69	20.75	20.71	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	345000	349000	353000	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.74	20.74	20.65	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	349000	349000	354000	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1720	1745	1770	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	345000	349000	353000	time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1715	1745	1775	time-up limit (dB)	MPR (dB)	



n38 Main PA Ant1 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	19.24	19.47	19.29			
40	PI2 BPSK	1	53	19.24	19.30	19.31	20.5	0.0	
40	PI2 BPSK	1	104	18.97	19.20	19.12			
40	PI2 BPSK	50	0	19.32	19.42	19.35	20.5	0.0	
40	PI2 BPSK	50	28	19.28	19.44	19.33	20.5	0.0	
40	PI2 BPSK	50	56	19.31	19.46	19.21	20.5	0.0	
40	PI2 BPSK	100	0	19.39	19.26	19.26			
40	QPSK	1	1	19.24	19.59	19.28			
40	QPSK	1	53	19.26	19.43	19.34	20.5	0.0	
40	QPSK	1	104	18.12	18.19	18.18			
40	QPSK	50	0	19.38	19.44	19.37	20.5	0.0	
40	QPSK	50	28	19.15	19.47	19.30	20.5	0.0	
40	QPSK	50	56	19.33	19.35	19.27	20.5	0.0	
40	QPSK	100	0	19.35	19.40	19.34			
40	16QAM	1	1	19.32	19.36	19.40	20.5	0.0	
40	16QAM	1	1	19.16	19.43	19.15	20.5	0.0	
40	256QAM	1	1	19.34	19.41	19.43	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	517002	519000	520998	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2583.01	2595	2604.99	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	2582.52	2595	2607.48	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.03	19.32	18.95	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	515502	519000	522498	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2377.51	2595	2614.49	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.00	19.28	19.06	20.5	0.0	

n41 Main PA Ant1 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.70	18.59	18.50			
100	PI2 BPSK	1	137	18.65	18.79	18.91	20.0	0.0	
100	PI2 BPSK	1	271	18.52	18.68	18.72			
100	PI2 BPSK	135	0	18.77	18.94	18.81	20.0	0.0	
100	PI2 BPSK	135	69	18.89	18.92	18.91	20.0	0.0	
100	PI2 BPSK	135	138	18.84	18.85	18.99	20.0	0.0	
100	PI2 BPSK	270	0	18.97	18.68	18.82			
100	QPSK	1	1	18.84	18.99	18.77			
100	QPSK	1	137	18.72	18.88	18.78	20.0	0.0	
100	QPSK	1	271	18.51	18.66	18.62			
100	QPSK	135	0	18.83	18.90	18.94	20.0	0.0	
100	QPSK	135	69	18.60	18.95	18.88	20.0	0.0	
100	QPSK	135	138	18.74	18.71	18.81	20.0	0.0	
100	QPSK	270	0	18.62	18.75	18.74			
100	16QAM	1	1	18.70	18.77	18.58	20.0	0.0	
100	16QAM	1	1	18.53	18.61	18.60	20.0	0.0	
100	256QAM	1	1	18.71	18.74	18.79	20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	508200	518598	528996	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	2581	2592.99	2604.99	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2579.04	2592.99	2609.99	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.70	18.97	18.71	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.82	18.81	18.83	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	505200	518598	531996	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2578.02	2592.99	2609.99	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2576.02	2592.99	2609.99	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.74	18.95	18.76	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	502200	518598	537000	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2581.01	2592.99	2609.99	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.85	18.81	18.84	20.0	0.0	

Part270 n77 Main PA Ant1 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3705	3840	3900			
100	PI2 BPSK	1	137	18.37	18.49	18.57			
100	PI2 BPSK	1	137	18.27	18.50	18.27	20.0	0.0	
100	PI2 BPSK	1	271	18.28	18.32	18.25			
100	PI2 BPSK	135	0	18.32	18.45	18.16	20.0	0.0	
100	PI2 BPSK	135	69	18.55	18.45	18.53	20.0	0.0	
100	PI2 BPSK	135	138	18.30	18.24	18.20	20.0	0.0	
100	PI2 BPSK	270	0	18.29	18.29	18.23			
100	QPSK	1	1	18.49	18.69	18.51			
100	QPSK	1	137	18.35	18.81	18.31	20.0	0.0	
100	QPSK	1	271	18.56	18.52	18.57			
100	QPSK	135	0	18.37	18.44	18.24	20.0	0.0	
100	QPSK	135	69	18.35	18.59	18.54	20.0	0.0	
100	QPSK	135	138	18.26	18.26	18.44	20.0	0.0	
100	QPSK	270	0	18.43	18.50	18.27			
100	16QAM	1	1	18.26	18.23	18.15	20.0	0.0	
100	16QAM	1	1	18.17	18.39	18.25	20.0	0.0	
100	256QAM	1	1	18.24	18.55	18.20	20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	662334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3743.02	3840	3923.02	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	663668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3840	3940.01	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.30	18.51	18.36	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	649668	650000	663334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3742.02	3840	3923.02	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	649334	650000	663668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3735.01	3840	3955.02	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.15	18.47	18.30	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	649668	650000	664000	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3740.02	3840	3923.02	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647000	650000	665000	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3712.5	3840	3917.5	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.29	18.51	18.29	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	664834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3712.52	3840	3923.02	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	665000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3705	3840	3975	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.34	18.55	18.25	20.0	0.0	



Part270 n77 PC2 Main PA Ant1 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	2115	2127	2130			
100	PI2 BPSK	1	137	2112	2133	2126	23.0	0.0	
100	PI2 BPSK	1	271	2128	2129	2104			
100	PI2 BPSK	135	0	2120	2141	2105	23.0	0.0	
100	PI2 BPSK	135	69	2143	2126	2148	23.0	0.0	
100	PI2 BPSK	135	138	2127	2105	2102			
100	PI2 BPSK	270	0	2123	2130	2121	23.0	0.0	
100	QPSK	1	1	2132	2169	2141			
100	QPSK	1	137	2120	2152	2109	23.0	0.0	
100	QPSK	1	271	2153	2149	2156			
100	QPSK	135	0	2135	2144	2112	23.0	0.0	
100	QPSK	135	69	2131	2149	2141	23.0	0.0	
100	QPSK	135	138	2122	2107	2135	23.0	0.0	
100	QPSK	270	0	2128	2140	2111	23.0	0.0	
100	8QAM	1	1	2116	2108	2115	23.0	0.0	
100	8QAM	1	1	2054	2052	2096	22.5	0.5	
100	25QAM	1	1	1866	1883	1864	20.5	2.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64968	65000	65234	time-up limit (dB)	MPR (dB)	
80	QPSK	1	1	3742.02	3840	3820.01	23.0	0.0	
80	QPSK	1	1	2122	2157	2138	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	time-up limit (dB)	MPR (dB)	
80	QPSK	1	1	3749.01	3840	3840.02	23.0	0.0	
80	QPSK	1	1	2132	2162	2124	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65000	time-up limit (dB)	MPR (dB)	
70	QPSK	1	1	3795	3840	3845	23.0	0.0	
70	QPSK	1	1	2124	2166	2121	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64668	65000	65334	time-up limit (dB)	MPR (dB)	
60	QPSK	1	1	3742.02	3840	3820.01	23.0	0.0	
60	QPSK	1	1	2119	2153	2142	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65068	time-up limit (dB)	MPR (dB)	
50	QPSK	1	1	3725.01	3840	3825.02	23.0	0.0	
50	QPSK	1	1	2119	2168	2127	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65000	time-up limit (dB)	MPR (dB)	
40	QPSK	1	1	3790	3840	3890	23.0	0.0	
40	QPSK	1	1	2119	2167	2143	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65434	time-up limit (dB)	MPR (dB)	
30	QPSK	1	1	3742.02	3840	3820.01	23.0	0.0	
30	QPSK	1	1	2119	2154	2119	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	64700	65000	65400	time-up limit (dB)	MPR (dB)	
25	QPSK	1	1	3712.5	3840	3897.5	23.0	0.0	
25	QPSK	1	1	2129	2168	2129	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65068	time-up limit (dB)	MPR (dB)	
20	QPSK	1	1	3710.01	3840	3870.02	23.0	0.0	
20	QPSK	1	1	2128	2162	2127	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64718	65000	65484	time-up limit (dB)	MPR (dB)	
15	QPSK	1	1	3712.52	3840	3872.51	23.0	0.0	
15	QPSK	1	1	2119	2168	2133	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65000	time-up limit (dB)	MPR (dB)	
10	QPSK	1	1	3705	3840	3875	23.0	0.0	
10	QPSK	1	1	2112	2168	2134	23.0	0.0	

Part27Q n77 Main PA Ant1 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	1856					
100	PI2 BPSK	1	137	1857	1868		20.0	0.0	
100	PI2 BPSK	1	271	1850					
100	PI2 BPSK	135	0	1859	1859	1850	20.0	0.0	
100	PI2 BPSK	135	69	1855	1855	1855	20.0	0.0	
100	PI2 BPSK	135	138	1845					
100	PI2 BPSK	270	0	1852			20.0	0.0	
100	QPSK	1	1	1876					
100	QPSK	1	137	1869			20.0	0.0	
100	QPSK	1	271	1857					
100	QPSK	135	0	1866			20.0	0.0	
100	QPSK	135	69	1872			20.0	0.0	
100	QPSK	135	138	1829			20.0	0.0	
100	QPSK	270	0	1865			20.0	0.0	
100	8QAM	1	1	1836			20.0	0.0	
100	8QAM	1	1	1855			20.0	0.0	
100	25QAM	1	1	1857			20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63334	63668	time-up limit (dB)	MPR (dB)	
90	QPSK	1	1	3456	3500.01	3525.02	23.0	0.0	
90	QPSK	1	1	1847	1845	1843	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63268	63334	63400	time-up limit (dB)	MPR (dB)	
80	QPSK	1	1	3490.02	3500.01	3510	23.0	0.0	
80	QPSK	1	1	1840	1853	1846	20.0	0.0	
80	QPSK	1	1	1845	1845	1845	23.0	0.0	
80	QPSK	1	1	3455.01	3500.01	3515.01	time-up limit (dB)	MPR (dB)	
80	QPSK	1	1	1847	1836	1847	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63200	63334	63668	time-up limit (dB)	MPR (dB)	
70	QPSK	1	1	3450	3500.01	3525.02	23.0	0.0	
70	QPSK	1	1	1845	1847	1827	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63168	63334	63500	time-up limit (dB)	MPR (dB)	
60	QPSK	1	1	3476.02	3500.01	3525	23.0	0.0	
60	QPSK	1	1	1844	1836	1836	20.0	0.0	
60	QPSK	1	1	1833	1849	1838	20.0	0.0	
60	QPSK	1	1	3470.01	3500.01	3520.01	time-up limit (dB)	MPR (dB)	
60	QPSK	1	1	1833	1849	1838	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63100	63334	63668	time-up limit (dB)	MPR (dB)	
50	QPSK	1	1	3450	3500.01	3525.02	23.0	0.0	
50	QPSK	1	1	1845	1845	1829	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63034	63334	63634	time-up limit (dB)	MPR (dB)	
40	QPSK	1	1	3462.51	3500.01	3527.51	23.0	0.0	
40	QPSK	1	1	1845	1836	1836	20.0	0.0	
40	QPSK	1	1	1845	1836	1836	20.0	0.0	
40	QPSK	1	1	3460.02	3500.01	3540	time-up limit (dB)	MPR (dB)	
40	QPSK	1	1	1837	1853	1833	20.0	0.0	
40	QPSK	1	1	63050	63334	63618	time-up limit (dB)	MPR (dB)	
40	QPSK	1	1	3476.3	3500.01	3522.32	23.0	0.0	
40	QPSK	1	1	1841	1836	1840	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63034	63334	63634	time-up limit (dB)	MPR (dB)	
30	QPSK	1	1	3455.01	3500.01	3545.01	time-up limit (dB)	MPR (dB)	
30	QPSK	1	1	1845	1856	1830	20.0	0.0	

Part27Q n77 PC2 Main PA Ant1 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	2148					
100	PI2 BPSK	1	137	2139			23.0	0.0	
100	PI2 BPSK	1	271	2140					
100	PI2 BPSK	135	0	2184			23.0	0.0	
100	PI2 BPSK	135	69	2131			23.0	0.0	
100	PI2 BPSK	135	138	2117			23.0	0.0	
100	PI2 BPSK	270	0	2135			23.0	0.0	
100	QPSK	1	1	2182					
100	QPSK	1	137	2184			23.0	0.0	
100	QPSK	1	271	2170					
100	QPSK	135	0	2152			23.0	0.0	
100	QPSK	135	69	2170			23.0	0.0	
100	QPSK	135	138	2129			23.0	0.0	
100	QPSK	270	0	2175			23.0	0.0	
100	8QAM	1	1	2116			23.0	0.0	
100	8QAM	1	1	2077			22.5	0.5	
100	25QAM	1	1	1819			20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63334	63668	time-up limit (dB)	MPR (dB)	
90	QPSK	1	1	3456	3500.01	3525.02	23.0	0.0	
90									



Part270 n78 Main PA Ant1 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		17.81				
100	PI2 BPSK	1	271		17.85		19.0	0.0	
100	PI2 BPSK	135	0		17.62		19.0	0.0	
100	PI2 BPSK	135	69		17.82		19.0	0.0	
100	PI2 BPSK	135	138		17.88		19.0	0.0	
100	PI2 BPSK	270	0		17.70		19.0	0.0	
100	QPSK	1	1		17.82				
100	QPSK	1	137		17.78		19.0	0.0	
100	QPSK	1	271		17.83				
100	QPSK	135	0		17.66		19.0	0.0	
100	QPSK	135	69		17.90		19.0	0.0	
100	QPSK	135	138		17.68		19.0	0.0	
100	QPSK	270	0		17.69		19.0	0.0	
100	16QAM	1	1		17.87		19.0	0.0	
100	64QAM	1	1		17.33		19.0	0.0	
100	256QAM	1	1		17.79		19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	649698	650000	650334	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.46	17.61	17.59	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	649090	650000	651000	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3729.02	3750	3750.01	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648334	650000	651668	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3720	3750	3780	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.68	17.64	17.65	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647698	650000	652334	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3715.02	3750	3765.01	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	tune-up limit (dB)	MPR (dB)	

Part270 n78 PC2 Main PA Ant1 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		20.87				
100	PI2 BPSK	1	271		20.78		22.0	0.0	
100	PI2 BPSK	135	0		20.79		22.0	0.0	
100	PI2 BPSK	135	69		20.59		22.0	0.0	
100	PI2 BPSK	135	138		20.74		22.0	0.0	
100	PI2 BPSK	270	0		20.63		22.0	0.0	
100	QPSK	1	1		20.89				
100	QPSK	1	137		20.77		22.0	0.0	
100	QPSK	1	271		20.74				
100	QPSK	135	0		20.58		22.0	0.0	
100	QPSK	135	69		20.83		22.0	0.0	
100	QPSK	135	138		20.65		22.0	0.0	
100	QPSK	270	0		20.74		22.0	0.0	
100	16QAM	1	1		20.65		22.0	0.0	
100	64QAM	1	1		20.38		22.0	0.0	
100	256QAM	1	1		20.88		21.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649698	650000	650334	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.63	20.56	20.62	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	649090	650000	651000	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3729.02	3750	3750.01	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648334	650000	651668	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3720	3750	3780	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.75	20.58	20.63	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647698	650000	652334	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3715.02	3750	3765.01	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	tune-up limit (dB)	MPR (dB)	



Part27Q n78 Main PA Ant1 DSI1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi/2 BPSK	1	1	17.54	3500.01		
100	Pi/2 BPSK	1	137	17.79		19.0	0.0
100	Pi/2 BPSK	1	271	17.87			
100	Pi/2 BPSK	135	0	17.84		19.0	0.0
100	Pi/2 BPSK	135	69	18.01		19.0	0.0
100	Pi/2 BPSK	135	138	17.74		19.0	0.0
100	Pi/2 BPSK	270	0	17.90		19.0	0.0
100	QPSK	1	1	18.12			
100	QPSK	1	137	17.84		19.0	0.0
100	QPSK	1	271	17.79			
100	QPSK	135	0	17.85		19.0	0.0
100	QPSK	135	69	18.05		19.0	0.0
100	QPSK	135	138	17.68		19.0	0.0
100	QPSK	270	0	17.91		19.0	0.0
100	16QAM	1	1	17.76		19.0	0.0
100	16QAM	1	1	17.83		19.0	0.0
100	256QAM	1	1	17.95		19.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.60	633000	633334	633668
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.76	3490.02	3500.01	3510.00
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.82	632668	633334	634000
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.56	632000	633334	634668
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.70	631668	633334	635000
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.75	3470.01	3500.01	3530.01
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.55	631000	633334	635668
Channel							
Frequency (MHz)							
25	QPSK	1	1	17.85	630834	633334	635834
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.55	630500	633334	636168
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.62	630334	633334	636334
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.67	3456.01	3500.01	3545.01

Part27Q n78 PC2 Main PA Ant1 DSI1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi/2 BPSK	1	1	20.55	3500.01		
100	Pi/2 BPSK	1	137	20.96		22.0	0.0
100	Pi/2 BPSK	1	271	20.91			
100	Pi/2 BPSK	135	0	20.84		22.0	0.0
100	Pi/2 BPSK	135	69	20.80		22.0	0.0
100	Pi/2 BPSK	135	138	20.85		22.0	0.0
100	Pi/2 BPSK	270	0	20.80		22.0	0.0
100	QPSK	1	1	21.05			
100	QPSK	1	137	20.96		22.0	0.0
100	QPSK	1	271	20.78			
100	QPSK	135	0	20.65		22.0	0.0
100	QPSK	135	69	21.04		22.0	0.0
100	QPSK	135	138	20.89		22.0	0.0
100	QPSK	270	0	20.87		22.0	0.0
100	16QAM	1	1	20.68		22.0	0.0
100	16QAM	1	1	20.46		22.0	0.0
100	256QAM	1	1	20.60		21.5	0.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.93	633000	633334	633668
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.80	3490.02	3500.01	3510.00
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.68	632668	633334	634000
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.72	632000	633334	634668
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.66	631668	633334	635000
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.76	3470.01	3500.01	3530.01
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.76	631000	633334	635668
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.72	630834	633334	635834
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.80	630500	633334	636168
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.79	630334	633334	636334
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.86	3456.01	3500.01	3545.01





n7 Main PA Ant2 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	21.25	21.33	21.24			
50	PI2 BPSK	1	135	21.07	21.23	21.21	22.2	0.0	
50	PI2 BPSK	1	268	20.80	21.17	20.89			
50	PI2 BPSK	135	0	21.17	21.38	21.23	22.2	0.0	
50	PI2 BPSK	135	68	21.13	21.15	21.20	22.2	0.0	
50	PI2 BPSK	135	155	21.07	21.19	21.19			
50	PI2 BPSK	270	0	21.27	21.28	21.32	22.2	0.0	
50	QPSK	1	1	21.33	21.37	21.23			
50	QPSK	1	135	21.13	21.25	21.07	22.2	0.0	
50	QPSK	1	268	21.01	21.06	21.07			
50	QPSK	135	0	21.19	21.23	21.18	22.2	0.0	
50	QPSK	135	68	21.14	21.27	21.23	22.2	0.0	
50	QPSK	135	135	21.05	21.23	21.21			
50	QPSK	270	0	21.10	21.19	21.17	22.2	0.0	
50	16QAM	1	1	21.14	21.29	21.24	22.2	0.0	
50	64QAM	1	1	21.18	21.13	21.16	22.2	0.0	
50	256QAM	1	1	20.32	20.49	20.44	21.2	1.0	
Channel				504000	507000	510000	limit (dB)	MPR	
Frequency (MHz)				2525	2535	2545			
40	QPSK	1	1	21.19	21.16	21.15	22.2	0.0	
Channel				503000	507000	511000	limit (dB)	MPR	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.15	21.20	21.24	22.2	0.0	
Channel				502500	507000	511500	limit (dB)	MPR	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	21.18	21.20	21.17	22.2	0.0	
Channel				502000	507000	512000	limit (dB)	MPR	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	21.26	21.18	21.09	22.2	0.0	
Channel				501500	507000	512500	limit (dB)	MPR	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	21.32	21.31	21.08	22.2	0.0	
Channel				501000	507000	513000	limit (dB)	MPR	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.30	21.28	21.07	22.2	0.0	
Channel				500500	507000	513500	limit (dB)	MPR	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.14	21.22	21.08	22.2	0.0	

n66 Main PA Ant2 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	349000	351500			
Frequency (MHz)				1732.5	1745	1757.5			
45	PI2 BPSK	1	1	21.14	21.18	21.23			
45	PI2 BPSK	1	120	21.07	21.24	21.08	22.0	0.0	
45	PI2 BPSK	1	243	20.75	20.96	20.87			
45	PI2 BPSK	120	0	21.13	21.21	21.03	22.0	0.0	
45	PI2 BPSK	120	60	21.13	21.19	21.16	22.0	0.0	
45	PI2 BPSK	120	120	21.08	21.22	21.03			
45	PI2 BPSK	240	0	21.19	21.35	21.32	22.0	0.0	
45	QPSK	1	1	21.31	21.42	21.38			
45	QPSK	1	120	21.24	21.09	21.15	22.0	0.0	
45	QPSK	1	243	21.06	21.11	21.04			
45	QPSK	120	0	20.95	20.74	20.63	22.0	0.0	
45	QPSK	120	60	21.19	21.25	21.21	22.0	0.0	
45	QPSK	120	120	20.65	20.88	20.56			
45	QPSK	240	0	21.16	21.19	21.11	22.0	0.0	
45	16QAM	1	1	20.70	20.73	20.75	22.0	0.0	
45	64QAM	1	1	21.20	21.20	21.15	22.0	0.0	
45	256QAM	1	1	19.30	19.44	19.39	20.0	2.0	
Channel				346000	349000	352000	limit (dB)	MPR	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	21.02	20.93	20.96	22.0	0.0	
Channel				345500	349000	352500	limit (dB)	MPR	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	21.24	21.09	20.98	22.0	0.0	
Channel				345000	349000	353000	limit (dB)	MPR	
Frequency (MHz)				1725	1745	1766			
30	QPSK	1	1	21.23	20.90	21.15	22.0	0.0	
Channel				344500	349000	353500	limit (dB)	MPR	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	21.02	20.96	21.06	22.0	0.0	
Channel				344000	349000	354000	limit (dB)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.14	20.92	21.15	22.0	0.0	
Channel				343500	349000	354500	limit (dB)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.20	21.01	20.95	22.0	0.0	
Channel				343000	349000	355000	limit (dB)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.03	21.06	20.98	22.0	0.0	
Channel				342500	349000	355500	limit (dB)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.20	20.99	21.07	22.0	0.0	



n38 Main PA Ant2 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	20.36	21.20	21.11		
40	PI2 BPSK	1	53	20.91	21.06	21.01	21.7	0.0
40	PI2 BPSK	1	104	20.84	20.83	20.84		
40	PI2 BPSK	50	0	21.11	21.10	21.12	21.7	0.0
40	PI2 BPSK	80	28	21.03	21.07	21.11	21.7	0.0
40	PI2 BPSK	50	56	20.98	21.21	21.00		
40	PI2 BPSK	100	0	21.11	21.22	21.04	21.7	0.0
40	QPSK	1	1	21.21	21.25	21.19		
40	QPSK	1	83	21.02	21.11	20.99	21.7	0.0
40	QPSK	1	104	20.99	20.84	21.01		
40	QPSK	50	0	21.14	21.15	21.05	21.7	0.0
40	QPSK	50	28	21.14	21.20	21.13	21.7	0.0
40	QPSK	50	56	21.07	21.13	21.15	21.7	0.0
40	QPSK	100	0	21.15	21.22	21.17		
40	16QAM	1	1	20.92	21.15	21.05	21.7	0.0
40	64QAM	1	1	20.90	20.91	21.06	21.7	0.0
40	256QAM	1	1	20.73	20.85	20.77	21.2	0.5
Channel				517002	519000	520998	turn-up limit (dB)	MPR
Frequency (MHz)				2580.01	2595	2604.99		
30	QPSK	1	1	20.92	21.16	20.95	21.7	0.0
Channel				516504	519000	521496	turn-up limit (dB)	MPR
Frequency (MHz)				2582.02	2595	2607.48		
25	QPSK	1	1	21.03	21.22	20.93	21.7	0.0
Channel				516006	519000	522000	turn-up limit (dB)	MPR
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	21.15	21.05	21.05	21.7	0.0
Channel				515502	519000	522498	turn-up limit (dB)	MPR
Frequency (MHz)				2577.01	2595	2612.49		
15	QPSK	1	1	21.01	21.20	21.05	21.7	0.0
Channel				515004	519000	522996	turn-up limit (dB)	MPR
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	20.99	21.24	20.96	21.7	0.0

n41 Main PA Ant2 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)
Channel				506002	516996	526900		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.62	20.75	20.62		
100	PI2 BPSK	1	137	20.42	20.65	20.62	21.2	0.0
100	PI2 BPSK	1	271	20.54	20.51	20.43		
100	PI2 BPSK	135	0	20.67	20.76	20.90	21.2	0.0
100	PI2 BPSK	135	69	20.62	20.58	20.66	21.2	0.0
100	PI2 BPSK	135	138	20.57	20.84	20.50		
100	PI2 BPSK	270	0	20.68	20.87	20.84	21.2	0.0
100	QPSK	1	1	20.91	20.89	20.86		
100	QPSK	1	137	20.64	20.75	20.61	21.2	0.0
100	QPSK	1	271	20.64	20.71	20.50		
100	QPSK	135	0	20.76	20.74	20.71	21.2	0.0
100	QPSK	135	69	20.68	20.84	20.74	21.2	0.0
100	QPSK	135	138	20.72	20.73	20.67	21.2	0.0
100	QPSK	270	0	20.71	20.82	20.76		
100	16QAM	1	1	20.53	20.76	20.47	21.2	0.0
100	64QAM	1	1	20.55	20.59	20.63	21.2	0.0
100	256QAM	1	1	20.80	20.79	20.83	21.2	0.0
Channel				505000	516996	526996	turn-up limit (dB)	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.61	20.93	20.54	21.2	0.0
Channel				507204	516996	526996	turn-up limit (dB)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.49	20.92	20.65	21.2	0.0
Channel				506202	516996	531000	turn-up limit (dB)	MPR
Frequency (MHz)				2531.01	2592.99	2695		
70	QPSK	1	1	20.68	20.96	20.76	21.2	0.0
Channel				505200	516996	531996	turn-up limit (dB)	MPR
Frequency (MHz)				2525	2592.99	2699.98		
60	QPSK	1	1	20.66	20.84	20.69	21.2	0.0
Channel				504204	516996	532996	turn-up limit (dB)	MPR
Frequency (MHz)				2521.02	2592.99	2694.99		
50	QPSK	1	1	20.55	20.87	20.71	21.2	0.0
Channel				503202	516996	534000	turn-up limit (dB)	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.64	20.88	20.76	21.2	0.0
Channel				502200	516996	534996	turn-up limit (dB)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.61	20.93	20.57	21.2	0.0
Channel				501204	516996	535996	turn-up limit (dB)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.62	20.89	20.67	21.2	0.0
Channel				500700	516996	536996	turn-up limit (dB)	MPR
Frequency (MHz)				2503.05	2592.99	2692.48		
15	QPSK	1	1	20.65	20.89	20.64	21.2	0.0
Channel				500202	516996	537000	turn-up limit (dB)	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	20.51	20.82	20.76	21.2	0.0



n7 Main PA Ant3 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	21.58	21.61	21.51		
50	PI2 BPSK	1	135	21.28	21.50	21.53	23.0	0.0
50	PI2 BPSK	1	268	21.28	21.32	21.17		
50	PI2 BPSK	135	0	21.31	21.52	21.44	23.0	0.0
50	PI2 BPSK	135	68	21.48	21.48	21.43	23.0	0.0
50	PI2 BPSK	135	135	21.44	21.65	21.45	23.0	0.0
50	PI2 BPSK	270	0	21.50	21.48	21.54		
50	QPSK	1	1	21.65	21.78	21.69		
50	QPSK	1	135	21.38	21.59	21.47	23.0	0.0
50	QPSK	1	268	21.35	21.59	21.48		
50	QPSK	135	0	21.47	21.57	21.49	23.0	0.0
50	QPSK	135	68	21.41	21.67	21.47	23.0	0.0
50	QPSK	135	135	21.63	21.58	21.59	23.0	0.0
50	QPSK	270	0	21.44	21.55	21.50		
50	16QAM	1	1	21.56	21.58	21.55	23.0	0.0
50	64QAM	1	1	20.93	20.07	20.03	21.5	1.5
50	256QAM	1	1	18.18	18.24	18.17	19.5	3.5
Channel				504000	507000	510000	limit (dB)	MPR
Frequency (MHz)				2525	2535	2545		
40	QPSK	1	1	21.44	21.34	21.59	23.0	0.0
Channel				503000	507000	511000	limit (dB)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.45	21.53	21.44	23.0	0.0
Channel				502000	507000	512000	limit (dB)	MPR
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.52	21.54	21.56	23.0	0.0
Channel				502000	507000	512000	limit (dB)	MPR
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	21.46	21.47	21.50	23.0	0.0
Channel				501500	507000	512500	limit (dB)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.54	21.50	21.57	23.0	0.0
Channel				501000	507000	513000	limit (dB)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.38	21.45	21.44	23.0	0.0
Channel				500500	507000	513500	limit (dB)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.47	21.52	21.63	23.0	0.0

n66 Main PA Ant3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1737.5		
45	PI2 BPSK	1	1	21.67	21.71	21.62		
45	PI2 BPSK	1	120	21.60	21.63	21.59	23.5	0.0
45	PI2 BPSK	1	243	21.52	21.59	21.53		
45	PI2 BPSK	120	0	21.08	21.22	21.07	23.0	0.5
45	PI2 BPSK	120	60	21.59	21.70	21.58	23.5	0.0
45	PI2 BPSK	120	120	21.62	21.19	21.12	23.0	0.5
45	PI2 BPSK	240	0	21.16	21.28	21.06		
45	QPSK	1	1	21.70	21.75	21.68		
45	QPSK	1	120	21.58	21.70	21.64	23.5	0.0
45	QPSK	1	243	21.66	21.69	21.68		
45	QPSK	120	0	20.89	20.78	20.97	22.5	1.0
45	QPSK	120	60	21.56	21.67	21.53	23.5	0.0
45	QPSK	120	120	20.60	20.72	20.66	22.5	1.0
45	QPSK	240	0	20.71	20.83	20.70		
45	16QAM	1	1	20.83	20.72	20.82	22.5	1.0
45	64QAM	1	1	19.01	19.05	19.09	21.0	2.5
45	256QAM	1	1	17.19	17.23	17.14	19.0	4.5
Channel				346000	349000	352000	limit (dB)	MPR
Frequency (MHz)				1730	1745	1740		
40	QPSK	1	1	21.59	21.68	21.63	23.5	0.0
Channel				345500	349000	352500	limit (dB)	MPR
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	21.60	21.71	21.67	23.5	0.0
Channel				345000	349000	353000	limit (dB)	MPR
Frequency (MHz)				1725	1745	1766		
30	QPSK	1	1	21.60	21.70	21.51	23.5	0.0
Channel				344500	349000	353500	limit (dB)	MPR
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	21.64	21.63	21.62	23.5	0.0
Channel				344000	349000	354000	limit (dB)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.58	21.64	21.51	23.5	0.0
Channel				343500	349000	354500	limit (dB)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.62	21.68	21.53	23.5	0.0
Channel				343000	349000	355000	limit (dB)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.57	21.70	21.59	23.5	0.0
Channel				342500	349000	355500	limit (dB)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.63	21.60	21.58	23.5	0.0



n38 Main PA Ant3 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.		
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	20.87	21.05	20.81		
40	PI2 BPSK	1	53	20.74	20.82	20.80	22.5	0.0
40	PI2 BPSK	1	104	20.70	20.79	20.86		
40	PI2 BPSK	50	0	21.05	21.03	20.97	22.5	0.0
40	PI2 BPSK	80	28	20.94	20.85	20.90	22.5	0.0
40	PI2 BPSK	50	56	20.76	20.97	20.91		
40	PI2 BPSK	100	0	21.05	21.10	21.05	22.5	0.0
40	QPSK	1	1	20.90	21.13	21.08		
40	QPSK	1	83	20.79	20.89	20.91	22.5	0.0
40	QPSK	1	104	20.87	20.93	20.92		
40	QPSK	50	0	20.76	20.86	20.89	22.5	0.0
40	QPSK	50	28	21.02	21.09	21.08	22.5	0.0
40	QPSK	50	56	20.91	20.88	20.91	22.5	0.0
40	QPSK	100	0	20.94	21.06	20.99		
40	16QAM	1	1	20.86	21.06	21.01	22.5	0.0
40	64QAM	1	1	20.82	20.65	20.62	22.0	0.5
40	256QAM	1	1	18.84	18.91	18.87	20.0	2.5
Channel				517002	519000	520998	tune-up limit (dB)	MPR
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.77	20.90	20.83	22.5	0.0
Channel				516504	519000	521496	tune-up limit (dB)	MPR
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	20.69	20.91	20.86	22.5	0.0
Channel				516000	519000	522000	tune-up limit (dB)	MPR
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	20.66	21.12	20.85	22.5	0.0
Channel				515502	519000	522498	tune-up limit (dB)	MPR
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	20.62	20.92	20.97	22.5	0.0
Channel				515004	519000	522996	tune-up limit (dB)	MPR
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	20.83	20.93	20.99	22.5	0.0

n41 Main PA Ant3 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.		
Channel				509002	516996	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.85	21.12	20.85		
100	PI2 BPSK	1	137	20.85	20.75	20.75	22.5	0.0
100	PI2 BPSK	1	271	20.70	20.85	20.84		
100	PI2 BPSK	135	0	21.07	20.97	21.07	22.5	0.0
100	PI2 BPSK	135	69	21.01	20.76	20.91	22.5	0.0
100	PI2 BPSK	135	138	20.72	21.03	20.87		
100	PI2 BPSK	270	0	21.17	21.07	21.15	22.5	0.0
100	QPSK	1	1	20.87	21.19	20.89		
100	QPSK	1	137	20.73	20.80	20.86	22.5	0.0
100	QPSK	1	271	20.99	20.91	20.84		
100	QPSK	135	0	20.70	20.86	20.83	22.5	0.0
100	QPSK	135	69	21.02	21.08	20.96	22.5	0.0
100	QPSK	135	138	20.94	20.88	20.88	22.5	0.0
100	QPSK	270	0	20.92	20.99	20.92	22.5	0.0
100	16QAM	1	1	20.87	20.87	21.08	22.5	0.0
100	64QAM	1	1	20.56	20.58	20.55	22.0	0.5
100	256QAM	1	1	18.79	18.86	18.80	20.0	2.5
Channel				508000	516996	526996	tune-up limit (dB)	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.85	21.02	20.85	22.5	0.0
Channel				507204	516996	526996	tune-up limit (dB)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.90	20.97	20.76	22.5	0.0
Channel				506502	516996	528100	tune-up limit (dB)	MPR
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.80	20.97	20.99	22.5	0.0
Channel				505500	516996	531996	tune-up limit (dB)	MPR
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.76	21.03	20.76	22.5	0.0
Channel				504204	516996	532996	tune-up limit (dB)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.79	21.06	20.84	22.5	0.0
Channel				503502	516996	534000	tune-up limit (dB)	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.91	21.01	20.95	22.5	0.0
Channel				502200	516996	534996	tune-up limit (dB)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.79	21.03	20.94	22.5	0.0
Channel				501204	516996	535996	tune-up limit (dB)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.76	21.14	20.82	22.5	0.0
Channel				500700	516996	536996	tune-up limit (dB)	MPR
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	20.82	20.99	20.88	22.5	0.0
Channel				500202	516996	537000	tune-up limit (dB)	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	20.75	20.97	20.94	22.5	0.0



n7 Main PA Ant4 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 505000	Power Middle Ch. F.Freq. 507000	Power High Ch. F.Freq. 509000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.06	21.21	21.01		
50	PI2 BPSK	1	135	21.07	21.10	20.81	22.0	0.0
50	PI2 BPSK	1	268	20.80	21.11	20.99		
50	PI2 BPSK	135	0	21.18	21.31	21.22	22.0	0.0
50	PI2 BPSK	135	68	21.16	21.19	21.20	22.0	0.0
50	PI2 BPSK	135	135	21.07	21.25	21.05	22.0	0.0
50	PI2 BPSK	270	0	21.28	21.20	21.25		
50	QPSK	1	1	21.28	21.35	21.29		
50	QPSK	1	135	21.10	21.28	21.15	22.0	0.0
50	QPSK	1	268	21.25	21.16	21.09		
50	QPSK	135	0	21.28	21.29	21.07	22.0	0.0
50	QPSK	135	68	21.29	21.33	21.25	22.0	0.0
50	QPSK	135	135	20.98	21.07	20.85	22.0	0.0
50	QPSK	270	0	21.25	21.27	21.20		
50	16QAM	1	1	21.16	21.23	21.16	22.0	0.0
50	64QAM	1	1	21.16	21.27	21.21	22.0	0.0
50	256QAM	1	1	20.32	20.34	20.46	21.0	1.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.06	21.25	21.00	turn-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.03	21.24	21.25	22.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	21.04	21.10	21.21	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.96	21.13	21.15	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.03	21.16	21.13	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.02	21.22	21.17	22.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	21.10	21.27	21.20	22.0	0.0

n66 Main PA Ant4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 346500	Power Middle Ch. F.Freq. 349000	Power High Ch. F.Freq. 351500	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
45	PI2 BPSK	1	1	23.63	23.72	23.67		
45	PI2 BPSK	1	120	23.47	23.67	23.35	24.5	0.0
45	PI2 BPSK	1	243	23.39	23.55	23.45		
45	PI2 BPSK	120	0	23.06	23.17	23.20	24.0	0.5
45	PI2 BPSK	120	60	23.65	23.66	23.56	24.5	0.0
45	PI2 BPSK	120	120	23.09	23.23	23.88		
45	PI2 BPSK	240	0	23.25	23.24	23.18	24.0	0.5
45	QPSK	1	1	23.69	23.76	23.72		
45	QPSK	1	120	23.48	23.71	23.59	24.5	0.0
45	QPSK	1	243	23.84	23.69	23.68		
45	QPSK	120	0	22.74	22.83	22.59	23.5	1.0
45	QPSK	120	60	23.48	23.65	23.60	24.5	0.0
45	QPSK	120	120	22.44	22.55	22.47	23.5	1.0
45	QPSK	240	0	22.58	22.61	22.52		
45	16QAM	1	1	22.63	22.57	22.60	23.5	1.0
45	64QAM	1	1	20.97	21.17	21.11	22.0	2.5
45	256QAM	1	1	19.23	19.35	19.33	20.0	4.5
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.62	23.71	23.59	turn-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
35	QPSK	1	1	23.64	23.73	23.70	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.60	23.63	23.62	24.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.60	23.62	23.65	24.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.57	23.69	23.60	24.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.54	23.62	23.59	24.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.58	23.70	23.58	24.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	23.55	23.72	23.68	24.5	0.0



n38 Main PA Ant4 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	22.16	22.15	22.28			
40	PI2 BPSK	1	53	22.12	22.10	22.05	22.7	0.0	
40	PI2 BPSK	1	104	22.01	21.99	21.98			
40	PI2 BPSK	50	0	22.15	22.15	22.11	22.7	0.0	
40	PI2 BPSK	80	28	22.18	22.21	22.11	22.7	0.0	
40	PI2 BPSK	50	56	22.09	22.11	22.06			
40	PI2 BPSK	100	0	22.11	22.25	22.23	22.7	0.0	
40	QPSK	1	1	22.37	22.41	22.27			
40	QPSK	1	83	22.26	22.28	22.09	22.7	0.0	
40	QPSK	1	104	22.09	22.02	21.98			
40	QPSK	50	0	22.22	22.32	22.12	22.7	0.0	
40	QPSK	50	28	22.27	22.38	22.33	22.7	0.0	
40	QPSK	50	56	22.06	22.22	22.12	22.7	0.0	
40	QPSK	100	0	22.18	22.27	22.22			
40	16QAM	1	1	22.16	22.14	21.93	22.7	0.0	
40	64QAM	1	1	21.95	22.02	22.11	22.7	0.0	
40	256QAM	1	1	20.91	21.08	20.84	21.2	1.5	
Channel				517002	519000	520998	limit (dB)	MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.13	22.27	22.21	22.7	0.0	
Channel				516504	519000	521496	limit (dB)	MPR	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	22.28	22.37	22.20	22.7	0.0	
Channel				516000	519000	522000	limit (dB)	MPR	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	22.18	22.26	22.06	22.7	0.0	
Channel				515502	519000	522498	limit (dB)	MPR	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.15	22.29	22.17	22.7	0.0	
Channel				515004	519000	522996	limit (dB)	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.22	22.29	22.10	22.7	0.0	

n41 Main PA Ant4 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				506002	518998	520000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.90	21.69	21.77			
100	PI2 BPSK	1	137	21.76	21.62	21.62	22.2	0.0	
100	PI2 BPSK	1	271	21.63	21.56	21.56			
100	PI2 BPSK	135	0	21.83	21.81	21.81	22.2	0.0	
100	PI2 BPSK	135	69	21.92	21.80	21.85	22.2	0.0	
100	PI2 BPSK	135	138	21.69	21.74	21.67			
100	PI2 BPSK	270	0	21.78	21.80	21.85	22.2	0.0	
100	QPSK	1	1	21.92	21.96	21.89			
100	QPSK	1	137	21.89	21.86	21.64	22.2	0.0	
100	QPSK	1	271	21.76	21.68	21.72			
100	QPSK	135	0	21.80	21.89	21.75	22.2	0.0	
100	QPSK	135	69	21.79	21.91	21.83	22.2	0.0	
100	QPSK	135	138	21.66	21.75	21.81	22.2	0.0	
100	QPSK	270	0	21.72	21.80	21.77			
100	16QAM	1	1	21.74	21.80	21.48	22.2	0.0	
100	64QAM	1	1	21.70	21.72	21.76	22.2	0.0	
100	256QAM	1	1	21.13	21.19	21.11	21.2	1.0	
Channel				505000	518998	520996	limit (dB)	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.80	21.55	21.54	22.2	0.0	
Channel				507204	518998	520996	limit (dB)	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.72	21.75	21.87	22.2	0.0	
Channel				505002	518998	521000	limit (dB)	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.71	21.80	21.86	22.2	0.0	
Channel				505000	518998	531996	limit (dB)	MPR	
Frequency (MHz)				2525	2592.99	2659.98			
60	QPSK	1	1	21.79	21.63	21.50	22.2	0.0	
Channel				504204	518998	520996	limit (dB)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.84	21.95	21.74	22.2	0.0	
Channel				503502	518998	524000	limit (dB)	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.84	21.81	21.90	22.2	0.0	
Channel				502200	518998	534996	limit (dB)	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.90	21.63	21.50	22.2	0.0	
Channel				501204	518998	535996	limit (dB)	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.71	21.74	21.77	22.2	0.0	
Channel				500700	518998	536996	limit (dB)	MPR	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	21.73	21.90	21.79	22.2	0.0	
Channel				500202	518998	537000	limit (dB)	MPR	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	21.75	21.63	21.50	22.2	0.0	



Part270 n77 Main PA Ant5 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	17.58	18.10	18.04			
100	PI2 BPSK	1	137	18.10	18.03	17.89	19.0	0.0	
100	PI2 BPSK	1	271	17.90	17.89	17.78			
100	PI2 BPSK	135	0	17.86	17.84	17.91	19.0	0.0	
100	PI2 BPSK	135	69	18.02	18.08	17.92	19.0	0.0	
100	PI2 BPSK	135	138	17.93	17.98	17.82			
100	PI2 BPSK	270	0	17.84	18.04	17.92	19.0	0.0	
100	QPSK	1	1	18.11	18.25	18.09			
100	QPSK	1	137	17.85	18.03	18.06	19.0	0.0	
100	QPSK	1	271	18.01	18.07	18.11			
100	QPSK	135	0	17.74	17.99	17.83	19.0	0.0	
100	QPSK	135	69	18.19	18.22	17.91	19.0	0.0	
100	QPSK	135	138	17.90	17.82	17.86	19.0	0.0	
100	QPSK	270	0	17.88	18.00	17.86	19.0	0.0	
100	8QAM	1	1	17.59	17.86	17.96	19.0	0.0	
100	8QAM	1	1	17.35	17.58	17.31	19.0	0.0	
100	25QAM	1	1	17.93	18.15	17.83	19.0	0.0	
Channel									
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	17.58	18.17	17.94	19.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.81	18.19	17.95	19.0	0.0	
Channel									
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	17.91	18.13	17.95	19.0	0.0	
Channel									
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.82	18.13	17.99	19.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	17.77	18.13	17.83	19.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	17.82	18.17	17.84	19.0	0.0	
Channel									
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	17.58	18.06	18.03	19.0	0.0	
Channel									
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	17.74	18.12	17.94	19.0	0.0	
Channel									
Frequency (MHz)				647334	650000	654668	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.84	18.05	17.95	19.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	17.77	18.11	17.93	19.0	0.0	
Channel									
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	17.94	18.13	18.04	19.0	0.0	

Part270 n77 PC2 Main PA Ant5 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.05	21.21	21.16			
100	PI2 BPSK	1	137	21.25	21.07	20.89	22.0	0.0	
100	PI2 BPSK	1	271	21.11	20.99	20.98			
100	PI2 BPSK	135	0	20.94	21.05	21.04	22.0	0.0	
100	PI2 BPSK	135	69	21.03	21.21	21.10	22.0	0.0	
100	PI2 BPSK	135	138	20.99	20.96	20.81			
100	PI2 BPSK	270	0	20.99	21.03	21.10	22.0	0.0	
100	QPSK	1	1	21.30	21.38	21.07			
100	QPSK	1	137	20.94	21.22	21.05	22.0	0.0	
100	QPSK	1	271	21.16	21.21	21.23			
100	QPSK	135	0	20.83	21.00	20.94	22.0	0.0	
100	QPSK	135	69	21.24	21.29	21.09	22.0	0.0	
100	QPSK	135	138	20.99	21.04	20.97	22.0	0.0	
100	QPSK	270	0	21.00	21.20	21.04	22.0	0.0	
100	8QAM	1	1	20.85	20.96	21.15	22.0	0.0	
100	8QAM	1	1	20.53	20.79	20.40	22.0	0.0	
100	25QAM	1	1	20.55	20.67	20.53	21.5	0.5	
Channel									
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	20.98	21.19	20.98	22.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.07	21.31	20.98	22.0	0.0	
Channel									
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	21.00	21.17	21.07	22.0	0.0	
Channel									
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	21.03	21.33	21.02	22.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.97	21.28	21.09	22.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.94	21.20	20.94	22.0	0.0	
Channel									
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.01	21.25	21.04	22.0	0.0	
Channel									
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	21.08	21.21	21.07	22.0	0.0	
Channel									
Frequency (MHz)				647334	650000	654668	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.01	21.30	21.12	22.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.07	21.22	20.97	22.0	0.0	
Channel									
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.08	21.32	21.03	22.0	0.0	

Part27Q n77 Main PA Ant5 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)						3500.01			
100	PI2 BPSK	1	1			18.33			
100	PI2 BPSK	1	137			18.03	19.0	0.0	
100	PI2 BPSK	1	271			18.24			
100	PI2 BPSK	135	0			17.93	19.0	0.0	
100	PI2 BPSK	135	69			18.19	19.0	0.0	
100	PI2 BPSK	135	138			18.06			
100	PI2 BPSK	270	0			18.00	19.0	0.0	
100	QPSK	1	1			18.34			
100	QPSK	1	137			18.16	19.0	0.0	
100	QPSK	1	271			18.03			
100	QPSK	135	0			18.11	19.0	0.0	
100	QPSK	135	69			18.29	19.0	0.0	
100	QPSK	135	138			17.86	19.0	0.0	
100	QPSK	270	0			18.26	19.0	0.0	
100	8QAM	1	1			18.05	19.0	0.0	
100	8QAM	1	1			17.93	19.0	0.0	
100	25QAM	1	1			18.15	19.0	0.0	
Channel									
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	18.23	18.22	18.22	19.0	0.0	
Channel									
Frequency (MHz)				633668	633334	634000	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	18.18	18.26	18.02	19.0	0.0	
Channel									
Frequency (MHz)				634000	633000	631600	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	18.19	18.16	18.08	19.0	0.0	
Channel									
Frequency (MHz)				634000	633334	634668	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	18.18	18.25	18.03	19.0	0.0	
Channel									
Frequency (MHz)				634668	633334	633000	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	18.25	18.16	18.20	19.0	0.0	
Channel									
Frequency (MHz)				634700	633000	632100	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	18.24	18.15	18.11	19.0	0.0	
Channel									
Frequency (MHz)				635000	633334	633668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.25	18.31	18.19	19.0	0.0	
Channel									
Frequency (MHz)				635000	633334	633634	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	18.31	18.21	18.07	19.0	0.0	
Channel									
Frequency (MHz)				635000	633334	633000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.11	18.17	18.16	19.0	0.0	
Channel									
Frequency (MHz)				635000	633334	6336168	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.14	18.23	18.21	19.0	0.0	
Channel									
Frequency (MHz)				635000	633334	633334	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.15	18.20	18.23	19.0	0.0	



Part27Q n77 PC2 Main PA Ant5 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3500.01				
100	PI2 BPSK	1	1	2122							
100	PI2 BPSK	1	137	20.98			22.0	0.0			
100	PI2 BPSK	1	271	20.99							
100	PI2 BPSK	135	0	20.90			22.0	0.0			
100	PI2 BPSK	135	69	21.01			22.0	0.0			
100	PI2 BPSK	135	138	20.81							
100	PI2 BPSK	270	0	20.95			22.0	0.0			
100	QPSK	1	1	21.36							
100	QPSK	1	137	21.09			22.0	0.0			
100	QPSK	1	271	21.03							
100	QPSK	135	0	20.88			22.0	0.0			
100	QPSK	135	69	21.16			22.0	0.0			
100	QPSK	135	138	20.93							
100	QPSK	270	0	21.15			22.0	0.0			
100	8QAM	1	1	20.75			22.0	0.0			
100	8QAM	1	1	20.80			22.0	0.0			
100	25QAM	1	1	20.71			21.5	0.5			
Channel											
Frequency (MHz)							633000	633334	633668	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3456	3500.01	3503.02					
80	QPSK	1	1	20.90	21.10	20.94	22.0	0.0			
Channel											
Frequency (MHz)							632668	633334	634000	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3490.02	3500.01	3510					
80	QPSK	1	1	20.93	21.13	20.83	22.0	0.0			
Channel											
Frequency (MHz)							632834	633334	633834	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3485.01	3500.01	3515.01					
70	QPSK	1	1	20.79	20.98	20.78	22.0	0.0			
Channel											
Frequency (MHz)							632000	633334	633668	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3450	3500.01	3503.02					
60	QPSK	1	1	20.79	21.10	20.90	22.0	0.0			
Channel											
Frequency (MHz)							631668	633334	633000	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3476.02	3500.01	3525					
50	QPSK	1	1	20.76	21.02	20.90	22.0	0.0			
Channel											
Frequency (MHz)							631334	633334	633834	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3470.01	3500.01	3530.01					
40	QPSK	1	1	20.85	21.09	20.79	22.0	0.0			
Channel											
Frequency (MHz)							631000	633334	633668	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3450	3500.01	3503.02					
30	QPSK	1	1	20.79	21.11	20.98	22.0	0.0			
Channel											
Frequency (MHz)							630834	633334	633834	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3462.51	3500.01	3537.51					
25	QPSK	1	1	20.95	21.09	20.90	22.0	0.0			
Channel											
Frequency (MHz)							630668	633334	633000	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3450.02	3500.01	3540					
20	QPSK	1	1	20.95	21.19	21.00	22.0	0.0			
Channel											
Frequency (MHz)							630500	633334	633668	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3457.5	3500.01	3542.5					
15	QPSK	1	1	20.84	21.00	20.93	22.0	0.0			
Channel											
Frequency (MHz)							630334	633334	633834	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3455.01	3500.01	3545.01					
10	QPSK	1	1	20.79	21.20	20.90	22.0	0.0			

Part27O n78 Main PA Ant5 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3750	3750	3750		
100	PI2 BPSK	1	1	17.25							
100	PI2 BPSK	1	137	17.23			18.0	0.0			
100	PI2 BPSK	1	271	17.06							
100	PI2 BPSK	135	0	17.12			18.0	0.0			
100	PI2 BPSK	135	69	17.22			18.0	0.0			
100	PI2 BPSK	135	138	17.06							
100	PI2 BPSK	270	0	17.12			18.0	0.0			
100	QPSK	1	1	17.32							
100	QPSK	1	137	17.17			18.0	0.0			
100	QPSK	1	271	17.26							
100	QPSK	135	0	17.17			18.0	0.0			
100	QPSK	135	69	17.24			18.0	0.0			
100	QPSK	135	138	17.07							
100	QPSK	270	0	17.24			18.0	0.0			
100	8QAM	1	1	17.04			18.0	0.0			
100	8QAM	1	1	16.72			18.0	0.0			
100	25QAM	1	1	17.23			18.0	0.0			
Channel											
Frequency (MHz)							649668	650000	650334	time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3743.02	3750	3763.01					
90	QPSK	1	1	17.22	17.06	17.03	18.0	0.0			
Channel											
Frequency (MHz)							649334	650000	650668	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3750	3760.02					
80	QPSK	1	1	17.22	17.13	17.05	18.0	0.0			
Channel											
Frequency (MHz)							649000	650000	651000	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3735	3750	3765					
70	QPSK	1	1	17.22	17.12	16.89	18.0	0.0			
Channel											
Frequency (MHz)							648668	650000	651334	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3730.02	3750	3761.01					
60	QPSK	1	1	17.29	17.16	16.93	18.0	0.0			
Channel											
Frequency (MHz)							648334	650000	651668	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3726.01	3750	3756.02					
50	QPSK	1	1	17.25	17.19	16.87	18.0	0.0			
Channel											
Frequency (MHz)							648000	650000	652000	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3750	3760					
40	QPSK	1	1	17.20	17.22	17.11	18.0	0.0			
Channel											
Frequency (MHz)							647668	650000	652334	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3750	3763.01					
30	QPSK	1	1	17.17	17.10	17.02	18.0	0.0			
Channel											
Frequency (MHz)							647300	650000	652500	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3712.5	3750	3767.5					
25	QPSK	1	1	17.18	17.09	17.11	18.0	0.0			
Channel											
Frequency (MHz)							647000	650000	652800	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3710.01	3750	3760.02					
20	QPSK	1	1	17.20	17.20	16.94	18.0	0.0			
Channel											
Frequency (MHz)							647168	650000	652834	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3707.52	3750	3762.51					
15	QPSK	1	1	17.09	17.18	17.06	18.0	0.0			
Channel											
Frequency (MHz)							647000	650000	653000	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3705	3750	3795					
10	QPSK	1	1	17.21	17.24	16.95	18.0	0.0			

Part27O n78 PC2 Main PA Ant5 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3750	3750	3750		
100	PI2 BPSK	1	1	20.13							
100	PI2 BPSK	1	137	20.30			21.0	0.0			
100	PI2 BPSK	1	271	20.11							
100	PI2 BPSK	135	0	20.24			21.0	0.0			
100	PI2 BPSK	135	69	20.27			21.0	0.0			
100	PI2 BPSK	135	138	20.12							
100	PI2 BPSK	270	0	20.19			21.0	0.0			
100	QPSK	1	1	20.31							
100	QPSK	1	137	20.21			21.0	0.0			
100	QPSK	1	271	20.05							
100	QPSK	135	0	20.05			21.0	0.0			
100	QPSK	135	69	20.25			21.0	0.0			
100	QPSK	135	138	20.08							
100	QPSK	270	0	20.19			21.0	0.0			
100	8QAM	1	1	20.01			21.0	0.0			
100	8QAM	1	1	20.02			21.0	0.0			
100	25QAM	1	1	20.24			21.0	0.0			
Channel											
Frequency (MHz)							649668	650000	650334	time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3743.02	3750	3763.01					
90											





Part27Q n78 Main PA Ant5 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.23	3000.01				
100	PI2 BPSK	1	137	17.44			18.0	0.0	
100	PI2 BPSK	1	271	17.27					
100	PI2 BPSK	135	0	17.18			18.0	0.0	
100	PI2 BPSK	135	69	17.42			18.0	0.0	
100	PI2 BPSK	135	138	17.29			18.0	0.0	
100	PI2 BPSK	270	0	17.49			18.0	0.0	
100	QPSK	1	1	17.58					
100	QPSK	1	137	17.25			18.0	0.0	
100	QPSK	1	271	17.32					
100	QPSK	135	0	17.24			18.0	0.0	
100	QPSK	135	69	17.35			18.0	0.0	
100	QPSK	135	138	17.32			18.0	0.0	
100	QPSK	270	0	17.34			18.0	0.0	
100	16QAM	1	1	17.20			18.0	0.0	
100	64QAM	1	1	16.97			18.0	0.0	
100	256QAM	1	1	17.32			18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.52	63334	63968	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.57	3490.02	3500.01	3510	18.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.35	63334	63468	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.41	63334	63468	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.49	63334	63500	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.46	3470.01	3500.01	3530.01	18.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.54	63334	63568	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.56	3462.51	3500.01	3537.51	18.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.52	63334	63600	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.41	63334	63634	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.39	3455.01	3500.01	3545.01	18.0	0.0

Part27Q n78 PC2 Main PA Ant5 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.05	3000.01				
100	PI2 BPSK	1	137	20.27			21.0	0.0	
100	PI2 BPSK	1	271	20.14					
100	PI2 BPSK	135	0	19.98			21.0	0.0	
100	PI2 BPSK	135	69	20.20			21.0	0.0	
100	PI2 BPSK	135	138	19.86			21.0	0.0	
100	PI2 BPSK	270	0	20.06			21.0	0.0	
100	QPSK	1	1	20.45					
100	QPSK	1	137	20.11			21.0	0.0	
100	QPSK	1	271	20.26					
100	QPSK	135	0	20.14			21.0	0.0	
100	QPSK	135	69	20.35			21.0	0.0	
100	QPSK	135	138	20.16			21.0	0.0	
100	QPSK	270	0	20.05			21.0	0.0	
100	16QAM	1	1	19.80			21.0	0.0	
100	64QAM	1	1	19.65			21.0	0.0	
100	256QAM	1	1	20.37			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.27	63334	63968	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.40	3490.02	3500.01	3510	21.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.30	63334	63468	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.33	63334	63500	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.20	3470.01	3500.01	3530.01	21.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.37	63334	63568	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.25	3462.51	3500.01	3537.51	21.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.23	63334	63600	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.25	63334	63634	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.25	3455.01	3500.01	3545.01	21.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22	63334	63634	tune-up limit (dBm)	MFR (dB)	



Part270 n77 Main PA Ant6 DS1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	17.50	17.57	17.41				
100	PI2 BPSK	1	137	17.45	17.44	17.41	19.0	0.0		
100	PI2 BPSK	1	271	17.25	17.31	17.26				
100	PI2 BPSK	135	0	17.45	17.57	17.38	19.0	0.0		
100	PI2 BPSK	135	69	17.39	17.49	17.36	19.0	0.0		
100	PI2 BPSK	135	138	17.35	17.37	17.31				
100	PI2 BPSK	270	0	17.36	17.48	17.33	19.0	0.0		
100	QPSK	1	1	17.57	17.69	17.50				
100	QPSK	1	137	17.55	17.52	17.54	19.0	0.0		
100	QPSK	1	271	17.48	17.53	17.44				
100	QPSK	135	0	17.42	17.38	17.21	19.0	0.0		
100	QPSK	135	69	17.58	17.61	17.57	19.0	0.0		
100	QPSK	135	138	17.27	17.57	17.35	19.0	0.0		
100	QPSK	270	0	17.38	17.53	17.42	19.0	0.0		
100	8QAM	1	1	17.12	17.09	17.11	19.0	0.0		
100	8QAM	1	1	17.13	17.15	17.16	19.0	0.0		
100	256QAM	1	1	17.03	17.16	17.08	19.0	0.0		
Channel										
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	3742.02	3840	3923.01	19.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3749.01	3840	3949.02	19.0	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	3735	3840	3945	19.0	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	3729	3840	3960	19.0	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3725.01	3840	3955.02	19.0	0.0		
Channel										
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3720	3840	3960	19.0	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	3712	3840	3975	19.0	0.0		
Channel										
Frequency (MHz)				647334	650000	650000	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3712.5	3840	3987.5	19.0	0.0		
Channel										
Frequency (MHz)				647000	650000	650000	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3710.01	3840	3970.02	19.0	0.0		
Channel										
Frequency (MHz)				646668	650000	654834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	3707.52	3840	3972.51	19.0	0.0		
Channel										
Frequency (MHz)				646334	650000	650000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	3705	3840	3975	19.0	0.0		

Part270 n77 PC2 Main PA Ant6 DS1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	20.27	20.31	20.09				
100	PI2 BPSK	1	137	20.22	20.27	20.15	22.0	0.0		
100	PI2 BPSK	1	271	20.05	20.13	20.04				
100	PI2 BPSK	135	0	20.38	20.32	20.27	22.0	0.0		
100	PI2 BPSK	135	69	20.11	20.12	20.13	22.0	0.0		
100	PI2 BPSK	135	138	20.25	20.30	20.23				
100	PI2 BPSK	270	0	20.15	20.31	20.27	22.0	0.0		
100	QPSK	1	1	20.33	20.42	20.29				
100	QPSK	1	137	20.15	20.11	20.23	22.0	0.0		
100	QPSK	1	271	20.26	20.20	20.28				
100	QPSK	135	0	20.10	20.23	20.03	22.0	0.0		
100	QPSK	135	69	20.27	20.31	20.17	22.0	0.0		
100	QPSK	135	138	20.05	20.20	20.25	22.0	0.0		
100	QPSK	270	0	20.17	20.25	20.12	22.0	0.0		
100	8QAM	1	1	20.16	20.29	20.22	22.0	0.0		
100	8QAM	1	1	20.12	20.13	20.15	22.0	0.0		
100	256QAM	1	1	20.12	20.10	20.03	22.0	0.0		
Channel										
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	3742.02	3840	3923.01	22.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3740.01	3840	3949.02	22.0	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	3729	3840	3945	22.0	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	3724	3840	3960	22.0	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3722	3840	3955.02	22.0	0.0		
Channel										
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3720	3840	3960	22.0	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	3717	3840	3975	22.0	0.0		
Channel										
Frequency (MHz)				647334	650000	650000	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3712.5	3840	3987.5	22.0	0.0		
Channel										
Frequency (MHz)				647000	650000	650000	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3710.01	3840	3970.02	22.0	0.0		
Channel										
Frequency (MHz)				646668	650000	654834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	3707.52	3840	3972.51	22.0	0.0		
Channel										
Frequency (MHz)				646334	650000	650000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	3705	3840	3975	22.0	0.0		

Part27Q n77 Main PA Ant6 DS1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)						3500.01				
100	PI2 BPSK	1	1			17.59				
100	PI2 BPSK	1	137			17.54			19.0	0.0
100	PI2 BPSK	1	271			17.41				
100	PI2 BPSK	135	0			17.52			19.0	0.0
100	PI2 BPSK	135	69			17.51			19.0	0.0
100	PI2 BPSK	135	138			17.38			19.0	0.0
100	PI2 BPSK	270	0			17.63				
100	QPSK	1	1			17.74				
100	QPSK	1	137			17.58			19.0	0.0
100	QPSK	1	271			17.32				
100	QPSK	135	0			17.32			19.0	0.0
100	QPSK	135	69			17.60			19.0	0.0
100	QPSK	135	138			17.49			19.0	0.0
100	QPSK	270	0			17.50			19.0	0.0
100	8QAM	1	1			17.23			19.0	0.0
100	8QAM	1	1			17.13			19.0	0.0
100	256QAM	1	1			17.24			19.0	0.0
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	3495	3500.01	3503.02	19.0	0.0		
Channel										
Frequency (MHz)				633668	633334	633000	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3490.02	3500.01	3510	19.0	0.0		
Channel										
Frequency (MHz)				633334	633334	633334	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	3473	3474	3475	19.0	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	3470	3500.01	3503.02	19.0	0.0		
Channel										
Frequency (MHz)				632668	633334	633000	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3475.02	3500.01	3525	19.0	0.0		
Channel										
Frequency (MHz)				633334	633334	633334	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3470.01	3500.01	3520.01	19.0	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	3465	3500.01	3503.02	19.0	0.0		
Channel										
Frequency (MHz)				632668	633334	633000	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3462.51	3500.01	3537.51	19.0	0.0		
Channel										
Frequency (MHz)				633334	633334	633334	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3457.52	3500.01	3537.52	19.0	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	3453	3500.01	3523.02	19.0	0.0		
Channel										
Frequency (MHz)				633334	633334	633334	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	3450.01	3500.01	3545.01	19.0	0.0		



Part27Q n77 PC2 Main PA Ant6 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3500.01					
100	PI2 BPSK	1	1	20.54					
100	PI2 BPSK	1	137	20.46			22.0	0.0	
100	PI2 BPSK	1	271	20.41					
100	PI2 BPSK	135	0	20.54			22.0	0.0	
100	PI2 BPSK	135	69	20.29			22.0	0.0	
100	PI2 BPSK	135	138	20.42					
100	PI2 BPSK	270	0	20.46			22.0	0.0	
100	QPSK	1	1	20.59					
100	QPSK	1	137	20.38			22.0	0.0	
100	QPSK	1	271	20.36					
100	QPSK	135	0	20.37			22.0	0.0	
100	QPSK	135	69	20.52			22.0	0.0	
100	QPSK	135	138	20.28			22.0	0.0	
100	QPSK	270	0	20.48			22.0	0.0	
100	8QAM	1	1	20.57			22.0	0.0	
100	8QAM	1	1	20.14			22.0	0.0	
100	256QAM	1	1	20.05			22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	633000	633334	633668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3426	3500.01	3523.02	limit (dBm)		22.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3500.01	3510	limit (dBm)		22.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.33	20.37	20.18	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3485.01	3500.01	3515.01	limit (dBm)		22.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.46	20.37	20.33	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3450	3500.01	3523.02	limit (dBm)		22.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3476.02	3500.01	3525	limit (dBm)		22.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	3470.01	3500.01	3530.01	limit (dBm)		22.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.49	20.50	20.15	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	636668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3426	3500.01	3523.02	limit (dBm)		22.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	636834	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3482.51	3500.01	3537.51	limit (dBm)		22.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.49	20.43	20.20	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	637000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3450.02	3500.01	3540	limit (dBm)		22.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.38	20.53	20.23	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	638168	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3427.5	3500.01	3523.02	limit (dBm)		22.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	638334	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3458.01	3500.01	3548.01	limit (dBm)		22.0

Part27O n78 Main PA Ant6 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	1	18.00					
100	PI2 BPSK	1	137	17.95			19.0	0.0	
100	PI2 BPSK	1	271	17.79					
100	PI2 BPSK	135	0	17.87			19.0	0.0	
100	PI2 BPSK	135	69	18.00			19.0	0.0	
100	PI2 BPSK	135	138	17.86					
100	PI2 BPSK	270	0	17.85			19.0	0.0	
100	QPSK	1	1	18.15					
100	QPSK	1	137	17.91			19.0	0.0	
100	QPSK	1	271	18.00					
100	QPSK	135	0	17.93			19.0	0.0	
100	QPSK	135	69	17.98			19.0	0.0	
100	QPSK	135	138	17.84			19.0	0.0	
100	QPSK	270	0	17.92			19.0	0.0	
100	8QAM	1	1	17.92			19.0	0.0	
100	8QAM	1	1	17.46			19.0	0.0	
100	256QAM	1	1	17.07			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3742.02	3750	3763.01	limit (dBm)		19.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	limit (dBm)		19.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.84	18.01	17.77	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3740.02	3750	3763.01	limit (dBm)		19.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	648000	650000	651000	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3735	3750	3765	limit (dBm)		19.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3726.01	3750	3735.02	limit (dBm)		19.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3720	3750	3760	limit (dBm)		19.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	647000	650000	652500	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3712.5	3750	3787.5	limit (dBm)		19.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	647334	650000	652668	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3717.3	3780	3771	limit (dBm)		19.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	647168	650000	652834	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3710.01	3750	3760.02	limit (dBm)		19.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	647000	650000	653000	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3705	3750	3795	limit (dBm)		19.0

Part27O n78 PC2 Main PA Ant6 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	1	20.54					
100	PI2 BPSK	1	137	20.74			22.0	0.0	
100	PI2 BPSK	1	271	20.77					
100	PI2 BPSK	135	0	20.80			22.0	0.0	
100	PI2 BPSK	135	69	20.59			22.0	0.0	
100	PI2 BPSK	135	138	20.77					
100	PI2 BPSK	270	0	20.80			22.0	0.0	
100	QPSK	1	1	21.00					
100	QPSK	1	137	20.93			22.0	0.0	
100	QPSK	1	271	20.76					
100	QPSK	135	0	20.75			22.0	0.0	
100	QPSK	135	69	20.91			22.0	0.0	
100	QPSK	135	138	20.75			22.0	0.0	
100	QPSK	270	0	20.82			22.0	0.0	
100	8QAM	1	1	20.73			22.0	0.0	
100	8QAM	1	1	20.36			22.0	0.0	
100	256QAM	1	1	20.37			22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3742.02	3750	3763.01	limit (dBm)		22.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	limit (dBm)		22.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.78	20.85	20.79	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3740.02	3750	3763.01	limit (dBm)		22.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	648000	650000	651000	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3735	3750	3765	limit (dBm)		22.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3726.01	3750	3735.02	limit (dBm)		22.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)	



Part27Q n78 Main PA Ant6 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.29	3000.01				
100	PI2 BPSK	1	137	17.81			19.0	0.0	
100	PI2 BPSK	1	271	17.81					
100	PI2 BPSK	135	0	17.88			19.0	0.0	
100	PI2 BPSK	135	69	17.85			19.0	0.0	
100	PI2 BPSK	135	138	17.88					
100	PI2 BPSK	270	0	17.85			19.0	0.0	
100	QPSK	1	1	18.10					
100	QPSK	1	137	18.00			19.0	0.0	
100	QPSK	1	271	17.84					
100	QPSK	135	0	18.02			19.0	0.0	
100	QPSK	135	69	18.08			19.0	0.0	
100	QPSK	135	138	17.70			19.0	0.0	
100	QPSK	270	0	17.62			19.0	0.0	
100	16QAM	1	1	17.66			19.0	0.0	
100	64QAM	1	1	17.54			19.0	0.0	
100	256QAM	1	1	17.59			19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.300	63334	63968	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.02	17.90	17.92	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63468	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3490	3500.01	3520.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63168	63334	63500	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3475.02	3500.01	3525	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.05	18.07	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63100	63334	63568	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3495.01	3500.01	3535.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.03	18.06	18.01	19.0	0.0	

Part27Q n78 PC2 Main PA Ant6 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.01	3000.01				
100	PI2 BPSK	1	137	20.99			22.0	0.0	
100	PI2 BPSK	1	271	20.93					
100	PI2 BPSK	135	0	21.02			22.0	0.0	
100	PI2 BPSK	135	69	21.00			22.0	0.0	
100	PI2 BPSK	135	138	21.04					
100	PI2 BPSK	270	0	21.04			22.0	0.0	
100	QPSK	1	1	21.21					
100	QPSK	1	137	21.08			22.0	0.0	
100	QPSK	1	271	20.98					
100	QPSK	135	0	21.08			22.0	0.0	
100	QPSK	135	69	21.13			22.0	0.0	
100	QPSK	135	138	21.03			22.0	0.0	
100	QPSK	270	0	21.06			22.0	0.0	
100	16QAM	1	1	20.73			22.0	0.0	
100	64QAM	1	1	20.33			22.0	0.0	
100	256QAM	1	1	20.41			22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63334	63968	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.01	21.09	20.98	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63468	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3490	3500.01	3520.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63168	63334	63500	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3475.02	3500.01	3525	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.14	21.18	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63100	63334	63568	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3495.01	3500.01	3535.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.02	21.17	20.95	22.0	0.0	



Part270 n77 Main PA Ant7 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	16.16	16.38	16.33			
100	PI2 BPSK	1	137	16.08	16.37	16.25	18.0	0.0	
100	PI2 BPSK	1	271	16.08	16.25	16.17			
100	PI2 BPSK	135	0	16.30	16.16	16.10	18.0	0.0	
100	PI2 BPSK	135	69	16.33	16.34	16.30	18.0	0.0	
100	PI2 BPSK	135	138	16.13	16.22	16.06			
100	PI2 BPSK	270	0	16.20	16.25	16.24	18.0	0.0	
100	QPSK	1	1	16.22	16.46	16.31			
100	QPSK	1	137	16.10	16.25	16.24	18.0	0.0	
100	QPSK	1	271	16.10	16.31	16.14			
100	QPSK	135	0	16.17	16.23	16.31	18.0	0.0	
100	QPSK	135	69	16.28	16.38	16.32	18.0	0.0	
100	QPSK	135	138	16.19	16.18	16.12	18.0	0.0	
100	QPSK	270	0	16.27	16.32	16.15	18.0	0.0	
100	8QAM	1	1	16.16	16.26	16.15	18.0	0.0	
100	8QAM	1	1	16.16	16.14	16.18	18.0	0.0	
100	256QAM	1	1	16.14	16.39	16.43	18.0	0.0	
Channel									
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.05	16.13	16.11	18.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.19	16.23	16.13	18.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.19	16.28	16.12	18.0	0.0	
Channel									
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.10	16.16	16.25	18.0	0.0	
Channel									
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.05	16.21	16.31	18.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.10	16.24	16.26	18.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.11	16.10	16.27	18.0	0.0	
Channel									
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.08	16.06	16.21	18.0	0.0	
Channel									
Frequency (MHz)				647900	650000	654000	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.02	16.05	16.21	18.0	0.0	
Channel									
Frequency (MHz)				647900	650000	654000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.03	16.19	16.16	18.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.14	16.23	16.15	18.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.15	16.05	16.13	18.0	0.0	

Part270 n77 PC2 Main PA Ant7 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	19.22	19.22	19.17			
100	PI2 BPSK	1	137	19.17	19.22	19.28	21.0	0.0	
100	PI2 BPSK	1	271	19.14	19.19	19.17			
100	PI2 BPSK	135	0	19.14	19.23	19.28	21.0	0.0	
100	PI2 BPSK	135	69	19.19	19.31	19.06	21.0	0.0	
100	PI2 BPSK	135	138	19.33	19.19	19.34			
100	PI2 BPSK	270	0	19.10	19.22	19.28	21.0	0.0	
100	QPSK	1	1	19.23	19.36	19.13			
100	QPSK	1	137	19.16	19.26	19.11	21.0	0.0	
100	QPSK	1	271	19.08	19.23	19.21			
100	QPSK	135	0	19.23	19.20	19.23	21.0	0.0	
100	QPSK	135	69	19.12	19.34	19.21	21.0	0.0	
100	QPSK	135	138	19.12	19.12	19.14	21.0	0.0	
100	QPSK	270	0	19.04	19.27	19.17	21.0	0.0	
100	8QAM	1	1	19.16	19.26	19.34	21.0	0.0	
100	8QAM	1	1	19.07	19.23	19.30	21.0	0.0	
100	256QAM	1	1	19.26	19.34	19.30	21.0	0.0	
Channel									
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.20	19.16	19.03	21.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.19	19.28	19.12	21.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.18	19.28	19.12	21.0	0.0	
Channel									
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.18	19.29	19.06	21.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.35	19.35	19.02	21.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.24	19.24	19.00	21.0	0.0	
Channel									
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.28	19.12	19.05	21.0	0.0	
Channel									
Frequency (MHz)				647900	650000	654000	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	19.26	19.21	19.03	21.0	0.0	
Channel									
Frequency (MHz)				647900	650000	654000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.08	19.19	19.10	21.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.11	19.29	19.16	21.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.23	19.30	19.06	21.0	0.0	

Part27Q n77 Main PA Ant7 DS1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)						3500.01			
100	PI2 BPSK	1	1			16.49			
100	PI2 BPSK	1	137			16.38	18.0	0.0	
100	PI2 BPSK	1	271			16.31			
100	PI2 BPSK	135	0			16.22	18.0	0.0	
100	PI2 BPSK	135	69			16.34	18.0	0.0	
100	PI2 BPSK	135	138			16.16	18.0	0.0	
100	PI2 BPSK	270	0			16.24	18.0	0.0	
100	QPSK	1	1			16.51			
100	QPSK	1	137			16.35	18.0	0.0	
100	QPSK	1	271			16.52			
100	QPSK	135	0			16.13	18.0	0.0	
100	QPSK	135	69			16.39	18.0	0.0	
100	QPSK	135	138			16.30	18.0	0.0	
100	QPSK	270	0			16.22	18.0	0.0	
100	8QAM	1	1			16.21	18.0	0.0	
100	8QAM	1	1			16.20	18.0	0.0	
100	256QAM	1	1			16.32	18.0	0.0	
Channel									
Frequency (MHz)				639000	633334	636668	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.12	16.26	16.37	18.0	0.0	
Channel									
Frequency (MHz)				639668	633334	639000	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.22	16.24	16.31	18.0	0.0	
Channel									
Frequency (MHz)				639334	633334	639334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.17	16.28	16.42	18.0	0.0	
Channel									
Frequency (MHz)				639000	633334	636668	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.21	16.22	16.48	18.0	0.0	
Channel									
Frequency (MHz)				631668	633334	639000	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.05	16.22	16.325	18.0	0.0	
Channel									
Frequency (MHz)				6370.01	3500.01	3537.51	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.14	16.27	16.30	18.0	0.0	
Channel									
Frequency (MHz)				631000	633334	636668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.19	16.23	16.45	18.0	0.0	
Channel									
Frequency (MHz)				630834	633334	636834	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.08	16.37	16.38	18.0	0.0	
Channel									
Frequency (MHz)				630568	633334	639000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.16	16.36	16.42	18.0	0.0	
Channel									
Frequency (MHz)				639500	633334	636168	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.20	16.29	16.35	18.0	0.0	
Channel									
Frequency (MHz)				639334	633334	639334	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.15	16.36	16.30	18.0	0.0	



Part27Q n77 PC2 Main PA Ant7 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3500.01					
100	PI2 BPSK	1	1	19.24					
100	PI2 BPSK	1	137	19.14			21.0	0.0	
100	PI2 BPSK	1	271	19.17					
100	PI2 BPSK	135	0	19.19			21.0	0.0	
100	PI2 BPSK	135	69	19.29			21.0	0.0	
100	PI2 BPSK	135	138	19.16					
100	PI2 BPSK	270	0	19.20			21.0	0.0	
100	QPSK	1	1	19.43					
100	QPSK	1	137	19.16			21.0	0.0	
100	QPSK	1	271	19.24					
100	QPSK	135	0	19.22			21.0	0.0	
100	QPSK	135	69	19.26			21.0	0.0	
100	QPSK	135	138	19.12			21.0	0.0	
100	QPSK	270	0	19.24			21.0	0.0	
100	8QAM	1	1	19.37			21.0	0.0	
100	8QAM	1	1	19.26			21.0	0.0	
100	256QAM	1	1	19.16			21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	633000	633334	633668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3450	3500.01	3550.02	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.30	19.12	19.07	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3500.01	3510	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.34	19.08	19.10	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632834	633334	633834	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.34	19.05	19.14	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	633668	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3450	3500.01	3550.02	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.37	19.08	19.14	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	633000	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3476.02	3500.01	3525	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.32	19.07	19.03	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	633834	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	3500.01	3530.01	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.38	19.05	19.05	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	633668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3450	3500.01	3550.02	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.33	19.10	19.14	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	633834	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3462.51	3500.01	3537.51	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	19.24	19.07	19.19	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	633000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3450.02	3500.01	3540	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.22	19.14	19.01	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	633668	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3450	3500.01	3542.52	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.29	19.12	19.14	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	633334	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3458.01	3500.01	3545.01	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.27	19.05	19.11	21.0	0.0	

Part27O n78 Main PA Ant7 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	1	16.79					
100	PI2 BPSK	1	137	16.82			18.0	0.0	
100	PI2 BPSK	1	271	16.84					
100	PI2 BPSK	135	0	16.72			18.0	0.0	
100	PI2 BPSK	135	69	16.73			18.0	0.0	
100	PI2 BPSK	135	138	16.56					
100	PI2 BPSK	270	0	16.71			18.0	0.0	
100	QPSK	1	1	16.93					
100	QPSK	1	137	16.71			18.0	0.0	
100	QPSK	1	271	16.82					
100	QPSK	135	0	16.84			18.0	0.0	
100	QPSK	135	69	16.87			18.0	0.0	
100	QPSK	135	138	16.69			18.0	0.0	
100	QPSK	270	0	16.80			18.0	0.0	
100	8QAM	1	1	16.84			18.0	0.0	
100	8QAM	1	1	16.41			18.0	0.0	
100	256QAM	1	1	16.75			18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3742.02	3750	3760.01	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.72	16.90	16.93	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.73	16.71	16.68	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	649000	650000	651000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3735	3750	3765	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.70	16.81	16.57	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3742.02	3750	3760.01	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.74	16.82	16.70	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3732.01	3750	3762.02	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.75	16.90	16.58	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3720	3750	3780	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.82	16.71	16.70	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3742.02	3750	3762.01	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.70	16.89	16.76	18.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647500	650000	652500	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3742.5	3750	3787.5	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.78	16.74	16.73	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652668	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3740.01	3750	3790.02	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.85	16.82	16.69	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3742.02	3750	3762.51	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.72	16.74	16.62	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3705	3750	3795	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.76	16.77	16.71	18.0	0.0	

Part27O n78 PC2 Main PA Ant7 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	1	19.87					
100	PI2 BPSK	1	137	19.87			21.0	0.0	
100	PI2 BPSK	1	271	19.85					
100	PI2 BPSK	135	0	19.82			21.0	0.0	
100	PI2 BPSK	135	69	19.80			21.0	0.0	
100	PI2 BPSK	135	138	19.57					
100	PI2 BPSK	270	0	19.81			21.0	0.0	
100	QPSK	1	1	19.97					
100	QPSK	1	137	19.78			21.0	0.0	
100	QPSK	1	271	19.84					
100	QPSK	135	0	19.89			21.0	0.0	
100	QPSK	135	69	19.87			21.0	0.0	
100	QPSK	135	138	19.74			21.0	0.0	
100	QPSK	270	0	19.83			21.0	0.0	
100	8QAM	1	1	19.99			21.0	0.0	
100	8QAM	1	1	19.40					



Part27Q n78 Main PA Ant7 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.29				
100	PI2 BPSK	1	137		17.11		18.0	0.0	
100	PI2 BPSK	1	271		16.98				
100	PI2 BPSK	135	0		18.93		18.0	0.0	
100	PI2 BPSK	135	69		17.15		18.0	0.0	
100	PI2 BPSK	135	138		16.82		18.0	0.0	
100	PI2 BPSK	270	0		16.92				
100	QPSK	1	1		17.35				
100	QPSK	1	137		18.91		18.0	0.0	
100	QPSK	1	271		17.24				
100	QPSK	135	0		17.00		18.0	0.0	
100	QPSK	135	69		17.17		18.0	0.0	
100	QPSK	135	138		17.08		18.0	0.0	
100	QPSK	270	0		17.08				
100	16QAM	1	1		17.03		18.0	0.0	
100	64QAM	1	1		16.73		18.0	0.0	
100	256QAM	1	1		17.12		18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.3000	63.3334	63.3668	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495.02	3500.01	3505.02	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3486.01	3500.01	3515.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3477.01	3500.01	3530.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3468.01	3500.01	3540.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3459.01	3500.01	3550.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3450.01	3500.01	3560.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3442.51	3500.01	3575.51	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3435.01	3500.01	3590.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3427.51	3500.01	3605.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3420.01	3500.01	3620.01	tune-up limit (dBm)	MFR (dB)	

Part27Q n78 PC2 Main PA Ant7 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		19.27				
100	PI2 BPSK	1	137		19.92		21.0	0.0	
100	PI2 BPSK	1	271		19.97				
100	PI2 BPSK	135	0		19.99		21.0	0.0	
100	PI2 BPSK	135	69		19.95		21.0	0.0	
100	PI2 BPSK	135	138		19.74		21.0	0.0	
100	PI2 BPSK	270	0		19.99				
100	QPSK	1	1		20.06				
100	QPSK	1	137		19.80		21.0	0.0	
100	QPSK	1	271		19.88				
100	QPSK	135	0		19.65		21.0	0.0	
100	QPSK	135	69		19.98		21.0	0.0	
100	QPSK	135	138		19.85		21.0	0.0	
100	QPSK	270	0		19.90				
100	16QAM	1	1		19.74		21.0	0.0	
100	64QAM	1	1		19.58		21.0	0.0	
100	256QAM	1	1		19.88		21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63.3000	63.3334	63.3668	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495.02	3500.01	3505.02	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3486.01	3500.01	3515.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3477.01	3500.01	3530.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3468.01	3500.01	3540.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3459.01	3500.01	3550.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3450.01	3500.01	3560.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3442.51	3500.01	3575.51	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3435.01	3500.01	3590.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3427.51	3500.01	3605.01	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3420.01	3500.01	3620.01	tune-up limit (dBm)	MFR (dB)	



### DSI 3 Power for FR1 Main PA

n5 Main PA Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	24.48	24.57	24.51		
20	PI/2 BPSK	1	53	24.41	24.51	24.38	25.5	0.0
20	PI/2 BPSK	1	104	24.33	24.46	24.39		
20	PI/2 BPSK	50	0	24.16	24.21	24.15	25.0	0.5
20	PI/2 BPSK	50	28	24.54	24.59	24.51	25.5	0.0
20	PI/2 BPSK	50	56	24.12	24.21	24.17		
20	PI/2 BPSK	100	0	24.13	24.18	24.10	25.0	0.5
20	QPSK	1	1	24.52	24.63	24.48		
20	QPSK	1	53	24.43	24.53	24.41	25.5	0.0
20	QPSK	1	104	24.37	24.46	24.33		
20	QPSK	50	0	23.65	23.71	23.61	24.5	1.0
20	QPSK	50	28	24.56	24.61	24.54	25.5	0.0
20	QPSK	50	56	23.49	23.62	23.53		
20	QPSK	100	0	23.60	23.66	23.52	24.5	1.0
20	16QAM	1	1	23.28	23.34	23.31	24.5	1.0
20	64QAM	1	1	21.84	21.93	21.83	23.0	2.5
20	256QAM	1	1	20.66	20.69	20.61	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.48	24.53	24.44	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.55	24.59	24.40	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.50	24.57	24.49	25.5	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									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.59	23.68	23.55			
20	PI2 BPSK	1	53	23.61	23.66	23.55	25.5	0.0	
20	PI2 BPSK	1	104	23.56	23.61	23.57			
20	PI2 BPSK	50	0	23.23	23.31	23.22	25.0	0.5	
20	PI2 BPSK	50	28	23.58	23.65	23.58	25.5	0.0	
20	PI2 BPSK	50	56	23.20	23.27	23.14			
20	PI2 BPSK	100	0	23.20	23.33	23.25	25.0	0.5	
20	QPSK	1	1	23.68	23.73	23.64			
20	QPSK	1	53	23.53	23.65	23.55	25.5	0.0	
20	QPSK	1	104	23.60	23.66	23.54			
20	QPSK	50	0	22.68	22.83	22.75	24.5	1.0	
20	QPSK	50	28	23.56	23.66	23.60	25.5	0.0	
20	QPSK	50	56	22.84	22.77	22.70	24.5	1.0	
20	QPSK	100	0	22.76	22.81	22.70	24.5	1.0	
20	6QAM	1	1	22.57	22.64	22.52	24.5	1.0	
20	6QAM	1	1	21.15	21.28	21.22	23.0	2.5	
20	25QAM	1	1	19.58	19.72	19.62	21.0	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	166300	167300	168300	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	831.5	836.5	841.5	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	826.5	836.5	846.5	time-up limit (dBm)	MPR (dB)	

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									
Frequency (MHz)									
50	PI2 BPSK	1	1	23.19	23.32	23.15			
50	PI2 BPSK	1	135	23.14	23.20	23.17	24.0	0.0	
50	PI2 BPSK	1	268	23.16	23.19	23.06			
50	PI2 BPSK	135	0	22.82	22.98	22.88	23.5	0.5	
50	PI2 BPSK	135	68	23.23	23.29	23.16	24.0	0.0	
50	PI2 BPSK	135	135	22.83	22.89	22.87	23.5	0.5	
50	PI2 BPSK	270	0	22.84	22.95	22.84			
50	QPSK	1	1	23.27	23.33	23.25			
50	QPSK	1	135	23.06	23.19	23.13	24.0	0.0	
50	QPSK	1	268	23.07	23.16	23.13			
50	QPSK	135	0	22.37	22.36	22.36	23.0	1.0	
50	QPSK	135	68	23.17	23.26	23.21	24.0	0.0	
50	QPSK	135	135	22.24	22.31	22.25	23.0	1.0	
50	QPSK	270	0	22.28	22.40	22.31	23.0	1.0	
50	6QAM	1	1	22.02	22.06	22.00	23.0	1.0	
50	6QAM	1	1	20.53	20.59	20.48	21.5	2.5	
50	25QAM	1	1	19.27	19.34	19.20	19.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	504000	507000	510000	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2520	2535	2550	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	2512.5	2535	2557.5	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.17	23.19	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.15	23.30	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.22	23.22	23.21	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.17	23.28	23.10	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									
Frequency (MHz)									
45	PI2 BPSK	1	1	22.19	22.24	22.15			
45	PI2 BPSK	1	120	22.10	22.18	22.06	24.0	0.0	
45	PI2 BPSK	1	243	22.11	22.13	22.09			
45	PI2 BPSK	120	0	21.78	21.86	21.79	23.5	0.5	
45	PI2 BPSK	120	60	22.17	22.24	22.08	24.0	0.0	
45	PI2 BPSK	120	120	21.74	21.79	21.84	23.5	0.5	
45	PI2 BPSK	240	0	21.78	21.80	21.76			
45	QPSK	1	1	22.24	22.30	22.20			
45	QPSK	1	120	22.05	22.14	22.10	24.0	0.0	
45	QPSK	1	243	22.13	22.16	22.07			
45	QPSK	120	0	21.27	21.29	21.24	23.0	1.0	
45	QPSK	120	60	22.17	22.22	22.19	24.0	0.0	
45	QPSK	120	120	21.06	21.19	21.13	23.0	1.0	
45	QPSK	240	0	21.14	21.21	21.16	23.0	1.0	
45	6QAM	1	1	21.09	21.18	21.13	23.0	1.0	
45	6QAM	1	1	19.73	19.81	19.81	21.5	2.5	
45	25QAM	1	1	18.20	18.27	18.20	19.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	349000	349000	350000	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
35	QPSK	1	1	1745	1745	1760	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	1722.5	1745	1765	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.19	22.25	22.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.12	22.19	22.17	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	1770	1745	1770	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	1772.5	1745	1765	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1772.5	1745	1777.5	time-up limit (dBm)	MPR (dB)	



n38 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	23.54	23.85	23.77			
40	PI2 BPSK	1	53	23.68	23.83	23.70	25.0	0.0	
40	PI2 BPSK	1	104	23.55	23.71	23.56			
40	PI2 BPSK	50	0	23.37	23.42	23.27	24.5	0.5	
40	PI2 BPSK	50	28	23.81	23.83	23.74	25.0	0.0	
40	PI2 BPSK	50	56	23.27	23.39	23.26			
40	PI2 BPSK	100	0	23.29	23.38	23.37	24.5	0.5	
40	QPSK	1	1	23.80	23.91	23.81			
40	QPSK	1	53	23.78	23.87	23.80	25.0	0.0	
40	QPSK	1	104	23.80	23.76	23.62			
40	QPSK	50	0	22.74	22.94	22.83	24.0	1.0	
40	QPSK	50	28	23.72	23.87	23.76	25.0	0.0	
40	QPSK	50	56	22.79	22.91	22.86			
40	QPSK	100	0	22.89	23.00	22.92	24.0	1.0	
40	6QAM	1	1	22.72	22.90	22.86	24.0	1.0	
40	6QAM	1	1	21.15	21.30	21.24	22.5	2.5	
40	25QAM	1	1	19.34	19.41	19.43	20.5	4.5	
Channel									
Frequency (MHz)				517002	519000	520998	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.61	23.69	23.64	25.0	0.0	
Channel									
Frequency (MHz)				516504	519000	521496	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.84	23.80	23.73	25.0	0.0	
Channel									
Frequency (MHz)				516000	518000	520000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.90	23.95	23.90	25.0	0.0	
Channel									
Frequency (MHz)				515502	519000	522498	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.73	23.81	23.83	25.0	0.0	
Channel									
Frequency (MHz)				515004	519000	522996	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.83	23.83	23.74	25.0	0.0	

n41 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.58	23.54	23.81			
100	PI2 BPSK	1	137	23.78	23.87	23.81	25.0	0.0	
100	PI2 BPSK	1	271	23.60	23.75	23.64			
100	PI2 BPSK	135	0	23.43	23.47	23.37	24.5	0.5	
100	PI2 BPSK	135	69	23.89	23.93	23.80	25.0	0.0	
100	PI2 BPSK	135	138	23.34	23.46	23.38			
100	PI2 BPSK	270	0	23.40	23.51	23.45	24.5	0.5	
100	QPSK	1	1	23.93	23.98	23.89			
100	QPSK	1	137	23.84	23.93	23.87	25.0	0.0	
100	QPSK	1	271	23.75	23.86	23.76			
100	QPSK	135	0	22.87	22.88	22.87	24.0	1.0	
100	QPSK	135	69	23.78	23.92	23.85	25.0	0.0	
100	QPSK	135	138	22.88	22.97	22.90			
100	QPSK	270	0	22.94	23.07	23.01	24.0	1.0	
100	6QAM	1	1	22.80	22.95	22.91	24.0	1.0	
100	6QAM	1	1	21.28	21.34	21.30	22.5	2.5	
100	25QAM	1	1	19.43	19.56	19.49	20.5	4.5	
Channel									
Frequency (MHz)				508200	518598	528996	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	23.43	23.89	23.81	25.0	0.0	
Channel									
Frequency (MHz)				507204	518598	528996	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	23.84	23.91	23.77	25.0	0.0	
Channel									
Frequency (MHz)				506202	518598	531000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	23.80	23.93	23.88	25.0	0.0	
Channel									
Frequency (MHz)				505200	518598	531996	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	23.90	23.94	23.76	25.0	0.0	
Channel									
Frequency (MHz)				504204	518598	532998	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.89	23.87	23.77	25.0	0.0	
Channel									
Frequency (MHz)				503202	518598	534000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	23.86	23.92	23.75	25.0	0.0	
Channel									
Frequency (MHz)				502200	518598	534996	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.81	23.92	23.74	25.0	0.0	
Channel									
Frequency (MHz)				501204	518598	535998	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.81	23.86	23.83	25.0	0.0	
Channel									
Frequency (MHz)				500202	518598	536996	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.88	23.87	23.76	25.0	0.0	
Channel									
Frequency (MHz)				500200	518598	537000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.85	23.93	23.80	25.0	0.0	

Part270 n77 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3705	3840	3930			
100	PI2 BPSK	1	1	20.51	20.62	20.53			
100	PI2 BPSK	1	137	20.48	20.61	20.49	22.0	0.0	
100	PI2 BPSK	1	271	20.33	20.47	20.40			
100	PI2 BPSK	135	0	20.40	20.53	20.29	22.0	0.0	
100	PI2 BPSK	135	69	20.54	20.65	20.56	22.0	0.0	
100	PI2 BPSK	135	138	20.46	20.45	20.30			
100	PI2 BPSK	270	0	20.45	20.47	20.40	22.0	0.0	
100	QPSK	1	1	20.56	20.67	20.54			
100	QPSK	1	137	20.49	20.54	20.45	22.0	0.0	
100	QPSK	1	271	20.57	20.58	20.58			
100	QPSK	135	0	20.43	20.51	20.43	22.0	0.0	
100	QPSK	135	69	20.49	20.63	20.55	22.0	0.0	
100	QPSK	135	138	20.38	20.44	20.50			
100	QPSK	270	0	20.50	20.56	20.46	22.0	0.0	
100	6QAM	1	1	20.26	20.26	20.27	22.0	0.0	
100	6QAM	1	1	20.04	20.01	20.01	22.0	0.0	
100	25QAM	1	1	18.87	19.07	18.90	20.5	1.5	
Channel									
Frequency (MHz)				649688	650000	662334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	20.48	20.55	20.46	22.0	0.0	
Channel									
Frequency (MHz)				649334	650000	663688	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.42	20.62	20.45	22.0	0.0	
Channel									
Frequency (MHz)				649000	650000	663000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	20.48	20.58	20.51	22.0	0.0	
Channel									
Frequency (MHz)				648668	650000	663334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	20.52	20.53	20.44	22.0	0.0	
Channel									
Frequency (MHz)				648334	650000	663688	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.48	20.59	20.44	22.0	0.0	
Channel									
Frequency (MHz)				648000	650000	663000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.47	20.64	20.50	22.0	0.0	
Channel									
Frequency (MHz)				647668	650000	663334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.42	20.57	20.41	22.0	0.0	
Channel									
Frequency (MHz)				647300	650000	663000	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	20.42	20.59	20.43	22.0	0.0	
Channel									
Frequency (MHz)				647000	650000	662500	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.42	20.53	20.46	22.0	0.0	
Channel									
Frequency (MHz)				646668	650000	662834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.51	20.54	20.42	22.0	0.0	
Channel									
Frequency (MHz)				646300	650000	662500	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.42	20.60	20.41	22.0	0.0	



### Part270 n77 PC2 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								
Frequency (MHz)				3700	3840	3930		
100	PI2 BPSK	1	1	23.45	23.51	23.53		
100	PI2 BPSK	1	137	23.44	23.49	23.41	25.0	0.0
100	PI2 BPSK	1	271	23.34	23.42	23.26		
100	PI2 BPSK	135	0	22.96	23.08	22.96	24.5	0.5
100	PI2 BPSK	135	69	23.33	23.46	23.46	25.0	0.0
100	PI2 BPSK	135	138	22.94	23.03	22.87		
100	PI2 BPSK	270	0	23.02	23.11	23.01	24.5	0.5
100	QPSK	1	1	23.59	23.65	23.56		
100	QPSK	1	137	23.45	23.49	23.44	25.0	0.0
100	QPSK	1	271	23.45	23.53	23.42		
100	QPSK	135	0	22.40	22.50	22.43	24.0	1.0
100	QPSK	135	69	23.47	23.59	23.36	25.0	0.0
100	QPSK	135	138	22.36	22.46	22.41	24.0	1.0
100	QPSK	270	0	22.50	22.53	22.46	24.0	1.0
100	6QAM	1	1	22.15	22.16	22.11	24.0	1.0
100	6QAM	1	1	20.54	20.52	20.96	22.5	2.5
100	25QAM	1	1	18.66	18.83	18.64	20.5	4.5
Channel								
Frequency (MHz)				649688	650000	652334	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.50	23.54	23.52	25.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.51	23.54	23.46	25.0	0.0
Channel								
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.95	23.90	23.95		
70	QPSK	1	1	23.55	23.57	23.42	25.0	0.0
Channel								
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.02	23.40	23.01	25.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.24	23.58	23.53	25.0	0.0
Channel								
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.44	23.53	23.47	25.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.54	23.51	23.49	25.0	0.0
Channel								
Frequency (MHz)				647334	650000	650000	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	23.46	23.50	23.48	25.0	0.0
Channel								
Frequency (MHz)				647000	650000	650000	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.44	23.54	23.49	25.0	0.0
Channel								
Frequency (MHz)				646668	650000	654334	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.53	23.52	23.43	25.0	0.0
Channel								
Frequency (MHz)				646334	650000	650000	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.48	23.62	23.41	25.0	0.0

### Part27Q n77 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								
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		20.53			
100	PI2 BPSK	1	137		20.73		22.0	0.0
100	PI2 BPSK	1	271		20.59			
100	PI2 BPSK	135	0		20.68		22.0	0.0
100	PI2 BPSK	135	69		20.81		22.0	0.0
100	PI2 BPSK	135	138		20.65			
100	PI2 BPSK	270	0		20.63		22.0	0.0
100	QPSK	1	1		20.86			
100	QPSK	1	137		20.69		22.0	0.0
100	QPSK	1	271		20.76			
100	QPSK	135	0		20.04		22.0	0.0
100	QPSK	135	69		20.80		22.0	0.0
100	QPSK	135	138		20.63		22.0	0.0
100	QPSK	270	0		20.70		22.0	0.0
100	6QAM	1	1		20.43		22.0	0.0
100	6QAM	1	1		20.23		22.0	0.0
100	25QAM	1	1		19.21		20.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	34.98	3500.01	3503.02		
90	QPSK	1	1	20.70	20.76	20.94	22.0	0.0
Channel								
Frequency (MHz)				632968	633334	634000	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.74	20.74	20.73	22.0	0.0
Channel								
Frequency (MHz)				632834	633334	634334	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.73	20.76	20.71	22.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	34.90	3500.01	3503.02		
60	QPSK	1	1	20.77	20.83	20.74	22.0	0.0
Channel								
Frequency (MHz)				631968	633334	635000	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	34.76	3500.01	3525		
50	QPSK	1	1	20.76	20.73	20.65	22.0	0.0
Channel								
Frequency (MHz)				631834	633334	635334	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.80	20.82	20.71	22.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	34.95	3500.01	3503.02		
30	QPSK	1	1	20.77	20.80	20.74	22.0	0.0
Channel								
Frequency (MHz)				630834	633334	636334	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	34.62	3500.01	3537.51		
25	QPSK	1	1	20.75	20.76	20.68	22.0	0.0
Channel								
Frequency (MHz)				630668	633334	637000	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.75	20.76	20.65	22.0	0.0
Channel								
Frequency (MHz)				630500	633334	636168	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	34.73	3500.01	3542.52		
15	QPSK	1	1	20.79	20.72	20.69	22.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	34.61	3500.01	3545.01		
10	QPSK	1	1	20.74	20.75	20.62	22.0	0.0

### Part27Q n77 PC2 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								
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		22.59			
100	PI2 BPSK	1	137		23.82		25.0	0.0
100	PI2 BPSK	1	271		23.75			
100	PI2 BPSK	135	0		23.39		24.5	0.5
100	PI2 BPSK	135	69		23.80		25.0	0.0
100	PI2 BPSK	135	138		23.35			
100	PI2 BPSK	270	0		23.47		24.5	0.5
100	QPSK	1	1		23.98			
100	QPSK	1	137		23.80		25.0	0.0
100	QPSK	1	271		23.85			
100	QPSK	135	0		22.81		24.0	1.0
100	QPSK	135	69		23.93		25.0	0.0
100	QPSK	135	138		22.83		24.0	1.0
100	QPSK	270	0		22.88		24.0	1.0
100	6QAM	1	1		22.74		24.0	1.0
100	6QAM	1	1		20.77		22.5	2.5
100	25QAM	1	1		19.19		20.5	4.5
Channel								
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	34.95	3500.01	3503.02		
90	QPSK	1	1	23.93	23.97	23.76	25.0	0.0
Channel								
Frequency (MHz)				632968	633334	634000	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.87	23.90	23.82	25.0	0.0
Channel								
Frequency (MHz)				632834	633334	634334	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.83	23.92	23.73	25.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	34.90	3500.01	3503.02		
60	QPSK	1	1	23.85	23.95	23.83	25.0	0.0
Channel								
Frequency (MHz)				631968	633334	635000	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	34.75	3500.01	3525		
50	QPSK	1	1	23.90	23.89	23.78	25.0	0.0
Channel								
Frequency (MHz)				631834	633334	635334	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.91	23.91	23.81	25.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	34.95	3500.01	3503.02		
30	QPSK	1	1	23.89	23.94	23.82	25.0	0.0
Channel								
Frequency (MHz)				630834	633334	636334	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	34.62	3500.01	3537.51		
25	QPSK	1	1	23.85	23.87	23.83	25.0	0.0
Channel								
Frequency (MHz)				630668	633334	637000	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.87	23.88	23.81	25.0	0.0
Channel								
Frequency (MHz)				630500	633334	636168	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	34.73	3500.01	3542.52		
15	QPSK	1	1	23.92	23.95	23.73	25.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	34.61	3500.01	3545.01		
10	QPSK	1	1	23.88	23.85			



Part270 n78 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	22.19	22.19	22.19			
100	PI2 BPSK	1	137	22.06	22.06	22.06	23.0	0.0	
100	PI2 BPSK	1	271	22.03	22.03	22.03			
100	PI2 BPSK	135	0	21.98	21.98	21.98	23.0	0.0	
100	PI2 BPSK	135	69	22.19	22.19	22.19	23.0	0.0	
100	PI2 BPSK	135	138	22.07	22.07	22.07	23.0	0.0	
100	PI2 BPSK	270	0	22.03	22.03	22.03	23.0	0.0	
100	QPSK	1	1	22.22	22.22	22.22			
100	QPSK	1	137	22.05	22.05	22.05	23.0	0.0	
100	QPSK	1	271	22.09	22.09	22.09			
100	QPSK	135	0	22.07	22.07	22.07	23.0	0.0	
100	QPSK	135	69	22.13	22.13	22.13	23.0	0.0	
100	QPSK	135	138	21.99	21.99	21.99	23.0	0.0	
100	QPSK	270	0	22.10	22.10	22.10	23.0	0.0	
100	16QAM	1	1	22.00	22.00	22.00	23.0	0.0	
100	64QAM	1	1	21.59	21.59	21.59	23.0	0.0	
100	256QAM	1	1	20.57	20.57	20.57	21.5	1.5	
Channel				649698	650000	650334	turn-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
50	QPSK	1	1	22.05	22.16	22.05	23.0	0.0	
Channel				649334	650000	650666	turn-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.09	22.15	21.99	23.0	0.0	
Channel				649090	650000	651000	turn-up limit (dB)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.10	22.09	21.99	23.0	0.0	
Channel				648698	650000	651334	turn-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.24	22.15	22.02	23.0	0.0	
Channel				648334	650000	651666	turn-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.04	22.19	22.07	23.0	0.0	
Channel				648090	650000	652000	turn-up limit (dB)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.04	22.16	22.00	23.0	0.0	
Channel				647698	650000	652334	turn-up limit (dB)	MPR	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.14	22.08	21.97	23.0	0.0	
Channel				647500	650000	652500	turn-up limit (dB)	MPR	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.08	22.11	22.04	23.0	0.0	
Channel				647334	650000	652666	turn-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.06	22.12	22.05	23.0	0.0	
Channel				647198	650000	652834	turn-up limit (dB)	MPR	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.24	22.16	22.03	23.0	0.0	
Channel				647000	650000	653000	turn-up limit (dB)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.08	22.08	21.98	23.0	0.0	

Part270 n78 PC2 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	25.07	25.07	25.07			
100	PI2 BPSK	1	137	25.02	25.02	25.02	26.0	0.0	
100	PI2 BPSK	1	271	24.96	24.96	24.96			
100	PI2 BPSK	135	0	24.70	24.70	24.70	25.5	0.5	
100	PI2 BPSK	135	69	24.99	24.99	24.99	26.0	0.0	
100	PI2 BPSK	135	138	24.50	24.50	24.50	25.5	0.5	
100	PI2 BPSK	270	0	24.54	24.54	24.54			
100	QPSK	1	1	25.11	25.11	25.11			
100	QPSK	1	137	25.01	25.01	25.01	26.0	0.0	
100	QPSK	1	271	25.04	25.04	25.04			
100	QPSK	135	0	24.92	24.92	24.92	25.0	1.0	
100	QPSK	135	69	25.09	25.09	25.09	26.0	0.0	
100	QPSK	135	138	24.95	24.95	24.95	25.0	1.0	
100	QPSK	270	0	23.99	23.99	23.99	25.0	1.0	
100	16QAM	1	1	24.27	24.27	24.27	25.0	1.0	
100	64QAM	1	1	22.20	22.20	22.20	23.5	2.5	
100	256QAM	1	1	20.88	20.88	20.88	21.5	4.5	
Channel				649698	650000	650334	turn-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
50	QPSK	1	1	25.01	24.98	25.00	23.0	0.0	
Channel				649334	650000	650666	turn-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	25.04	24.99	24.90	26.0	0.0	
Channel				649090	650000	651000	turn-up limit (dB)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	24.98	25.03	24.98	26.0	0.0	
Channel				648698	650000	651334	turn-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	24.93	24.98	24.95	23.0	0.0	
Channel				648334	650000	651666	turn-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	25.03	24.98	24.93	26.0	0.0	
Channel				648090	650000	652000	turn-up limit (dB)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	24.94	25.05	24.94	26.0	0.0	
Channel				647698	650000	652334	turn-up limit (dB)	MPR	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	24.97	25.05	24.98	23.0	0.0	
Channel				647500	650000	652500	turn-up limit (dB)	MPR	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	24.94	24.99	24.99	26.0	0.0	
Channel				647334	650000	652666	turn-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	24.94	24.98	24.88	26.0	0.0	
Channel				647198	650000	652834	turn-up limit (dB)	MPR	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	25.02	24.99	24.98	23.0	0.0	
Channel				647000	650000	653000	turn-up limit (dB)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	25.02	25.05	24.94	26.0	0.0	



Part27Q n78 Main PA Ant1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi/2 BPSK	1	1	22.25	3500.01		
100	Pi/2 BPSK	1	137	22.21			23.0
100	Pi/2 BPSK	1	271	22.17			
100	Pi/2 BPSK	135	0	22.09			23.0
100	Pi/2 BPSK	135	69	22.07			23.0
100	Pi/2 BPSK	135	138	22.10			
100	Pi/2 BPSK	270	0	22.29			23.0
100	QPSK	1	1	22.30			
100	QPSK	1	137	22.19			23.0
100	QPSK	1	271	22.17			
100	QPSK	135	0	22.16			23.0
100	QPSK	135	69	22.23			23.0
100	QPSK	135	138	22.07			23.0
100	QPSK	270	0	22.19			23.0
100	16QAM	1	1	22.08			23.0
100	64QAM	1	1	21.85			23.0
100	256QAM	1	1	20.68			21.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.06	633000	633334	633668
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.13	3490.02	3500.01	3510.00
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.13	3485.01	3500.01	3515.01
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.14	632000	633334	634668
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.14	631668	633334	635000
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.12	3475.02	3500.01	3525.00
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.05	631000	633334	635668
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.17	3462.51	3500.01	3537.51
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.10	630500	633334	636168
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.11	3455.01	3500.01	3545.01
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.10	630000	633334	636668

Part27Q n78 PC2 Main PA Ant1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi/2 BPSK	1	1	24.57	3500.01		
100	Pi/2 BPSK	1	137	24.53			28.0
100	Pi/2 BPSK	1	271	24.92			
100	Pi/2 BPSK	135	0	24.80			25.5
100	Pi/2 BPSK	135	69	24.92			26.0
100	Pi/2 BPSK	135	138	24.44			25.5
100	Pi/2 BPSK	270	0	24.48			25.5
100	QPSK	1	1	25.04			
100	QPSK	1	137	24.98			26.0
100	QPSK	1	271	24.96			
100	QPSK	135	0	23.97			25.0
100	QPSK	135	69	24.96			26.0
100	QPSK	135	138	23.90			25.0
100	QPSK	270	0	23.94			25.0
100	16QAM	1	1	23.94			25.0
100	64QAM	1	1	22.10			23.5
100	256QAM	1	1	20.60			21.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	24.88	633000	633334	633668
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.87	3490.02	3500.01	3510.00
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.90	3485.01	3500.01	3515.01
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.99	632000	633334	634668
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.97	631668	633334	635000
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.90	3475.02	3500.01	3525.00
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.90	631000	633334	635668
Channel							
Frequency (MHz)							
25	QPSK	1	1	24.92	3462.51	3500.01	3537.51
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.96	630500	633334	636168
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.96	3455.01	3500.01	3545.01
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.86	630000	633334	636668



n7 Main PA Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 505000	Power Middle Ch. F.Freq. 507000	Power High Ch. F.Freq. 509000	Tune-up limit (dBm)	MPR (dB)
Channel				2525	2535	2545		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	24.82	24.89	24.75		
50	PI2 BPSK	1	135	24.67	24.76	24.71	25.7	0.0
50	PI2 BPSK	1	268	24.49	24.69	24.54		
50	PI2 BPSK	135	0	24.29	24.39	24.28	25.2	0.5
50	PI2 BPSK	135	68	24.79	24.82	24.72	25.7	0.0
50	PI2 BPSK	135	155	24.28	24.24	24.21		
50	PI2 BPSK	270	0	24.28	24.40	24.39	25.2	0.5
50	QPSK	1	1	24.88	24.92	24.83		
50	QPSK	1	135	24.76	24.82	24.78	25.7	0.0
50	QPSK	1	268	24.67	24.73	24.71		
50	QPSK	135	0	23.78	23.91	23.81	24.7	1.0
50	QPSK	135	68	24.72	24.85	24.73	25.7	0.0
50	QPSK	135	135	23.76	23.83	23.81	24.7	1.0
50	QPSK	270	0	23.83	23.99	23.95	24.7	1.0
50	16QAM	1	1	22.71	22.81	22.85	24.7	1.0
50	64QAM	1	1	22.21	22.29	22.28	23.2	2.5
50	256QAM	1	1	20.32	20.49	20.44	21.2	4.5
Channel				504000	507000	510000	tone-up limit (dB)	MPR
Frequency (MHz)				2505	2535	2565		
40	QPSK	1	1	24.75	24.85	24.75	25.7	0.0
Channel				503000	507000	511000	tone-up limit (dB)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	24.74	24.86	24.69	25.7	0.0
Channel				502000	507000	510000	tone-up limit (dB)	MPR
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	24.78	24.80	24.74	25.7	0.0
Channel				502000	507000	512000	tone-up limit (dB)	MPR
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	24.76	24.88	24.72	25.7	0.0
Channel				501500	507000	512500	tone-up limit (dB)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.83	24.77	24.78	25.7	0.0
Channel				501000	507000	513500	tone-up limit (dB)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.84	24.78	24.75	25.7	0.0
Channel				500500	507000	513500	tone-up limit (dB)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	24.81	24.79	24.70	25.7	0.0

n66 Main PA Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. #01000	Power Middle Ch. F.Freq. #01000	Power High Ch. F.Freq. #01000	Tune-up limit (dBm)	MPR (dB)
Channel				22.5	0	22.5		
Frequency (MHz)				22.5	0	22.5		
45	PI2 BPSK	1	1	23.79	23.87	23.75		
45	PI2 BPSK	1	120	23.72	23.81	23.71	24.5	0.0
45	PI2 BPSK	1	243	23.47	23.65	23.55		
45	PI2 BPSK	120	0	23.28	23.40	23.23	24.0	0.5
45	PI2 BPSK	120	60	23.75	23.86	23.66	24.5	0.0
45	PI2 BPSK	120	120	23.28	23.35	23.24	24.0	0.5
45	PI2 BPSK	240	0	23.28	23.45	23.34		
45	QPSK	1	1	23.88	23.90	23.83		
45	QPSK	1	120	23.75	23.79	23.71	24.5	0.0
45	QPSK	1	243	23.59	23.80	23.64		
45	QPSK	120	0	22.71	22.88	22.80	23.5	1.0
45	QPSK	120	60	23.67	23.82	23.72	24.5	0.0
45	QPSK	120	120	22.73	22.88	22.74	23.5	1.0
45	QPSK	240	0	22.85	23.01	22.92	23.5	1.0
45	16QAM	1	1	22.74	22.79	22.81	23.5	1.0
45	64QAM	1	1	21.20	21.20	21.15	22.0	2.5
45	256QAM	1	1	19.30	19.44	19.39	20.0	4.5
Channel				346000	349000	352000	tone-up limit (dB)	MPR
Frequency (MHz)				1730	1745	1750		
40	QPSK	1	1	23.64	23.75	23.69	24.5	0.0
Channel				345000	349000	352000	tone-up limit (dB)	MPR
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	23.76	23.87	23.81	24.5	0.0
Channel				#01000	#01000	#01000	tone-up limit (dB)	MPR
Frequency (MHz)				15	0	-15		
30	QPSK	1	1	23.78	23.81	23.73	24.5	0.0
Channel				#01000	#01000	#01000	tone-up limit (dB)	MPR
Frequency (MHz)				12.5	0	-12.5		
25	QPSK	1	1	23.75	23.85	23.71	24.5	0.0
Channel				#01000	#01000	#01000	tone-up limit (dB)	MPR
Frequency (MHz)				10	0	-10		
20	QPSK	1	1	23.80	23.77	23.77	24.5	0.0
Channel				#01000	#01000	#01000	tone-up limit (dB)	MPR
Frequency (MHz)				7.5	0	-7.5		
15	QPSK	1	1	23.80	23.80	23.76	24.5	0.0
Channel				#01000	#01000	#01000	tone-up limit (dB)	MPR
Frequency (MHz)				5	0	-5		
10	QPSK	1	1	23.82	23.87	23.76	24.5	0.0
Channel				#01000	#01000	#01000	tone-up limit (dB)	MPR
Frequency (MHz)				2.5	0	-2.5		
5	QPSK	1	1	23.72	23.75	23.73	24.5	0.0



n38 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	25.11	25.25	25.21			
40	PI2 BPSK	1	53	25.00	25.12	25.02	25.7	0.0	
40	PI2 BPSK	1	104	24.99	25.02	24.93			
40	PI2 BPSK	50	0	24.71	24.81	24.77	25.2	0.5	
40	PI2 BPSK	50	28	25.16	25.19	25.15	25.7	0.0	
40	PI2 BPSK	50	56	24.64	24.73	24.64			
40	PI2 BPSK	100	0	24.75	24.87	24.74	25.2	0.5	
40	QPSK	1	1	25.20	25.28	25.26			
40	QPSK	1	53	25.09	25.21	25.15	25.7	0.0	
40	QPSK	1	104	25.15	25.16	25.13			
40	QPSK	50	0	24.29	24.34	24.27	24.7	1.0	
40	QPSK	50	28	25.15	25.22	25.11	25.7	0.0	
40	QPSK	50	56	24.26	24.30	24.16	24.7	1.0	
40	QPSK	100	0	24.32	24.41	24.29			
40	16QAM	1	1	24.12	24.22	24.08	24.7	1.0	
40	64QAM	1	1	22.50	22.63	22.56	23.2	2.5	
40	256QAM	1	1	20.73	20.85	20.77	21.2	4.5	
Channel				517002	519000	520998	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2598.01	2599	2604.99			
30	QPSK	1	1	25.10	25.18	25.22	25.7	0.0	
Channel				518504	519000	521496	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2592.02	2595	2607.48			
25	QPSK	1	1	25.10	25.16	25.14	25.7	0.0	
Channel				518000	519000	522000	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	25.15	25.24	25.19	25.7	0.0	
Channel				515502	519000	522498	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2577.01	2595	2612.49			
15	QPSK	1	1	25.05	25.21	25.11	25.7	0.0	
Channel				515004	519000	522996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	25.16	25.26	25.19	25.7	0.0	

n41 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509502	518596	529500			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.20	25.33	25.30			
100	PI2 BPSK	1	137	25.07	25.19	25.18	25.7	0.0	
100	PI2 BPSK	1	271	25.04	25.19	24.99			
100	PI2 BPSK	135	0	24.85	24.90	24.93	25.2	0.5	
100	PI2 BPSK	135	69	25.31	25.24	25.21	25.7	0.0	
100	PI2 BPSK	135	138	24.70	24.65	24.73			
100	PI2 BPSK	270	0	24.88	25.01	24.91	25.2	0.5	
100	QPSK	1	1	25.27	25.38	25.36			
100	QPSK	1	137	25.24	25.37	25.28	25.7	0.0	
100	QPSK	1	271	25.18	25.26	25.18			
100	QPSK	135	0	24.46	24.43	24.41	24.7	1.0	
100	QPSK	135	69	25.20	25.35	25.22	25.7	0.0	
100	QPSK	135	138	24.37	24.39	24.21	24.7	1.0	
100	QPSK	270	0	24.42	24.46	24.44			
100	16QAM	1	1	24.21	24.21	24.14	24.7	1.0	
100	64QAM	1	1	22.64	22.80	22.72	23.2	2.5	
100	256QAM	1	1	20.80	21.00	20.83	21.2	4.5	
Channel				508300	518596	528996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.23	25.29	25.28	25.7	0.0	
Channel				507204	518596	528996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.15	25.32	25.32	25.7	0.0	
Channel				505202	518596	531000	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.18	25.25	25.21	25.7	0.0	
Channel				505200	518596	531996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2525	2592.99	2659.98			
60	QPSK	1	1	25.16	25.24	25.22	25.7	0.0	
Channel				504204	518596	532996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.17	25.30	25.30	25.7	0.0	
Channel				503202	518596	534000	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.23	25.25	25.22	25.7	0.0	
Channel				502200	518596	534996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.14	25.23	25.22	25.7	0.0	
Channel				501204	518596	535996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.22	25.31	25.29	25.7	0.0	
Channel				500700	518596	536996	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2503.05	2592.99	2682.48			
15	QPSK	1	1	25.23	25.28	25.31	25.7	0.0	
Channel				500202	518596	537000	tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	25.15	25.20	25.27	25.7	0.0	



n7 Main PA Ant3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	22.64	22.69	22.55		
50	PI2 BPSK	1	135	22.48	22.59	22.55	24.0	0.0
50	PI2 BPSK	1	268	22.29	22.42	22.27		
50	PI2 BPSK	135	0	22.04	22.18	22.10	23.5	0.5
50	PI2 BPSK	135	68	22.54	22.64	22.54	24.0	0.0
50	PI2 BPSK	135	135	22.05	22.15	22.09		
50	PI2 BPSK	270	0	22.12	22.23	22.09	23.5	0.5
50	QPSK	1	1	22.69	22.74	22.65		
50	QPSK	1	135	22.80	22.67	22.63	24.0	0.0
50	QPSK	1	268	22.35	22.65	22.62		
50	QPSK	135	0	21.82	21.72	21.59	23.0	1.0
50	QPSK	135	68	22.54	22.62	22.58	24.0	0.0
50	QPSK	135	135	21.63	21.73	21.64	23.0	1.0
50	QPSK	270	0	21.65	21.78	21.66	23.0	1.0
50	16QAM	1	1	21.56	21.60	21.55	23.0	1.0
50	64QAM	1	1	20.93	20.07	20.03	21.5	2.5
50	256QAM	1	1	18.18	18.24	18.17	19.5	4.5
Channel								
Frequency (MHz)				50400	50700	51000	limit (dB)	MPR (dB)
40	QPSK	1	1	22.52	22.50	22.55	24.0	0.0
Channel								
Frequency (MHz)				50300	50700	51100	limit (dB)	MPR (dB)
30	QPSK	1	1	22.66	22.66	22.51	24.0	0.0
Channel								
Frequency (MHz)				50250	50700	50750	limit (dB)	MPR (dB)
25	QPSK	1	1	22.62	22.69	22.50	24.0	0.0
Channel								
Frequency (MHz)				50200	50700	51200	limit (dB)	MPR (dB)
20	QPSK	1	1	22.57	22.70	22.60	24.0	0.0
Channel								
Frequency (MHz)				50150	50700	51250	limit (dB)	MPR (dB)
15	QPSK	1	1	22.62	22.61	22.51	24.0	0.0
Channel								
Frequency (MHz)				50100	50700	51300	limit (dB)	MPR (dB)
10	QPSK	1	1	22.55	22.60	22.52	24.0	0.0
Channel								
Frequency (MHz)				50050	50700	51350	limit (dB)	MPR (dB)
5	QPSK	1	1	22.61	22.65	22.57	24.0	0.0

n66 Main PA Ant3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1732.5	1745	1737.5		
45	PI2 BPSK	1	1	21.67	21.71	21.62		
45	PI2 BPSK	1	120	21.60	21.63	21.59	23.5	0.0
45	PI2 BPSK	1	243	21.52	21.59	21.53		
45	PI2 BPSK	120	0	21.06	21.22	21.07	23.0	0.5
45	PI2 BPSK	120	60	21.59	21.70	21.58	23.5	0.0
45	PI2 BPSK	120	120	21.62	21.19	21.12	23.0	0.5
45	PI2 BPSK	240	0	21.16	21.28	21.06		
45	QPSK	1	1	21.70	21.75	21.66		
45	QPSK	1	120	21.58	21.70	21.64	23.5	0.0
45	QPSK	1	243	21.66	21.69	21.68		
45	QPSK	120	0	20.89	20.78	20.97	22.5	1.0
45	QPSK	120	60	21.56	21.67	21.53	23.5	0.0
45	QPSK	120	120	20.60	20.72	20.66	22.5	1.0
45	QPSK	240	0	20.71	20.83	20.70		
45	16QAM	1	1	20.63	20.72	20.62	22.5	1.0
45	64QAM	1	1	19.01	19.05	19.09	21.0	2.5
45	256QAM	1	1	17.19	17.23	17.14	19.0	4.5
Channel								
Frequency (MHz)				34600	34900	35200	limit (dB)	MPR (dB)
40	QPSK	1	1	21.52	21.65	21.63	23.5	0.0
Channel								
Frequency (MHz)				34500	34900	35200	limit (dB)	MPR (dB)
35	QPSK	1	1	21.60	21.71	21.67	23.5	0.0
Channel								
Frequency (MHz)				34400	34900	35300	limit (dB)	MPR (dB)
30	QPSK	1	1	21.60	21.70	21.51	23.5	0.0
Channel								
Frequency (MHz)				34400	34900	35300	limit (dB)	MPR (dB)
25	QPSK	1	1	21.64	21.63	21.62	23.5	0.0
Channel								
Frequency (MHz)				34300	34900	35400	limit (dB)	MPR (dB)
20	QPSK	1	1	21.52	21.64	21.51	23.5	0.0
Channel								
Frequency (MHz)				34200	34900	35400	limit (dB)	MPR (dB)
15	QPSK	1	1	21.62	21.68	21.53	23.5	0.0
Channel								
Frequency (MHz)				34100	34900	35500	limit (dB)	MPR (dB)
10	QPSK	1	1	21.57	21.70	21.59	23.5	0.0
Channel								
Frequency (MHz)				34050	34900	35500	limit (dB)	MPR (dB)
5	QPSK	1	1	21.63	21.60	21.53	23.5	0.0





n38 Main PA Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				51900.02	51900	51999.98			
Frequency (MHz)				23.07	23.22	23.14			
40	PI2 BPSK	1	1	23.07	23.22	23.14		24.5	0.0
40	PI2 BPSK	1	53	23.08	23.17	23.02			
40	PI2 BPSK	1	104	22.92	23.06	23.02			
40	PI2 BPSK	50	0	22.71	22.82	22.71	24.0	0.5	
40	PI2 BPSK	80	28	23.13	23.19	23.14	24.5	0.0	
40	PI2 BPSK	50	56	22.62	22.72	22.59			
40	PI2 BPSK	100	0	22.75	22.84	22.74	24.0	0.5	
40	QPSK	1	1	23.16	23.28	23.22			
40	QPSK	1	83	23.12	23.24	23.14	24.5	0.0	
40	QPSK	1	104	23.17	23.29	23.19			
40	QPSK	50	0	22.31	22.35	22.21	23.5	1.0	
40	QPSK	50	28	23.10	23.21	23.18	24.5	0.0	
40	QPSK	50	56	22.06	22.17	22.06	23.5	1.0	
40	QPSK	100	0	22.23	22.26	22.13			
40	16QAM	1	1	22.13	22.20	22.13	23.5	1.0	
40	64QAM	1	1	20.82	20.85	20.62	22.0	2.5	
40	256QAM	1	1	18.84	18.91	18.87	20.0	4.5	
Channel				517002	519000	520998	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.02	23.25	23.15			
30	QPSK	1	1	23.07	23.25	23.15	24.5	0.0	
Channel				516504	519000	521496	Turn-up limit (dB)	MPR	
Frequency (MHz)				22.92	22.95	22.97			
25	QPSK	1	1	23.03	23.22	23.12	24.5	0.0	
Channel				518000	519000	522000	Turn-up limit (dB)	MPR	
Frequency (MHz)				22.90	22.95	22.90			
20	QPSK	1	1	23.01	23.14	23.12	24.5	0.0	
Channel				515502	519000	522498	Turn-up limit (dB)	MPR	
Frequency (MHz)				22.97	22.95	22.92			
15	QPSK	1	1	23.13	23.19	23.12	24.5	0.0	
Channel				515004	519000	522996	Turn-up limit (dB)	MPR	
Frequency (MHz)				22.95	22.95	22.94			
10	QPSK	1	1	23.11	23.17	23.08	24.5	0.0	

n41 Main PA Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518596	529000			
Frequency (MHz)				23.46	23.92	24.0			
100	PI2 BPSK	1	1	22.97	23.10	23.00			
100	PI2 BPSK	1	137	23.01	23.12	22.98	24.5	0.0	
100	PI2 BPSK	1	271	22.78	23.02	22.90			
100	PI2 BPSK	135	0	22.62	22.70	22.58	24.0	0.5	
100	PI2 BPSK	135	69	23.07	23.10	23.03	24.5	0.0	
100	PI2 BPSK	135	138	22.47	22.59	22.53			
100	PI2 BPSK	270	0	22.68	22.69	22.60	24.0	0.5	
100	QPSK	1	1	23.14	23.19	23.08			
100	QPSK	1	137	23.09	23.14	23.04	24.5	0.0	
100	QPSK	1	271	22.90	23.10	23.05			
100	QPSK	135	0	22.23	22.28	22.13	23.5	1.0	
100	QPSK	135	69	22.99	23.14	23.09	24.5	0.0	
100	QPSK	135	138	21.95	22.09	21.92	23.5	1.0	
100	QPSK	270	0	22.10	22.21	21.98			
100	16QAM	1	1	22.03	22.17	22.05	23.5	1.0	
100	64QAM	1	1	20.50	20.58	20.55	22.0	2.5	
100	256QAM	1	1	18.79	18.86	18.80	20.0	4.5	
Channel				508000	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.41	23.92	24.0			
90	QPSK	1	1	23.06	23.09	23.01	24.5	0.0	
Channel				507204	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.36	23.92	24.0			
80	QPSK	1	1	23.04	23.14	22.93	24.5	0.0	
Channel				506202	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.31	23.92	24.0			
70	QPSK	1	1	23.03	23.10	23.06	24.5	0.0	
Channel				505200	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.26	23.92	24.0			
60	QPSK	1	1	23.07	23.13	22.95	24.5	0.0	
Channel				504204	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.21	23.92	24.0			
50	QPSK	1	1	23.08	23.09	23.03	24.5	0.0	
Channel				503202	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.16	23.92	24.0			
40	QPSK	1	1	23.00	23.08	22.98	24.5	0.0	
Channel				502200	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.11	23.92	24.0			
30	QPSK	1	1	23.11	23.13	23.01	24.5	0.0	
Channel				501204	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.06	23.92	24.0			
20	QPSK	1	1	23.10	23.11	23.02	24.5	0.0	
Channel				500202	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.03	23.92	24.0			
15	QPSK	1	1	23.08	23.07	23.04	24.5	0.0	
Channel				500202	518596	528996	Turn-up limit (dB)	MPR	
Frequency (MHz)				23.01	23.92	24.0			
10	QPSK	1	1	23.04	23.13	22.96	24.5	0.0	



n7 Main PA Ant4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 505000	Power Middle Ch. F.Freq. 507000	Power High Ch. F.Freq. 509000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	21.06	21.21	21.01			
50	PI2 BPSK	1	135	21.07	21.10	20.81	22.0	0.0	
50	PI2 BPSK	1	268	20.80	21.11	20.99			
50	PI2 BPSK	135	0	21.18	21.31	21.22	22.0	0.0	
50	PI2 BPSK	135	68	21.16	21.19	21.20	22.0	0.0	
50	PI2 BPSK	135	155	21.07	21.25	21.05	22.0	0.0	
50	PI2 BPSK	270	0	21.28	21.20	21.25			
50	QPSK	1	1	21.28	21.35	21.29			
50	QPSK	1	135	21.10	21.28	21.15	22.0	0.0	
50	QPSK	1	268	21.25	21.16	21.09			
50	QPSK	135	0	21.28	21.29	21.07	22.0	0.0	
50	QPSK	135	68	21.29	21.33	21.25	22.0	0.0	
50	QPSK	135	135	20.98	21.07	20.85	22.0	0.0	
50	QPSK	270	0	21.25	21.27	21.20			
50	16QAM	1	1	21.16	21.23	21.16	22.0	0.0	
50	64QAM	1	1	21.16	21.27	21.21	22.0	0.0	
50	256QAM	1	1	20.32	20.34	20.46	21.0	1.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.06	21.35	21.00	limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.03	21.24	21.25	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.04	21.10	21.21	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.96	21.13	21.15	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.03	21.16	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.02	21.22	21.17	22.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.10	21.27	21.20	22.0	0.0	

n66 Main PA Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 346500	Power Middle Ch. F.Freq. 349000	Power High Ch. F.Freq. 351500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	23.63	23.72	23.67			
45	PI2 BPSK	1	120	23.47	23.67	23.35	24.5	0.0	
45	PI2 BPSK	1	243	23.39	23.55	23.45			
45	PI2 BPSK	120	0	23.06	23.17	23.20	24.0	0.5	
45	PI2 BPSK	120	60	23.65	23.66	23.56	24.5	0.0	
45	PI2 BPSK	120	120	23.09	23.23	23.88			
45	PI2 BPSK	240	0	23.25	23.24	23.18	24.0	0.5	
45	QPSK	1	1	23.69	23.76	23.72			
45	QPSK	1	120	23.48	23.71	23.59	24.5	0.0	
45	QPSK	1	243	23.84	23.69	23.68			
45	QPSK	120	0	22.74	22.83	22.59	23.5	1.0	
45	QPSK	120	60	23.48	23.65	23.60	24.5	0.0	
45	QPSK	120	120	22.44	22.55	22.47			
45	QPSK	240	0	22.58	22.61	22.52	23.5	1.0	
45	16QAM	1	1	22.63	22.57	22.60	23.5	1.0	
45	64QAM	1	1	20.97	21.17	21.11	22.0	2.5	
45	256QAM	1	1	19.23	19.35	19.33	20.0	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.52	23.71	23.59	limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.64	23.73	23.70	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.60	23.63	23.62	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.68	23.72	23.65	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.57	23.69	23.60	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.54	23.62	23.59	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.58	23.70	23.58	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.55	23.72	23.68	24.5	0.0	



n38 Main PA Ant4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	22.16	22.15	22.28			
40	PI2 BPSK	1	53	22.12	22.10	22.05	22.7	0.0	
40	PI2 BPSK	1	104	22.01	21.99	21.98			
40	PI2 BPSK	50	0	22.15	22.15	22.11	22.7	0.0	
40	PI2 BPSK	80	28	22.18	22.21	22.11	22.7	0.0	
40	PI2 BPSK	50	56	22.09	22.11	22.06			
40	PI2 BPSK	100	0	22.11	22.25	22.23	22.7	0.0	
40	QPSK	1	1	22.37	22.41	22.27			
40	QPSK	1	83	22.26	22.28	22.09	22.7	0.0	
40	QPSK	1	104	22.09	22.02	21.98			
40	QPSK	50	0	22.22	22.32	22.12	22.7	0.0	
40	QPSK	50	28	22.27	22.38	22.33	22.7	0.0	
40	QPSK	50	56	22.06	22.22	22.12	22.7	0.0	
40	QPSK	100	0	22.18	22.27	22.22			
40	16QAM	1	1	22.16	22.14	21.93	22.7	0.0	
40	64QAM	1	1	21.95	22.02	22.11	22.7	0.0	
40	256QAM	1	1	20.91	21.08	20.84	21.2	1.5	
Channel				517002	519000	520998	limit (dB)	MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.13	22.27	22.21	22.7	0.0	
Channel				516504	519000	521496	limit (dB)	MPR	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	22.28	22.37	22.20	22.7	0.0	
Channel				516000	519000	522000	limit (dB)	MPR	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	22.18	22.26	22.06	22.7	0.0	
Channel				515502	519000	522498	limit (dB)	MPR	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.15	22.29	22.17	22.7	0.0	
Channel				515004	519000	522996	limit (dB)	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.22	22.29	22.10	22.7	0.0	

n41 Main PA Ant4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				506002	518998	520000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.90	21.69	21.77			
100	PI2 BPSK	1	137	21.76	21.62	21.62	22.2	0.0	
100	PI2 BPSK	1	271	21.63	21.56	21.56			
100	PI2 BPSK	135	0	21.83	21.81	21.81	22.2	0.0	
100	PI2 BPSK	135	69	21.92	21.80	21.85	22.2	0.0	
100	PI2 BPSK	135	138	21.69	21.74	21.67			
100	PI2 BPSK	270	0	21.78	21.80	21.85	22.2	0.0	
100	QPSK	1	1	21.92	21.96	21.89			
100	QPSK	1	137	21.89	21.86	21.64	22.2	0.0	
100	QPSK	1	271	21.76	21.68	21.72			
100	QPSK	135	9	21.90	21.89	21.75	22.2	0.0	
100	QPSK	135	69	21.79	21.91	21.83	22.2	0.0	
100	QPSK	135	138	21.66	21.75	21.81	22.2	0.0	
100	QPSK	270	0	21.72	21.80	21.77			
100	16QAM	1	1	21.74	21.80	21.48	22.2	0.0	
100	64QAM	1	1	21.70	21.72	21.76	22.2	0.0	
100	256QAM	1	1	21.13	21.19	21.11	21.2	1.0	
Channel				505000	518998	520996	limit (dB)	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.80	21.55	21.54	22.2	0.0	
Channel				507204	518998	520996	limit (dB)	MPR	
Frequency (MHz)				2636.02	2662.99	2649.99			
80	QPSK	1	1	21.72	21.75	21.87	22.2	0.0	
Channel				505002	518998	521000	limit (dB)	MPR	
Frequency (MHz)				2531.01	2592.99	2656			
70	QPSK	1	1	21.71	21.80	21.86	22.2	0.0	
Channel				505000	518998	531996	limit (dB)	MPR	
Frequency (MHz)				2525	2592.99	2639.98			
60	QPSK	1	1	21.79	21.63	21.60	22.2	0.0	
Channel				504204	518998	520996	limit (dB)	MPR	
Frequency (MHz)				2621.02	2662.99	2664.99			
50	QPSK	1	1	21.84	21.95	21.74	22.2	0.0	
Channel				503502	518998	524000	limit (dB)	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.84	21.81	21.90	22.2	0.0	
Channel				502200	518998	534996	limit (dB)	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.90	21.63	21.50	22.2	0.0	
Channel				501204	518998	535996	limit (dB)	MPR	
Frequency (MHz)				2506.02	2662.99	2679.99			
20	QPSK	1	1	21.71	21.74	21.77	22.2	0.0	
Channel				500700	518998	536996	limit (dB)	MPR	
Frequency (MHz)				2503.5	2592.99	2692.48			
15	QPSK	1	1	21.73	21.90	21.79	22.2	0.0	
Channel				500202	518998	537000	limit (dB)	MPR	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	21.75	21.63	21.50	22.2	0.0	



Part270 n77 Main PA Ant5 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	17.58	18.10	18.04				
100	PI2 BPSK	1	137	18.10	18.03	17.89	19.0	0.0		
100	PI2 BPSK	1	271	17.90	17.89	17.78				
100	PI2 BPSK	135	0	17.86	17.84	17.91	19.0	0.0		
100	PI2 BPSK	135	69	18.02	18.08	17.92	19.0	0.0		
100	PI2 BPSK	135	138	17.93	17.98	17.82				
100	PI2 BPSK	270	0	17.84	18.04	17.92	19.0	0.0		
100	QPSK	1	1	18.11	18.25	18.09				
100	QPSK	1	137	17.85	18.03	18.06	19.0	0.0		
100	QPSK	1	271	18.01	18.07	18.11				
100	QPSK	135	0	17.74	17.99	17.83	19.0	0.0		
100	QPSK	135	69	18.19	18.22	17.91	19.0	0.0		
100	QPSK	135	138	17.90	17.82	17.86	19.0	0.0		
100	QPSK	270	0	17.88	18.00	17.86	19.0	0.0		
100	8QAM	1	1	17.59	17.86	17.96	19.0	0.0		
100	8QAM	1	1	17.35	17.58	17.81	19.0	0.0		
100	256QAM	1	1	17.93	18.15	17.83	19.0	0.0		
Channel										
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	17.58	18.17	17.94	19.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	17.81	18.19	17.95	19.0	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	17.95	18.40	18.45	19.0	0.0		
70	QPSK	1	1	17.91	18.13	17.95	19.0	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	17.92	18.40	18.01	19.0	0.0		
60	QPSK	1	1	17.55	18.13	17.99	19.0	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	17.77	18.13	17.83	19.0	0.0		
Channel										
Frequency (MHz)				3720	3840	3960	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	17.82	18.17	17.84	19.0	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	17.82	18.06	18.03	19.0	0.0		
Channel										
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	17.74	18.12	17.94	19.0	0.0		
Channel										
Frequency (MHz)				3712.5	3840	3967.5	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	17.74	18.12	17.94	19.0	0.0		
Channel										
Frequency (MHz)				3710.01	3840	3970.02	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	17.84	18.05	17.95	19.0	0.0		
Channel										
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	17.77	18.11	17.93	19.0	0.0		
Channel										
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	17.94	18.13	18.04	19.0	0.0		

Part270 n77 PC2 Main PA Ant5 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	21.05	21.21	21.16				
100	PI2 BPSK	1	137	21.25	21.07	20.89	22.0	0.0		
100	PI2 BPSK	1	271	21.11	20.99	20.98				
100	PI2 BPSK	135	0	20.94	21.05	21.04	22.0	0.0		
100	PI2 BPSK	135	69	21.03	21.21	21.10	22.0	0.0		
100	PI2 BPSK	135	138	20.99	20.96	20.81				
100	PI2 BPSK	270	0	20.99	21.03	21.10	22.0	0.0		
100	QPSK	1	1	21.30	21.38	21.07				
100	QPSK	1	137	20.94	21.22	21.05	22.0	0.0		
100	QPSK	1	271	21.16	21.21	21.23				
100	QPSK	135	0	20.83	21.00	20.94	22.0	0.0		
100	QPSK	135	69	21.24	21.29	21.09	22.0	0.0		
100	QPSK	135	138	20.99	21.04	20.97	22.0	0.0		
100	QPSK	270	0	21.00	21.20	21.04	22.0	0.0		
100	8QAM	1	1	20.85	20.96	21.15	22.0	0.0		
100	8QAM	1	1	20.53	20.79	20.40	22.0	0.0		
100	256QAM	1	1	20.55	20.67	20.53	21.5	0.5		
Channel										
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	20.98	21.19	20.98	22.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	21.07	21.31	20.98	22.0	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	21.00	21.17	21.07	22.0	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	21.03	18.40	18.01	19.0	0.0		
60	QPSK	1	1	21.01	21.33	21.02	22.0	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	20.97	21.28	21.09	22.0	0.0		
Channel										
Frequency (MHz)				3720	3840	3960	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	20.94	21.20	20.94	22.0	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	21.03	21.25	21.04	22.0	0.0		
Channel										
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	21.08	21.21	21.07	22.0	0.0		
Channel										
Frequency (MHz)				3710.01	3840	3970.02	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	21.01	21.30	21.12	22.0	0.0		
Channel										
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	21.07	21.22	20.97	22.0	0.0		
Channel										
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	21.08	21.32	21.03	22.0	0.0		

Part27Q n77 Main PA Ant5 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)						3500.01				
100	PI2 BPSK	1	1			18.33				
100	PI2 BPSK	1	137			18.27			19.0	0.0
100	PI2 BPSK	1	271			18.24				
100	PI2 BPSK	135	0			17.93			19.0	0.0
100	PI2 BPSK	135	69			18.19			19.0	0.0
100	PI2 BPSK	135	138			18.06			19.0	0.0
100	PI2 BPSK	270	0			18.00				
100	QPSK	1	1			18.34				
100	QPSK	1	137			18.16			19.0	0.0
100	QPSK	1	271			18.03				
100	QPSK	135	0			18.11			19.0	0.0
100	QPSK	135	69			18.29			19.0	0.0
100	QPSK	135	138			17.86			19.0	0.0
100	QPSK	270	0			18.26			19.0	0.0
100	8QAM	1	1			18.05			19.0	0.0
100	8QAM	1	1			17.93			19.0	0.0
100	256QAM	1	1			18.15			19.0	0.0
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	18.23	19.22	19.22	19.0	0.0		
Channel										
Frequency (MHz)				633668	633334	634000	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	18.18	18.26	18.02	19.0	0.0		
Channel										
Frequency (MHz)				634000	633334	634334	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	18.19	18.16	18.08	19.0	0.0		
Channel										
Frequency (MHz)				632000	633334	634668	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	18.16	18.25	18.03	19.0	0.0		
60	QPSK	1	1	18.19	18.16	18.08	19.0	0.0		
Channel										
Frequency (MHz)				631668	633334	635000	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	18.25	18.16	18.20	19.0	0.0		
Channel										
Frequency (MHz)				631334	633334	635334	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	18.24	18.15	18.11	19.0	0.0		
Channel										
Frequency (MHz)				631000	633334	635668	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	18.25	18.31	18.19	19.0	0.0		
Channel										
Frequency (MHz)				630834	633334	635834	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	18.31	18.21	18.07	19.0	0.0		
Channel										
Frequency (MHz)				3462.51	3500.0					



Part27Q n77 PC2 Main PA Ant5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		2122				
100	PI2 BPSK	1	271		2098		22.0	0.0	
100	PI2 BPSK	1	271		2099				
100	PI2 BPSK	135	0		2090		22.0	0.0	
100	PI2 BPSK	135	69		2101		22.0	0.0	
100	PI2 BPSK	135	138		2081				
100	PI2 BPSK	270	0		2095		22.0	0.0	
100	QPSK	1	1		2136				
100	QPSK	1	137		2109		22.0	0.0	
100	QPSK	1	271		2103				
100	QPSK	135	0		2088		22.0	0.0	
100	QPSK	135	69		2116		22.0	0.0	
100	QPSK	135	138		2093				
100	QPSK	270	0		2115		22.0	0.0	
100	8QAM	1	1		2075		22.0	0.0	
100	8QAM	1	1		2080		22.0	0.0	
100	25QAM	1	1		2071		21.5	0.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	633000	633334	633668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3450	3500.01	3550.02	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	2030	2110	2094	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3450.02	3500.01	3510	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	2033	2113	2083	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632834	633334	633834	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3450.01	3500.01	3515.01	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	2079	2098	2078	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	633668	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3450	3500.01	3501.02	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	2079	2110	2090	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	633000	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3476.02	3500.01	3525	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	2076	2102	2090	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	633834	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	3500.01	3530.01	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	2085	2109	2079	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	633668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3450	3500.01	3501.02	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2079	2111	2098	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	633834	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3462.51	3500.01	3537.51	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	2095	2109	2090	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	633000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3450.02	3500.01	3540	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2095	2119	2100	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	633668	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3457.5	3500.01	3542.5	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2094	2100	2093	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	633334	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3458.01	3500.01	3548.01	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2079	2120	2090	22.0	0.0	

Part27O n78 Main PA Ant5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750	3750			
100	PI2 BPSK	1	137		1728				
100	PI2 BPSK	1	271		1723		18.0	0.0	
100	PI2 BPSK	1	271		1706				
100	PI2 BPSK	135	0		1712		18.0	0.0	
100	PI2 BPSK	135	69		1722		18.0	0.0	
100	PI2 BPSK	135	138		1706				
100	PI2 BPSK	270	0		1712		18.0	0.0	
100	QPSK	1	1		1732				
100	QPSK	1	137		1717		18.0	0.0	
100	QPSK	1	271		1726				
100	QPSK	135	0		1717		18.0	0.0	
100	QPSK	135	69		1724		18.0	0.0	
100	QPSK	135	138		1707				
100	QPSK	270	0		1724		18.0	0.0	
100	8QAM	1	1		1734		18.0	0.0	
100	8QAM	1	1		1672		18.0	0.0	
100	25QAM	1	1		1723		18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3742.02	3750	3763.01	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	1722	1706	1703	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	1722	1713	1705	18.0	0.0	
80	QPSK	1	1	1722	1706	1705	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	1722	1712	1689	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3740.02	3750	3761.01	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	1722	1716	1693	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648000	650000	651000	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	1722	1712	1689	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3726.01	3750	3776.02	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	1725	1719	1687	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3720	3750	3790	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	1720	1722	1711	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3742.02	3750	3763.01	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	1722	1710	1709	18.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647900	650000	652500	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3742.5	3750	3787.5	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	1718	1708	1711	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652668	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3710.01	3750	3790.02	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	1720	1720	1694	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3742.02	3750	3763.01	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	1717	1718	1706	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3705	3750	3795	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	1721	1724	1695	18.0	0.0	

Part27O n78 PC2 Main PA Ant5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750	3750			
100	PI2 BPSK	1	137		2013				
100	PI2 BPSK	1	271		2030		21.0	0.0	
100	PI2 BPSK	1	271		2011				
100	PI2 BPSK	135	0		2024		21.0	0.0	
100	PI2 BPSK	135	69		2027		21.0	0.0	
100	PI2 BPSK	135	138		2012				
100	PI2 BPSK	270	0		2019		21.0	0.0	
100	QPSK	1	1		2031				
100	QPSK	1	137		2021		21.0	0.0	
100	QPSK	1	271		2035				
100	QPSK	135	0		2005		21.0	0.0	
100	QPSK	135	69		2025		21.0	0.0	
100	QPSK	135	138		2008				
100	QPSK	270	0		2019		21.0		



Part27Q n78 Main PA Ant5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.23	3000.01				
100	PI2 BPSK	1	137	17.44			18.0	0.0	
100	PI2 BPSK	1	271	17.27					
100	PI2 BPSK	135	0	17.18			18.0	0.0	
100	PI2 BPSK	135	69	17.42			18.0	0.0	
100	PI2 BPSK	135	138	17.29			18.0	0.0	
100	PI2 BPSK	270	0	17.49			18.0	0.0	
100	QPSK	1	1	17.58					
100	QPSK	1	137	17.25			18.0	0.0	
100	QPSK	1	271	17.32					
100	QPSK	135	0	17.24			18.0	0.0	
100	QPSK	135	69	17.35			18.0	0.0	
100	QPSK	135	138	17.32			18.0	0.0	
100	QPSK	270	0	17.34			18.0	0.0	
100	16QAM	1	1	17.20			18.0	0.0	
100	64QAM	1	1	16.97			18.0	0.0	
100	256QAM	1	1	17.32			18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.52	63334	63968	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.57	3490.02	3500.01	3510	18.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.35	17.23	17.27	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.41	17.20	17.23	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.49	17.26	17.27	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.46	17.24	17.19	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.54	17.22	17.14	18.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.56	17.24	17.13	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.52	17.18	17.22	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.41	17.20	17.26	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.39	17.34	17.12	18.0	0.0	

Part27Q n78 PC2 Main PA Ant5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.05	3000.01				
100	PI2 BPSK	1	137	20.27			21.0	0.0	
100	PI2 BPSK	1	271	20.14					
100	PI2 BPSK	135	0	19.98			21.0	0.0	
100	PI2 BPSK	135	69	20.20			21.0	0.0	
100	PI2 BPSK	135	138	19.86			21.0	0.0	
100	PI2 BPSK	270	0	20.06			21.0	0.0	
100	QPSK	1	1	20.45					
100	QPSK	1	137	20.11			21.0	0.0	
100	QPSK	1	271	20.26					
100	QPSK	135	0	20.14			21.0	0.0	
100	QPSK	135	69	20.35			21.0	0.0	
100	QPSK	135	138	20.16			21.0	0.0	
100	QPSK	270	0	20.05			21.0	0.0	
100	16QAM	1	1	19.80			21.0	0.0	
100	64QAM	1	1	19.65			21.0	0.0	
100	256QAM	1	1	20.37			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.27	63334	63968	tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.40	20.38	20.30	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.30	20.27	20.31	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.33	20.29	20.24	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.20	20.32	20.20	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.37	20.28	20.22	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.25	20.30	20.19	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.23	20.26	20.27	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.25	20.30	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.25	20.24	20.14	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22	20.28	20.28	21.0	0.0	



Part270 n77 Main PA Ant6 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	17.50	17.57	17.41				
100	PI2 BPSK	1	137	17.45	17.44	17.41	19.0	0.0		
100	PI2 BPSK	1	271	17.25	17.31	17.26				
100	PI2 BPSK	135	0	17.45	17.57	17.38	19.0	0.0		
100	PI2 BPSK	135	69	17.39	17.49	17.36	19.0	0.0		
100	PI2 BPSK	135	138	17.35	17.37	17.31				
100	PI2 BPSK	270	0	17.36	17.48	17.33	19.0	0.0		
100	QPSK	1	1	17.57	17.69	17.50				
100	QPSK	1	137	17.55	17.52	17.54	19.0	0.0		
100	QPSK	1	271	17.48	17.53	17.44				
100	QPSK	135	0	17.42	17.38	17.21	19.0	0.0		
100	QPSK	135	69	17.58	17.61	17.57	19.0	0.0		
100	QPSK	135	138	17.27	17.57	17.35	19.0	0.0		
100	QPSK	270	0	17.38	17.53	17.42	19.0	0.0		
100	8QAM	1	1	17.12	17.09	17.11	19.0	0.0		
100	8QAM	1	1	17.13	17.15	17.16	19.0	0.0		
100	25QAM	1	1	17.03	17.16	17.08	19.0	0.0		
Channel										
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	17.50	17.52	17.37	19.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	17.52	17.65	17.41	19.0	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	17.49	17.50	17.40	19.0	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	17.42	17.59	17.43	19.0	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	17.43	17.53	17.45	19.0	0.0		
Channel										
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	17.43	17.64	17.42	19.0	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	17.45	17.55	17.43	19.0	0.0		
Channel										
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	17.54	17.52	17.32	19.0	0.0		
Channel										
Frequency (MHz)				647334	650000	650668	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	17.39	17.58	17.44	19.0	0.0		
Channel										
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	17.45	17.54	17.47	19.0	0.0		
Channel										
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	17.45	17.57	17.41	19.0	0.0		

Part270 n77 PC2 Main PA Ant6 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	20.27	20.31	20.09				
100	PI2 BPSK	1	137	20.22	20.27	20.15	22.0	0.0		
100	PI2 BPSK	1	271	20.05	20.13	20.04				
100	PI2 BPSK	135	0	20.38	20.32	20.27	22.0	0.0		
100	PI2 BPSK	135	69	20.11	20.12	20.13	22.0	0.0		
100	PI2 BPSK	135	138	20.25	20.30	20.23				
100	PI2 BPSK	270	0	20.15	20.31	20.27	22.0	0.0		
100	QPSK	1	1	20.33	20.42	20.29				
100	QPSK	1	137	20.15	20.11	20.23	22.0	0.0		
100	QPSK	1	271	20.26	20.20	20.28				
100	QPSK	135	0	20.10	20.23	20.03	22.0	0.0		
100	QPSK	135	69	20.27	20.31	20.17	22.0	0.0		
100	QPSK	135	138	20.05	20.20	20.25	22.0	0.0		
100	QPSK	270	0	20.17	20.25	20.12	22.0	0.0		
100	8QAM	1	1	20.16	20.29	20.22	22.0	0.0		
100	8QAM	1	1	20.12	20.13	20.15	22.0	0.0		
100	25QAM	1	1	20.12	20.10	20.03	22.0	0.0		
Channel										
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	20.17	20.30	20.17	22.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	20.21	20.38	20.28	22.0	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	20.29	20.28	20.13	22.0	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	20.24	20.29	20.15	22.0	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	20.22	20.32	20.25	22.0	0.0		
Channel										
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	20.30	20.38	20.17	22.0	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	20.30	20.35	20.23	22.0	0.0		
Channel										
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	20.22	20.35	20.12	22.0	0.0		
Channel										
Frequency (MHz)				647334	650000	650668	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	20.25	20.23	20.22	22.0	0.0		
Channel										
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	20.28	20.39	20.25	22.0	0.0		
Channel										
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	20.14	20.27	20.13	22.0	0.0		

Part27Q n77 Main PA Ant6 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)						3500.01				
100	PI2 BPSK	1	1			17.59				
100	PI2 BPSK	1	137			17.54			19.0	0.0
100	PI2 BPSK	1	271			17.41				
100	PI2 BPSK	135	0			17.52			19.0	0.0
100	PI2 BPSK	135	69			17.51			19.0	0.0
100	PI2 BPSK	135	138			17.38			19.0	0.0
100	PI2 BPSK	270	0			17.63				
100	QPSK	1	1			17.74				
100	QPSK	1	137			17.58			19.0	0.0
100	QPSK	1	271			17.32				
100	QPSK	135	0			17.32			19.0	0.0
100	QPSK	135	69			17.60			19.0	0.0
100	QPSK	135	138			17.49			19.0	0.0
100	QPSK	270	0			17.50			19.0	0.0
100	8QAM	1	1			17.23			19.0	0.0
100	8QAM	1	1			17.13			19.0	0.0
100	25QAM	1	1			17.24			19.0	0.0
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	17.28	17.57	17.23	19.0	0.0		
Channel										
Frequency (MHz)				633668	633334	633000	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	17.23	17.38	17.31	19.0	0.0		
Channel										
Frequency (MHz)				633334	633334	633334	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	17.34	17.41	17.45	19.0	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	17.31	17.56	17.37	19.0	0.0		
Channel										
Frequency (MHz)				633334	633334	633334	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	17.34	17.50	17.35	19.0	0.0		
Channel										
Frequency (MHz)				633668	633334	633000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	17.30	17.56	17.42	19.0	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	17.33	17.52	17.29	19.0	0.0		
Channel										
Frequency (MHz)				633334	633334	633334	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	17.21	17.45	17.36	19.0	0.0		
Channel										
Frequency (MHz)				633668	633334	633000	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	17.38	17.50	17.36	19.0	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	17.33	17.42	17.32	19.0	0.0		
Channel										
Frequency (MHz)				633334	633334	633334	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	17.36	17.46	17.41	19.0	0.0		



Part27Q n77 PC2 Main PA Ant6 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.54					
100	PI2 BPSK	1	137	20.46			22.0	0.0	
100	PI2 BPSK	1	271	20.41					
100	PI2 BPSK	135	0	20.54			22.0	0.0	
100	PI2 BPSK	135	69	20.29			22.0	0.0	
100	PI2 BPSK	135	138	20.42					
100	PI2 BPSK	270	0	20.46			22.0	0.0	
100	QPSK	1	1	20.59					
100	QPSK	1	137	20.38			22.0	0.0	
100	QPSK	1	271	20.36					
100	QPSK	135	0	20.37			22.0	0.0	
100	QPSK	135	69	20.52			22.0	0.0	
100	QPSK	135	138	20.28			22.0	0.0	
100	QPSK	270	0	20.48			22.0	0.0	
100	8QAM	1	1	20.57			22.0	0.0	
100	8QAM	1	1	20.14			22.0	0.0	
100	256QAM	1	1	20.05			22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	633000	633334	633668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3426	3500.01	3503.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3500.01	3510	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3485.01	3500.01	3515.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632000	633334	633668	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3470	3500.01	3503.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	631668	633334	633000	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3476.02	3500.01	3525	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631000	633334	633668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3460	3500.01	3503.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	633334	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	3500.01	3530.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	633668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3460	3500.01	3503.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	633834	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3462.51	3500.01	3537.51	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630500	633334	633668	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3450.02	3500.01	3540	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633334	633334	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3450.01	3500.01	3545.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630000	633334	633668	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3440	3500.01	3540	limit (dBm)	0.0	

Part27O n78 Main PA Ant6 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.00					
100	PI2 BPSK	1	137	17.95			19.0	0.0	
100	PI2 BPSK	1	271	17.79					
100	PI2 BPSK	135	0	17.87			19.0	0.0	
100	PI2 BPSK	135	69	18.00			19.0	0.0	
100	PI2 BPSK	135	138	17.86					
100	PI2 BPSK	270	0	17.85			19.0	0.0	
100	QPSK	1	1	18.15					
100	QPSK	1	137	17.91			19.0	0.0	
100	QPSK	1	271	18.00					
100	QPSK	135	0	17.93			19.0	0.0	
100	QPSK	135	69	17.98			19.0	0.0	
100	QPSK	135	138	17.84			19.0	0.0	
100	QPSK	270	0	17.92			19.0	0.0	
100	8QAM	1	1	17.92			19.0	0.0	
100	8QAM	1	1	17.46			19.0	0.0	
100	256QAM	1	1	17.07			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3743.02	3750	3753.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3740.02	3750	3763.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648000	650000	651000	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3735	3750	3765	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3726.01	3750	3775.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3720.02	3750	3770.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647000	650000	652000	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3712.5	3750	3787.5	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647334	650000	652668	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3717.3	3750	3792.3	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647168	650000	652834	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3710.01	3750	3790.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647000	650000	653000	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3705	3750	3795	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647176	650000	652828	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3700	3750	3790	limit (dBm)	0.0	

Part27O n78 PC2 Main PA Ant6 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.54					
100	PI2 BPSK	1	137	20.74			22.0	0.0	
100	PI2 BPSK	1	271	20.77					
100	PI2 BPSK	135	0	20.80			22.0	0.0	
100	PI2 BPSK	135	69	20.59			22.0	0.0	
100	PI2 BPSK	135	138	20.77					
100	PI2 BPSK	270	0	20.80			22.0	0.0	
100	QPSK	1	1	21.00					
100	QPSK	1	137	20.93			22.0	0.0	
100	QPSK	1	271	20.76					
100	QPSK	135	0	20.75			22.0	0.0	
100	QPSK	135	69	20.91			22.0	0.0	
100	QPSK	135	138	20.75			22.0	0.0	
100	QPSK	270	0	20.82			22.0	0.0	
100	8QAM	1	1	20.73			22.0	0.0	
100	8QAM	1	1	20.36			22.0	0.0	
100	256QAM	1	1	20.37			22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3743.02	3750	3753.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3740.02	3750	3763.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648000	650000	651000	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3735	3750	3765	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3726.01	3750	3775.02	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3720.02	3750	3770.01	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647000	650000	652000	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3712.5	3750	3787.5	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647334	650000	652668	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3717.3	3750	3792.3	limit (dBm)	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1							





Part27Q n78 Main PA Ant6 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.29				
100	PI2 BPSK	1	137		17.81		19.0	0.0	
100	PI2 BPSK	1	271		17.81				
100	PI2 BPSK	135	0		17.88		19.0	0.0	
100	PI2 BPSK	135	69		17.85		19.0	0.0	
100	PI2 BPSK	135	138		17.88		19.0	0.0	
100	PI2 BPSK	270	0		17.85		19.0	0.0	
100	QPSK	1	1		18.10				
100	QPSK	1	137		18.00		19.0	0.0	
100	QPSK	1	271		17.84				
100	QPSK	135	0		18.02		19.0	0.0	
100	QPSK	135	69		18.06		19.0	0.0	
100	QPSK	135	138		17.70		19.0	0.0	
100	QPSK	270	0		17.62		19.0	0.0	
100	16QAM	1	1		17.66		19.0	0.0	
100	64QAM	1	1		17.54		19.0	0.0	
100	256QAM	1	1		17.59		19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	633000	633334	633668	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510.00	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.02	17.90	17.92	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3490.02	3500.01	3520.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631688	633334	635000	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3475.02	3500.01	3525.00	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.05	18.07	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3490.02	3500.01	3530.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	636334	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3482.51	3500.01	3537.51	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.05	18.08	17.96	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	636168	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3472.15	3500.01	3542.15	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	636334	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3500.01	3545.01	tune-up limit (dB)	MPR	

Part27Q n78 PC2 Main PA Ant6 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		21.01				
100	PI2 BPSK	1	137		20.89		22.0	0.0	
100	PI2 BPSK	1	271		20.93				
100	PI2 BPSK	135	0		21.02		22.0	0.0	
100	PI2 BPSK	135	69		21.00		22.0	0.0	
100	PI2 BPSK	135	138		21.04		22.0	0.0	
100	PI2 BPSK	270	0		21.04		22.0	0.0	
100	QPSK	1	1		21.21				
100	QPSK	1	137		21.06		22.0	0.0	
100	QPSK	1	271		20.98				
100	QPSK	135	0		21.08		22.0	0.0	
100	QPSK	135	69		21.13		22.0	0.0	
100	QPSK	135	138		21.03		22.0	0.0	
100	QPSK	270	0		21.06		22.0	0.0	
100	16QAM	1	1		20.73		22.0	0.0	
100	64QAM	1	1		20.33		22.0	0.0	
100	256QAM	1	1		20.41		22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3520.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.01	21.09	20.86	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632000	633334	634668	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3490.02	3500.01	3515.01	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.14	21.20	21.10	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631688	633334	635000	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525.00	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.11	21.00	20.88	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631000	633334	635668	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3490.02	3500.01	3530.02	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	636334	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3482.51	3500.01	3537.51	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.13	21.07	21.05	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	636168	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3472.15	3500.01	3542.15	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	636334	tune-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3500.01	3545.01	tune-up limit (dB)	MPR	



Part270 n77 Main PA Ant7 DS13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	19.32	19.37	19.24				
100	PI2 BPSK	1	137	19.21	19.26	19.11	21.0	0.0		
100	PI2 BPSK	1	271	19.09	19.23	19.04				
100	PI2 BPSK	135	0	19.18	19.25	19.06	21.0	0.0		
100	PI2 BPSK	135	69	19.27	19.32	19.16	21.0	0.0		
100	PI2 BPSK	135	138	19.21	19.15	19.15				
100	PI2 BPSK	270	0	19.25	19.12	19.26	21.0	0.0		
100	QPSK	1	1	19.34	19.51	19.44				
100	QPSK	1	137	19.18	19.27	19.25	21.0	0.0		
100	QPSK	1	271	19.27	19.22	19.12				
100	QPSK	135	0	19.22	19.13	19.15	21.0	0.0		
100	QPSK	135	69	19.27	19.45	19.12	21.0	0.0		
100	QPSK	135	138	19.18	19.35	19.31	21.0	0.0		
100	QPSK	270	0	19.38	19.42	19.37	21.0	0.0		
100	8QAM	1	1	19.12	19.32	19.37	21.0	0.0		
100	8QAM	1	1	19.15	19.24	19.14	21.0	0.0		
100	25QAM	1	1	19.16	19.29	19.25	21.0	0.0		
Channel										
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.20	19.20	19.44	21.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.02	19.03	19.08	21.0	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	19.17	19.18	19.37	21.0	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.03	19.09	19.20	21.0	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	19.07	19.31	19.25	21.0	0.0		
Channel										
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	19.06	19.20	19.17	21.0	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	19.07	19.23	19.40	21.0	0.0		
Channel										
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	19.03	19.22	19.17	21.0	0.0		
Channel										
Frequency (MHz)				647334	650000	654668	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	19.01	19.06	19.12	21.0	0.0		
Channel										
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	19.04	19.03	19.11	21.0	0.0		
Channel										
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	19.06	19.08	19.21	21.0	0.0		

Part270 n77 PC2 Main PA Ant7 DS13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	22.33	22.24	22.23				
100	PI2 BPSK	1	137	22.31	22.41	22.10	24.0	0.0		
100	PI2 BPSK	1	271	22.04	22.32	22.22				
100	PI2 BPSK	135	0	22.34	22.39	22.40	24.0	0.0		
100	PI2 BPSK	135	69	22.42	22.27	22.06	24.0	0.0		
100	PI2 BPSK	135	138	22.21	22.32	22.18				
100	PI2 BPSK	270	0	22.09	22.33	22.32	24.0	0.0		
100	QPSK	1	1	22.45	22.57	22.54				
100	QPSK	1	137	22.30	22.14	22.35	24.0	0.0		
100	QPSK	1	271	22.02	22.39	22.19				
100	QPSK	135	0	22.38	22.29	22.38	24.0	0.0		
100	QPSK	135	69	22.41	22.49	22.38	24.0	0.0		
100	QPSK	135	138	22.32	22.28	22.33	24.0	0.0		
100	QPSK	270	0	22.39	22.43	22.40	24.0	0.0		
100	8QAM	1	1	22.18	22.17	22.19	24.0	0.0		
100	8QAM	1	1	21.12	21.17	21.21	23.0	1.0		
100	25QAM	1	1	19.26	19.34	19.30	21.0	3.0		
Channel										
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	22.10	22.37	22.34	24.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	22.09	22.44	22.30	24.0	0.0		
Channel										
Frequency (MHz)				649000	650000	650000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	22.23	22.32	22.28	24.0	0.0		
Channel										
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	22.22	22.34	22.33	24.0	0.0		
Channel										
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	22.28	22.33	22.38	24.0	0.0		
Channel										
Frequency (MHz)				648000	650000	650000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	22.28	22.33	22.23	24.0	0.0		
Channel										
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	22.05	22.08	22.13	24.0	0.0		
Channel										
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	22.25	22.33	22.30	24.0	0.0		
Channel										
Frequency (MHz)				647334	650000	654668	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	22.04	22.11	22.10	24.0	0.0		
Channel										
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	22.01	22.25	22.05	24.0	0.0		
Channel										
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	22.17	22.42	22.33	24.0	0.0		

Part27Q n77 Main PA Ant7 DS13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)						3500.01				
100	PI2 BPSK	1	1			19.37				
100	PI2 BPSK	1	137			19.25			21.0	0.0
100	PI2 BPSK	1	271			19.03				
100	PI2 BPSK	135	0			19.24			21.0	0.0
100	PI2 BPSK	135	69			19.34			21.0	0.0
100	PI2 BPSK	135	138			19.19				
100	PI2 BPSK	270	0			19.36			21.0	0.0
100	QPSK	1	1			19.46				
100	QPSK	1	137			19.42			21.0	0.0
100	QPSK	1	271			19.31				
100	QPSK	135	0			19.04			21.0	0.0
100	QPSK	135	69			19.33			21.0	0.0
100	QPSK	135	138			19.18			21.0	0.0
100	QPSK	270	0			19.11			21.0	0.0
100	8QAM	1	1			19.20			21.0	0.0
100	8QAM	1	1			19.35			21.0	0.0
100	25QAM	1	1			19.28			21.0	0.0
Channel										
Frequency (MHz)				639000	633334	636668	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	19.13	19.22	19.45	21.0	0.0		
Channel										
Frequency (MHz)				639668	633334	639000	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.10	19.38	19.39	21.0	0.0		
Channel										
Frequency (MHz)				639334	633334	639334	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	19.16	19.38	19.42	21.0	0.0		
Channel										
Frequency (MHz)				639000	633334	636668	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.09	19.38	19.33	21.0	0.0		
Channel										
Frequency (MHz)				638668	633334	639000	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	19.01	19.04	19.06	21.0	0.0		
Channel										
Frequency (MHz)				638334	633334	638334	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	19.10	19.34	19.34	21.0	0.0		
Channel										
Frequency (MHz)				638000	633334	636668	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	19.13	19.41	19.39	21.0	0.0		
Channel										
Frequency (MHz)				638334	633334	639334	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	19.17	19.28	19.35	21.0	0.0		
Channel										
Frequency (MHz)				638000	633334	639000	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	19.07	19.29	19.36	21.0	0.0		
Channel										
Frequency (MHz)				638668	633334	636168	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	19.18	19.36	19.33	21.0	0.0		
Channel										
Frequency (MHz)				639334	633334	639334	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	19.15	19.29	19.40	21.0	0.0		



Part27Q n77 PC2 Main PA Ant7 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3500.01					
100	PI2 BPSK	1	137	22.31					
100	PI2 BPSK	1	271	22.35			24.0	0.0	
100	PI2 BPSK	1	271	22.27					
100	PI2 BPSK	135	69	22.36			24.0	0.0	
100	PI2 BPSK	135	69	22.21			24.0	0.0	
100	PI2 BPSK	135	138	22.32					
100	PI2 BPSK	270	0	22.34			24.0	0.0	
100	QPSK	1	1	22.42					
100	QPSK	1	137	22.10			24.0	0.0	
100	QPSK	1	271	22.36					
100	QPSK	135	69	22.34			24.0	0.0	
100	QPSK	135	69	22.37			24.0	0.0	
100	QPSK	135	138	22.23			24.0	0.0	
100	QPSK	270	0	22.24			24.0	0.0	
100	8QAM	1	1	22.30			24.0	0.0	
100	8QAM	1	1	21.30			23.0	1.0	
100	256QAM	1	1	19.16			21.0	3.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	633000	633334	633668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3456	3500.01	3543.02	time-up limit (dBm)	MPR (dB)	0.0
80	QPSK	1	1	22.12	22.11	22.23	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3500.01	3510	time-up limit (dBm)	MPR (dB)	0.0
80	QPSK	1	1	22.25	22.37	22.08	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632834	633334	633834	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3485.01	3500.01	3515.01	time-up limit (dBm)	MPR (dB)	0.0
70	QPSK	1	1	22.25	22.40	22.15	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	633668	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3450	3500.01	3551.02	time-up limit (dBm)	MPR (dB)	0.0
60	QPSK	1	1	22.28	22.27	22.11	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	633000	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3476.02	3500.01	3525	time-up limit (dBm)	MPR (dB)	0.0
50	QPSK	1	1	22.28	22.27	22.08	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	633334	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	3500.01	3530.01	time-up limit (dBm)	MPR (dB)	0.0
40	QPSK	1	1	22.16	22.22	22.11	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	633668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3450	3500.01	3551.02	time-up limit (dBm)	MPR (dB)	0.0
30	QPSK	1	1	22.20	22.29	22.08	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	633834	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3462.51	3500.01	3537.51	time-up limit (dBm)	MPR (dB)	0.0
25	QPSK	1	1	22.12	22.37	22.15	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	633000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3450.02	3500.01	3540	time-up limit (dBm)	MPR (dB)	0.0
20	QPSK	1	1	22.09	22.23	22.08	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	633668	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3457.5	3500.01	3547.5	time-up limit (dBm)	MPR (dB)	0.0
15	QPSK	1	1	22.21	22.29	22.20	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	633334	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3458.01	3500.01	3548.01	time-up limit (dBm)	MPR (dB)	0.0
10	QPSK	1	1	22.13	22.38	22.02	24.0	0.0	

Part27O n78 Main PA Ant7 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	20.51					
100	PI2 BPSK	1	271	20.48			21.5	0.0	
100	PI2 BPSK	1	271	20.18					
100	PI2 BPSK	135	69	20.35			21.5	0.0	
100	PI2 BPSK	135	69	20.27			21.5	0.0	
100	PI2 BPSK	135	138	20.25					
100	PI2 BPSK	270	0	20.26			21.5	0.0	
100	QPSK	1	1	20.58					
100	QPSK	1	137	20.20			21.5	0.0	
100	QPSK	1	271	20.54					
100	QPSK	135	69	20.22			21.5	0.0	
100	QPSK	135	69	20.46			21.5	0.0	
100	QPSK	135	138	20.36			21.5	0.0	
100	QPSK	270	0	20.41			21.5	0.0	
100	8QAM	1	1	20.17			21.5	0.0	
100	8QAM	1	1	19.85			21.5	0.0	
100	256QAM	1	1	20.47			21.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3742.02	3750	3763.01	time-up limit (dBm)	MPR (dB)	0.0
90	QPSK	1	1	20.39	20.52	20.47	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)	0.0
80	QPSK	1	1	20.37	20.55	20.28	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	649000	650000	651000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3735	3750	3765	time-up limit (dBm)	MPR (dB)	0.0
70	QPSK	1	1	20.45	20.45	20.29	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648668	650000	651334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3742.02	3750	3761.01	time-up limit (dBm)	MPR (dB)	0.0
60	QPSK	1	1	20.31	20.35	20.27	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3736.01	3750	3755.02	time-up limit (dBm)	MPR (dB)	0.0
50	QPSK	1	1	20.34	20.56	20.31	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3730	3750	3760	time-up limit (dBm)	MPR (dB)	0.0
40	QPSK	1	1	20.37	20.41	20.43	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3742.02	3750	3763.01	time-up limit (dBm)	MPR (dB)	0.0
30	QPSK	1	1	20.38	20.42	20.33	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647500	650000	652500	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3742.5	3750	3767.5	time-up limit (dBm)	MPR (dB)	0.0
25	QPSK	1	1	20.46	20.48	20.43	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652668	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)	0.0
20	QPSK	1	1	20.26	20.47	20.32	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3742.52	3750	3763.51	time-up limit (dBm)	MPR (dB)	0.0
15	QPSK	1	1	20.43	20.51	20.34	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3740	3750	3765	time-up limit (dBm)	MPR (dB)	0.0
10	QPSK	1	1	20.34	20.54	20.34	21.5	0.0	

Part27O n78 PC2 Main PA Ant7 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	22.21					
100	PI2 BPSK	1	271	22.02			24.5	0.0	
100	PI2 BPSK	1	271	23.03					
100	PI2 BPSK	135	69	23.17			24.5	0.0	
100	PI2 BPSK	135	69	22.10			24.5	0.0	
100	PI2 BPSK	135	138	23.18					
100	PI2 BPSK	270	0	23.25			24.5	0.0	
100	QPSK	1	1	23.28					
100	QPSK	1	137	23.13			24.5	0.0	
100	QPSK	1	271	22.58					
100	QPSK	135	69	23.15			24.5	0.0	
100	QPSK	135	69	23.18			24.5	0.0	
100	QPSK	135	138	22.98			24.5	0.0	
100	Q								



Part27Q n78 Main PA Ant7 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.23	20.23	20.23			
100	PI2 BPSK	1	137	20.26	20.26	20.26	21.5	0.0	
100	PI2 BPSK	1	271	20.10	20.10	20.10			
100	PI2 BPSK	135	0	20.28	20.28	20.28	21.5	0.0	
100	PI2 BPSK	135	69	20.20	20.20	20.20	21.5	0.0	
100	PI2 BPSK	135	138	20.02	20.02	20.02	21.5	0.0	
100	PI2 BPSK	270	0	20.19	20.19	20.19	21.5	0.0	
100	QPSK	1	1	20.45	20.45	20.45			
100	QPSK	1	137	20.09	20.09	20.09	21.5	0.0	
100	QPSK	1	271	20.41	20.41	20.41			
100	QPSK	135	0	20.21	20.21	20.21	21.5	0.0	
100	QPSK	135	69	20.31	20.31	20.31	21.5	0.0	
100	QPSK	135	138	20.16	20.16	20.16	21.5	0.0	
100	QPSK	270	0	20.23	20.23	20.23	21.5	0.0	
100	16QAM	1	1	19.99	19.99	19.99	21.5	0.0	
100	64QAM	1	1	19.64	19.64	19.64	21.5	0.0	
100	256QAM	1	1	20.37	20.37	20.37	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.300	63.334	63.968	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495	3500.01	3506.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.24	20.24	20.27	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63.000	63.334	63.668	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3495	3500.01	3500.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.168	63.334	63.500	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.37	20.30	20.40	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63.100	63.334	63.568	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3495	3500.01	3530.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63.034	63.334	63.5834	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3492.51	3500.01	3537.51	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.22	20.33	20.31	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63.050	63.334	63.618	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3497.5	3500.01	3542.52	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63.034	63.334	63.634	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3495.01	3500.01	3545.01	tune-up limit (dB)	MFR (dB)	

Part27Q n78 PC2 Main PA Ant7 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.25	23.25	23.25			
100	PI2 BPSK	1	137	23.07	23.07	23.07	24.5	0.0	
100	PI2 BPSK	1	271	23.10	23.10	23.10			
100	PI2 BPSK	135	0	23.31	23.31	23.31	24.5	0.0	
100	PI2 BPSK	135	69	23.22	23.22	23.22	24.5	0.0	
100	PI2 BPSK	135	138	23.29	23.29	23.29	24.5	0.0	
100	PI2 BPSK	270	0	23.37	23.37	23.37	24.5	0.0	
100	QPSK	1	1	23.44	23.44	23.44			
100	QPSK	1	137	23.18	23.18	23.18	24.5	0.0	
100	QPSK	1	271	23.06	23.06	23.06			
100	QPSK	135	0	23.28	23.28	23.28	24.5	0.0	
100	QPSK	135	69	23.41	23.41	23.41	24.5	0.0	
100	QPSK	135	138	23.20	23.20	23.20	24.5	0.0	
100	QPSK	270	0	23.23	23.23	23.23	24.5	0.0	
100	16QAM	1	1	23.20	23.20	23.20	24.5	0.0	
100	64QAM	1	1	22.28	22.28	22.28	23.5	1.0	
100	256QAM	1	1	20.81	20.81	20.81	21.5	3.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.300	63.334	63.968	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495	3500.01	3506.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.10	23.24	23.14	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63.000	63.334	63.668	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3495	3500.01	3520.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.168	63.334	63.500	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.29	23.29	23.26	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63.100	63.334	63.568	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3495	3500.01	3530.02	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63.034	63.334	63.5834	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3492.51	3500.01	3537.51	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.23	23.36	23.28	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63.050	63.334	63.618	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3497.5	3500.01	3542.52	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63.034	63.334	63.634	tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3495.01	3500.01	3545.01	tune-up limit (dB)	MFR (dB)	



DSI 3 Power for FR1 EN-DC Main PA

Part270 n78 Main PA Ant7 DSI3 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 550000	Power Middle Ch. Freq. 550000	Power High Ch. Freq. 550000	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		17.31		18.5	0.0	
100	PI2 BPSK	1	271		17.04		18.5	0.0	
100	PI2 BPSK	135	0		17.34		18.5	0.0	
100	PI2 BPSK	135	69		17.33		18.5	0.0	
100	PI2 BPSK	135	138		17.07		18.5	0.0	
100	PI2 BPSK	270	0		17.15		18.5	0.0	
100	QPSK	1	1		17.53		18.5	0.0	
100	QPSK	1	137		17.10		18.5	0.0	
100	QPSK	1	271		17.40		18.5	0.0	
100	QPSK	135	0		17.10		18.5	0.0	
100	QPSK	135	69		17.37		18.5	0.0	
100	QPSK	135	138		17.24		18.5	0.0	
100	QPSK	270	0		17.31		18.5	0.0	
100	16QAM	1	1		17.08		18.5	0.0	
100	16QAM	1	1		16.77		18.5	0.0	
100	16QAM	1	1		17.43		18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65034	Turn-up limit (dBm)	MPR (dB)	
				375.02	3750	3750.01		18.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Turn-up limit (dBm)	MPR (dB)	
				3740.01	3750	3750.02		18.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65100	Turn-up limit (dBm)	MPR (dB)	
				3735	3750	3765		18.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	Turn-up limit (dBm)	MPR (dB)	
				3730.02	3750	3750.01		18.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Turn-up limit (dBm)	MPR (dB)	
				3725.01	3750	3750.02		18.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	Turn-up limit (dBm)	MPR (dB)	
				3720	3750	3780		18.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65234	Turn-up limit (dBm)	MPR (dB)	
				3715.02	3750	3750.01		18.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	64700	65000	65250	Turn-up limit (dBm)	MPR (dB)	
				3712.5	3750	3787.5		18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65268	Turn-up limit (dBm)	MPR (dB)	
				3710.01	3750	3790.02		18.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	64725	65000	65284	Turn-up limit (dBm)	MPR (dB)	
				3707.52	3750	3792.51		18.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	Turn-up limit (dBm)	MPR (dB)	
				3705	3750	3795		18.5	0.0
				17.28	17.49	17.44		18.5	0.0

Part270 n78 PC2 Main PA Ant7 DSI3 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 650000	Power Middle Ch. Freq. 650000	Power High Ch. Freq. 650000	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		19.50		21.5	0.0	
100	PI2 BPSK	1	271		19.80		21.5	0.0	
100	PI2 BPSK	135	0		20.54		21.5	0.0	
100	PI2 BPSK	135	69		19.90		21.5	0.0	
100	PI2 BPSK	135	138		20.86		21.5	0.0	
100	PI2 BPSK	270	0		20.99		21.5	0.0	
100	QPSK	1	1		20.18		21.5	0.0	
100	QPSK	1	137		20.10		21.5	0.0	
100	QPSK	1	271		19.90		21.5	0.0	
100	QPSK	135	0		20.11		21.5	0.0	
100	QPSK	135	69		19.99		21.5	0.0	
100	QPSK	135	138		19.89		21.5	0.0	
100	QPSK	270	0		20.96		21.5	0.0	
100	16QAM	1	1		20.03		21.5	0.0	
100	16QAM	1	1		19.89		21.5	0.0	
100	16QAM	1	1		20.94		21.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64988	65000	65034	Turn-up limit (dBm)	MPR (dB)	
				3745.02	3750	3750.01		21.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Turn-up limit (dBm)	MPR (dB)	
				3740.01	3750	3750.02		21.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65100	Turn-up limit (dBm)	MPR (dB)	
				3735	3750	3765		21.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	Turn-up limit (dBm)	MPR (dB)	
				3730.02	3750	3750.01		21.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Turn-up limit (dBm)	MPR (dB)	
				3725.01	3750	3750.02		21.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	Turn-up limit (dBm)	MPR (dB)	
				3720	3750	3780		21.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65234	Turn-up limit (dBm)	MPR (dB)	
				3715.02	3750	3750.01		21.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	64700	65000	65250	Turn-up limit (dBm)	MPR (dB)	
				3712.5	3750	3787.5		21.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65268	Turn-up limit (dBm)	MPR (dB)	
				3710.01	3750	3790.02		21.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	64725	65000	65284	Turn-up limit (dBm)	MPR (dB)	
				3707.52	3750	3792.51		21.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	Turn-up limit (dBm)	MPR (dB)	
				3705	3750	3795		21.5	0.0
				19.85	20.16	19.90		21.5	0.0



Part27Q n78 Main PA Ant7 DSI3 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Frac.	Power Mode Ch./Frac.	Power High Ch./Frac.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.74	350.01				
100	PI2 BPSK	1	137	17.13			18.5	0.0	
100	PI2 BPSK	1	271	16.91					
100	PI2 BPSK	135	6	17.13			18.5	0.0	
100	PI2 BPSK	135	69	17.08			18.5	0.0	
100	PI2 BPSK	135	138	16.83			18.5	0.0	
100	PI2 BPSK	270	0	17.07					
100	QPSK	1	1	17.26					
100	QPSK	1	137	16.99			18.5	0.0	
100	QPSK	1	271	17.27					
100	QPSK	135	6	17.15			18.5	0.0	
100	QPSK	135	69	17.26			18.5	0.0	
100	QPSK	135	138	17.11			18.5	0.0	
100	QPSK	270	0	17.07					
100	16QAM	1	1	16.84			18.5	0.0	
100	16QAM	1	1	16.88			18.5	0.0	
100	16QAM	1	1	17.16			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.05	350.02	350.02	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.97	350.01	350.01	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.41	350.02	350.02	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.90	350.01	350.01	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.04	350.02	350.02	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.02	350.01	350.01	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.01	350.01	350.01	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.04	350.01	350.01	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.97	350.01	350.01	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.27	350.01	350.01	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.04	350.01	350.01	18.5	0.0	

Part27Q n78 PC2 Main PA Ant7 DSI3 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Frac.	Power Mode Ch./Frac.	Power High Ch./Frac.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.09	350.01				
100	PI2 BPSK	1	137	18.85			21.5	0.0	
100	PI2 BPSK	1	271	19.88					
100	PI2 BPSK	135	6	19.34			21.5	0.0	
100	PI2 BPSK	135	69	19.35			21.5	0.0	
100	PI2 BPSK	135	138	20.08			21.5	0.0	
100	PI2 BPSK	270	0	20.05					
100	QPSK	1	1	20.15					
100	QPSK	1	137	19.81			21.5	0.0	
100	QPSK	1	271	19.75					
100	QPSK	135	6	20.03			21.5	0.0	
100	QPSK	135	69	20.07			21.5	0.0	
100	QPSK	135	138	19.94			21.5	0.0	
100	QPSK	270	0	20.05					
100	16QAM	1	1	19.93			21.5	0.0	
100	16QAM	1	1	19.96			21.5	0.0	
100	16QAM	1	1	20.06			21.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.91	350.01	350.02	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.91	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.91	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.91	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.91	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.91	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.91	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.91	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.91	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.03	350.01	350.01	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.03	350.01	350.01	21.5	0.0	



## DSI 4 Power for FR1 Main PA

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	PI/2 BPSK	1	1	24.48	24.57	24.51		
20	PI/2 BPSK	1	53	24.41	24.51	24.38	25.5	0.0
20	PI/2 BPSK	1	104	24.33	24.46	24.39		
20	PI/2 BPSK	50	0	24.16	24.21	24.15	25.0	0.5
20	PI/2 BPSK	50	28	24.54	24.59	24.51	25.5	0.0
20	PI/2 BPSK	50	56	24.12	24.21	24.17	25.0	0.5
20	PI/2 BPSK	100	0	24.13	24.18	24.10		
20	QPSK	1	1	24.52	24.63	24.48		
20	QPSK	1	53	24.43	24.53	24.41	25.5	0.0
20	QPSK	1	104	24.37	24.46	24.33		
20	QPSK	50	0	23.65	23.71	23.61	24.5	1.0
20	QPSK	50	28	24.56	24.61	24.54	25.5	0.0
20	QPSK	50	56	23.49	23.62	23.53	24.5	1.0
20	QPSK	100	0	23.60	23.66	23.52		
20	16QAM	1	1	23.28	23.34	23.31	24.5	1.0
20	64QAM	1	1	21.84	21.93	21.83	23.0	2.5
20	256QAM	1	1	20.66	20.69	20.61	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.48	24.53	24.44	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.55	24.59	24.40	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.50	24.57	24.49	25.5	0.0



n5 Main PA Ant1 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 15000	Power Middle Ch. 15000	Power High Ch. 15000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.04	22.22	22.01	24.0	0.0	
20	PI2 BPSK	1	53	22.11	22.23	22.03			
20	PI2 BPSK	1	104	22.12	22.12	22.17			
20	PI2 BPSK	50	0	22.06	22.14	22.06	24.0	0.0	
20	PI2 BPSK	50	28	22.22	22.25	22.20	24.0	0.0	
20	PI2 BPSK	50	56	22.16	22.14	22.11	24.0	0.0	
20	PI2 BPSK	100	0	22.16	22.17	22.11	24.0	0.0	
20	QPSK	1	1	22.26	22.30	22.27	24.0	0.0	
20	QPSK	1	53	22.17	22.13	22.25			
20	QPSK	1	104	22.16	22.07	22.09			
20	QPSK	50	0	22.08	22.16	22.16	24.0	0.0	
20	QPSK	50	28	22.21	22.25	22.19	24.0	0.0	
20	QPSK	50	56	22.09	22.15	22.09	24.0	0.0	
20	QPSK	100	0	22.15	22.23	22.20	24.0	0.0	
20	16QAM	1	1	22.19	22.15	22.06	24.0	0.0	
20	16QAM	1	1	21.20	21.27	21.19	23.0	1.0	
20	256QAM	1	1	19.33	19.28	19.22	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.930	16.730	16.830	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	8.59	8.36.5	8.44	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.26	22.10	22.25	24.0	0.0	

n7 Main PA Ant1 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 15000	Power Middle Ch. 15000	Power High Ch. 15000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	18.37	18.49	18.42	19.0	0.0	
50	PI2 BPSK	1	135	18.38	18.41	18.34			
50	PI2 BPSK	1	268	18.25	18.51	18.20			
50	PI2 BPSK	135	0	18.43	18.51	18.53	19.0	0.0	
50	PI2 BPSK	135	68	18.32	18.38	18.41	19.0	0.0	
50	PI2 BPSK	135	135	18.49	18.83	18.56	19.0	0.0	
50	PI2 BPSK	270	0	18.48	18.62	18.61	19.0	0.0	
50	QPSK	1	1	18.42	18.64	18.56	19.0	0.0	
50	QPSK	1	135	18.19	18.46	18.31			
50	QPSK	1	268	18.16	18.37	18.34			
50	QPSK	135	0	18.47	18.42	18.31	19.0	0.0	
50	QPSK	135	68	18.54	18.59	18.50	19.0	0.0	
50	QPSK	135	135	18.37	18.46	18.51	19.0	0.0	
50	QPSK	270	0	18.37	18.57	18.48	19.0	0.0	
50	16QAM	1	1	18.21	18.24	18.22	19.0	0.0	
50	16QAM	1	1	18.14	18.26	18.06	19.0	0.0	
50	256QAM	1	1	18.34	18.39	18.41	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	50.000	50.700	51.000	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.15	25.35	25.55	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.30	18.60	18.51	19.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	50.200	50.700	51.200	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.35	18.55	18.53	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.34	18.43	18.43	19.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.36	18.59	18.35	19.0	0.0	

n66 Main PA Ant1 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 15000	Power Middle Ch. 15000	Power High Ch. 15000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	17.25	17.45	17.25	17.0	0.0	
45	PI2 BPSK	1	120	15.11	15.44	15.28			
45	PI2 BPSK	1	243	15.11	15.09	15.31			
45	PI2 BPSK	120	0	15.19	15.48	15.32	17.0	0.0	
45	PI2 BPSK	120	60	15.32	15.41	15.25	17.0	0.0	
45	PI2 BPSK	120	180	15.45	15.51	15.43	17.0	0.0	
45	PI2 BPSK	240	0	15.40	15.22	15.31	17.0	0.0	
45	QPSK	1	1	15.52	15.55	15.38	17.0	0.0	
45	QPSK	1	120	14.95	15.25	15.07			
45	QPSK	1	243	15.21	15.14	15.22			
45	QPSK	120	0	15.16	15.11	15.28	17.0	0.0	
45	QPSK	120	60	15.29	15.51	15.42	17.0	0.0	
45	QPSK	120	120	15.10	15.37	15.36	17.0	0.0	
45	QPSK	240	0	15.21	15.35	15.11	17.0	0.0	
45	16QAM	1	1	15.17	15.23	15.19	17.0	0.0	
45	16QAM	1	1	15.33	15.37	15.37	17.0	0.0	
45	256QAM	1	1	15.27	15.19	15.27	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	34.900	34.900	35.000	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.27.5	17.45	17.63	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.32	15.52	15.33	17.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.34	15.92	15.23	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.20	17.45	17.70	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.37	15.52	15.52	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.51	15.45	15.32	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.49	15.36	15.29	17.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.47	15.53	15.53	17.0	0.0	





n38 Main PA Ant1 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.99			
40	PI2 BPSK	1	1	17.20	17.34	17.16			
40	PI2 BPSK	1	53	17.15	17.29	16.99	18.0	0.0	
40	PI2 BPSK	1	104	16.97	17.12	16.97			
40	PI2 BPSK	50	0	17.38	17.36	17.07	18.0	0.0	
40	PI2 BPSK	50	28	17.24	17.26	17.35	18.0	0.0	
40	PI2 BPSK	50	56	17.10	17.21	17.04			
40	PI2 BPSK	100	0	17.21	17.35	17.19	18.0	0.0	
40	QPSK	1	1	17.15	17.41	17.22			
40	QPSK	1	53	17.07	17.18	17.14	18.0	0.0	
40	QPSK	1	104	16.99	17.09	17.06			
40	QPSK	50	0	17.06	17.30	17.07	18.0	0.0	
40	QPSK	50	28	17.09	17.33	17.28	18.0	0.0	
40	QPSK	50	56	17.07	17.29	17.22	18.0	0.0	
40	QPSK	100	0	17.22	17.35	17.24	18.0	0.0	
40	16QAM	1	1	17.16	17.37	17.23	18.0	0.0	
40	16QAM	1	1	17.15	17.22	17.16	18.0	0.0	
40	256QAM	1	1	17.21	17.36	17.29	18.0	0.0	
Channel									
Frequency (MHz)				517002	519000	520998	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2581.0	2595	2604.99	18.0	0.0	
Channel									
Frequency (MHz)				516504	519000	521496	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	2582.52	2595	2607.48	18.0	0.0	
Channel									
Frequency (MHz)				516000	519000	520000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2580	2595	2610	18.0	0.0	
Channel									
Frequency (MHz)				515502	519000	522498	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2577.51	2595	2614.99	18.0	0.0	
Channel									
Frequency (MHz)				515004	519000	522996	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2575.02	2595	2614.99	18.0	0.0	

n41 Main PA Ant1 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.74	17.55	17.76			
100	PI2 BPSK	1	137	17.61	17.83	17.71	19.0	0.0	
100	PI2 BPSK	1	271	17.48	17.71	17.48			
100	PI2 BPSK	135	0	17.77	17.75	17.68	19.0	0.0	
100	PI2 BPSK	135	69	17.73	17.86	17.71	19.0	0.0	
100	PI2 BPSK	135	138	17.83	17.92	17.80	19.0	0.0	
100	PI2 BPSK	270	0	17.77	17.82	17.89	19.0	0.0	
100	QPSK	1	1	17.93	17.97	17.81			
100	QPSK	1	137	17.72	17.93	17.69	19.0	0.0	
100	QPSK	1	271	17.69	17.86	17.69			
100	QPSK	135	0	17.79	17.80	17.84	19.0	0.0	
100	QPSK	135	69	17.70	17.94	17.81	19.0	0.0	
100	QPSK	135	138	17.78	17.78	17.75	19.0	0.0	
100	QPSK	270	0	17.85	17.88	17.81	19.0	0.0	
100	16QAM	1	1	17.86	17.93	17.78	19.0	0.0	
100	16QAM	1	1	17.75	17.69	17.60	19.0	0.0	
100	256QAM	1	1	17.87	17.86	17.95	19.0	0.0	
Channel									
Frequency (MHz)				508200	518598	528996	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	2571	2592.99	2643.99	19.0	0.0	
Channel									
Frequency (MHz)				507204	518598	529994	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	2578.02	2592.99	2649.99	19.0	0.0	
Channel									
Frequency (MHz)				506202	518598	531000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	2571.01	2592.99	2655	19.0	0.0	
Channel									
Frequency (MHz)				505200	518598	531996	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	2570	2592.99	2654.99	19.0	0.0	
Channel									
Frequency (MHz)				504204	518598	532998	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	2571.02	2592.99	2664.99	19.0	0.0	
Channel									
Frequency (MHz)				503202	518598	533000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	2576.01	2592.99	2670	19.0	0.0	
Channel									
Frequency (MHz)				502200	518598	533996	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2571.01	2592.99	2674.99	19.0	0.0	
Channel									
Frequency (MHz)				501204	518598	534998	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2568.02	2592.99	2679.99	19.0	0.0	
Channel									
Frequency (MHz)				500202	518598	535996	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2576.01	2592.99	2682.48	19.0	0.0	
Channel									
Frequency (MHz)				500200	518598	537000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2601.01	2592.99	2693	19.0	0.0	

Part270 n77 Main PA Ant1 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3700	3840	3900			
100	PI2 BPSK	1	1	16.85	16.96	17.03			
100	PI2 BPSK	1	137	16.97	17.03	16.93	18.5	0.0	
100	PI2 BPSK	1	271	16.76	16.75	16.72			
100	PI2 BPSK	135	0	16.84	16.91	16.82	18.5	0.0	
100	PI2 BPSK	135	69	17.04	17.02	17.04	18.5	0.0	
100	PI2 BPSK	135	138	16.77	16.75	16.71	18.5	0.0	
100	PI2 BPSK	270	0	16.97	16.92	16.91	18.5	0.0	
100	QPSK	1	1	17.05	17.12	17.09			
100	QPSK	1	137	16.81	16.98	16.93	18.5	0.0	
100	QPSK	1	271	16.96	17.03	17.01			
100	QPSK	135	0	16.84	17.00	16.93	18.5	0.0	
100	QPSK	135	69	16.96	17.04	16.91	18.5	0.0	
100	QPSK	135	138	16.71	16.95	16.88	18.5	0.0	
100	QPSK	270	0	16.90	16.94	16.93	18.5	0.0	
100	16QAM	1	1	16.83	16.86	16.88	18.5	0.0	
100	16QAM	1	1	16.99	16.96	16.98	18.5	0.0	
100	256QAM	1	1	16.66	16.85	16.74	18.5	0.0	
Channel									
Frequency (MHz)				649668	650000	662334	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3743.02	3840	3923.01	18.5	0.0	
Channel									
Frequency (MHz)				649334	650000	663668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3840	3940.02	18.5	0.0	
Channel									
Frequency (MHz)				648999	650000	664334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3735.99	3840	3955.02	18.5	0.0	
Channel									
Frequency (MHz)				648666	650000	665000	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3731.97	3840	3970.01	18.5	0.0	
Channel									
Frequency (MHz)				648334	650000	665668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3725.01	3840	3985.02	18.5	0.0	
Channel									
Frequency (MHz)				648000	650000	666334	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3720	3840	3990	18.5	0.0	
Channel									
Frequency (MHz)				647668	650000	667000	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3715.02	3840	3995.01	18.5	0.0	
Channel									
Frequency (MHz)				647334	650000	667668	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3712.5	3840	3997.5	18.5	0.0	
Channel									
Frequency (MHz)				647000	650000	668334	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3707.52	3840	3992.51	18.5	0.0	
Channel									
Frequency (MHz)				646668	650000	669000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3705	3840	3995	18.5	0.0	



Part270 n77 PC2 Main PA Ant1 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.15	20.17	20.02			
100	PI2 BPSK	1	137	20.05	20.14	19.98	21.5	0.0	
100	PI2 BPSK	1	271	20.15	20.04	20.06			
100	PI2 BPSK	135	0	20.09	20.12	19.99	21.5	0.0	
100	PI2 BPSK	135	69	20.20	20.14	20.02	21.5	0.0	
100	PI2 BPSK	135	138	19.95	20.17	20.00			
100	PI2 BPSK	270	0	20.15	20.12	20.12	21.5	0.0	
100	QPSK	1	1	20.20	20.22	20.18			
100	QPSK	1	137	20.14	20.08	20.07	21.5	0.0	
100	QPSK	1	271	20.03	20.15	20.04			
100	QPSK	135	0	20.08	20.11	20.02	21.5	0.0	
100	QPSK	135	69	20.14	20.20	20.17	21.5	0.0	
100	QPSK	135	138	20.03	20.16	20.00			
100	QPSK	270	0	20.17	20.18	20.13	21.5	0.0	
100	8QAM	1	1	20.10	20.03	20.18			
100	8QAM	1	1	20.12	20.09	20.02	21.5	0.0	
100	25QAM	1	1	19.29	19.20	19.14	20.5	1.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649688	650000	652334	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3742.02	3840	3850.01	limit (dB)	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3749.01	3840	3849.02	limit (dB)	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.01	20.09	20.01	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	649000	650000	650000	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3735	3840	3845	limit (dB)	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.00	20.02	20.02	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648668	650000	653334	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3742.02	3840	3850.01	limit (dB)	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	650668	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3725.01	3840	3850.02	limit (dB)	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.09	20.06	20.09	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	650000	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3720	3840	3850	limit (dB)	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.07	20.08	19.99	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	654334	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3715.02	3840	3850.01	limit (dB)	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.05	20.21	20.13	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647000	650000	654000	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3712.5	3840	3857.5	limit (dB)	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.07	20.18	20.10	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	650668	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3710.01	3840	3870.02	limit (dB)	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.10	20.06	20.04	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	654834	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3707.52	3840	3872.51	limit (dB)	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.00	20.03	20.03	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	650000	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3705	3840	3875	limit (dB)	0.0	
10	QPSK	1	1	20.19	20.21	19.99	21.5	0.0	

Part27Q n77 Main PA Ant1 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.11				
100	PI2 BPSK	1	137		17.02		18.5	0.0	
100	PI2 BPSK	1	271		17.06				
100	PI2 BPSK	135	0		17.00		18.5	0.0	
100	PI2 BPSK	135	69		17.21		18.5	0.0	
100	PI2 BPSK	135	138		16.94				
100	PI2 BPSK	270	0		17.02		18.5	0.0	
100	QPSK	1	1		17.25				
100	QPSK	1	137		17.15		18.5	0.0	
100	QPSK	1	271		17.06				
100	QPSK	135	0		16.99		18.5	0.0	
100	QPSK	135	69		17.17		18.5	0.0	
100	QPSK	135	138		17.09				
100	QPSK	270	0		17.19		18.5	0.0	
100	8QAM	1	1		16.94		18.5	0.0	
100	8QAM	1	1		16.83		18.5	0.0	
100	25QAM	1	1		17.20		18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3456	3500.01	3523.02	limit (dB)	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632968	633334	634000	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3500.01	3510	limit (dB)	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.11	17.10	16.94	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632834	633334	634334	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3485.01	3500.01	3515.01	limit (dB)	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.00	17.10	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3470	3500.01	3523.02	limit (dB)	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3476.02	3500.01	3525	limit (dB)	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.06	17.13	17.08	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	635334	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	3500.01	3530.01	limit (dB)	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.08	17.15	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3476	3500.01	3523.02	limit (dB)	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.02	17.14	16.92	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	636334	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3462.51	3500.01	3537.51	limit (dB)	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.11	17.21	16.96	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	636000	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3450.02	3500.01	3540	limit (dB)	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.97	17.09	17.10	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	636168	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3473.52	3500.01	3523.02	limit (dB)	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	636334	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3455.01	3500.01	3545.01	limit (dB)	0.0	
10	QPSK	1	1	17.08	17.09	16.93	18.5	0.0	

Part27Q n77 PC2 Main PA Ant1 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		20.38				
100	PI2 BPSK	1	137		20.27		21.5	0.0	
100	PI2 BPSK	1	271		20.35				
100	PI2 BPSK	135	0		20.38		21.5	0.0	
100	PI2 BPSK	135	69		20.38		21.5	0.0	
100	PI2 BPSK	135	138		20.41				
100	PI2 BPSK	270	0		20.36		21.5	0.0	
100	QPSK	1	1		20.45				
100	QPSK	1	137		20.36		21.5	0.0	
100	QPSK	1	271		20.27				
100	QPSK	135	0		20.35		21.5	0.0	
100	QPSK	135	69		20.44		21.5	0.0	
100	QPSK	135	138		20.30				
100	QPSK	270	0		20.42		21.5	0.0	
100	8QAM	1	1		20.41				
100	8QAM								



Part270 n78 Main PA Ant1 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000			
Channel				3750	3750	3750			
Frequency (MHz)				17.14					
100	PI2 BPSK	1	1				18.0	0.0	
100	PI2 BPSK	1	137		16.99				
100	PI2 BPSK	1	271		16.87				
100	PI2 BPSK	135	0		18.82		18.0	0.0	
100	PI2 BPSK	135	69		17.10		18.0	0.0	
100	PI2 BPSK	135	138		18.81				
100	PI2 BPSK	270	0		16.98		18.0	0.0	
100	QPSK	1	1		17.15				
100	QPSK	1	137		17.07		18.0	0.0	
100	QPSK	1	271		17.06				
100	QPSK	135	0		17.06		18.0	0.0	
100	QPSK	135	69		17.10		18.0	0.0	
100	QPSK	135	138		17.03		18.0	0.0	
100	QPSK	270	0		17.00		18.0	0.0	
100	16QAM	1	1		16.93		18.0	0.0	
100	64QAM	1	1		16.96		18.0	0.0	
100	256QAM	1	1		16.95		18.0	0.0	
Channel				649698	650000	650334	turn-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3763.01	(dB)	(dB)	
50	QPSK	1	1		17.25	17.14	16.97	18.0	0.0
Channel				649334	650000	650668	turn-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dB)	(dB)	
80	QPSK	1	1		16.99	17.11	16.95	18.0	0.0
Channel				649000	650000	651000	turn-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765	(dB)	(dB)	
70	QPSK	1	1		17.01	17.11	17.01	18.0	0.0
Channel				648698	650000	651334	turn-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dB)	(dB)	
60	QPSK	1	1		16.95	17.03	17.04	18.0	0.0
Channel				648334	650000	651668	turn-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dB)	(dB)	
50	QPSK	1	1		16.96	17.06	16.93	18.0	0.0
Channel				648000	650000	652000	turn-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780	(dB)	(dB)	
40	QPSK	1	1		16.89	17.14	16.99	18.0	0.0
Channel				647698	650000	652334	turn-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3783.01	(dB)	(dB)	
30	QPSK	1	1		16.95	17.03	17.05	18.0	0.0
Channel				647500	650000	652500	turn-up limit (dBm)	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dB)	(dB)	
25	QPSK	1	1		16.94	17.12	17.04	18.0	0.0
Channel				647334	650000	652668	turn-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dB)	(dB)	
20	QPSK	1	1		16.91	17.13	16.94	18.0	0.0
Channel				647198	650000	652834	turn-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dB)	(dB)	
15	QPSK	1	1		16.87	17.03	16.98	18.0	0.0
Channel				647000	650000	653000	turn-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795	(dB)	(dB)	
10	QPSK	1	1		17.00	17.00	16.97	18.0	0.0

Part270 n78 PC2 Main PA Ant1 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000			
Channel				3750	3750	3750			
Frequency (MHz)				19.89					
100	PI2 BPSK	1	1				21.0	0.0	
100	PI2 BPSK	1	137		19.89				
100	PI2 BPSK	1	271		19.88				
100	PI2 BPSK	135	0		20.00		21.0	0.0	
100	PI2 BPSK	135	69		19.73		21.0	0.0	
100	PI2 BPSK	135	138		19.78		21.0	0.0	
100	PI2 BPSK	270	0		19.89		21.0	0.0	
100	QPSK	1	1		20.01				
100	QPSK	1	137		19.78		21.0	0.0	
100	QPSK	1	271		19.76				
100	QPSK	135	0		19.82		21.0	0.0	
100	QPSK	135	69		20.00		21.0	0.0	
100	QPSK	135	138		19.80		21.0	0.0	
100	QPSK	270	0		19.84		21.0	0.0	
100	16QAM	1	1		19.82		21.0	0.0	
100	64QAM	1	1		19.41		21.0	0.0	
100	256QAM	1	1		19.97		21.0	0.0	
Channel				649698	650000	650334	turn-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3763.01	(dB)	(dB)	
50	QPSK	1	1		19.84	19.95	19.87	21.0	0.0
Channel				649334	650000	650668	turn-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dB)	(dB)	
80	QPSK	1	1		19.83	19.97	19.79	21.0	0.0
Channel				649000	650000	651000	turn-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765	(dB)	(dB)	
70	QPSK	1	1		19.84	19.90	19.89	21.0	0.0
Channel				648698	650000	651334	turn-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dB)	(dB)	
60	QPSK	1	1		19.95	19.97	19.75	21.0	0.0
Channel				648334	650000	651668	turn-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dB)	(dB)	
50	QPSK	1	1		19.90	19.87	19.91	21.0	0.0
Channel				648000	650000	652000	turn-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780	(dB)	(dB)	
40	QPSK	1	1		19.88	19.98	19.76	21.0	0.0
Channel				647698	650000	652334	turn-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3783.01	(dB)	(dB)	
30	QPSK	1	1		19.95	19.95	19.73	21.0	0.0
Channel				647500	650000	652500	turn-up limit (dBm)	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dB)	(dB)	
25	QPSK	1	1		19.78	19.86	19.90	21.0	0.0
Channel				647334	650000	652668	turn-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dB)	(dB)	
20	QPSK	1	1		19.84	20.00	19.84	21.0	0.0
Channel				647198	650000	652834	turn-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dB)	(dB)	
15	QPSK	1	1		19.78	19.83	19.85	21.0	0.0
Channel				647000	650000	653000	turn-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795	(dB)	(dB)	
10	QPSK	1	1		19.77	19.89	19.71	21.0	0.0



Part27Q n78 Main PA Ant1 DSI4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq. 633334]	Power Middle Ch. [Freq. 633334]	Power High Ch. [Freq. 633334]	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi/2 BPSK	1	1	17.30	3500.01		
100	Pi/2 BPSK	1	137	17.24	17.19	18.0	0.0
100	Pi/2 BPSK	1	271	16.99			
100	Pi/2 BPSK	135	0	16.89	18.0	0.0	
100	Pi/2 BPSK	135	69	17.19	18.0	0.0	
100	Pi/2 BPSK	135	133	17.08			
100	Pi/2 BPSK	270	0	17.29	18.0	0.0	
100	QPSK	1	1	17.44			
100	QPSK	1	137	17.30		18.0	0.0
100	QPSK	1	271	17.24			
100	QPSK	135	0	17.35		18.0	0.0
100	QPSK	135	69	17.40		18.0	0.0
100	QPSK	135	138	17.22		18.0	0.0
100	QPSK	270	0	17.12		18.0	0.0
100	16QAM	1	1	17.12		18.0	0.0
100	16QAM	1	1	16.85		18.0	0.0
100	256QAM	1	1	17.07		18.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.22	17.19	16.92	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.02	17.17	17.06	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.11	17.14	17.01	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.11	17.07	16.93	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.19	17.21	16.93	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.11	17.25	16.95	18.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.11	17.23	16.98	18.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	17.14	17.20	16.97	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.22	17.09	17.09	18.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.08	17.14	17.05	18.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.22	17.08	16.88	18.0

Part27Q n78 PC2 Main PA Ant1 DSI4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq. 633334]	Power Middle Ch. [Freq. 633334]	Power High Ch. [Freq. 633334]	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi/2 BPSK	1	1	20.12	3500.01		
100	Pi/2 BPSK	1	137	19.92	18.0	21.0	0.0
100	Pi/2 BPSK	1	271	19.87			
100	Pi/2 BPSK	135	0	20.23	18.0	21.0	0.0
100	Pi/2 BPSK	135	69	19.82	18.0	21.0	0.0
100	Pi/2 BPSK	135	133	19.79			
100	Pi/2 BPSK	270	0	20.19	18.0	21.0	0.0
100	QPSK	1	1	20.29			
100	QPSK	1	137	20.05		21.0	0.0
100	QPSK	1	271	19.97			
100	QPSK	135	0	20.07		21.0	0.0
100	QPSK	135	69	20.22		21.0	0.0
100	QPSK	135	138	20.14		21.0	0.0
100	QPSK	270	0	20.12		21.0	0.0
100	16QAM	1	1	19.98		21.0	0.0
100	16QAM	1	1	19.66		21.0	0.0
100	256QAM	1	1	20.10		21.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.03	20.00	19.92	21.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.04	19.98	19.98	21.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.96	20.07	19.88	21.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.06	20.12	20.01	21.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.00	19.98	19.89	21.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.01	20.08	19.84	21.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.93	20.04	20.01	21.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.12	19.99	19.79	21.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.06	20.12	19.85	21.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.14	19.95	19.85	21.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.98	19.88	19.90	21.0



n7 Main PA Ant2 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	21.25	21.33	21.24		
50	PI2 BPSK	1	135	21.07	21.23	21.21	22.2	0.0
50	PI2 BPSK	1	268	20.80	21.17	20.89		
50	PI2 BPSK	135	0	21.17	21.38	21.23	22.2	0.0
50	PI2 BPSK	135	68	21.13	21.15	21.20	22.2	0.0
50	PI2 BPSK	135	155	21.07	21.19	21.19		
50	PI2 BPSK	270	0	21.27	21.28	21.32	22.2	0.0
50	QPSK	1	1	21.33	21.37	21.23		
50	QPSK	1	135	21.13	21.25	21.07	22.2	0.0
50	QPSK	1	268	21.01	21.06	21.07		
50	QPSK	135	0	21.19	21.23	21.18	22.2	0.0
50	QPSK	135	68	21.14	21.27	21.23	22.2	0.0
50	QPSK	135	135	21.05	21.23	21.21		
50	QPSK	270	0	21.10	21.19	21.17	22.2	0.0
50	16QAM	1	1	21.14	21.29	21.24	22.2	0.0
50	64QAM	1	1	21.18	21.13	21.16	22.2	0.0
50	256QAM	1	1	20.32	20.49	20.44	21.2	1.0
Channel				504000	507000	510000	limit (dB)	MPR
Frequency (MHz)				2525	2535	2545		
40	QPSK	1	1	21.19	21.16	21.15	22.2	0.0
Channel				503000	507000	511000	limit (dB)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.15	21.20	21.24	22.2	0.0
Channel				502500	507000	511500	limit (dB)	MPR
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.18	21.20	21.17	22.2	0.0
Channel				502000	507000	512000	limit (dB)	MPR
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	21.26	21.18	21.09	22.2	0.0
Channel				501500	507000	512500	limit (dB)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.32	21.31	21.08	22.2	0.0
Channel				501000	507000	513000	limit (dB)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.30	21.28	21.07	22.2	0.0
Channel				500500	507000	513500	limit (dB)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.14	21.22	21.08	22.2	0.0

n66 Main PA Ant2 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	21.14	21.18	21.23		
45	PI2 BPSK	1	120	21.07	21.24	21.08	22.0	0.0
45	PI2 BPSK	1	243	20.75	20.96	20.87		
45	PI2 BPSK	120	0	21.13	21.21	21.03	22.0	0.0
45	PI2 BPSK	120	60	21.13	21.19	21.16	22.0	0.0
45	PI2 BPSK	120	120	21.08	21.22	21.03		
45	PI2 BPSK	240	0	21.19	21.35	21.32	22.0	0.0
45	QPSK	1	1	21.31	21.42	21.38		
45	QPSK	1	120	21.24	21.09	21.15	22.0	0.0
45	QPSK	1	243	21.06	21.11	21.04		
45	QPSK	120	0	20.95	20.74	20.63	22.0	0.0
45	QPSK	120	60	21.19	21.25	21.21	22.0	0.0
45	QPSK	120	120	20.65	20.88	20.56		
45	QPSK	240	0	21.16	21.19	21.11	22.0	0.0
45	16QAM	1	1	20.70	20.73	20.75	22.0	0.0
45	64QAM	1	1	21.20	21.20	21.15	22.0	0.0
45	256QAM	1	1	19.30	19.44	19.39	20.0	2.0
Channel				346000	349000	352000	limit (dB)	MPR
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	21.02	20.93	20.96	22.0	0.0
Channel				345500	349000	352500	limit (dB)	MPR
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	21.24	21.09	20.98	22.0	0.0
Channel				345000	349000	353000	limit (dB)	MPR
Frequency (MHz)				1725	1745	1766		
30	QPSK	1	1	21.23	20.90	21.15	22.0	0.0
Channel				344500	349000	353500	limit (dB)	MPR
Frequency (MHz)				1722.5	1745	1768.5		
25	QPSK	1	1	21.02	20.96	21.06	22.0	0.0
Channel				344000	349000	354000	limit (dB)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.14	20.92	21.15	22.0	0.0
Channel				343500	349000	354500	limit (dB)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.20	21.01	20.95	22.0	0.0
Channel				343000	349000	355000	limit (dB)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.03	21.06	20.98	22.0	0.0
Channel				342500	349000	355500	limit (dB)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.20	20.99	21.07	22.0	0.0



n38 Main PA Ant2 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.			
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	20.98	21.20	21.11			
40	PI2 BPSK	1	53	20.91	21.06	21.01	21.7	0.0	
40	PI2 BPSK	1	104	20.84	20.83	20.84			
40	PI2 BPSK	50	0	21.11	21.10	21.12	21.7	0.0	
40	PI2 BPSK	80	28	21.03	21.07	21.11	21.7	0.0	
40	PI2 BPSK	50	56	20.98	21.21	21.00			
40	PI2 BPSK	100	0	21.11	21.22	21.04	21.7	0.0	
40	QPSK	1	1	21.21	21.25	21.19			
40	QPSK	1	83	21.02	21.11	20.99	21.7	0.0	
40	QPSK	1	104	20.99	20.84	21.01			
40	QPSK	50	0	21.14	21.15	21.05	21.7	0.0	
40	QPSK	50	28	21.14	21.20	21.13	21.7	0.0	
40	QPSK	50	56	21.07	21.13	21.15	21.7	0.0	
40	QPSK	100	0	21.15	21.22	21.17			
40	16QAM	1	1	20.92	21.15	21.05	21.7	0.0	
40	64QAM	1	1	20.90	20.91	21.06	21.7	0.0	
40	256QAM	1	1	20.73	20.85	20.77	21.2	0.5	
Channel				517002	519000	520998	turn-up limit (dB)	MPR	
Frequency (MHz)				2580.01	2595	2604.99			
30	QPSK	1	1	20.95	21.16	20.95	21.7	0.0	
Channel				518504	519000	521496	turn-up limit (dB)	MPR	
Frequency (MHz)				2592.02	2595	2607.48			
25	QPSK	1	1	21.03	21.22	20.93	21.7	0.0	
Channel				518000	519000	522000	turn-up limit (dB)	MPR	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	21.15	21.05	21.05	21.7	0.0	
Channel				515502	519000	522498	turn-up limit (dB)	MPR	
Frequency (MHz)				2577.01	2595	2612.49			
15	QPSK	1	1	21.01	21.20	21.05	21.7	0.0	
Channel				515004	519000	522996	turn-up limit (dB)	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	20.99	21.24	20.96	21.7	0.0	

n41 Main PA Ant2 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.			
Channel				506002	518998	529000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.62	20.71	20.62			
100	PI2 BPSK	1	137	20.42	20.65	20.62	21.2	0.0	
100	PI2 BPSK	1	271	20.54	20.51	20.43			
100	PI2 BPSK	135	0	20.67	20.76	20.90	21.2	0.0	
100	PI2 BPSK	135	69	20.62	20.58	20.66	21.2	0.0	
100	PI2 BPSK	135	138	20.57	20.84	20.50			
100	PI2 BPSK	270	0	20.68	20.87	20.84	21.2	0.0	
100	QPSK	1	1	20.91	20.89	20.86			
100	QPSK	1	137	20.64	20.75	20.61	21.2	0.0	
100	QPSK	1	271	20.64	20.71	20.50			
100	QPSK	135	0	20.76	20.74	20.71	21.2	0.0	
100	QPSK	135	69	20.68	20.84	20.74	21.2	0.0	
100	QPSK	135	138	20.72	20.73	20.67	21.2	0.0	
100	QPSK	270	0	20.71	20.82	20.76			
100	16QAM	1	1	20.53	20.76	20.47	21.2	0.0	
100	64QAM	1	1	20.55	20.59	20.63	21.2	0.0	
100	256QAM	1	1	20.80	20.79	20.83	21.2	0.0	
Channel				506000	518998	528996	turn-up limit (dB)	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.61	20.93	20.54	21.2	0.0	
Channel				507204	518998	529996	turn-up limit (dB)	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.49	20.92	20.65	21.2	0.0	
Channel				506002	518998	531000	turn-up limit (dB)	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.68	20.96	20.76	21.2	0.0	
Channel				505200	518998	531996	turn-up limit (dB)	MPR	
Frequency (MHz)				2525	2592.99	2659.98			
60	QPSK	1	1	20.68	20.84	20.69	21.2	0.0	
Channel				504204	518998	532996	turn-up limit (dB)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.55	20.87	20.71	21.2	0.0	
Channel				503202	518998	534000	turn-up limit (dB)	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.64	20.88	20.76	21.2	0.0	
Channel				502200	518998	534996	turn-up limit (dB)	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.61	20.93	20.57	21.2	0.0	
Channel				501204	518998	535996	turn-up limit (dB)	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.62	20.89	20.67	21.2	0.0	
Channel				500700	518998	536996	turn-up limit (dB)	MPR	
Frequency (MHz)				2503.05	2592.99	2682.48			
15	QPSK	1	1	20.65	20.89	20.64	21.2	0.0	
Channel				500202	518998	537000	turn-up limit (dB)	MPR	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	20.52	20.80	20.76	21.2	0.0	



n7 Main PA Ant3 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	509000			
Frequency (MHz)				2512	2535	2545			
50	PI2 BPSK	1	1	19.54	19.60	19.31			
50	PI2 BPSK	1	135	19.25	19.41	19.45	21.0	0.0	
50	PI2 BPSK	1	268	19.20	19.21	19.21			
50	PI2 BPSK	135	0	19.40	19.54	19.46	21.0	0.0	
50	PI2 BPSK	135	68	19.36	19.39	19.45	21.0	0.0	
50	PI2 BPSK	135	155	19.47	19.44	19.37	21.0	0.0	
50	PI2 BPSK	270	0	19.42	19.54	19.43			
50	QPSK	1	1	19.47	19.61	19.44			
50	QPSK	1	135	19.31	19.48	19.39	21.0	0.0	
50	QPSK	1	268	19.28	19.44	19.44			
50	QPSK	135	0	19.44	19.51	19.42	21.0	0.0	
50	QPSK	135	68	19.47	19.56	19.44	21.0	0.0	
50	QPSK	135	135	19.44	19.51	19.43	21.0	0.0	
50	QPSK	270	0	19.45	19.49	19.46			
50	16QAM	1	1	19.35	19.45	19.29	21.0	0.0	
50	64QAM	1	1	19.34	19.31	19.43	21.0	0.0	
50	256QAM	1	1	18.18	18.24	18.17	19.5	1.5	
Channel				504000	507000	510000	limit (dB)	MPR	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	19.38	19.58	19.27	21.0	0.0	
Channel				503000	507000	511000	limit (dB)	MPR	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.47	19.45	19.33	21.0	0.0	
Channel				502500	507000	511500	limit (dB)	MPR	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.42	19.44	19.30	21.0	0.0	
Channel				502000	507000	512000	limit (dB)	MPR	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	19.34	19.52	19.30	21.0	0.0	
Channel				501500	507000	512500	limit (dB)	MPR	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.40	19.48	19.37	21.0	0.0	
Channel				501000	507000	513000	limit (dB)	MPR	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.45	19.60	19.39	21.0	0.0	
Channel				500500	507000	513500	limit (dB)	MPR	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.32	19.53	19.32	21.0	0.0	

n66 Main PA Ant3 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	349000	351500			
Frequency (MHz)				1732.5	1745	1737.5			
45	PI2 BPSK	1	1	18.83	18.87	18.74			
45	PI2 BPSK	1	120	18.75	18.79	18.80	20.5	0.0	
45	PI2 BPSK	1	243	18.74	18.77	18.76			
45	PI2 BPSK	120	0	18.79	18.83	18.61	20.5	0.0	
45	PI2 BPSK	120	60	18.66	18.73	18.73	20.5	0.0	
45	PI2 BPSK	120	120	18.65	18.71	18.81	20.5	0.0	
45	PI2 BPSK	240	0	18.79	18.89	18.67			
45	QPSK	1	1	18.95	18.99	18.92			
45	QPSK	1	120	18.61	18.77	18.73	20.5	0.0	
45	QPSK	1	243	18.75	18.71	18.67			
45	QPSK	120	0	18.71	18.82	18.75	20.5	0.0	
45	QPSK	120	60	18.78	18.84	18.84	20.5	0.0	
45	QPSK	120	120	18.79	18.78	18.79	20.5	0.0	
45	QPSK	240	0	18.82	18.86	18.80			
45	16QAM	1	1	18.69	18.93	18.60	20.5	0.0	
45	64QAM	1	1	18.62	18.66	18.60	20.5	0.0	
45	256QAM	1	1	17.19	17.23	17.14	19.0	1.5	
Channel				346000	349000	352000	limit (dB)	MPR	
Frequency (MHz)				1720	1745	1760			
40	QPSK	1	1	18.54	18.53	18.57	20.5	0.0	
Channel				345500	349000	352500	limit (dB)	MPR	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	18.61	18.60	18.64	20.5	0.0	
Channel				345000	349000	353000	limit (dB)	MPR	
Frequency (MHz)				1725	1745	1766			
30	QPSK	1	1	18.66	18.75	18.62	20.5	0.0	
Channel				344500	349000	353500	limit (dB)	MPR	
Frequency (MHz)				1722.5	1745	1768.5			
25	QPSK	1	1	18.77	18.60	18.63	20.5	0.0	
Channel				344000	349000	354000	limit (dB)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.70	18.57	18.75	20.5	0.0	
Channel				343500	349000	354500	limit (dB)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.58	18.64	18.74	20.5	0.0	
Channel				343000	349000	355000	limit (dB)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.66	18.64	18.65	20.5	0.0	
Channel				342500	349000	355500	limit (dB)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.68	18.69	18.78	20.5	0.0	



n38 Main PA Ant3 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. F Freq	Middle Ch. F Freq	High Ch. F Freq		
Channel				519004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	18.99	19.15	18.83		
40	PI2 BPSK	1	83	18.89	18.96	18.79	20.5	0.0
40	PI2 BPSK	1	104	18.89	18.84	18.78		
40	PI2 BPSK	50	0	19.10	19.24	19.16	20.5	0.0
40	PI2 BPSK	50	28	18.99	18.99	19.14	20.5	0.0
40	PI2 BPSK	50	56	19.02	19.14	18.86	20.5	0.0
40	PI2 BPSK	100	0	19.17	19.19	19.09		
40	QPSK	1	1	18.95	19.25	18.17		
40	QPSK	1	83	19.01	19.19	19.01	20.5	0.0
40	QPSK	1	104	18.97	19.22	19.14		
40	QPSK	50	0	19.83	19.06	19.16	20.5	0.0
40	QPSK	50	28	19.18	19.21	19.15	20.5	0.0
40	QPSK	50	56	18.97	18.96	19.03	20.5	0.0
40	QPSK	100	0	19.12	19.16	19.06		
40	16QAM	1	1	19.04	19.14	19.12	20.5	0.0
40	64QAM	1	1	18.93	19.12	19.12	20.5	0.0
40	256QAM	1	1	18.84	18.91	18.87	20.0	0.5
Channel				517002	519000	520998	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2582.01	2595	2604.99		
30	QPSK	1	1	18.78	19.20	18.85	20.5	0.0
Channel				516504	519000	521496	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2582.02	2595	2607.48		
25	QPSK	1	1	18.84	19.20	18.83	20.5	0.0
Channel				516000	519000	522000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	18.94	19.23	18.94	20.5	0.0
Channel				515502	519000	522498	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2577.01	2595	2612.49		
15	QPSK	1	1	18.85	19.09	18.89	20.5	0.0
Channel				515004	519000	522996	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	18.78	19.11	19.12	20.5	0.0

n41 Main PA Ant3 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. F Freq	Middle Ch. F Freq	High Ch. F Freq		
Channel				509502	518598	528500		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	18.12	18.39	18.14		
100	PI2 BPSK	1	137	18.20	18.19	18.06	20.0	0.0
100	PI2 BPSK	1	271	18.20	18.28	18.02		
100	PI2 BPSK	135	0	18.20	18.48	18.23	20.0	0.0
100	PI2 BPSK	135	69	18.18	18.33	18.14	20.0	0.0
100	PI2 BPSK	135	135	18.04	18.37	18.29	20.0	0.0
100	PI2 BPSK	270	0	18.32	18.30	18.31		
100	QPSK	1	1	18.23	18.52	18.36		
100	QPSK	1	137	18.23	18.25	18.21	20.0	0.0
100	QPSK	1	271	18.28	18.34	18.22		
100	QPSK	135	0	18.22	18.40	18.18	20.0	0.0
100	QPSK	135	69	18.44	18.48	18.27	20.0	0.0
100	QPSK	135	138	18.17	18.28	18.08	20.0	0.0
100	QPSK	270	0	18.25	18.26	18.18		
100	16QAM	1	1	18.19	18.42	18.28	20.0	0.0
100	64QAM	1	1	18.21	18.26	18.25	20.0	0.0
100	256QAM	1	1	18.37	18.45	18.39	20.0	0.0
Channel				508200	518598	528996	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.14	18.49	18.56	20.0	0.0
Channel				507204	518598	529996	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.20	18.38	18.19	20.0	0.0
Channel				505502	518598	531000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2605		
70	QPSK	1	1	18.01	18.45	18.26	20.0	0.0
Channel				505000	518598	531996	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2525	2592.99	2619.98		
60	QPSK	1	1	18.12	18.45	18.52	20.0	0.0
Channel				504204	518598	532996	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2604.99		
50	QPSK	1	1	18.19	18.50	18.33	20.0	0.0
Channel				503502	518598	534000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2610		
40	QPSK	1	1	18.07	18.41	18.15	20.0	0.0
Channel				502200	518598	534996	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2511	2592.99	2614.98		
30	QPSK	1	1	18.05	18.23	18.23	20.0	0.0
Channel				501204	518598	535996	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2619.99		
20	QPSK	1	1	18.04	18.45	18.25	20.0	0.0
Channel				500760	518598	536996	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2503.05	2592.99	2612.48		
15	QPSK	1	1	18.18	18.45	18.16	20.0	0.0
Channel				500202	518598	537000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2605		
10	QPSK	1	1	18.13	18.41	18.25	20.0	0.0





n7 Main PA Ant4 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	19.33	19.50	19.37		
50	PI2 BPSK	1	135	19.34	19.48	19.17	20.5	0.0
50	PI2 BPSK	1	268	19.33	19.39	19.28		
50	PI2 BPSK	135	0	19.47	19.48	19.39	20.5	0.0
50	PI2 BPSK	135	68	19.45	19.49	19.33	20.5	0.0
50	PI2 BPSK	135	135	19.34	19.44	19.40	20.5	0.0
50	PI2 BPSK	270	0	19.45	19.51	19.53		
50	QPSK	1	1	19.50	19.64	19.57		
50	QPSK	1	135	19.41	19.59	19.30	20.5	0.0
50	QPSK	1	268	19.45	19.53	19.61		
50	QPSK	135	0	19.29	19.43	19.49	20.5	0.0
50	QPSK	135	68	19.49	19.57	19.33	20.5	0.0
50	QPSK	135	135	19.29	19.37	19.22	20.5	0.0
50	QPSK	270	0	19.35	19.51	19.28	20.5	0.0
50	16QAM	1	1	19.50	19.45	19.47	20.5	0.0
50	64QAM	1	1	19.44	19.48	19.40	20.5	0.0
50	256QAM	1	1	19.48	19.63	19.55	20.5	0.0
Channel				504000	507000	510000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2525	2535	2525		
40	QPSK	1	1	19.49	19.37	19.45	20.5	0.0
Channel				503000	507000	511000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	19.47	19.47	19.61	20.5	0.0
Channel				502000	507000	511000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	19.39	19.53	19.57	20.5	0.0
Channel				502000	507000	512000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	19.51	19.56	19.58	20.5	0.0
Channel				501500	507000	512500	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	19.30	19.49	19.58	20.5	0.0
Channel				501000	507000	513500	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	19.35	19.60	19.52	20.5	0.0
Channel				500500	507000	513500	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.38	19.55	19.58	20.5	0.0

n66 Main PA Ant4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1737.5		
45	PI2 BPSK	1	1	23.63	23.72	23.67		
45	PI2 BPSK	1	120	23.47	23.67	23.55	24.5	0.0
45	PI2 BPSK	1	243	23.39	23.55	23.45		
45	PI2 BPSK	120	0	23.06	23.17	23.20	24.0	0.5
45	PI2 BPSK	120	60	23.65	23.68	23.58	24.5	0.0
45	PI2 BPSK	120	120	23.69	23.23	23.98	24.0	0.5
45	PI2 BPSK	240	0	23.25	23.24	23.18		
45	QPSK	1	1	23.69	23.76	23.72		
45	QPSK	1	120	23.48	23.71	23.59	24.5	0.0
45	QPSK	1	243	23.64	23.69	23.68		
45	QPSK	120	0	22.74	22.83	22.59	23.5	1.0
45	QPSK	120	60	23.48	23.65	23.60	24.5	0.0
45	QPSK	120	120	22.44	22.58	22.47	23.5	1.0
45	QPSK	240	0	22.58	22.61	22.52	23.5	1.0
45	16QAM	1	1	22.63	22.57	22.60	23.5	1.0
45	64QAM	1	1	20.97	21.17	21.11	22.0	2.5
45	256QAM	1	1	19.23	19.35	19.33	20.0	4.5
Channel				348000	349000	352000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1731	1745	1740		
40	QPSK	1	1	23.62	23.71	23.59	24.5	0.0
Channel				345500	349000	352500	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	23.64	23.73	23.70	24.5	0.0
Channel				345500	349000	353000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.60	23.63	23.62	24.5	0.0
Channel				344500	349000	353500	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.66	23.72	23.65	24.5	0.0
Channel				344500	349000	354000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.57	23.69	23.60	24.5	0.0
Channel				343500	349000	354500	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.54	23.62	23.59	24.5	0.0
Channel				343000	349000	355000	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.58	23.70	23.58	24.5	0.0
Channel				342500	349000	355500	tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.55	23.72	23.68	24.5	0.0



n38 Main PA Ant4 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.		
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	19.85	19.85	19.88		
40	PI2 BPSK	1	83	19.79	19.80	19.81	20.2	0.0
40	PI2 BPSK	1	104	19.80	19.93	19.83		
40	PI2 BPSK	50	0	19.91	19.94	19.81	20.2	0.0
40	PI2 BPSK	50	28	19.63	20.04	19.75	20.2	0.0
40	PI2 BPSK	50	56	19.79	19.89	19.77	20.2	0.0
40	PI2 BPSK	100	0	19.86	20.01	19.90	20.2	0.0
40	QPSK	1	1	19.90	20.08	19.94		
40	QPSK	1	83	19.92	19.93	19.73	20.2	0.0
40	QPSK	1	104	19.78	19.88	19.79		
40	QPSK	50	0	19.89	20.01	19.85	20.2	0.0
40	QPSK	50	28	19.88	20.04	19.88	20.2	0.0
40	QPSK	50	56	19.86	19.94	19.76	20.2	0.0
40	QPSK	100	0	19.89	20.03	19.77	20.2	0.0
40	16QAM	1	1	19.94	19.70	19.93	20.2	0.0
40	64QAM	1	1	19.68	20.02	19.79	20.2	0.0
40	256QAM	1	1	20.02	19.86	19.83	20.2	0.0
Channel				517002	519000	520998	tune-up limit (dB)	MPR
Frequency (MHz)				2582.01	2595	2604.99		
30	QPSK	1	1	20.04	19.87	19.69	20.2	0.0
Channel				516504	519000	521496	tune-up limit (dB)	MPR
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	19.90	19.63	19.84	20.2	0.0
Channel				516000	519000	522000	tune-up limit (dB)	MPR
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	19.96	19.94	19.89	20.2	0.0
Channel				515502	519000	522498	tune-up limit (dB)	MPR
Frequency (MHz)				2587.01	2595	2612.99		
15	QPSK	1	1	20.07	19.75	19.85	20.2	0.0
Channel				515004	519000	522996	tune-up limit (dB)	MPR
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	19.99	19.85	19.77	20.2	0.0

n41 Main PA Ant4 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. F Freq.	Middle Ch. F Freq.	High Ch. F Freq.		
Channel				506502	518598	528500		
Frequency (MHz)				2446.01	2502.99	2640		
100	PI2 BPSK	1	1	19.37	19.33	19.32		
100	PI2 BPSK	1	137	19.22	19.20	19.25	19.7	0.0
100	PI2 BPSK	1	271	19.23	19.24	19.13		
100	PI2 BPSK	135	0	19.35	19.39	19.24	19.7	0.0
100	PI2 BPSK	135	69	19.11	19.41	19.20	19.7	0.0
100	PI2 BPSK	135	135	19.20	19.16	19.09	19.7	0.0
100	PI2 BPSK	270	0	19.24	19.37	19.29		
100	QPSK	1	1	19.35	19.42	19.28		
100	QPSK	1	137	19.31	19.32	19.20	19.7	0.0
100	QPSK	1	271	19.18	19.37	19.10		
100	QPSK	135	0	19.27	19.34	19.21	19.7	0.0
100	QPSK	135	69	19.29	19.41	19.15	19.7	0.0
100	QPSK	135	138	19.23	19.40	19.24	19.7	0.0
100	QPSK	270	0	19.28	19.35	19.29		
100	16QAM	1	1	19.34	19.20	19.22	19.7	0.0
100	64QAM	1	1	19.17	19.39	19.21	19.7	0.0
100	256QAM	1	1	19.31	19.35	19.30	19.7	0.0
Channel				505200	518598	528996	tune-up limit (dB)	MPR
Frequency (MHz)				2441	2502.99	2644.98		
90	QPSK	1	1	19.38	19.21	19.16	19.7	0.0
Channel				507204	518598	529996	tune-up limit (dB)	MPR
Frequency (MHz)				2536.02	2562.99	2649.99		
80	QPSK	1	1	19.19	19.24	19.24	19.7	0.0
Channel				505502	518598	531000	tune-up limit (dB)	MPR
Frequency (MHz)				2531.01	2592.99	2685		
70	QPSK	1	1	19.21	19.32	19.17	19.7	0.0
Channel				505000	518598	531996	tune-up limit (dB)	MPR
Frequency (MHz)				2525	2592.99	2689.98		
60	QPSK	1	1	19.20	19.12	19.09	19.7	0.0
Channel				504204	518598	532996	tune-up limit (dB)	MPR
Frequency (MHz)				2521.02	2562.99	2684.99		
50	QPSK	1	1	19.27	19.14	19.24	19.7	0.0
Channel				503502	518598	534000	tune-up limit (dB)	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.34	19.29	19.09	19.7	0.0
Channel				502200	518598	534996	tune-up limit (dB)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.35	19.13	19.23	19.7	0.0
Channel				501204	518598	535996	tune-up limit (dB)	MPR
Frequency (MHz)				2506.02	2562.99	2679.99		
20	QPSK	1	1	19.19	19.29	19.24	19.7	0.0
Channel				500100	518598	536996	tune-up limit (dB)	MPR
Frequency (MHz)				2503.05	2592.99	2682.48		
15	QPSK	1	1	19.40	19.17	19.10	19.7	0.0
Channel				500202	518598	537000	tune-up limit (dB)	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.32	19.13	19.09	19.7	0.0



Part270 n77 Main PA Ant5 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.53	16.55	16.57			
100	PI2 BPSK	1	137	16.62	16.55	16.39	17.5	0.0	
100	PI2 BPSK	1	271	16.30	16.40	16.23			
100	PI2 BPSK	135	0	16.28	16.45	16.36	17.5	0.0	
100	PI2 BPSK	135	69	16.32	16.66	16.39	17.5	0.0	
100	PI2 BPSK	135	135	16.32	16.51	16.26	17.5	0.0	
100	PI2 BPSK	270	0	16.34	16.43	16.36			
100	QPSK	1	1	16.52	16.69	16.56			
100	QPSK	1	137	16.38	16.45	16.59	17.5	0.0	
100	QPSK	1	271	16.54	16.47	16.51			
100	QPSK	135	0	16.30	16.53	16.34	17.5	0.0	
100	QPSK	135	69	16.59	16.62	16.48	17.5	0.0	
100	QPSK	135	138	16.32	16.38	16.29	17.5	0.0	
100	QPSK	270	0	16.40	16.41	16.31			
100	16QAM	1	1	16.19	16.38	16.37	17.5	0.0	
100	16QAM	1	1	15.96	16.00	15.88	17.5	0.0	
100	256QAM	1	1	16.46	16.61	16.37	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.90	16.03	15.97	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.91	16.18	16.01	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.88	16.00	15.90	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.92	16.00	15.94	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.94	16.06	15.97	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.95	16.15	16.01	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.92	16.15	16.01	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.93	16.11	16.01	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.87	16.05	15.88	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.90	16.14	15.92	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.88	16.13	15.93	17.5	0.0	

Part270 n77 PC2 Main PA Ant5 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.33	19.52	19.54			
100	PI2 BPSK	1	137	19.57	19.39	19.26	20.5	0.0	
100	PI2 BPSK	1	271	19.15	19.37	19.07			
100	PI2 BPSK	135	0	19.12	19.31	19.19	20.5	0.0	
100	PI2 BPSK	135	69	19.36	19.55	19.27	20.5	0.0	
100	PI2 BPSK	135	135	19.17	19.40	19.23	20.5	0.0	
100	PI2 BPSK	270	0	19.21	19.26	19.19			
100	QPSK	1	1	19.56	19.71	19.59			
100	QPSK	1	137	19.24	19.32	19.57	20.5	0.0	
100	QPSK	1	271	19.54	19.46	19.52			
100	QPSK	135	0	19.17	19.31	19.19	20.5	0.0	
100	QPSK	135	69	19.42	19.64	19.28	20.5	0.0	
100	QPSK	135	138	19.18	19.24	19.17	20.5	0.0	
100	QPSK	270	0	19.22	19.35	19.32	20.5	0.0	
100	16QAM	1	1	19.06	19.29	19.37	20.5	0.0	
100	16QAM	1	1	18.95	18.87	18.87	20.5	0.0	
100	256QAM	1	1	19.30	19.49	19.36	20.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.01	19.09	19.00	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.96	19.13	19.08	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.88	19.19	19.04	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.00	19.08	19.05	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.04	19.18	19.02	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.91	19.15	18.93	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.98	19.08	19.00	20.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.90	19.06	19.06	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.01	19.02	18.89	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.98	19.11	19.08	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.97	19.17	19.01	20.5	0.0	

Part27Q n77 Main PA Ant5 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		16.63		17.5	0.0	
100	PI2 BPSK	1	271		16.39				
100	PI2 BPSK	135	0		16.61		17.5	0.0	
100	PI2 BPSK	135	69		16.75		17.5	0.0	
100	PI2 BPSK	135	138		16.58		17.5	0.0	
100	PI2 BPSK	270	0		16.53				
100	QPSK	1	1		16.82				
100	QPSK	1	137		16.74		17.5	0.0	
100	QPSK	1	271		16.61				
100	QPSK	135	0		16.61		17.5	0.0	
100	QPSK	135	69		16.73		17.5	0.0	
100	QPSK	135	138		16.56		17.5	0.0	
100	QPSK	270	0		16.67				
100	16QAM	1	1		16.17		17.5	0.0	
100	16QAM	1	1		15.97		17.5	0.0	
100	256QAM	1	1		16.41		17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.06	16.21	16.20	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.09	16.24	16.20	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.16	16.28	16.11	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.15	16.19	16.19	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.09	16.20	16.21	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.17	16.29	16.14	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.09	16.22	16.21	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.19	16.26	16.11	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.03	16.25	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.01	16.19	16.23	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.16	16.18	16.24	17.5	0.0	



Part27Q n77 PC2 Main PA Ant5 DSI4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3500.01	19.96					
100	PI2 BPSK	1	137	19.87			20.5	0.0		
100	PI2 BPSK	1	271	19.82						
100	PI2 BPSK	135	0	19.85			20.5	0.0		
100	PI2 BPSK	135	69	19.95			20.5	0.0		
100	PI2 BPSK	135	138	19.78			20.5	0.0		
100	PI2 BPSK	270	0	19.95						
100	QPSK	1	1	20.15						
100	QPSK	1	137	19.88			20.5	0.0		
100	QPSK	1	271	20.00						
100	QPSK	135	0	20.02			20.5	0.0		
100	QPSK	135	69	20.09			20.5	0.0		
100	QPSK	135	138	19.76			20.5	0.0		
100	QPSK	270	0	19.97						
100	64QAM	1	1	19.47			20.5	0.0		
100	64QAM	1	1	19.21			20.5	0.0		
100	256QAM	1	1	19.63			20.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	633000	633334	633668	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	19.55	19.50	19.59	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	632668	633334	634000	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.58	19.59	19.50	20.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	632334	633001	633511	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	19.51	19.49	19.42	20.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	632000	633334	633668	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.56	19.63	19.41	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	631668	633334	633000	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	19.54	19.54	19.51	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	631334	633334	633834	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	19.52	19.50	19.56	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	631000	633334	633668	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	19.59	19.47	19.42	20.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	630834	633334	633834	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	19.54	19.48	19.41	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	630668	633334	633000	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	19.55	19.52	19.43	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	630500	633334	633668	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	19.57	19.54	19.45	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	630334	633334	633834	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	19.54	19.56	19.50	20.5	0.0		

Part27O n78 Main PA Ant5 DSI4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3750	3750	3750				
100	PI2 BPSK	1	137	16.21						
100	PI2 BPSK	1	271	16.29			17.0	0.0		
100	PI2 BPSK	1	271	16.11						
100	PI2 BPSK	135	0	16.09			17.0	0.0		
100	PI2 BPSK	135	69	16.23			17.0	0.0		
100	PI2 BPSK	135	138	16.14			17.0	0.0		
100	PI2 BPSK	270	0	16.20						
100	QPSK	1	1	16.32						
100	QPSK	1	137	16.22			17.0	0.0		
100	QPSK	1	271	16.20						
100	QPSK	135	0	16.16			17.0	0.0		
100	QPSK	135	69	16.28			17.0	0.0		
100	QPSK	135	138	16.19			17.0	0.0		
100	QPSK	270	0	16.22						
100	64QAM	1	1	16.04			17.0	0.0		
100	64QAM	1	1	15.90			17.0	0.0		
100	256QAM	1	1	16.24			17.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	648668	650000	650334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	16.20	16.16	16.07	17.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	648334	650000	650668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	16.18	16.08	16.11	17.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	648000	650000	651000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	16.21	16.22	16.10	17.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	647668	650000	651334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	16.23	16.20	16.01	17.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	16.18	16.11	16.00	17.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	648000	650000	652000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	16.00	16.14	16.07	17.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	16.22	16.15	16.07	17.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	647900	650000	652500	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	16.17	16.04	16.16	17.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	647334	650000	652668	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	16.05	16.11	16.11	17.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	647168	650000	652834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	16.17	16.18	16.01	17.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	647000	650000	653000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	16.09	16.20	16.13	17.0	0.0		

Part27O n78 PC2 Main PA Ant5 DSI4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3750	3750	3750				
100	PI2 BPSK	1	137	19.12						
100	PI2 BPSK	1	271	19.23			20.0	0.0		
100	PI2 BPSK	1	271	19.18						
100	PI2 BPSK	135	0	19.17			20.0	0.0		
100	PI2 BPSK	135	69	19.32			20.0	0.0		
100	PI2 BPSK	135	138	19.06			20.0	0.0		
100	PI2 BPSK	270	0	19.19						
100	QPSK	1	1	19.39						
100	QPSK	1	137	19.12			20.0	0.0		
100	QPSK	1	271	19.09						
100	QPSK	135	0	19.15			20.0	0.0		
100	QPSK	135	69	19.30			20.0	0.0		
100	QPSK	135	138	19.16			20.0	0.0		
100	QPSK	270	0	19.18						
100	64QAM	1	1	19.03			20.0	0.0		
100	64QAM	1	1	18.91			20.0	0.0		
100	256QAM	1	1	19.35			20.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	648334	650000	650668	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	19.12	19.12	19.09	20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	648000	650000	650968	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.12	19.07	18.98	20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	647668	650000	651334	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	19.09	19.17	19.07	20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	648334	650000	651668	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.14	19.23	19.04	20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	648000	650000	652000	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	19.09	19.15	19.03	20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	647668	650000	652334	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	19.18	19.06	18.98	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	647900	650000	652500				



Part27Q n78 Main PA Ant5 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.15	3000.01				
100	PI2 BPSK	1	137	18.06			17.0	0.0	
100	PI2 BPSK	1	271	18.01					
100	PI2 BPSK	135	0	18.94			17.0	0.0	
100	PI2 BPSK	135	69	18.09			17.0	0.0	
100	PI2 BPSK	135	138	18.02			17.0	0.0	
100	PI2 BPSK	270	0	18.09			17.0	0.0	
100	QPSK	1	1	18.28					
100	QPSK	1	137	18.06			17.0	0.0	
100	QPSK	1	271	18.09					
100	QPSK	135	0	18.04			17.0	0.0	
100	QPSK	135	69	18.12			17.0	0.0	
100	QPSK	135	138	18.98			17.0	0.0	
100	QPSK	270	0	18.08			17.0	0.0	
100	16QAM	1	1	18.83			17.0	0.0	
100	64QAM	1	1	18.59			17.0	0.0	
100	256QAM	1	1	18.06			17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63300	63334	63368	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490	3500.01	3520.02	limit (dB)		
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3485.01	3500.01	3515.01	limit (dB)		
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.12	18.03	18.81	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63468	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3490	3500.01	3520.02	limit (dB)		
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.15	18.05	18.79	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63334	63500	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525	limit (dB)		
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.08	18.02	18.95	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3470.01	3500.01	3530.01	limit (dB)		
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.04	18.95	18.87	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63100	63334	63568	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3480	3500.01	3520.02	limit (dB)		
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.29	18.13	18.77	17.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63084	63334	63634	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3462.51	3500.01	3537.51	limit (dB)		
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.01	18.01	18.87	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63334	63800	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3490.02	3500.01	3540	limit (dB)		
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.14	18.92	18.80	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63050	63334	63868	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3487.5	3500.01	3542.52	limit (dB)		
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.09	18.11	18.85	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63034	63334	63834	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3500.01	3545.01	limit (dB)		
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.00	18.06	18.84	17.0	0.0	

Part27Q n78 PC2 Main PA Ant5 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.91	3000.01				
100	PI2 BPSK	1	137	18.11			20.0	0.0	
100	PI2 BPSK	1	271	18.96					
100	PI2 BPSK	135	0	18.00			20.0	0.0	
100	PI2 BPSK	135	69	18.25			20.0	0.0	
100	PI2 BPSK	135	138	18.86			20.0	0.0	
100	PI2 BPSK	270	0	18.87			20.0	0.0	
100	QPSK	1	1	18.39					
100	QPSK	1	137	18.10			20.0	0.0	
100	QPSK	1	271	18.04					
100	QPSK	135	0	18.12			20.0	0.0	
100	QPSK	135	69	18.22			20.0	0.0	
100	QPSK	135	138	18.08			20.0	0.0	
100	QPSK	270	0	18.00			20.0	0.0	
100	16QAM	1	1	18.87			20.0	0.0	
100	64QAM	1	1	18.71			20.0	0.0	
100	256QAM	1	1	18.22			20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63334	63368	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3490	3500.01	3520.02	limit (dB)		
Channel									
Frequency (MHz)									
80	QPSK	1	1	63268	63334	63400	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	limit (dB)		
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.92	18.67	18.88	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63234	63334	63434	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3485.01	3500.01	3515.01	limit (dB)		
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.98	18.88	18.75	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63468	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3490	3500.01	3520.02	limit (dB)		
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.05	18.96	18.84	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63168	63334	63500	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525	limit (dB)		
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.03	18.84	18.88	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63134	63334	63634	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3470.01	3500.01	3530.01	limit (dB)		
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.12	18.03	18.89	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63100	63334	63568	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3490	3500.01	3520.02	limit (dB)		
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.29	18.99	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63084	63334	63684	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3462.51	3500.01	3537.51	limit (dB)		
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.08	18.82	18.87	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63334	63800	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3490.02	3500.01	3540	limit (dB)		
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.08	18.07	18.79	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63050	63334	63868	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3487.5	3500.01	3542.52	limit (dB)		
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.93	18.04	18.81	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63034	63334	63834	tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3500.01	3545.01	limit (dB)		
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.02	18.04	18.81	20.0	0.0	



Part270 n77 Main PA Ant6 DS14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	15.12	15.28	15.02				
100	PI2 BPSK	1	137	15.07	15.16	14.93	16.5	0.0		
100	PI2 BPSK	1	271	14.91	15.14	14.89				
100	PI2 BPSK	135	0	14.89	15.02	15.03	16.5	0.0		
100	PI2 BPSK	135	69	15.19	15.10	15.02	16.5	0.0		
100	PI2 BPSK	135	135	15.03	15.19	14.77				
100	PI2 BPSK	270	0	15.00	15.10	14.91	16.5	0.0		
100	QPSK	1	1	15.21	15.30	15.26				
100	QPSK	1	137	15.18	15.10	14.99	16.5	0.0		
100	QPSK	1	271	15.04	15.14	15.01				
100	QPSK	135	0	14.90	15.06	14.82	16.5	0.0		
100	QPSK	135	69	15.21	15.28	15.23	16.5	0.0		
100	QPSK	135	138	15.02	15.04	14.89	16.5	0.0		
100	QPSK	270	0	15.20	15.25	15.16	16.5	0.0		
100	8QAM	1	1	15.19	15.19	14.99	16.5	0.0		
100	8QAM	1	1	15.11	15.26	14.99	16.5	0.0		
100	256QAM	1	1	15.17	15.22	15.11	16.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	15.07	15.14	15.14	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.08	15.16	15.14	16.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.09	15.19	15.16	16.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.03	15.16	15.21	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.18	15.28	15.25	16.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.14	15.13	15.22	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.14	15.13	15.11	19.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	15.17	15.20	15.10	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.13	15.11	15.21	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.13	15.20	15.21	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.15	15.23	15.15	16.5	0.0		

Part270 n77 PC2 Main PA Ant6 DS14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.50	18.04	17.56				
100	PI2 BPSK	1	137	17.85	18.05	17.75	19.5	0.0		
100	PI2 BPSK	1	271	17.70	17.90	17.66				
100	PI2 BPSK	135	0	17.60	17.70	17.74	19.5	0.0		
100	PI2 BPSK	135	69	18.02	17.99	17.87	19.5	0.0		
100	PI2 BPSK	135	135	17.81	18.01	17.86				
100	PI2 BPSK	270	0	17.80	17.84	17.78	19.5	0.0		
100	QPSK	1	1	18.02	18.06	18.01				
100	QPSK	1	137	17.92	17.85	17.83	19.5	0.0		
100	QPSK	1	271	17.94	18.03	17.71				
100	QPSK	135	0	17.77	17.86	17.73	19.5	0.0		
100	QPSK	135	69	17.95	18.03	17.99	19.5	0.0		
100	QPSK	135	138	17.91	17.94	17.87	19.5	0.0		
100	QPSK	270	0	17.87	17.99	17.87	19.5	0.0		
100	8QAM	1	1	17.96	18.02	17.86	19.5	0.0		
100	8QAM	1	1	17.87	17.86	17.90	19.5	0.0		
100	256QAM	1	1	18.00	18.00	17.78	19.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.02	17.91	17.90	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.88	17.95	17.84	19.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	17.90	17.97	17.92	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.97	17.95	17.99	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.99	17.86	17.88	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.84	17.98	17.82	19.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.99	18.04	17.83	19.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.01	17.95	17.99	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.93	17.87	17.82	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.93	18.00	17.91	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.00	17.93	17.87	19.5	0.0		

Part27Q n77 Main PA Ant6 DS14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		3500.01	3500.01				
100	PI2 BPSK	1	137		3500.01	3500.02	16.5	0.0		
100	PI2 BPSK	1	271		3500.01	3500.01				
100	PI2 BPSK	135	0		3500.01	3500.01	16.5	0.0		
100	PI2 BPSK	135	69		3500.01	3500.02	16.5	0.0		
100	PI2 BPSK	135	138		3500.01	3500.01	16.5	0.0		
100	PI2 BPSK	270	0		3500.01	3500.01	16.5	0.0		
100	QPSK	1	1		3500.01	3500.01				
100	QPSK	1	137		3500.01	3500.01	16.5	0.0		
100	QPSK	1	271		3500.01	3500.02				
100	QPSK	135	0		3500.01	3500.01	16.5	0.0		
100	QPSK	135	69		3500.01	3500.01	16.5	0.0		
100	QPSK	135	138		3500.01	3500.01	16.5	0.0		
100	QPSK	270	0		3500.01	3500.01	16.5	0.0		
100	8QAM	1	1		3500.01	3500.01	16.5	0.0		
100	8QAM	1	1		3500.01	3500.01	16.5	0.0		
100	256QAM	1	1		3500.01	3500.01	16.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1		3500.01	3500.02	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1		3500.01	3500.01	16.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1		3500.01	3500.01	16.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1		3500.01	3500.02	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1		3500.01	3500.01	16.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1		3500.01	3500.01	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1		3500.01	3500.02	19.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1		3500.01	3500.01	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1		3500.01	3500.01	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1		3500.01	3500.01	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1		3500.01	3500.01	16.5	0.0		



Part27Q n77 PC2 Main PA Ant6 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.12	3500.01				
100	PI2 BPSK	1	137	18.19			19.5	0.0	
100	PI2 BPSK	1	271	17.95					
100	PI2 BPSK	135	0	17.83			19.5	0.0	
100	PI2 BPSK	135	69	18.19			19.5	0.0	
100	PI2 BPSK	135	138	18.04			19.5	0.0	
100	PI2 BPSK	270	0	17.99					
100	QPSK	1	1	18.23					
100	QPSK	1	137	18.05			19.5	0.0	
100	QPSK	1	271	18.11					
100	QPSK	135	0	18.07			19.5	0.0	
100	QPSK	135	69	18.20			19.5	0.0	
100	QPSK	135	138	18.00			19.5	0.0	
100	QPSK	270	0	18.16					
100	64QAM	1	1	18.19			19.5	0.0	
100	64QAM	1	1	18.07			19.5	0.0	
100	256QAM	1	1	18.13			19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.99	3500.01	3500.02	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.05	3500.01	3510	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.98	3500.01	3515.01	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.01	3500.01	3525.01	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.01	3500.01	3525.01	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.07	3500.01	3530.01	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.91	3500.01	3535.02	19.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.08	3500.01	3537.51	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.98	3500.01	3540	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.05	3500.01	3542.50	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.07	3500.01	3545.01	19.5	0.0	

Part27O n78 Main PA Ant6 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.50	3750	3750			
100	PI2 BPSK	1	137	14.48			15.5	0.0	
100	PI2 BPSK	1	271	14.26					
100	PI2 BPSK	135	0	14.33			15.5	0.0	
100	PI2 BPSK	135	69	14.43			15.5	0.0	
100	PI2 BPSK	135	138	14.44			15.5	0.0	
100	PI2 BPSK	270	0	14.33					
100	QPSK	1	1	14.66					
100	QPSK	1	137	14.49			15.5	0.0	
100	QPSK	1	271	14.54					
100	QPSK	135	0	14.56			15.5	0.0	
100	QPSK	135	69	14.57			15.5	0.0	
100	QPSK	135	138	14.30			15.5	0.0	
100	QPSK	270	0	14.54					
100	64QAM	1	1	14.61			15.5	0.0	
100	64QAM	1	1	14.36			15.5	0.0	
100	256QAM	1	1	14.53			15.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.56	3750	3760.01	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.52	3750	3760.02	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.46	3750	3765	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.60	3750	3765.01	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.54	3750	3765.02	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.58	3750	3760	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.46	3750	3765.01	15.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.53	3750	3767.5	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.58	3750	3760.02	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.43	3750	3762.5	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.43	3750	3765	15.5	0.0	

Part27O n78 PC2 Main PA Ant6 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.40	3750	3750			
100	PI2 BPSK	1	137	17.41			18.5	0.0	
100	PI2 BPSK	1	271	17.20					
100	PI2 BPSK	135	0	17.18			18.5	0.0	
100	PI2 BPSK	135	69	17.43			18.5	0.0	
100	PI2 BPSK	135	138	17.51			18.5	0.0	
100	PI2 BPSK	270	0	17.26					
100	QPSK	1	1	17.63					
100	QPSK	1	137	17.34			18.5	0.0	
100	QPSK	1	271	17.47					
100	QPSK	135	0	17.43			18.5	0.0	
100	QPSK	135	69	17.58			18.5	0.0	
100	QPSK	135	138	17.30			18.5	0.0	
100	QPSK	270	0	17.48					
100	64QAM	1	1	17.20			18.5	0.0	
100	64QAM	1	1	16.87			18.5	0.0	
100	256QAM	1	1	17.22			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.49	3750	3765.01	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.44	3750	3765.02	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.42	3750	3770	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.41	3750	3770.01	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.27	3750	3775.02	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.36	3750	3760	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.28	3750	3765.01	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.45	3750	3767.5	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.36	3750	3760.02	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.27	3750	3762.5	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.34	3750	3765	18.5	0.0	



Part27Q n78 Main PA Ant6 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.48	14.48				
100	PI2 BPSK	1	137	14.57	14.57		15.5	0.0	
100	PI2 BPSK	1	271	14.40	14.40				
100	PI2 BPSK	135	0	14.48	14.48		15.5	0.0	
100	PI2 BPSK	135	69	14.38	14.38		15.5	0.0	
100	PI2 BPSK	135	138	14.48	14.48				
100	PI2 BPSK	270	0	14.30	14.30		15.5	0.0	
100	QPSK	1	1	14.69	14.69				
100	QPSK	1	137	14.47	14.47		15.5	0.0	
100	QPSK	1	271	14.68	14.68				
100	QPSK	135	0	14.54	14.54		15.5	0.0	
100	QPSK	135	69	14.63	14.63		15.5	0.0	
100	QPSK	135	138	14.40	14.40		15.5	0.0	
100	QPSK	270	0	14.58	14.58		15.5	0.0	
100	16QAM	1	1	14.38	14.38		15.5	0.0	
100	64QAM	1	1	14.04	14.04		15.5	0.0	
100	256QAM	1	1	14.48	14.48		15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.49	14.52	14.53	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.47	14.47	14.41	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.39	14.54	14.53	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.50	14.50	14.54	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.42	14.48	14.50	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.59	14.40	14.42	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.45	14.60	14.51	15.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.47	14.44	14.44	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.53	14.45	14.37	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.53	14.47	14.47	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.44	14.58	14.48	15.5	0.0	

Part27Q n78 PC2 Main PA Ant6 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.49	17.49				
100	PI2 BPSK	1	137	17.61	17.61		18.5	0.0	
100	PI2 BPSK	1	271	17.51	17.51				
100	PI2 BPSK	135	0	17.30	17.30		18.5	0.0	
100	PI2 BPSK	135	69	17.69	17.69		18.5	0.0	
100	PI2 BPSK	135	138	17.72	17.72				
100	PI2 BPSK	270	0	17.49	17.49		18.5	0.0	
100	QPSK	1	1	17.85	17.85				
100	QPSK	1	137	17.63	17.63		18.5	0.0	
100	QPSK	1	271	17.67	17.67				
100	QPSK	135	0	17.60	17.60		18.5	0.0	
100	QPSK	135	69	17.77	17.77		18.5	0.0	
100	QPSK	135	138	17.60	17.60		18.5	0.0	
100	QPSK	270	0	17.63	17.63		18.5	0.0	
100	16QAM	1	1	17.40	17.40		18.5	0.0	
100	64QAM	1	1	17.12	17.12		18.5	0.0	
100	256QAM	1	1	17.49	17.49		18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.35	17.84	17.70	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.42	17.74	17.62	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.48	17.76	17.79	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.37	17.84	17.69	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.45	17.75	17.77	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.50	17.76	17.79	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.35	17.77	17.74	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.53	17.63	17.65	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.39	17.83	17.78	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.54	17.84	17.59	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.40	17.83	17.67	18.5	0.0	





Part270 n77 Main PA Ant7 DS14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3700	3840	3930				
100	PI2 BPSK	1	1	16.16	16.38	16.33				
100	PI2 BPSK	1	137	16.08	16.37	16.25	18.0	0.0		
100	PI2 BPSK	1	271	16.08	16.25	16.17				
100	PI2 BPSK	135	0	16.30	16.16	16.10	18.0	0.0		
100	PI2 BPSK	135	69	16.33	16.34	16.30	18.0	0.0		
100	PI2 BPSK	135	138	16.13	16.22	16.06				
100	PI2 BPSK	270	0	16.20	16.25	16.24	18.0	0.0		
100	QPSK	1	1	16.22	16.46	16.31				
100	QPSK	1	137	16.10	16.25	16.24	18.0	0.0		
100	QPSK	1	271	16.10	16.31	16.14				
100	QPSK	135	0	16.17	16.23	16.31	18.0	0.0		
100	QPSK	135	69	16.28	16.38	16.32	18.0	0.0		
100	QPSK	135	138	16.19	16.18	16.12	18.0	0.0		
100	QPSK	270	0	16.27	16.32	16.15	18.0	0.0		
100	6QAM	1	1	16.16	16.26	16.15	18.0	0.0		
100	6QAM	1	1	16.16	16.14	16.18	18.0	0.0		
100	256QAM	1	1	16.14	16.39	16.43	18.0	0.0		
Channel										
Frequency (MHz)				649668	656000	662334	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	16.05	16.13	16.11	18.0	0.0		
Channel										
Frequency (MHz)				649334	656000	662668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	16.19	16.23	16.13	18.0	0.0		
Channel										
Frequency (MHz)				649000	656000	663000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	16.10	16.16	16.25	18.0	0.0		
Channel										
Frequency (MHz)				648668	656000	663334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	16.05	16.21	16.31	18.0	0.0		
Channel										
Frequency (MHz)				648334	656000	663668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	16.10	16.24	16.26	18.0	0.0		
Channel										
Frequency (MHz)				648000	656000	664000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	16.11	16.10	16.20	18.0	0.0		
Channel										
Frequency (MHz)				647668	656000	664334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	16.08	16.06	16.21	18.0	0.0		
Channel										
Frequency (MHz)				647334	656000	664668	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	16.02	16.05	16.21	18.0	0.0		
Channel										
Frequency (MHz)				647000	656000	665000	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	16.03	16.19	16.16	18.0	0.0		
Channel										
Frequency (MHz)				647168	656000	664834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	16.14	16.23	16.15	18.0	0.0		
Channel										
Frequency (MHz)				647000	656000	665000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	16.15	16.05	16.13	18.0	0.0		

Part270 n77 PC2 Main PA Ant7 DS14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3700	3840	3930				
100	PI2 BPSK	1	1	19.22	19.22	19.17				
100	PI2 BPSK	1	137	19.17	19.22	19.28	21.0	0.0		
100	PI2 BPSK	1	271	19.14	19.19	19.17				
100	PI2 BPSK	135	0	19.14	19.23	19.28	21.0	0.0		
100	PI2 BPSK	135	69	19.19	19.31	19.06	21.0	0.0		
100	PI2 BPSK	135	138	19.33	19.19	19.34				
100	PI2 BPSK	270	0	19.10	19.22	19.28	21.0	0.0		
100	QPSK	1	1	19.23	19.36	19.13				
100	QPSK	1	137	19.16	19.26	19.11	21.0	0.0		
100	QPSK	1	271	19.08	19.23	19.21				
100	QPSK	135	0	19.23	19.20	19.23	21.0	0.0		
100	QPSK	135	69	19.12	19.34	19.21	21.0	0.0		
100	QPSK	135	138	19.12	19.12	19.14	21.0	0.0		
100	QPSK	270	0	19.04	19.27	19.17	21.0	0.0		
100	6QAM	1	1	19.16	19.26	19.34	21.0	0.0		
100	6QAM	1	1	19.07	19.23	19.30	21.0	0.0		
100	256QAM	1	1	19.26	19.34	19.30	21.0	0.0		
Channel										
Frequency (MHz)				649668	656000	662334	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	19.20	19.16	19.03	21.0	0.0		
Channel										
Frequency (MHz)				649334	656000	662668	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.19	19.28	19.12	21.0	0.0		
Channel										
Frequency (MHz)				649000	656000	663000	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	19.18	19.28	19.12	21.0	0.0		
Channel										
Frequency (MHz)				648668	656000	663334	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.18	19.29	19.06	21.0	0.0		
Channel										
Frequency (MHz)				648334	656000	663668	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	19.35	19.35	19.02	21.0	0.0		
Channel										
Frequency (MHz)				648000	656000	664000	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	19.24	19.24	19.00	21.0	0.0		
Channel										
Frequency (MHz)				647668	656000	664334	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	19.28	19.12	19.05	21.0	0.0		
Channel										
Frequency (MHz)				647334	656000	664668	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	19.26	19.21	19.03	21.0	0.0		
Channel										
Frequency (MHz)				647000	656000	665000	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	19.08	19.19	19.10	21.0	0.0		
Channel										
Frequency (MHz)				647168	656000	664834	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	19.11	19.29	19.16	21.0	0.0		
Channel										
Frequency (MHz)				647000	656000	665000	time-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	19.23	19.30	19.06	21.0	0.0		

Part27Q n77 Main PA Ant7 DS14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)						3500.01				
100	PI2 BPSK	1	1			16.49				
100	PI2 BPSK	1	137			16.38			18.0	0.0
100	PI2 BPSK	1	271			16.31				
100	PI2 BPSK	135	0			16.22			18.0	0.0
100	PI2 BPSK	135	69			16.34			18.0	0.0
100	PI2 BPSK	135	138			16.16			18.0	0.0
100	PI2 BPSK	270	0			16.24				
100	QPSK	1	1			16.51				
100	QPSK	1	137			16.35			18.0	0.0
100	QPSK	1	271			16.52				
100	QPSK	135	0			16.13			18.0	0.0
100	QPSK	135	69			16.39			18.0	0.0
100	QPSK	135	138			16.30			18.0	0.0
100	QPSK	270	0			16.22			18.0	0.0
100	6QAM	1	1			16.21			18.0	0.0
100	6QAM	1	1			16.20			18.0	0.0
100	256QAM	1	1			16.32			18.0	0.0
Channel										
Frequency (MHz)				639000	633334	636668	time-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	16.12	16.26	16.37	18.0	0.0		
Channel										
Frequency (MHz)				639668	633334	636000	time-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	16.22	16.24	16.31	18.0	0.0		
Channel										
Frequency (MHz)				639334	633334	635334	time-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	16.17	16.28	16.42	18.0	0.0		
Channel										
Frequency (MHz)				639000	633334	636668	time-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	16.21	16.22	16.48	18.0	0.0		
Channel										
Frequency (MHz)				638668	633334	636000	time-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	16.05	16.11	16.02	18.0	0.0		
Channel										
Frequency (MHz)				638334	633334	635334	time-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	16.14	16.27	16.30	18.0	0.0		
Channel										
Frequency (MHz)				638000	633334	636668	time-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	16.19	16.23	16.45	18.0	0.0		
Channel										
Frequency (MHz)				637668	633334	636000	time-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	16.08	16.37	16.38	18.0	0.0		
Channel										
Frequency (MHz)				637334	633334	635334	time-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	16.16	16.36	16.42	18.0	0.0		
Channel										
Frequency (MHz)				637000	633334	636668	time-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	16.20	16.29	16.35	18.0	0.0		
Channel										



Part27Q n77 PC2 Main PA Ant7 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.24	3500.01				
100	PI2 BPSK	1	137	19.14			21.0	0.0	
100	PI2 BPSK	1	271	19.17					
100	PI2 BPSK	135	0	19.19			21.0	0.0	
100	PI2 BPSK	135	69	19.29			21.0	0.0	
100	PI2 BPSK	135	138	19.16					
100	PI2 BPSK	270	0	19.20			21.0	0.0	
100	QPSK	1	1	19.43					
100	QPSK	1	137	19.16			21.0	0.0	
100	QPSK	1	271	19.24					
100	QPSK	135	0	19.22			21.0	0.0	
100	QPSK	135	69	19.26			21.0	0.0	
100	QPSK	135	138	19.12			21.0	0.0	
100	QPSK	270	0	19.24			21.0	0.0	
100	8QAM	1	1	19.37			21.0	0.0	
100	8QAM	1	1	19.26			21.0	0.0	
100	256QAM	1	1	19.16			21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63300	63334	63668	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3450	3500.01	3550.02	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63268	63334	63400	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3500.01	3510	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.34	19.08	19.10	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63284	63334	63434	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3485.01	3500.01	3515.01	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.34	19.05	19.14	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63668	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3450	3500.01	3550.02	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63334	63500	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3476.02	3500.01	3525	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63134	63334	63434	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	3500.01	3530.01	time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63100	63334	63668	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.38	19.05	19.05	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63068	63334	63434	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	19.32	19.07	19.03	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63034	63334	63534	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.37	19.08	19.14	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63000	63334	63668	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.33	19.10	19.14	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63034	63334	63634	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.24	19.07	19.19	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3450.01	3500.01	3545.01	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.27	19.05	19.11	21.0	0.0	

Part27O n78 Main PA Ant7 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.79	3750	3750			
100	PI2 BPSK	1	137	16.82			18.0	0.0	
100	PI2 BPSK	1	271	16.84					
100	PI2 BPSK	135	0	16.72			18.0	0.0	
100	PI2 BPSK	135	69	16.73			18.0	0.0	
100	PI2 BPSK	135	138	16.56					
100	PI2 BPSK	270	0	16.71			18.0	0.0	
100	QPSK	1	1	16.93					
100	QPSK	1	137	16.71			18.0	0.0	
100	QPSK	1	271	16.82					
100	QPSK	135	0	16.84			18.0	0.0	
100	QPSK	135	69	16.87			18.0	0.0	
100	QPSK	135	138	16.69			18.0	0.0	
100	QPSK	270	0	16.80			18.0	0.0	
100	8QAM	1	1	16.84			18.0	0.0	
100	8QAM	1	1	16.41			18.0	0.0	
100	256QAM	1	1	16.75			18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65034	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3745.02	3750	3760.01	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.72	16.80	16.93	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.73	16.71	16.68	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65100	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3735	3750	3765	time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.70	16.81	16.57	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3740.02	3750	3760.01	time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.74	16.82	16.70	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3735.01	3750	3765.02	time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.75	16.90	16.58	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3730	3750	3760	time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.82	16.71	16.70	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65234	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3745.02	3750	3765.01	time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.70	16.89	16.76	18.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	64750	65000	65250	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3742.5	3750	3767.5	time-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.78	16.74	16.73	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65268	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.85	16.82	16.69	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64718	65000	65284	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3745.02	3750	3762.5	time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.72	16.74	16.62	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3745	3750	3795	time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.76	16.77	16.71	18.0	0.0	

Part27O n78 PC2 Main PA Ant7 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.87	3750	3750			
100	PI2 BPSK	1	137	19.87			21.0	0.0	
100	PI2 BPSK	1	271	19.85					
100	PI2 BPSK	135	0	19.82			21.0	0.0	
100	PI2 BPSK	135	69	19.80			21.0	0.0	
100	PI2 BPSK	135	138	19.57					
100	PI2 BPSK	270	0	19.81			21.0	0.0	
100	QPSK	1	1	19.97					
100	QPSK	1	137	19.78			21.0	0.0	
100	QPSK	1	271	19.84					
100	QPSK	135	0	19.89			21.0	0.0	
100	QPSK	135	69	19.87			21.0	0.0	
100	QPSK	135	138	19.74			21.0	0.0	
100	QPSK	270	0	19.83			21.0	0.0	
100	8QAM	1	1	19.99			21.0	0.0	
100	8QAM	1	1	19.40			21.0	0.0	
100	256QAM	1	1	19.92			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65034	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3745.02	3750	3765.01	time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.66	19.86	19.74	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3740.01	3750	3760.02	time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.80	19.92	19.86	21.0		



Part27Q n78 Main PA Ant7 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.29				
100	PI2 BPSK	1	137		17.11		18.0	0.0	
100	PI2 BPSK	1	271		16.98				
100	PI2 BPSK	135	0		18.93		18.0	0.0	
100	PI2 BPSK	135	69		17.15		18.0	0.0	
100	PI2 BPSK	135	138		16.82		18.0	0.0	
100	PI2 BPSK	270	0		16.92				
100	QPSK	1	1		17.35				
100	QPSK	1	137		18.91		18.0	0.0	
100	QPSK	1	271		17.24				
100	QPSK	135	0		17.00		18.0	0.0	
100	QPSK	135	69		17.17		18.0	0.0	
100	QPSK	135	138		17.08		18.0	0.0	
100	QPSK	270	0		17.08		18.0	0.0	
100	16QAM	1	1		17.23		18.0	0.0	
100	64QAM	1	1		18.73		18.0	0.0	
100	256QAM	1	1		17.12		18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63.3000	63.3334	63.3668	tune-up limit (dB)	MFR (dB)	
				3495	3500.01	3505.02			
				17.15	17.25	17.14	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63268	63334	63400	tune-up limit (dB)	MFR (dB)	
				3490.02	3500.01	3510			
				17.05	17.10	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63234	63334	63434	tune-up limit (dB)	MFR (dB)	
				3485.01	3500.01	3515.01			
				17.21	17.29	17.06	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63468	tune-up limit (dB)	MFR (dB)	
				3480	3500.01	3520.02			
				17.25	17.20	17.19	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63334	63500	tune-up limit (dB)	MFR (dB)	
				3475.02	3500.01	3525			
				17.08	17.21	17.18	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63134	63334	63534	tune-up limit (dB)	MFR (dB)	
				3470.01	3500.01	3530.01			
				17.08	17.21	17.20	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63100	63334	63568	tune-up limit (dB)	MFR (dB)	
				3465	3500.01	3535.02			
				17.02	17.23	17.02	18.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	63334	63634	tune-up limit (dB)	MFR (dB)	
				3462.51	3500.01	3537.51			
				17.13	17.28	17.22	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63334	63600	tune-up limit (dB)	MFR (dB)	
				3460.02	3500.01	3540			
				17.10	17.15	16.99	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63050	63334	636168	tune-up limit (dB)	MFR (dB)	
				3457.5	3500.01	3542.52			
				17.15	17.27	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63034	63334	63634	tune-up limit (dB)	MFR (dB)	
				3455.01	3500.01	3545.01			
				17.09	17.32	17.14	18.0	0.0	

Part27Q n78 PC2 Main PA Ant7 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		19.27				
100	PI2 BPSK	1	137		19.92		21.0	0.0	
100	PI2 BPSK	1	271		19.97				
100	PI2 BPSK	135	0		19.99		21.0	0.0	
100	PI2 BPSK	135	69		19.95		21.0	0.0	
100	PI2 BPSK	135	138		19.74		21.0	0.0	
100	PI2 BPSK	270	0		19.99				
100	QPSK	1	1		20.06				
100	QPSK	1	137		19.80		21.0	0.0	
100	QPSK	1	271		19.88				
100	QPSK	135	0		19.65		21.0	0.0	
100	QPSK	135	69		19.98		21.0	0.0	
100	QPSK	135	138		19.85		21.0	0.0	
100	QPSK	270	0		19.90		21.0	0.0	
100	16QAM	1	1		19.74		21.0	0.0	
100	64QAM	1	1		19.58		21.0	0.0	
100	256QAM	1	1		19.88		21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	633000	63334	63368	tune-up limit (dB)	MFR (dB)	
				3495	3500.01	3505.02			
				19.87	19.84	19.86	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63268	63334	63400	tune-up limit (dB)	MFR (dB)	
				3490.02	3500.01	3510			
				19.89	19.77	19.93	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63234	63334	63434	tune-up limit (dB)	MFR (dB)	
				3485.01	3500.01	3515.01			
				19.76	19.82	19.96	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63468	tune-up limit (dB)	MFR (dB)	
				3480	3500.01	3520.02			
				19.86	19.85	19.83	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63334	63500	tune-up limit (dB)	MFR (dB)	
				3475.02	3500.01	3525			
				19.85	19.94	19.98	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63134	63334	63534	tune-up limit (dB)	MFR (dB)	
				3470.01	3500.01	3530.01			
				19.81	19.85	19.97	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63100	63334	63568	tune-up limit (dB)	MFR (dB)	
				3465	3500.01	3535.02			
				19.87	19.81	19.84	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	63334	63634	tune-up limit (dB)	MFR (dB)	
				3462.51	3500.01	3537.51			
				19.89	19.90	19.81	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63334	63600	tune-up limit (dB)	MFR (dB)	
				3460.02	3500.01	3540			
				19.85	19.83	19.81	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63050	63334	636168	tune-up limit (dB)	MFR (dB)	
				3457.5	3500.01	3542.52			
				19.81	19.87	19.86	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63034	63334	63634	tune-up limit (dB)	MFR (dB)	
				3455.01	3500.01	3545.01			
				19.85	19.94	19.95	21.0	0.0	



DSI 4 Power for FR1 EN-DC Main PA

n7 Main PA Ant4 DSI4 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 505000	Power Med Ch. Freq. 607000	Power High Ch. Freq. 606000	Tune-up limit (dBm)	MPR (dB)	
				2525	2335	2345			
				Frequency (MHz)					
50	PI2 BPSK	1	1	17.84	17.83	17.83			
50	PI2 BPSK	1	135	17.38	17.48	17.14	18.5	0.0	
50	PI2 BPSK	1	268	17.28	17.39	17.28			
50	PI2 BPSK	135	0	17.40	17.45	17.45	18.5	0.0	
50	PI2 BPSK	135	68	17.43	17.47	17.31	18.5	0.0	
50	PI2 BPSK	135	135	17.50	17.42	17.39			
50	PI2 BPSK	270	0	17.40	17.52	17.58	18.5	0.0	
50	QPSK	1	1	17.47	17.62	17.58			
50	QPSK	1	135	17.40	17.55	17.27	18.5	0.0	
50	QPSK	1	268	17.45	17.60	17.57			
50	QPSK	135	0	17.27	17.42	17.55	18.5	0.0	
50	QPSK	135	68	17.46	17.61	17.33	18.5	0.0	
50	QPSK	135	135	17.25	17.38	17.28	18.5	0.0	
50	QPSK	270	0	17.36	17.54	17.41			
50	HQAM	1	1	17.58	17.41	17.53	18.5	0.0	
50	HQAM	1	1	17.46	17.49	17.35	18.5	0.0	
50	HQAM	1	1	17.55	17.64	17.60	18.5	0.0	
				Channel	504000	607000	610000	Tune-up limit	MPR
				Frequency (MHz)	2520	2335	2350	(dB)	(dB)
40	QPSK	1	1	17.51	17.49	17.27	18.5	0.0	
				Channel	503000	607000	611000	Tune-up limit	MPR
				Frequency (MHz)	2515	2335	2355	(dB)	(dB)
30	QPSK	1	1	17.48	17.50	17.35	18.5	0.0	
				Channel	502000	607000	611500	Tune-up limit	MPR
				Frequency (MHz)	2512.5	2335	2357.5	(dB)	(dB)
24	QPSK	1	1	17.47	17.43	17.23	18.5	0.0	
				Channel	502000	607000	613000	Tune-up limit	MPR
				Frequency (MHz)	2510	2335	2360	(dB)	(dB)
20	QPSK	1	1	17.48	17.42	17.42	18.5	0.0	
				Channel	501600	607000	613500	Tune-up limit	MPR
				Frequency (MHz)	2507.5	2335	2362.5	(dB)	(dB)
15	QPSK	1	1	17.53	17.45	17.23	18.5	0.0	
				Channel	501000	607000	613000	Tune-up limit	MPR
				Frequency (MHz)	2505	2335	2365	(dB)	(dB)
10	QPSK	1	1	17.49	17.42	17.41	18.5	0.0	
				Channel	500500	607000	613500	Tune-up limit	MPR
				Frequency (MHz)	2502.5	2335	2367.5	(dB)	(dB)
5	QPSK	1	1	17.42	17.47	17.43	18.5	0.0	

**n38 Main PA Ant4 DS14 ENDC**

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up Int. (dBm)	MPR (dB)
				Low Ch. F Power	Mid Ch. F Power	High Ch. F Power		
Channel				18804	18900	18996		
Frequency (MHz)				18902	1895	18998		
40	P1/2 BPSK	1	1	18.84	18.86	18.85		
40	P1/2 BPSK	1	53	18.72	18.72	18.76	20.2	0.0
40	P1/2 BPSK	1	104	18.74	18.79	18.72		
40	P1/2 BPSK	50	0	18.86	18.83	18.74	20.2	0.0
40	P1/2 BPSK	50	26	18.51	18.82	18.70	20.2	0.0
40	P1/2 BPSK	50	56	18.71	18.84	18.70	20.2	0.0
40	P1/2 BPSK	100	0	18.81	18.90	18.81		
40	QPSK	1	1	18.88	18.89	18.80		
40	QPSK	1	53	18.84	18.78	18.84	20.2	0.0
40	QPSK	1	104	18.65	18.87	18.66		
40	QPSK	50	0	18.77	18.91	18.73	20.2	0.0
40	QPSK	50	26	18.58	18.92	18.80	20.2	0.0
40	QPSK	50	56	18.81	18.87	18.71	20.2	0.0
40	QPSK	100	0	18.77	18.85	18.73		
40	16QAM	1	1	18.86	18.85	18.80	20.2	0.0
40	16QAM	1	1	18.88	18.78	18.76	20.2	0.0
Channel				171902	171900	171998		
Frequency (MHz)				171901	17195	171998		
30	QPSK	1	1	18.59	18.92	18.71	20.2	0.0
Channel				174501	174500	174598		
Frequency (MHz)				174502	17455	174598		
25	QPSK	1	1	18.83	18.86	18.62	20.2	0.0
Channel				176800	176800	176898		
Frequency (MHz)				176800	17685	176898		
20	QPSK	1	1	18.56	18.97	18.66	20.2	0.0
Channel				178502	178500	178598		
Frequency (MHz)				178501	17855	178598		
15	QPSK	1	1	18.57	18.97	18.66	20.2	0.0
Channel				179101	179100	179198		
Frequency (MHz)				179102	17915	179198		
10	QPSK	1	1	18.58	18.92	18.64	20.2	0.0



### Part270 n78 Main PA Ant7 DS14 ENDC

BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch, J, Fmax</sub>	Power Med P <sub>ch, J, Fmax</sub>	Power High P <sub>ch, J, Fmax</sub>	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PIQ BPSK	1	1	14.06				
100	PIQ BPSK	1	137	14.78			14.0	0.0
100	PIQ BPSK	1	271	14.49				
100	PIQ BPSK	135	0	14.67			16.0	0.0
100	PIQ BPSK	135	69	14.69			16.0	0.0
100	PIQ BPSK	135	138	14.51			16.0	0.0
100	PIQ BPSK	270	0	14.47			16.0	0.0
100	QPSK	1	1	14.06				
100	QPSK	1	137	14.02			16.0	0.0
100	QPSK	1	271	14.70				
100	QPSK	135	0	14.50			16.0	0.0
100	QPSK	135	69	14.51			16.0	0.0
100	QPSK	135	138	14.64			16.0	0.0
100	QPSK	270	0	14.06			16.0	0.0
100	16QAM	1	1	14.57			16.0	0.0
100	64QAM	1	1	14.27			16.0	0.0
100	256QAM	1	1	14.63			16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.76	14.77	14.57	16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.73	14.73	14.66	16.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.62	14.71	14.59	16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.65	14.71	14.57	16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.78	14.84	14.59	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.82	14.73	14.64	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.82	14.80	14.57	16.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	14.87	14.75	14.63	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.60	14.74	14.59	16.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.68	14.84	14.67	16.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.62	14.70	14.72	16.0	0.0

### Part270 n78 PC2 Main PA Ant7 DS14 ENDC

BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>ch, J, Fmax</sub>	Power Med P <sub>ch, J, Fmax</sub>	Power High P <sub>ch, J, Fmax</sub>	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PIQ BPSK	1	1	17.83				
100	PIQ BPSK	1	137	17.80			19.0	0.0
100	PIQ BPSK	1	271	17.78				
100	PIQ BPSK	135	0	17.79			19.0	0.0
100	PIQ BPSK	135	69	17.74			19.0	0.0
100	PIQ BPSK	135	138	17.50			19.0	0.0
100	PIQ BPSK	270	0	17.70			19.0	0.0
100	QPSK	1	1	17.80				
100	QPSK	1	137	17.75			19.0	0.0
100	QPSK	1	271	17.78				
100	QPSK	135	0	17.62			19.0	0.0
100	QPSK	135	69	17.61			19.0	0.0
100	QPSK	135	138	17.70			19.0	0.0
100	QPSK	270	0	17.71			19.0	0.0
100	16QAM	1	1	17.62			19.0	0.0
100	64QAM	1	1	17.34			19.0	0.0
100	256QAM	1	1	17.77			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.72	17.76	17.69	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.61	17.75	17.66	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.61	17.81	17.67	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.65	17.81	17.71	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.62	17.81	17.60	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.68	17.74	17.66	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.60	17.80	17.55	19.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	17.74	17.78	17.61	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.70	17.69	17.64	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.77	17.87	17.54	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.73	17.80	17.62	19.0	0.0



Part27Q n78 Main PA Ant7 DSi4 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. F.Freq.	Power Mod. Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.27					
100	PI2 BPSK	1	137	14.03			16.0	0.0	
100	PI2 BPSK	1	271	14.80					
100	PI2 BPSK	135	0	14.79			16.0	0.0	
100	PI2 BPSK	135	69	14.16			16.0	0.0	
100	PI2 BPSK	135	138	14.75			16.0	0.0	
100	PI2 BPSK	270	0	14.78					
100	QPSK	1	1	15.27			16.0	0.0	
100	QPSK	1	137	14.43					
100	QPSK	1	271	15.18					
100	QPSK	135	0	14.86			16.0	0.0	
100	QPSK	135	69	15.09			16.0	0.0	
100	QPSK	135	138	14.95			16.0	0.0	
100	QPSK	270	0	15.00			16.0	0.0	
100	16QAM	1	1	14.68			16.0	0.0	
100	64QAM	1	1	14.64			16.0	0.0	
100	256QAM	1	1	15.02			16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83300	83334	83662	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3505.02			
90	QPSK	1	1	15.07	15.11	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
				15.06	15.23	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3485.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)	
				15.11	15.21	15.12	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	83000	83334	83668	Tune-up limit (dBm)	MPR (dB)	
				3490	3500.01	3520.02			
60	QPSK	1	1	15.08	15.18	14.99	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	83100	83334	83602	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525			
50	QPSK	1	1	15.17	15.24	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	83134	83334	83634	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3535.02			
40	QPSK	1	1	15.20	15.17	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83094	83334	83684	Tune-up limit (dBm)	MPR (dB)	
				3495.01	3500.01	3535.01			
30	QPSK	1	1	15.08	15.10	15.16	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	83098	83334	83600	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3500.01	3535.01			
25	QPSK	1	1	15.08	15.09	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	83098	83334	83600	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3500.01	3540			
20	QPSK	1	1	15.08	15.09	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	83090	83334	836188	Tune-up limit (dBm)	MPR (dB)	
				3487.5	3500.01	3545.92			
15	QPSK	1	1	15.18	15.24	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	83034	83334	83634	Tune-up limit (dBm)	MPR (dB)	
				3482.01	3500.01	3545.01			
10	QPSK	1	1	15.10	15.26	15.15	16.0	0.0	

Part27Q n78 PC2 Main PA Ant7 DSi4 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. F.Freq.	Power Mod. Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.74					
100	PI2 BPSK	1	137	17.79			18.0	0.0	
100	PI2 BPSK	1	271	17.83					
100	PI2 BPSK	135	0	17.87			19.0	0.0	
100	PI2 BPSK	135	69	17.82			19.0	0.0	
100	PI2 BPSK	135	138	17.71			19.0	0.0	
100	PI2 BPSK	270	0	17.83					
100	QPSK	1	1	17.89			19.0	0.0	
100	QPSK	1	137	17.74					
100	QPSK	1	271	17.81					
100	QPSK	135	0	17.82			19.0	0.0	
100	QPSK	135	69	17.90			19.0	0.0	
100	QPSK	135	138	17.73			19.0	0.0	
100	QPSK	270	0	17.79			19.0	0.0	
100	16QAM	1	1	17.82			19.0	0.0	
100	64QAM	1	1	17.80			19.0	0.0	
100	256QAM	1	1	17.84			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83300	83334	83668	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3505.02			
90	QPSK	1	1	17.81	17.88	17.48	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83334	83334	83634	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3500.01	3510			
80	QPSK	1	1	17.80	17.58	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	83334	83334	83634	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3500.01	3515.01			
70	QPSK	1	1	17.46	17.54	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	83000	83334	83668	Tune-up limit (dBm)	MPR (dB)	
				3490	3500.01	3520.02			
60	QPSK	1	1	17.51	17.64	17.43	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	83100	83334	83600	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525			
50	QPSK	1	1	17.47	17.68	17.39	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	83134	83334	83634	Tune-up limit (dBm)	MPR (dB)	
				3495.01	3500.01	3535.01			
40	QPSK	1	1	17.56	17.62	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83094	83334	83684	Tune-up limit (dBm)	MPR (dB)	
				3495.01	3500.01	3535.01			
30	QPSK	1	1	17.60	17.58	17.51	19.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	83098	83334	83600	Tune-up limit (dBm)	MPR (dB)	
				3495.01	3500.01	3535.01			
25	QPSK	1	1	17.60	17.56	17.48	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	83098	83334	83600	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3500.01	3540			
20	QPSK	1	1	17.55	17.66	17.49	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	83090	83334	836188	Tune-up limit (dBm)	MPR (dB)	
				3487.5	3500.01	3545.92			
15	QPSK	1	1	17.64	17.70	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	83034	83334	83634	Tune-up limit (dBm)	MPR (dB)	
				3482.01	3500.01	3545.01			
10	QPSK	1	1	17.57	17.84	17.55	19.0	0.0	



## Default Power for FR1 Other PA

n5 Other PA Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				834	836.5	839		
Frequency (MHz)								
20	PI/2 BPSK	1	1	24.43	24.47	24.37	25.5	0.0
20	PI/2 BPSK	1	53	24.35	24.41	24.31		
20	PI/2 BPSK	1	104	24.35	24.45	24.37		
20	PI/2 BPSK	50	0	23.89	24.02	23.94	25.0	0.5
20	PI/2 BPSK	50	28	24.35	24.44	24.30	25.5	0.0
20	PI/2 BPSK	50	56	24.00	24.08	23.99	25.0	0.5
20	PI/2 BPSK	100	0	24.01	24.04	23.97		
20	QPSK	1	1	24.49	24.56	24.43	25.5	0.0
20	QPSK	1	53	24.42	24.47	24.36		
20	QPSK	1	104	24.33	24.41	24.30		
20	QPSK	50	0	23.97	24.12	24.07	24.5	1.0
20	QPSK	50	28	24.40	24.49	24.40	25.5	0.0
20	QPSK	50	56	23.45	23.52	23.44	24.5	1.0
20	QPSK	100	0	23.44	23.54	23.41		
20	16QAM	1	1	23.17	23.21	23.08	24.5	1.0
20	64QAM	1	1	21.74	21.78	21.69	23.0	2.5
20	256QAM	1	1	20.53	20.57	20.45	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.42	24.48	24.34	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.39	24.41	24.30	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.32	24.47	24.37	25.5	0.0





n5 Other PA Ant1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)
Channel				166600	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.79	23.69	23.59	25.5	0.0
20	PI2 BPSK	1	83	23.69	23.33	23.70	25.5	0.0
20	PI2 BPSK	1	104	23.70	23.33	23.70	25.5	0.5
20	PI2 BPSK	50	0	23.72	23.29	23.72	25.5	0.0
20	PI2 BPSK	50	56	23.29	23.30	23.30	25.5	0.5
20	PI2 BPSK	100	0	23.30	23.76	23.76	25.5	0.0
20	QPSK	1	1	23.68	23.68	23.68	25.5	0.0
20	QPSK	1	83	23.64	23.64	23.64	25.5	0.0
20	QPSK	1	104	23.64	23.64	23.64	24.5	1.0
20	QPSK	50	0	22.79	23.71	22.79	25.5	0.0
20	QPSK	50	28	22.70	22.70	22.70	24.5	1.0
20	QPSK	100	0	22.76	22.76	22.76	24.5	1.0
20	16QAM	1	1	22.63	22.63	22.63	24.5	1.0
20	64QAM	1	1	21.17	21.17	21.17	23.0	2.5
20	256QAM	1	1	19.83	19.83	19.83	21.0	4.5
Channel				166300	167300	168300	tune-up limit (dB)	MPR
Frequency (MHz)				831.6	836.5	841.5		
15	QPSK	1	1	23.57	23.63	23.56	25.5	0.0
Channel				166800	167300	168800	tune-up limit (dB)	MPR
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.54	23.69	23.61	25.5	0.0
Channel				165000	167500	169000	tune-up limit (dB)	MPR
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.51	23.65	23.58	25.5	0.0

n66 Other PA Ant1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346600	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	24.51	24.65	24.44	25.5	0.0
45	PI2 BPSK	1	120	24.50	24.59	24.48	25.5	0.0
45	PI2 BPSK	1	243	24.53	24.62	24.54	25.5	0.0
45	PI2 BPSK	120	0	24.21	24.26	24.18	25.0	0.5
45	PI2 BPSK	120	60	24.45	24.57	24.42	25.5	0.0
45	PI2 BPSK	120	120	24.02	24.17	24.09	25.0	0.5
45	PI2 BPSK	240	0	24.17	24.26	24.18	25.0	0.5
45	QPSK	1	1	24.57	24.77	24.69	25.5	0.0
45	QPSK	1	120	24.51	24.65	24.53	25.5	0.0
45	QPSK	1	243	24.52	24.62	24.52	25.5	0.0
45	QPSK	120	0	23.81	23.72	23.65	24.5	1.0
45	QPSK	120	60	24.43	24.48	24.42	25.5	0.0
45	QPSK	120	120	23.41	23.58	23.49	24.5	1.0
45	QPSK	240	0	23.59	23.64	23.53	24.5	1.0
45	16QAM	1	1	23.33	23.39	23.23	24.5	1.0
45	64QAM	1	1	21.90	21.99	21.90	23.0	2.5
45	256QAM	1	1	20.53	20.59	20.54	21.0	4.5
Channel				346000	349000	352000	tune-up limit (dB)	MPR
Frequency (MHz)				1728	1742	1749		
40	QPSK	1	1	24.56	24.64	24.51	25.5	0.0
Channel				345500	349000	352500	tune-up limit (dB)	MPR
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	24.62	24.70	24.67	25.5	0.0
Channel				345000	349000	353000	tune-up limit (dB)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	24.48	24.64	24.56	25.5	0.0
Channel				344500	349000	353500	tune-up limit (dB)	MPR
Frequency (MHz)				1722.5	1745	1762.5		
25	QPSK	1	1	24.49	24.65	24.55	25.5	0.0
Channel				344000	349000	354000	tune-up limit (dB)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	24.49	24.69	24.58	25.5	0.0
Channel				343500	349000	354500	tune-up limit (dB)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	24.42	24.70	24.62	25.5	0.0
Channel				343000	349000	355000	tune-up limit (dB)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	24.44	24.65	24.59	25.5	0.0
Channel				342500	349000	355500	tune-up limit (dB)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	24.51	24.66	24.62	25.5	0.0

### n66 Other 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	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	23.88	23.99	23.89	25.0	0.0
45	PI/2 BPSK	1	120	23.83	23.91	23.81		
45	PI/2 BPSK	1	243	23.84	23.94	23.84		
45	PI/2 BPSK	120	0	23.08	23.21	23.09	24.5	0.5
45	PI/2 BPSK	120	60	23.87	23.93	23.82	25.0	0.0
45	PI/2 BPSK	120	120	23.36	23.42	23.33	24.5	0.5
45	PI/2 BPSK	240	0	23.16	23.26	23.12		
45	QPSK	1	1	24.01	24.06	23.90	25.0	0.0
45	QPSK	1	120	23.76	23.84	23.78		
45	QPSK	1	243	23.81	23.92	23.86		
45	QPSK	120	0	22.63	22.69	22.62	24.0	1.0
45	QPSK	120	60	23.98	24.01	23.94	25.0	0.0
45	QPSK	120	120	22.92	22.98	22.90	24.0	1.0
45	QPSK	240	0	22.94	23.09	23.04		
45	16QAM	1	1	22.59	22.72	22.60	24.0	1.0
45	64QAM	1	1	21.22	21.29	21.21	22.5	2.5
45	256QAM	1	1	19.83	19.88	19.82	20.5	4.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	23.82	23.90	23.84	25.0	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	23.88	23.97	23.91	25.0	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	23.92	24.00	23.83	25.0	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	23.88	23.99	23.79	25.0	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	23.88	23.92	23.84	25.0	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	23.91	24.00	23.83	25.0	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	23.86	23.99	23.84	25.0	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	23.90	23.95	23.79	25.0	0.0



### n66 Other 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				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	24.74	24.88	24.82	25.5	0.0
45	PI/2 BPSK	1	120	24.64	24.68	24.55		
45	PI/2 BPSK	1	243	24.68	24.82	24.74		
45	PI/2 BPSK	120	0	24.34	24.48	24.42	25.0	0.5
45	PI/2 BPSK	120	60	24.76	24.84	24.79	25.5	0.0
45	PI/2 BPSK	120	120	24.48	24.58	24.52	25.0	0.5
45	PI/2 BPSK	240	0	24.51	24.58	24.43		
45	QPSK	1	1	24.82	24.93	24.86	25.5	0.0
45	QPSK	1	120	24.87	24.91	24.88		
45	QPSK	1	243	24.86	24.90	24.83		
45	QPSK	120	0	23.88	23.92	23.85	24.5	1.0
45	QPSK	120	60	24.69	24.83	24.76	25.5	0.0
45	QPSK	120	120	23.91	23.96	23.99	24.5	1.0
45	QPSK	240	0	23.84	23.98	23.88		
45	16QAM	1	1	23.33	23.37	23.34	24.5	1.0
45	64QAM	1	1	21.85	21.95	21.91	23.0	2.5
45	256QAM	1	1	20.55	20.59	20.48	21.0	4.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	23.82	23.90	23.84	25.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	23.88	23.97	23.91	25.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	24.77	24.84	24.72	25.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	24.73	24.86	24.78	25.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	24.72	24.84	24.79	25.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	24.72	24.81	24.79	25.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	24.74	24.88	24.75	25.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	24.69	24.86	24.79	25.5	0.0

### n66 Other PA Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	23.33	23.34	23.32	24.5	0.0
45	PI/2 BPSK	1	120	23.33	23.32	23.34		
45	PI/2 BPSK	1	243	22.71	22.92	22.71		
45	PI/2 BPSK	120	0	22.89	23.12	22.89	24.0	0.5
45	PI/2 BPSK	120	60	23.29	23.31	23.30	24.5	0.0
45	PI/2 BPSK	120	120	22.79	22.96	22.74	24.0	0.5
45	PI/2 BPSK	240	0	22.91	23.12	22.88		
45	QPSK	1	1	23.28	23.46	23.27	24.5	0.0
45	QPSK	1	120	23.23	23.39	23.18		
45	QPSK	1	243	23.19	23.38	23.16		
45	QPSK	120	0	22.45	22.67	22.42	23.5	1.0
45	QPSK	120	60	23.14	23.26	23.11	24.5	0.0
45	QPSK	120	120	22.24	22.41	22.30	23.5	1.0
45	QPSK	240	0	22.30	22.47	22.29		
45	16QAM	1	1	22.03	22.27	22.11	23.5	1.0
45	64QAM	1	1	20.58	20.81	20.58	22.0	2.5
45	256QAM	1	1	19.22	19.43	19.25	20.0	4.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	23.16	23.19	23.13	24.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	23.22	23.26	23.20	24.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	23.11	23.28	23.12	24.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	23.13	23.30	23.03	24.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	23.09	23.32	23.07	24.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	23.12	23.34	23.06	24.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	23.16	23.25	23.07	24.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	23.09	23.25	23.03	24.5	0.0

### DSI 0 Power for FR1 Other PA

n5 Other PA Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				834	836.5	839		
Frequency (MHz)								
20	PI/2 BPSK	1	1	24.43	24.47	24.37	25.5	0.0
20	PI/2 BPSK	1	53	24.35	24.41	24.31		
20	PI/2 BPSK	1	104	24.35	24.45	24.37		
20	PI/2 BPSK	50	0	23.89	24.02	23.94	25.0	0.5
20	PI/2 BPSK	50	28	24.35	24.44	24.30	25.5	0.0
20	PI/2 BPSK	50	56	24.00	24.08	23.99	25.0	0.5
20	PI/2 BPSK	100	0	24.01	24.04	23.97		
20	QPSK	1	1	24.49	24.56	24.43	25.5	0.0
20	QPSK	1	53	24.42	24.47	24.36		
20	QPSK	1	104	24.33	24.41	24.30		
20	QPSK	50	0	23.97	24.12	24.07	24.5	1.0
20	QPSK	50	28	24.40	24.49	24.40	25.5	0.0
20	QPSK	50	56	23.45	23.52	23.44	24.5	1.0
20	QPSK	100	0	23.44	23.54	23.41		
20	16QAM	1	1	23.17	23.21	23.08	24.5	1.0
20	64QAM	1	1	21.74	21.78	21.69	23.0	2.5
20	256QAM	1	1	20.53	20.57	20.45	21.0	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	24.42	24.48	24.34	25.5	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	24.39	24.41	24.30	25.5	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	24.32	24.47	24.37	25.5	0.0



n5 Other PA Ant1 DSI0								
BW [MHz]	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	16730	16760		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.02	22.27	22.20	24.0	0.0
20	PI/2 BPSK	1	53	22.13	22.26	22.09		
20	PI/2 BPSK	1	104	22.03	22.11	22.19		
20	PI/2 BPSK	50	0	22.04	22.18	22.08	24.0	0.0
20	PI/2 BPSK	50	28	22.27	22.27	22.28	24.0	0.0
20	PI/2 BPSK	50	96	22.19	22.11	22.03	24.0	0.0
20	PI/2 BPSK	100	0	22.07	22.23	22.20		
20	QPSK	1	1	22.28	22.35	22.31		
20	QPSK	1	53	22.16	22.15	22.28	24.0	0.0
20	QPSK	1	104	22.08	22.15	22.03		
20	QPSK	50	0	22.01	22.23	22.10		
20	QPSK	50	28	22.25	22.31	22.27	24.0	0.0
20	QPSK	50	56	22.17	22.20	22.06	24.0	0.0
20	QPSK	100	0	22.21	22.28	22.26		
20	16QAM	1	1	22.23	22.19	22.29		
20	64QAM	1	1	21.11	21.24	21.23	23.0	1.0
20	256QAM	1	1	19.37	19.31	19.24	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	22.21	22.16	22.15	24.0	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.09	22.16	22.18	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	22.10	22.22	22.21	24.0	0.0

n66 Other PA Ant1 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				34600	34900	35150		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	17.65	17.78	17.61	18.5	0.0
45	PI/2 BPSK	1	120	17.65	17.81	17.62		
45	PI/2 BPSK	1	243	17.72	17.77	17.74		
45	PI/2 BPSK	120	0	17.67	17.64	17.71	18.5	0.0
45	PI/2 BPSK	120	60	17.64	17.67	17.68	18.5	0.0
45	PI/2 BPSK	120	120	17.63	17.64	17.66	18.5	0.0
45	PI/2 BPSK	240	0	17.55	17.66	17.64		
45	QPSK	1	1	17.81	17.83	17.77		
45	QPSK	1	120	17.69	17.66	17.69	18.5	0.0
45	QPSK	1	243	17.80	17.71	17.80		
45	QPSK	120	0	17.68	17.65	17.74		
45	QPSK	120	60	17.77	17.80	17.70	18.5	0.0
45	QPSK	120	120	17.65	17.61	17.66	18.5	0.0
45	QPSK	240	0	17.69	17.75	17.71		
45	16QAM	1	1	17.70	17.52	17.73		
45	64QAM	1	1	17.55	17.59	17.62	18.5	0.0
45	256QAM	1	1	17.65	17.68	17.66	18.5	0.0
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	17.59	17.71	17.59	18.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	17.66	17.78	17.65	18.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	17.74	17.66	17.76	18.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	17.68	17.69	17.58	18.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	17.66	17.74	17.66	18.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	17.63	17.66	17.72	18.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	17.64	17.75	17.67	18.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	17.77	17.70	17.69	18.5	0.0

### n66 Other 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	349000	351500		
Frequency (MHz)				1722.5	1745	1757.5		
45	PI/2 BPSK	1	1	23.88	23.99	23.89	25.0	0.0
45	PI/2 BPSK	1	120	23.83	23.91	23.81		
45	PI/2 BPSK	1	243	23.84	23.94	23.84		
45	PI/2 BPSK	120	0	23.08	23.21	23.09	24.5	0.5
45	PI/2 BPSK	120	60	23.87	23.93	23.82	25.0	0.0
45	PI/2 BPSK	120	120	23.36	23.42	23.33	24.5	0.5
45	PI/2 BPSK	240	0	23.16	23.26	23.12		
45	QPSK	1	1	24.01	24.06	23.90	25.0	0.0
45	QPSK	1	120	23.76	23.84	23.78		
45	QPSK	1	243	23.81	23.92	23.86		
45	QPSK	120	0	22.63	22.69	22.62	24.0	1.0
45	QPSK	120	60	23.98	24.01	23.94	25.0	0.0
45	QPSK	120	120	22.92	22.98	22.90	24.0	1.0
45	QPSK	240	0	22.94	23.09	23.04		
45	16QAM	1	1	22.59	22.72	22.60	24.0	1.0
45	64QAM	1	1	21.22	21.29	21.21	22.5	2.5
45	256QAM	1	1	19.83	19.88	19.82	20.5	4.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	23.82	23.90	23.84	25.0	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	23.88	23.97	23.91	25.0	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	23.92	24.00	23.83	25.0	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	23.88	23.99	23.79	25.0	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	23.88	23.92	23.84	25.0	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	23.91	24.00	23.83	25.0	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	23.86	23.99	23.84	25.0	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	23.90	23.95	23.79	25.0	0.0



n66 Other PA Ant3 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	21.66	21.81	21.80	22.5	0.0
45	PI/2 BPSK	1	120	21.83	21.81	21.80		
45	PI/2 BPSK	1	243	21.75	21.92	21.90		
45	PI/2 BPSK	120	0	21.86	21.85	21.84	22.5	0.0
45	PI/2 BPSK	120	60	21.78	21.84	21.82	22.5	0.0
45	PI/2 BPSK	120	120	21.74	21.70	21.82	22.5	0.0
45	PI/2 BPSK	240	0	21.67	21.72	21.78		
45	QPSK	1	1	21.88	21.94	21.91		
45	QPSK	1	120	21.86	21.74	21.82	22.5	0.0
45	QPSK	1	243	21.92	21.72	21.88		
45	QPSK	120	0	21.87	21.81	21.82		
45	QPSK	120	60	21.90	21.92	21.85	22.5	0.0
45	QPSK	120	120	21.68	21.80	21.70	22.5	0.0
45	QPSK	240	0	21.87	21.88	21.85		
45	16QAM	1	1	21.89	21.57	21.79		
45	64QAM	1	1	21.55	21.66	21.78	22.5	0.0
45	256QAM	1	1	20.31	20.35	20.48	21.0	1.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	21.64	21.68	21.75	22.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	21.71	21.75	21.82	22.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	21.85	21.78	21.82	22.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	21.75	21.93	21.82	22.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	21.84	21.80	21.79	22.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	21.82	21.78	21.77	22.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	21.68	21.88	21.79	22.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	21.78	21.81	21.71	22.5	0.0



### n66 Other PA Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	23.33	23.34	23.32	24.5	0.0
45	PI/2 BPSK	1	120	23.33	23.32	23.34		
45	PI/2 BPSK	1	243	22.71	22.92	22.71		
45	PI/2 BPSK	120	0	22.89	23.12	22.89	24.0	0.5
45	PI/2 BPSK	120	60	23.29	23.31	23.30	24.5	0.0
45	PI/2 BPSK	120	120	22.79	22.96	22.74	24.0	0.5
45	PI/2 BPSK	240	0	22.91	23.12	22.88		
45	QPSK	1	1	23.28	23.46	23.27	24.5	0.0
45	QPSK	1	120	23.23	23.39	23.18		
45	QPSK	1	243	23.19	23.38	23.16		
45	QPSK	120	0	22.45	22.67	22.42	23.5	1.0
45	QPSK	120	60	23.14	23.26	23.11	24.5	0.0
45	QPSK	120	120	22.24	22.41	22.30	23.5	1.0
45	QPSK	240	0	22.30	22.47	22.29		
45	16QAM	1	1	22.03	22.27	22.11	23.5	1.0
45	64QAM	1	1	20.58	20.81	20.58	22.0	2.5
45	256QAM	1	1	19.22	19.43	19.25	20.0	4.5
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	23.16	23.19	23.13	24.5	0.0
Channel				345500	349000	352500		
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	23.22	23.26	23.20	24.5	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.11	23.28	23.12	24.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.13	23.30	23.03	24.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.09	23.32	23.07	24.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.12	23.34	23.06	24.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.16	23.25	23.07	24.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.09	23.25	23.03	24.5	0.0



DSI 0 Power for FR1 EN-DC Other PA

n5 Other PA Ant1 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>1</sub> / P <sub>max</sub>	Power Med P <sub>2</sub> / P <sub>max</sub>	Power High P <sub>3</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				18700	18700	18700			
Channel				834	838.5	838			
20	PI2 BPSK	1	1	19.87	19.71	19.64			
20	PI2 BPSK	1	53	19.87	19.70	19.63	21.5	0.0	
20	PI2 BPSK	1	104	19.88	19.55	19.63			
20	PI2 BPSK	50	0	19.87	19.62	19.52	21.5	0.0	
20	PI2 BPSK	50	29	19.71	19.71	19.72	21.5	0.0	
20	PI2 BPSK	50	59	19.83	19.55	19.60			
20	PI2 BPSK	100	0	19.81	19.87	19.64	21.5	0.0	
20	QPSK	1	1	19.72	19.79	19.75			
20	QPSK	1	53	19.60	19.59	19.72	21.5	0.0	
20	QPSK	1	104	19.52	19.59	19.58			
20	QPSK	50	0	19.82	19.67	19.54	21.5	0.0	
20	QPSK	50	29	19.69	19.70	19.71	21.5	0.0	
20	QPSK	50	59	19.61	19.64	19.65	21.5	0.0	
20	QPSK	100	0	19.85	19.72	19.70	21.5	0.0	
20	8QAM	1	1	19.87	19.63	19.73	21.5	0.0	
20	8QAM	1	1	19.53	19.87	19.54	21.5	0.0	
20	25QAM	1	1	19.37	19.31	19.24	21.0	0.5	
Channel									
Frequency (MHz)				833.5	837.5	837.5	Tune-up limit (dB)	MPR (dB)	
Channel				831.5	838.5	841.5			
15	QPSK	1	1	19.59	19.76	19.68	21.5	0.0	
Channel									
Frequency (MHz)				839	838.5	844	Tune-up limit (dB)	MPR (dB)	
Channel				839	838.5	844			
10	QPSK	1	1	19.52	19.73	19.69	21.5	0.0	
Channel									
Frequency (MHz)				18700	18700	18700	Tune-up limit (dBm)	MPR (dB)	
Channel				838.5	838.5	848.5			
5	QPSK	1	1	19.70	19.70	19.68	21.5	0.0	

n66 Other PA Ant1 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low P <sub>1</sub> / P <sub>max</sub>	Power Med P <sub>2</sub> / P <sub>max</sub>	Power High P <sub>3</sub> / P <sub>max</sub>	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				34900	34900	34900			
Channel				1722.5	1745	1727.5			
45	PI2 BPSK	1	1	15.82	15.73	15.58			
45	PI2 BPSK	1	120	15.82	15.74	15.59	16.5	0.0	
45	PI2 BPSK	1	243	15.89	15.74	15.71			
45	PI2 BPSK	120	0	15.84	15.61	15.68	16.5	0.0	
45	PI2 BPSK	120	60	15.81	15.84	15.88	16.5	0.0	
45	PI2 BPSK	120	90	15.80	15.61	15.63			
45	PI2 BPSK	240	0	15.82	15.63	15.61	16.5	0.0	
45	QPSK	1	1	15.78	15.63	15.74			
45	QPSK	1	120	15.88	15.63	15.66	16.5	0.0	
45	QPSK	1	243	15.77	15.68	15.77			
45	QPSK	120	0	15.65	15.62	15.71	16.5	0.0	
45	QPSK	120	60	15.74	15.77	15.87	16.5	0.0	
45	QPSK	120	120	15.82	15.58	15.63	16.5	0.0	
45	QPSK	240	0	15.78	15.62	15.80			
45	8QAM	1	1	15.87	15.40	15.70	16.5	0.0	
45	8QAM	1	1	15.52	15.56	15.59	16.5	0.0	
45	25QAM	1	1	15.62	15.65	15.63	16.5	0.0	
Channel									
Frequency (MHz)				34900	34900	34900	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760			
40	QPSK	1	1	15.59	15.64	15.58	16.5	0.0	
Channel									
Frequency (MHz)				34900	34900	34900	Tune-up limit (dBm)	MPR (dB)	
Channel				1727.5	1745	1762.5			
35	QPSK	1	1	15.80	15.71	15.70	16.5	0.0	
Channel									
Frequency (MHz)				34900	34900	34900	Tune-up limit (dBm)	MPR (dB)	
Channel				1725	1745	1765			
30	QPSK	1	1	15.74	15.63	15.68	16.5	0.0	
Channel									
Frequency (MHz)				34900	34900	34900	Tune-up limit (dBm)	MPR (dB)	
Channel				1722.5	1745	1767.5			
25	QPSK	1	1	15.74	15.73	15.66	16.5	0.0	
Channel									
Frequency (MHz)				34900	34900	34900	Tune-up limit (dBm)	MPR (dB)	
Channel				1720	1745	1770			
20	QPSK	1	1	15.80	15.71	15.73	16.5	0.0	
Channel									
Frequency (MHz)				34900	34900	34900	Tune-up limit (dBm)	MPR (dB)	
Channel				1717.5	1745	1722.5			
15	QPSK	1	1	15.88	15.67	15.61	16.5	0.0	
Channel									
Frequency (MHz)				34900	34900	34900	Tune-up limit (dBm)	MPR (dB)	
Channel				1715	1745	1725			
10	QPSK	1	1	15.89	15.66	15.63	16.5	0.0	
Channel									
Frequency (MHz)				34900	34900	34900	Tune-up limit (dBm)	MPR (dB)	
Channel				1712.5	1745	1727.5			
5	QPSK	1	1	15.82	15.75	15.62	16.5	0.0	

n66 Other PA Ant3 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F Freq.	Medi Ch. F Freq.	High Ch. F Freq.			
Channel				345000	345000	345000			
Frequency (MHz)				1722.5	1745	1767.5			
45	PI2 BPSK	1	1	19.27	19.42	19.41			
45	PI2 BPSK	1	120	19.44	19.42	19.41	20.0	0.0	
45	PI2 BPSK	1	243	19.36	19.53	19.51			
45	PI2 BPSK	120	0	19.47	19.26	19.45	20.0	0.0	
45	PI2 BPSK	120	60	19.39	19.45	19.43	20.0	0.0	
45	PI2 BPSK	120	180	19.35	19.31	19.43	20.0	0.0	
45	PI2 BPSK	240	0	19.28	19.33	19.39			
45	QPSK	1	1	19.48	19.53	19.52			
45	QPSK	1	120	19.47	19.55	19.45	20.0	0.0	
45	QPSK	1	243	19.53	19.33	19.49			
45	QPSK	120	0	19.48	19.42	19.43	20.0	0.0	
45	QPSK	120	60	19.51	19.53	19.46	20.0	0.0	
45	QPSK	120	120	19.29	19.41	19.31	20.0	0.0	
45	QPSK	240	0	19.48	19.49	19.46			
45	16QAM	1	1	19.50	19.19	19.40	20.0	0.0	
45	16QAM	1	1	19.16	19.27	19.39	20.0	0.0	
45	256QAM	1	1	19.13	19.10	19.20	20.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	19.28	19.29	19.36	22.5	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	19.32	19.36	19.43	20.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.46	19.39	19.43	20.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	19.36	19.54	19.43	20.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1730	1745	1770			
20	QPSK	1	1	19.45	19.41	19.40	20.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.43	19.39	19.38	20.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.29	19.49	19.40	20.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.39	19.42	19.32	20.0	0.0	



### DSI 1 Power for FR1 Other PA

n5 Other PA Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				834	836.5	839		
Frequency (MHz)								
20	PI/2 BPSK	1	1	24.43	24.47	24.37	25.5	0.0
20	PI/2 BPSK	1	53	24.35	24.41	24.31		
20	PI/2 BPSK	1	104	24.35	24.45	24.37		
20	PI/2 BPSK	50	0	23.89	24.02	23.94	25.0	0.5
20	PI/2 BPSK	50	28	24.35	24.44	24.30	25.5	0.0
20	PI/2 BPSK	50	56	24.00	24.08	23.99	25.0	0.5
20	PI/2 BPSK	100	0	24.01	24.04	23.97		
20	QPSK	1	1	24.49	24.56	24.43	25.5	0.0
20	QPSK	1	53	24.42	24.47	24.36		
20	QPSK	1	104	24.33	24.41	24.30		
20	QPSK	50	0	23.97	24.12	24.07	24.5	1.0
20	QPSK	50	28	24.40	24.49	24.40	25.5	0.0
20	QPSK	50	56	23.45	23.52	23.44	24.5	1.0
20	QPSK	100	0	23.44	23.54	23.41		
20	16QAM	1	1	23.17	23.21	23.08	24.5	1.0
20	64QAM	1	1	21.74	21.78	21.69	23.0	2.5
20	256QAM	1	1	20.53	20.57	20.45	21.0	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	24.42	24.48	24.34	25.5	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	24.39	24.41	24.30	25.5	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	24.32	24.47	24.37	25.5	0.0



n5 Other 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				166800	167300	167600			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1		23.76				
20	PI/2 BPSK	1	53		23.69		25.5	0.0	
20	PI/2 BPSK	1	104		23.70				
20	PI/2 BPSK	50	0		23.33		25.0	0.5	
20	PI/2 BPSK	50	28		23.72		25.5	0.0	
20	PI/2 BPSK	50	56		23.29		25.0	0.5	
20	PI/2 BPSK	100	0		23.30				
20	QPSK	1	1		23.78				
20	QPSK	1	53		23.68		25.5	0.0	
20	QPSK	1	104		23.64				
20	QPSK	50	0		22.79		24.5	1.0	
20	QPSK	50	28		23.71		25.5	0.0	
20	QPSK	50	56		22.70		24.5	1.0	
20	QPSK	100	0		22.76				
20	16QAM	1	1		22.63		24.5	1.0	
20	64QAM	1	1		21.17		23.0	2.5	
20	256QAM	1	1		19.83		21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1		23.57	23.63	23.56	25.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1		23.54	23.69	23.61	25.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1		23.51	23.65	23.58	25.5	0.0

n66 Other PA Ant1 DSI1								
BW [MHz]	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	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1		23.08	23.23	23.19	
45	PI/2 BPSK	1	120		22.81	23.13	23.11	24.0
45	PI/2 BPSK	1	243		22.87	23.19	23.00	0.0
45	PI/2 BPSK	120	0		23.04	23.17	23.17	24.0
45	PI/2 BPSK	120	60		23.14	23.16	23.16	24.0
45	PI/2 BPSK	120	120		22.98	23.19	22.97	24.0
45	PI/2 BPSK	240	0		23.02	23.04	23.12	24.0
45	QPSK	1	1		23.21	23.29	23.28	
45	QPSK	1	120		22.99	23.21	23.08	24.0
45	QPSK	1	243		23.01	23.20	22.95	0.0
45	QPSK	120	0		23.08	23.05	23.08	24.0
45	QPSK	120	60		23.15	23.17	23.13	24.0
45	QPSK	120	120		23.02	23.02	22.99	24.0
45	QPSK	240	0		23.04	23.13	23.09	24.0
45	16QAM	1	1		23.10	23.17	23.08	24.0
45	64QAM	1	1		22.16	22.37	22.21	23.0
45	256QAM	1	1		20.16	20.22	20.31	21.0
Channel				346000	349000	352000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1		23.06	23.19	23.20	25.5
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1		23.16	23.28	23.24	24.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1		23.12	23.18	23.27	24.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1		23.05	23.25	23.12	24.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1		23.09	23.29	23.13	24.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1		23.13	23.10	23.12	24.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1		23.16	23.27	23.25	24.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1		23.11	23.15	23.13	24.0



n66 Other PA Ant2 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	21.17	21.31	21.22	22.5	0.0
45	PI/2 BPSK	1	120	21.31	21.44	21.18		
45	PI/2 BPSK	1	243	21.40	21.39	21.31		
45	PI/2 BPSK	120	0	21.29	21.26	21.24	22.5	0.0
45	PI/2 BPSK	120	60	21.30	21.18	21.34	22.5	0.0
45	PI/2 BPSK	120	120	21.13	21.22	21.20	22.5	0.0
45	PI/2 BPSK	240	0	21.09	21.31	21.21		
45	QPSK	1	1	21.48	21.51	21.41	22.5	0.0
45	QPSK	1	120	21.28	21.21	21.39		
45	QPSK	1	243	21.32	21.29	21.35		
45	QPSK	120	0	21.27	21.23	21.39	22.5	0.0
45	QPSK	120	60	21.44	21.49	21.46	22.5	0.0
45	QPSK	120	120	21.17	21.13	21.29	22.5	0.0
45	QPSK	240	0	21.29	21.35	21.33		
45	16QAM	1	1	21.28	21.08	21.25	22.5	0.0
45	64QAM	1	1	21.06	21.20	21.31	22.5	0.0
45	256QAM	1	1	19.57	19.50	19.50	20.5	2.0
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	21.40	21.39	21.28	22.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	21.47	21.46	21.35	22.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	21.43	21.33	21.26	22.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	21.46	21.33	21.39	22.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	21.36	21.38	21.29	22.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	21.47	21.49	21.34	22.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	21.34	21.36	21.28	22.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	21.31	21.41	21.30	22.5	0.0



### n66 Other 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				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	24.74	24.88	24.82	25.5	0.0
45	PI/2 BPSK	1	120	24.64	24.68	24.55		
45	PI/2 BPSK	1	243	24.68	24.82	24.74		
45	PI/2 BPSK	120	0	24.34	24.48	24.42	25.0	0.5
45	PI/2 BPSK	120	60	24.76	24.84	24.79	25.5	0.0
45	PI/2 BPSK	120	120	24.48	24.58	24.52	25.0	0.5
45	PI/2 BPSK	240	0	24.51	24.58	24.43		
45	QPSK	1	1	24.82	24.93	24.86	25.5	0.0
45	QPSK	1	120	24.87	24.91	24.88		
45	QPSK	1	243	24.86	24.90	24.83		
45	QPSK	120	0	23.88	23.92	23.85	24.5	1.0
45	QPSK	120	60	24.69	24.83	24.76	25.5	0.0
45	QPSK	120	120	23.91	23.96	23.99	24.5	1.0
45	QPSK	240	0	23.84	23.98	23.88		
45	16QAM	1	1	23.33	23.37	23.34	24.5	1.0
45	64QAM	1	1	21.85	21.95	21.91	23.0	2.5
45	256QAM	1	1	20.55	20.59	20.48	21.0	4.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	23.82	23.90	23.84	25.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	23.88	23.97	23.91	25.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	24.77	24.84	24.72	25.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	24.73	24.86	24.78	25.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	24.72	24.84	24.79	25.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	24.72	24.81	24.79	25.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	24.74	24.88	24.75	25.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	24.69	24.86	24.79	25.5	0.0

### n66 Other PA Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	23.33	23.34	23.32	24.5	0.0
45	PI/2 BPSK	1	120	23.33	23.32	23.34		
45	PI/2 BPSK	1	243	22.71	22.92	22.71		
45	PI/2 BPSK	120	0	22.89	23.12	22.89	24.0	0.5
45	PI/2 BPSK	120	60	23.29	23.31	23.30	24.5	0.0
45	PI/2 BPSK	120	120	22.79	22.96	22.74	24.0	0.5
45	PI/2 BPSK	240	0	22.91	23.12	22.88		
45	QPSK	1	1	23.28	23.46	23.27	24.5	0.0
45	QPSK	1	120	23.23	23.39	23.18		
45	QPSK	1	243	23.19	23.38	23.16		
45	QPSK	120	0	22.45	22.67	22.42	23.5	1.0
45	QPSK	120	60	23.14	23.26	23.11	24.5	0.0
45	QPSK	120	120	22.24	22.41	22.30	23.5	1.0
45	QPSK	240	0	22.30	22.47	22.29		
45	16QAM	1	1	22.03	22.27	22.11	23.5	1.0
45	64QAM	1	1	20.58	20.81	20.58	22.0	2.5
45	256QAM	1	1	19.22	19.43	19.25	20.0	4.5
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	23.16	23.19	23.13	24.5	0.0
Channel				345500	349000	352500		
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	23.22	23.26	23.20	24.5	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.11	23.28	23.12	24.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.13	23.30	23.03	24.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.09	23.32	23.07	24.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.12	23.34	23.06	24.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.16	23.25	23.07	24.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.09	23.25	23.03	24.5	0.0



### DSI 3 Power for FR1 Other PA

n5 Other PA Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	24.43	24.47	24.37	25.5	0.0
20	PI/2 BPSK	1	53	24.35	24.41	24.31		
20	PI/2 BPSK	1	104	24.35	24.45	24.37		
20	PI/2 BPSK	50	0	23.89	24.02	23.94	25.0	0.5
20	PI/2 BPSK	50	28	24.35	24.44	24.30	25.5	0.0
20	PI/2 BPSK	50	56	24.00	24.08	23.99	25.0	0.5
20	PI/2 BPSK	100	0	24.01	24.04	23.97		
20	QPSK	1	1	24.49	24.56	24.43	25.5	0.0
20	QPSK	1	53	24.42	24.47	24.36		
20	QPSK	1	104	24.33	24.41	24.30		
20	QPSK	50	0	23.97	24.12	24.07	24.5	1.0
20	QPSK	50	28	24.40	24.49	24.40	25.5	0.0
20	QPSK	50	56	23.45	23.52	23.44	24.5	1.0
20	QPSK	100	0	23.44	23.54	23.41		
20	16QAM	1	1	23.17	23.21	23.08	24.5	1.0
20	64QAM	1	1	21.74	21.78	21.69	23.0	2.5
20	256QAM	1	1	20.53	20.57	20.45	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.42	24.48	24.34	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.39	24.41	24.30	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.32	24.47	24.37	25.5	0.0



n5 Other 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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1		23.76				
20	PI/2 BPSK	1	53		23.69		25.5	0.0	
20	PI/2 BPSK	1	104		23.70				
20	PI/2 BPSK	50	0		23.33		25.0	0.5	
20	PI/2 BPSK	50	28		23.72		25.5	0.0	
20	PI/2 BPSK	50	56		23.29		25.0	0.5	
20	PI/2 BPSK	100	0		23.30				
20	QPSK	1	1		23.78				
20	QPSK	1	53		23.68		25.5	0.0	
20	QPSK	1	104		23.64				
20	QPSK	50	0		22.79		24.5	1.0	
20	QPSK	50	28		23.71		25.5	0.0	
20	QPSK	50	56		22.70		24.5	1.0	
20	QPSK	100	0		22.76				
20	16QAM	1	1		22.63		24.5	1.0	
20	64QAM	1	1		21.17		23.0	2.5	
20	256QAM	1	1		19.83		21.0	4.5	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1		23.57	23.63	23.56	25.5	0.0
Channel				165800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1		23.54	23.69	23.61	25.5	0.0
Channel				165300	167300	169300	Tune-up limit	MPR	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1		23.51	23.65	23.58	25.5	0.0

n66 Other 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	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1		24.51	24.65	24.54	
45	PI/2 BPSK	1	120		24.50	24.59	24.48	25.5
45	PI/2 BPSK	1	243		24.53	24.62	24.54	0.0
45	PI/2 BPSK	120	0		24.21	24.26	24.18	25.0
45	PI/2 BPSK	120	60		24.45	24.57	24.42	25.5
45	PI/2 BPSK	120	120		24.02	24.17	24.09	25.0
45	PI/2 BPSK	240	0		24.17	24.26	24.18	0.5
45	QPSK	1	1		24.57	24.77	24.69	
45	QPSK	1	120		24.51	24.65	24.53	25.5
45	QPSK	1	243		24.52	24.62	24.52	0.0
45	QPSK	120	0		23.61	23.72	23.65	24.5
45	QPSK	120	60		24.43	24.48	24.42	25.5
45	QPSK	120	120		23.41	23.56	23.49	24.5
45	QPSK	240	0		23.59	23.64	23.53	25.5
45	16QAM	1	1		23.33	23.38	23.23	24.5
45	64QAM	1	1		21.90	21.99	21.90	23.0
45	256QAM	1	1		20.53	20.59	20.54	21.0
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1		24.56	24.64	24.61	25.5
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1		24.62	24.70	24.67	25.5
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1		24.46	24.64	24.56	25.5
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1		24.49	24.65	24.55	25.5
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1		24.49	24.68	24.56	25.5
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1		24.42	24.70	24.62	25.5
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1		24.44	24.65	24.59	25.5
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1		24.51	24.66	24.62	25.5

### n66 Other 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	349000	351500		
Frequency (MHz)				1722.5	1745	1757.5		
45	PI/2 BPSK	1	1	23.88	23.99	23.89	25.0	0.0
45	PI/2 BPSK	1	120	23.83	23.91	23.81		
45	PI/2 BPSK	1	243	23.84	23.94	23.84		
45	PI/2 BPSK	120	0	23.08	23.21	23.09	24.5	0.5
45	PI/2 BPSK	120	60	23.87	23.93	23.82	25.0	0.0
45	PI/2 BPSK	120	120	23.36	23.42	23.33	24.5	0.5
45	PI/2 BPSK	240	0	23.16	23.26	23.12		
45	QPSK	1	1	24.01	24.06	23.90	25.0	0.0
45	QPSK	1	120	23.76	23.84	23.78		
45	QPSK	1	243	23.81	23.92	23.86		
45	QPSK	120	0	22.63	22.69	22.62	24.0	1.0
45	QPSK	120	60	23.98	24.01	23.94	25.0	0.0
45	QPSK	120	120	22.92	22.98	22.90	24.0	1.0
45	QPSK	240	0	22.94	23.09	23.04		
45	16QAM	1	1	22.59	22.72	22.60	24.0	1.0
45	64QAM	1	1	21.22	21.29	21.21	22.5	2.5
45	256QAM	1	1	19.83	19.88	19.82	20.5	4.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	23.82	23.90	23.84	25.0	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	23.88	23.97	23.91	25.0	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	23.92	24.00	23.83	25.0	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	23.88	23.99	23.79	25.0	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	23.88	23.92	23.84	25.0	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	23.91	24.00	23.83	25.0	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	23.86	23.99	23.84	25.0	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	23.90	23.95	23.79	25.0	0.0



### n66 Other 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				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	24.74	24.88	24.82	25.5	0.0
45	PI/2 BPSK	1	120	24.64	24.68	24.55		
45	PI/2 BPSK	1	243	24.68	24.82	24.74		
45	PI/2 BPSK	120	0	24.34	24.48	24.42	25.0	0.5
45	PI/2 BPSK	120	60	24.76	24.84	24.79	25.5	0.0
45	PI/2 BPSK	120	120	24.48	24.58	24.52	25.0	0.5
45	PI/2 BPSK	240	0	24.51	24.58	24.43		
45	QPSK	1	1	24.82	24.93	24.86	25.5	0.0
45	QPSK	1	120	24.87	24.91	24.88		
45	QPSK	1	243	24.86	24.90	24.83		
45	QPSK	120	0	23.88	23.92	23.85	24.5	1.0
45	QPSK	120	60	24.69	24.83	24.76	25.5	0.0
45	QPSK	120	120	23.91	23.96	23.99	24.5	1.0
45	QPSK	240	0	23.84	23.98	23.88		
45	16QAM	1	1	23.33	23.37	23.34	24.5	1.0
45	64QAM	1	1	21.85	21.95	21.91	23.0	2.5
45	256QAM	1	1	20.55	20.59	20.48	21.0	4.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	23.82	23.90	23.84	25.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	23.88	23.97	23.91	25.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	24.77	24.84	24.72	25.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	24.73	24.86	24.78	25.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	24.72	24.84	24.79	25.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	24.72	24.81	24.79	25.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	24.74	24.88	24.75	25.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	24.69	24.86	24.79	25.5	0.0

### n66 Other PA Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	23.33	23.34	23.32	24.5	0.0
45	PI/2 BPSK	1	120	23.33	23.32	23.34		
45	PI/2 BPSK	1	243	22.71	22.92	22.71		
45	PI/2 BPSK	120	0	22.89	23.12	22.89	24.0	0.5
45	PI/2 BPSK	120	60	23.29	23.31	23.30	24.5	0.0
45	PI/2 BPSK	120	120	22.79	22.96	22.74	24.0	0.5
45	PI/2 BPSK	240	0	22.91	23.12	22.88		
45	QPSK	1	1	23.28	23.46	23.27	24.5	0.0
45	QPSK	1	120	23.23	23.39	23.18		
45	QPSK	1	243	23.19	23.38	23.16		
45	QPSK	120	0	22.45	22.67	22.42	23.5	1.0
45	QPSK	120	60	23.14	23.26	23.11	24.5	0.0
45	QPSK	120	120	22.24	22.41	22.30	23.5	1.0
45	QPSK	240	0	22.30	22.47	22.29		
45	16QAM	1	1	22.03	22.27	22.11	23.5	1.0
45	64QAM	1	1	20.58	20.81	20.58	22.0	2.5
45	256QAM	1	1	19.22	19.43	19.25	20.0	4.5
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	23.16	23.19	23.13	24.5	0.0
Channel				345500	349000	352500		
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	23.22	23.26	23.20	24.5	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.11	23.28	23.12	24.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.13	23.30	23.03	24.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.09	23.32	23.07	24.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.12	23.34	23.06	24.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.16	23.25	23.07	24.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.09	23.25	23.03	24.5	0.0



### DSI 4 Power for FR1 Other PA

n5 Other PA Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	24.43	24.47	24.37	25.5	0.0
20	PI/2 BPSK	1	53	24.35	24.41	24.31		
20	PI/2 BPSK	1	104	24.35	24.45	24.37		
20	PI/2 BPSK	50	0	23.89	24.02	23.94	25.0	0.5
20	PI/2 BPSK	50	28	24.35	24.44	24.30	25.5	0.0
20	PI/2 BPSK	50	56	24.00	24.08	23.99	25.0	0.5
20	PI/2 BPSK	100	0	24.01	24.04	23.97		
20	QPSK	1	1	24.49	24.56	24.43	25.5	0.0
20	QPSK	1	53	24.42	24.47	24.36		
20	QPSK	1	104	24.33	24.41	24.30		
20	QPSK	50	0	23.97	24.12	24.07	24.5	1.0
20	QPSK	50	28	24.40	24.49	24.40	25.5	0.0
20	QPSK	50	56	23.45	23.52	23.44	24.5	1.0
20	QPSK	100	0	23.44	23.54	23.41		
20	16QAM	1	1	23.17	23.21	23.08	24.5	1.0
20	64QAM	1	1	21.74	21.78	21.69	23.0	2.5
20	256QAM	1	1	20.53	20.57	20.45	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.42	24.48	24.34	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.39	24.41	24.30	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.32	24.47	24.37	25.5	0.0



n5 Other PA Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168300	167300	167600		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.02	22.27	22.20	24.0	0.0
20	PI/2 BPSK	1	53	22.13	22.26	22.09		
20	PI/2 BPSK	1	104	22.03	22.11	22.19		
20	PI/2 BPSK	50	0	22.04	22.18	22.08	24.0	0.0
20	PI/2 BPSK	50	28	22.27	22.27	22.28	24.0	0.0
20	PI/2 BPSK	50	96	22.19	22.11	22.03	24.0	0.0
20	PI/2 BPSK	100	0	22.07	22.23	22.20		
20	QPSK	1	1	22.28	22.35	22.31		
20	QPSK	1	53	22.16	22.15	22.28	24.0	0.0
20	QPSK	1	104	22.08	22.15	22.03		
20	QPSK	50	0	22.01	22.23	22.10		
20	QPSK	50	28	22.25	22.31	22.27	24.0	0.0
20	QPSK	50	56	22.17	22.20	22.06	24.0	0.0
20	QPSK	100	0	22.21	22.28	22.26		
20	16QAM	1	1	22.23	22.19	22.29		
20	64QAM	1	1	21.11	21.24	21.23	23.0	1.0
20	256QAM	1	1	19.37	19.31	19.24	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	22.21	22.16	22.15	24.0	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.09	22.16	22.18	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	22.10	22.22	22.21	24.0	0.0

n66 Other PA Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	17.65	17.78	17.61	18.5	0.0
45	PI/2 BPSK	1	120	17.65	17.81	17.62		
45	PI/2 BPSK	1	243	17.72	17.77	17.74		
45	PI/2 BPSK	120	0	17.67	17.64	17.71	18.5	0.0
45	PI/2 BPSK	120	60	17.64	17.67	17.68	18.5	0.0
45	PI/2 BPSK	120	120	17.63	17.64	17.66	18.5	0.0
45	PI/2 BPSK	240	0	17.55	17.66	17.64		
45	QPSK	1	1	17.81	17.83	17.77		
45	QPSK	1	120	17.69	17.66	17.69	18.5	0.0
45	QPSK	1	243	17.80	17.71	17.80		
45	QPSK	120	0	17.68	17.65	17.74		
45	QPSK	120	60	17.77	17.80	17.70	18.5	0.0
45	QPSK	120	120	17.65	17.61	17.66	18.5	0.0
45	QPSK	240	0	17.69	17.75	17.71		
45	16QAM	1	1	17.70	17.52	17.73		
45	64QAM	1	1	17.55	17.59	17.62	18.5	0.0
45	256QAM	1	1	17.65	17.68	17.66	18.5	0.0
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	17.59	17.71	17.59	18.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	17.66	17.78	17.65	18.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	17.74	17.66	17.76	18.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	17.68	17.69	17.58	18.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	17.66	17.74	17.66	18.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	17.63	17.66	17.72	18.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	17.64	17.75	17.67	18.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	17.77	17.70	17.69	18.5	0.0

n66 Other PA Ant2 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	21.17	21.31	21.22	22.5	0.0
45	PI/2 BPSK	1	120	21.31	21.44	21.18		
45	PI/2 BPSK	1	243	21.40	21.39	21.31		
45	PI/2 BPSK	120	0	21.29	21.26	21.24	22.5	0.0
45	PI/2 BPSK	120	60	21.30	21.18	21.34	22.5	0.0
45	PI/2 BPSK	120	120	21.13	21.22	21.20	22.5	0.0
45	PI/2 BPSK	240	0	21.09	21.31	21.21		
45	QPSK	1	1	21.48	21.51	21.41	22.5	0.0
45	QPSK	1	120	21.28	21.21	21.39		
45	QPSK	1	243	21.32	21.29	21.35		
45	QPSK	120	0	21.27	21.23	21.39	22.5	0.0
45	QPSK	120	60	21.44	21.49	21.46	22.5	0.0
45	QPSK	120	120	21.17	21.13	21.29	22.5	0.0
45	QPSK	240	0	21.29	21.35	21.33		
45	16QAM	1	1	21.28	21.08	21.25	22.5	0.0
45	64QAM	1	1	21.06	21.20	21.31	22.5	0.0
45	256QAM	1	1	19.57	19.50	19.50	20.5	2.0
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	21.40	21.39	21.28	22.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	21.47	21.46	21.35	22.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	21.43	21.33	21.26	22.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	21.46	21.33	21.39	22.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	21.36	21.38	21.29	22.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	21.47	21.49	21.34	22.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	21.34	21.36	21.28	22.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	21.31	21.41	21.30	22.5	0.0





n66 Other PA Ant3 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	21.66	21.81	21.80	22.5	0.0
45	PI/2 BPSK	1	120	21.83	21.81	21.80		
45	PI/2 BPSK	1	243	21.75	21.92	21.90		
45	PI/2 BPSK	120	0	21.86	21.85	21.84	22.5	0.0
45	PI/2 BPSK	120	60	21.78	21.84	21.82	22.5	0.0
45	PI/2 BPSK	120	120	21.74	21.70	21.82	22.5	0.0
45	PI/2 BPSK	240	0	21.67	21.72	21.78		
45	QPSK	1	1	21.88	21.94	21.91		
45	QPSK	1	120	21.86	21.74	21.82	22.5	0.0
45	QPSK	1	243	21.92	21.72	21.88		
45	QPSK	120	0	21.87	21.81	21.82		
45	QPSK	120	60	21.90	21.92	21.85	22.5	0.0
45	QPSK	120	120	21.68	21.80	21.70	22.5	0.0
45	QPSK	240	0	21.87	21.88	21.85		
45	16QAM	1	1	21.89	21.57	21.79		
45	64QAM	1	1	21.55	21.66	21.78	22.5	0.0
45	256QAM	1	1	20.31	20.35	20.48	21.0	1.5
Channel				346000	349000	352000	Tune-up limit	MPR
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)
40	QPSK	1	1	21.64	21.68	21.75	22.5	0.0
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	21.71	21.75	21.82	22.5	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	21.85	21.78	21.82	22.5	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	21.75	21.93	21.82	22.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	21.84	21.80	21.79	22.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	21.82	21.78	21.77	22.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	21.68	21.88	21.79	22.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	21.78	21.81	21.71	22.5	0.0



### n66 Other PA Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI/2 BPSK	1	1	23.33	23.34	23.32	24.5	0.0
45	PI/2 BPSK	1	120	23.33	23.32	23.34		
45	PI/2 BPSK	1	243	22.71	22.92	22.71		
45	PI/2 BPSK	120	0	22.89	23.12	22.89	24.0	0.5
45	PI/2 BPSK	120	60	23.29	23.31	23.30	24.5	0.0
45	PI/2 BPSK	120	120	22.79	22.96	22.74	24.0	0.5
45	PI/2 BPSK	240	0	22.91	23.12	22.88		
45	QPSK	1	1	23.28	23.46	23.27	24.5	0.0
45	QPSK	1	120	23.23	23.39	23.18		
45	QPSK	1	243	23.19	23.38	23.16		
45	QPSK	120	0	22.45	22.67	22.42	23.5	1.0
45	QPSK	120	60	23.14	23.26	23.11	24.5	0.0
45	QPSK	120	120	22.24	22.41	22.30	23.5	1.0
45	QPSK	240	0	22.30	22.47	22.29		
45	16QAM	1	1	22.03	22.27	22.11	23.5	1.0
45	64QAM	1	1	20.58	20.81	20.58	22.0	2.5
45	256QAM	1	1	19.22	19.43	19.25	20.0	4.5
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	23.16	23.19	23.13	24.5	0.0
Channel				345500	349000	352500		
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	23.22	23.26	23.20	24.5	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.11	23.28	23.12	24.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.13	23.30	23.03	24.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.09	23.32	23.07	24.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.12	23.34	23.06	24.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.16	23.25	23.07	24.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.09	23.25	23.03	24.5	0.0



Conducted Power for WLAN/BT

2.4GHz WLAN Art.17				Full Power		Standalone for Head		Simultaneous DBS only for Head Simultaneous DBS for hotspot		Simultaneous non DBS&DBS for Head		Simultaneous DBS for Body- Worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.90	19.00	15.92	17.00	14.51	15.50	9.51	10.50	15.36	16.50	98.36
		6	2437	17.30	19.00	15.46	17.00	14.05	15.50	9.03	10.50	14.77	16.50	
		11	2462	17.60	19.00	15.71	17.00	14.26	15.50	9.19	10.50	15.16	16.50	
	802.11g 6Mbps	1	2412	17.70	19.00		17.00		15.50		10.50		16.50	96.53
		6	2437	17.90	19.00		17.00		15.50		10.50		16.50	
		11	2462	17.90	19.00		17.00		15.50		10.50		16.50	
	802.11n-HT20 MCS0	1	2412	17.15	18.00		17.00		15.50		10.50		16.50	96.30
		6	2437	17.01	18.00		17.00		15.50		10.50		16.50	
		11	2462	16.87	18.00		17.00		15.50		10.50		16.50	
	802.11n-HT40 MCS0	3	2422	16.40	17.50		17.00		15.50		10.50		16.50	91.43
		6	2437	16.40	18.00		17.00		15.50		10.50		16.50	
		9	2452	15.30	16.50		16.50		15.50		10.50		16.50	
	802.11ax-HE20 MCS0	1	2412	17.28	18.50		17.00		15.50		10.50		16.50	94.39
		6	2437	17.08	18.00	Not Required	17.00	Not Required	15.50	Not Required	10.50	Not Required	16.50	
		11	2462	16.98	18.00		17.00		15.50		10.50		16.50	
	802.11ax-HE40 MCS0	3	2422	16.50	17.50		17.00		15.50		10.50		16.50	91.53
		6	2437	16.50	17.50		17.00		15.50		10.50		16.50	
		9	2452	15.40	16.50		16.50		15.50		10.50		16.50	
	802.11be EHT20 MCS0	1	2412	17.40	18.50		17.00		15.50		10.50		16.50	95.37
		6	2437	17.20	18.50		17.00		15.50		10.50		16.50	
		11	2462	17.10	18.50		17.00		15.50		10.50		16.50	
	802.11be EHT40 MCS0	3	2422	16.60	17.50		17.00		15.50		10.50		16.50	90.00
		6	2437	16.60	17.50		17.00		15.50		10.50		16.50	
		9	2452	15.50	16.50		16.50		15.50		10.50		16.50	



Ant 6			Full Power		Standalone for Head		Simultaneous DBS only for Head Simultaneous DBS for Hotspot		Simultaneous non DBS&DBS for Head		Simultaneous DBS for Body- Worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11b 1Mbps	1	2412	17.70	19.00	15.83	17.00	14.51	15.50	9.28	10.50	15.13	16.50	98.47
	6	2437	18.00	19.00	16.05	17.00	14.49	15.50	9.54	10.50	15.42	16.50	
	11	2462	17.80	19.00	15.92	17.00	14.41	15.50	9.37	10.50	15.24	16.50	
802.11g 6Mbps	1	2412	17.50	19.00		17.00		15.50		10.50		16.50	95.86
	6	2437	18.50	19.00		17.00		15.50		10.50		16.50	
	11	2462	17.90	19.00		17.00		15.50		10.50		16.50	
802.11n-HT20 MCS0	1	2412	17.05	18.00		17.00		15.50		10.50		16.50	96.30
	6	2437	17.42	18.50		17.00		15.50		10.50		16.50	
	11	2462	17.00	18.00		17.00		15.50		10.50		16.50	
802.11n-HT40 MCS0	3	2422	16.40	17.50		17.00		15.50		10.50		16.50	92.86
	6	2437	17.00	18.00		17.00		15.50		10.50		16.50	
	9	2452	15.70	16.50		16.50		15.50		10.50		16.50	
802.11ax-HE20 MCS0	1	2412	17.18	18.50		17.00		15.50		10.50		16.50	95.33
	6	2437	17.58	18.50	Not Required	17.00	Not Required	15.50	Not Required	10.50	Not Required	16.50	
	11	2462	17.08	18.00		17.00		15.50		10.50		16.50	
802.11ax-HE40 MCS0	3	2422	16.50	17.50		17.00		15.50		10.50		16.50	91.38
	6	2437	17.10	17.50		17.00		15.50		10.50		16.50	
	9	2452	15.80	16.50		16.50		15.50		10.50		16.50	
802.11be EHT20 MCS0	1	2412	17.30	18.50		17.00		15.50		10.50		16.50	95.37
	6	2437	17.70	18.50		17.00		15.50		10.50		16.50	
	11	2462	17.20	18.50		17.00		15.50		10.50		16.50	
802.11be EHT40 MCS0	3	2422	16.60	17.50		17.00		15.50		10.50		16.50	91.67
	6	2437	17.20	18.00		17.00		15.50		10.50		16.50	
	9	2452	15.90	16.50		16.50		15.50		10.50		16.50	



Ant 17+6		Full Power			Standalone for Head		Simultaneous DBS only for Head Simultaneous DBS for Hotspot		Simultaneous non DBS&DBS for Head		Simultaneous DBS for Body- Worn		Duty Cycle %
Mode	Channel	Average power (dBm)	Tune-Up Limit	Power Setting	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11b 1Mbps	1	20.81	22.00	18.50	18.88	20.00	17.41	18.50	12.40	13.50	18.25	19.50	98.47
	6	20.67	22.00	18.50	18.77	20.00	17.28	18.50	12.29	13.50	18.03	19.50	
	11	20.71	22.00	18.50	18.82	20.00	17.34	18.50	12.28	13.50	18.12	19.50	
802.11g 6Mbps	1	20.61	22.00	18.50		20.00		18.50		13.50		19.50	96.53
	6	21.22	22.00	19.00		20.00		18.50		13.50		19.50	
	11	20.91	22.00	19.00		20.00		18.50		13.50		19.50	
802.11n-HT20 MCS0	1	20.11	21.00	18.00		20.00		18.50		13.50		19.50	96.30
	6	20.23	21.50	18.00		20.00		18.50		13.50		19.50	
	11	19.95	21.00	18.00		20.00		18.50		13.50		19.50	
802.11n-HT40 MCS0	3	19.41	20.50	17.00		20.00		18.50		13.50		19.50	92.86
	6	19.72	21.00	17.00		20.00		18.50		13.50		19.50	
	9	18.51	19.50	15.50		19.50		18.50		13.50		19.50	
802.11ax-HE20 MCS0	1	20.24	21.50	18.00		20.00		18.50		13.50		19.50	95.33
	6	20.35	21.50	19.00	Not Required	20.00	Not Required	18.50	Not Required	13.50	Not Required	19.50	
	11	20.04	21.00	18.00		20.00		18.50		13.50		19.50	
802.11ax-HE40 MCS0	3	19.51	20.50	17.00		20.00		18.50		13.50		19.50	91.53
	6	19.82	20.50	17.00		20.00		18.50		13.50		19.50	
	9	18.61	19.50	15.50		19.50		18.50		13.50		19.50	
802.11be EHT20 MCS0	1	20.36	21.50	18.00		20.00		18.50		13.50		19.50	95.37
	6	20.47	21.50	18.00		20.00		18.50		13.50		19.50	
	11	20.16	21.50	18.00		20.00		18.50		13.50		19.50	
802.11be EHT40 MCS0	3	19.61	20.50	17.00		20.00		18.50		13.50		19.50	91.67
	6	19.92	21.00	17.00		20.00		18.50		13.50		19.50	
	9	18.71	19.50	15.50		19.50		18.50		13.50		19.50	



5.2GHz WLAN Ant 5				Full Power		Simultaneous non DBS for Hotspot		Simultaneous DBS for Hotspot		Standalone for Head		Simultaneous DBS only for Head		Simultaneous non DBS/DBS for Head		Simultaneous DBS for Body-Worn		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)		Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.32	18.50	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	96.55
		44	5220	17.32	18.50		16.00		13.00		15.50		14.00		8.50		16.00		
		48	5240	17.28	18.50		16.00		13.00		15.50		14.00		8.50		16.00		
	802.11n-HT20 MCS0	36	5180	16.69	18.00	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	95.56
		44	5220	16.89	18.00		16.00		13.00		15.50		14.00		8.50		16.00		
		48	5240	16.72	18.00		16.00		13.00		15.50		14.00		8.50		16.00		
	802.11n-HT40 MCS0	38	5190	14.94	16.00	14.94	16.00	11.96	13.00	14.33	15.50	13.54	14.00	7.61	8.50	14.94	16.00	16.00	91.43
		46	5230	16.94	18.00	14.91	16.00	11.87	13.00	14.26	15.50	13.46	14.00	7.56	8.50	14.91	16.00	16.00	
	802.11ac-VHT20 MCS0	36	5180	16.57	18.00	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	96.30
		44	5220	16.77	18.00		16.00		13.00		15.50		14.00		8.50		16.00		
		48	5240	16.60	18.00		16.00		13.00		15.50		14.00		8.50		16.00		
	802.11ac-VHT40 MCS0	38	5190	14.78	16.00	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	92.86
		46	5230	16.78	18.00		16.00		13.00		15.50		14.00		8.50		16.00		
	802.11ac-VHT80 MCS0	42	5210	12.16	13.50	Not Required	13.50	Not Required	12.50	Not Required	13.50	Not Required	13.50	Not Required	8.00	Not Required	13.50	13.50	84.21
		36	5180	16.85	18.00		16.00		13.00		15.50		14.00		8.50		16.00		
	802.11ax-HE20 MCS0	44	5220	17.50	18.50	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	94.34
		48	5240	17.33	18.50		16.00		13.00		15.50		14.00		8.50		16.00		
		38	5190	15.05	16.00		16.00		13.00		15.50		14.00		8.50		16.00		
	802.11ax-HE40 MCS0	46	5230	17.05	18.00	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	91.38
		42	5210	12.36	13.50		13.50		12.50		13.50		13.50		8.00		13.50		
	802.11ax-HE80 MCS0	36	5180	17.03	18.00	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	82.35
		44	5220	17.53	18.50		16.00		13.00		15.50		14.00		8.50		16.00		
		48	5240	17.37	18.50		16.00		13.00		15.50		14.00		8.50		16.00		
	802.11be EHT20 MCS0	38	5190	15.16	16.00	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	95.33
46		5230	17.16	18.00	16.00		13.00		15.50		14.00		8.50		16.00				
802.11be EHT40 MCS0	38	5190	15.16	16.00	Not Required	16.00	Not Required	13.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	16.00	91.67	
	46	5230	17.16	18.00		16.00		13.00		15.50		14.00		8.50		16.00			
802.11be EHT80 MCS0	42	5210	12.52	13.50	Not Required	13.50	Not Required	12.50	Not Required	13.50	Not Required	13.50	Not Required	8.00	Not Required	13.50	13.50	85.71	





Ant 5+18		Full Power		Simultaneous non DBS for Hotspot		Simultaneous DBS for Hotspot		Standalone for Head		Simultaneous DBS only for Head		Simultaneous non DBS/DBS for Head		Simultaneous DBS for Body-Worn		Duty Cycle %
Mode	Channel	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	36	20.50	22.00	Not Required	19.50	Not Required	16.50	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	19.50	96.55
	44	20.50	22.00		19.50		16.50		19.00		17.50		12.00		19.50	
	48	20.45	22.00		19.50		16.50		19.00		17.50		12.00		19.50	
802.11n-HT20 MCS0	36	19.89	21.00	Not Required	19.50	Not Required	16.50	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	19.50	95.56
	44	20.04	21.00		19.50		16.50		19.00		17.50		12.00		19.50	
	48	19.93	21.00		19.50		16.50		19.00		17.50		12.00		19.50	
802.11n-HT40 MCS0	36	18.16	19.50	18.16	19.50	15.09	16.50	17.58	19.00	16.15	17.50	10.71	12.00	16.16	19.50	91.43
	46	20.10	21.50	18.02	19.50	14.98	16.50	17.54	19.00	16.03	17.50	10.69	12.00	18.09	19.50	
802.11ac-VHT20 MCS0	36	19.77	21.00	Not Required	19.50	Not Required	16.50	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	19.50	96.30
	44	19.93	21.00		19.50		16.50		19.00		17.50		12.00		19.50	
	48	19.81	21.00		19.50		16.50		19.00		17.50		12.00		19.50	
802.11ac-VHT40 MCS0	38	18.01	19.50	Not Required	19.50	Not Required	16.50	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	19.50	92.86
	46	19.94	21.50		19.50		16.50		19.00		17.50		12.00		19.50	
802.11ac-VHT80 MCS0	42	15.14	16.50	Not Required	16.50	Not Required	16.00	Not Required	16.50	Not Required	16.50	Not Required	11.50	Not Required	16.50	84.21
802.11ax-HE20 MCS0	36	20.03	21.00		19.50		16.50		19.00		17.50		12.00		19.50	
	44	20.64	21.50	19.50	16.50	19.00	17.50	12.00	19.50							
	48	20.52	21.50	19.50	16.50	19.00	17.50	12.00	19.50							
802.11ax-HE40 MCS0	38	18.28	19.50	Not Required	19.50	Not Required	16.50	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	19.50	91.38
	46	20.21	21.50		19.50		16.50		19.00		17.50		12.00		19.50	
802.11ax-HE80 MCS0	42	15.51	16.50	Not Required	16.50	Not Required	16.00	Not Required	16.50	Not Required	16.50	Not Required	11.50	Not Required	16.50	82.35
	802.11be EHT20 MCS0	36	20.25		21.50		19.50		16.50		19.00		17.50		12.00	
44		20.72	21.50	19.50	16.50	19.00	17.50	12.00	19.50							
48		20.58	21.50	19.50	16.50	19.00	17.50	12.00	19.50							
802.11be EHT40 MCS0	38	18.38	19.50	Not Required	19.50	Not Required	16.50	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	19.50	91.67
	46	20.32	21.50		19.50		16.50		19.00		17.50		12.00		19.50	
802.11be EHT80 MCS0	42	15.74	16.50	Not Required	16.50	Not Required	16.00	Not Required	16.50	Not Required	16.50	Not Required	11.50	Not Required	16.50	85.71





5.3GHz WLAN Art 5				Full Power		Standalone for Head		Simultaneous DBS only for Head		Simultaneous non DBS&DBS for Head		Standalone for Extremity		Simultaneous DBS for Body-Worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	
802.11a 6Mbps	52	5260	16.68	17.50	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.50	Not Required	16.50	96.55	
	60	5300	17.15	18.50		16.00		14.50		9.00		17.50		16.50		
	64	5320	16.67	17.50		16.00		14.50		9.00		17.50		16.50		
802.11n-HT20 MCS0	52	5260	17.00	18.00	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.50	Not Required	16.50	95.56	
	60	5300	17.04	18.00		16.00		14.50		9.00		17.50		16.50		
	64	5320	15.74	17.00		16.00		14.50		9.00		17.00		16.50		
802.11n-HT40 MCS0	54	5270	17.27	18.50	14.85	16.00	13.45	14.50	7.96	9.00	16.33	17.50	15.16	16.50	91.43	
	62	5310	14.49	15.50	14.49	15.50	13.01	14.00	7.52	8.50	14.49	15.50	14.49	15.50		
802.11ac-VHT20 MCS0	52	5260	16.88	18.00	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.50	Not Required	16.50	96.30	
	60	5300	16.92	18.50		16.00		14.50		9.00		17.50		16.50		
	64	5320	15.62	16.50		16.00		14.50		9.00		16.50		16.50		
802.11ac-VHT40 MCS0	54	5270	17.11	18.50	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.50	Not Required	16.50	92.86	
	62	5310	14.33	15.50		15.50		14.50		9.00		15.50		15.50		
802.11ac-VHT80 MCS0	58	5290	14.90	16.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	Not Required	16.00	84.21	
802.11ac-VHT160 MCS0	50	5250	11.34	12.50		12.50		12.50		9.00		12.50		12.50	12.50	12.50
802.11ax-HE20 MCS0	52	5260	17.16	18.00	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.50	Not Required	16.50	94.34	
	60	5300	17.20	18.00		16.00		14.50		9.00		17.50		16.50		
	64	5320	15.90	17.00		16.00		14.50		9.00		17.00		16.50		
802.11ax-HE40 MCS0	54	5270	17.38	18.50	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.50	Not Required	16.50	91.38	
	62	5310	14.60	15.50		15.50		14.50		9.00		15.50		15.50		
802.11ax-HE80 MCS0	58	5290	15.10	16.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	Not Required	16.00	82.35	
802.11ax-HE160 MCS0	50	5250	11.44	12.50		12.50		12.50		9.00		12.50		12.50	12.50	12.50
802.11be EHT20 MCS0	52	5260	17.67	18.50	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.50	Not Required	16.50	95.33	
	60	5300	17.71	18.50		16.00		14.50		9.00		17.50		16.50		
	64	5320	15.98	17.00		16.00		14.50		9.00		17.00		16.50		
802.11be EHT40 MCS0	54	5270	17.49	18.50	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.50	Not Required	16.50	91.67	
	62	5310	14.71	15.50		15.50		14.50		9.00		15.50		15.50		
802.11be EHT80 MCS0	58	5290	15.26	16.00	Not Required	15.50	Not Required	14.00	Not Required	8.50	Not Required	16.00	Not Required	16.00	85.71	
802.11be EHT160 MCS0	50	5250	11.63	12.50		12.50		12.50		9.00		12.50		12.50	12.50	12.50



Ant 18			Full Power		Standalone for Head		Simultaneous DBS only for Head		Simultaneous non DBS&DBS for Head		Standalone for Extremity		Simultaneous DBS for Body-Worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	52	5260	17.03	18.00	Not Required	16.50	Not Required	15.00	Not Required	9.50	Not Required	18.00	Not Required	17.00	95.86
	60	5300	17.36	18.50		16.50		15.00		9.50		18.00		17.00	
	64	5320	16.76	18.00		16.50		15.00		9.50		18.00		17.00	
802.11n-HT20 MCS0	52	5260	17.71	18.50	Not Required	16.50	Not Required	15.00	Not Required	9.50	Not Required	18.00	Not Required	17.00	95.56
	60	5300	17.37	18.50		16.50		15.00		9.50		18.00		17.00	
	64	5320	15.91	17.00		16.50		15.00		9.50		17.00		17.00	
802.11n-HT40 MCS0	54	5270	17.70	19.00	15.31	16.50	13.88	15.00	8.42	9.50	16.81	18.00	15.64	17.00	91.43
	62	5310	14.72	16.00	14.72	16.00	13.26	14.50	7.92	9.00	14.72	16.00	14.72	16.00	
802.11ac-VHT20 MCS0	52	5260	17.59	18.50	Not Required	16.50	Not Required	15.00	Not Required	9.50	Not Required	18.00	Not Required	17.00	96.30
	60	5300	17.25	18.50		16.50		15.00		9.50		18.00		17.00	
	64	5320	15.79	16.50		16.50		15.00		9.50		16.50		17.00	
802.11ac-VHT40 MCS0	54	5270	17.54	19.00	Not Required	16.50	Not Required	15.00	Not Required	9.50	Not Required	18.00	Not Required	17.00	92.86
	62	5310	14.56	15.50		15.50		15.00		9.50		15.50		17.00	
802.11ac-VHT80 MCS0	58	5290	14.97	16.00	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	16.00	Not Required	16.00	84.21
802.11ac-VHT160 MCS0	50	5250	11.70	12.50		12.50		12.50		9.50		12.50		12.50	16.00
802.11ax-HE20 MCS0	52	5260	17.83	18.50	Not Required	16.50	Not Required	15.00	Not Required	9.50	Not Required	18.00	Not Required	17.00	95.28
	60	5300	17.49	18.50		16.50		15.00		9.50		18.00		17.00	
	64	5320	16.03	17.00		16.50		15.00		9.50		17.00		17.00	
802.11ax-HE40 MCS0	54	5270	17.81	19.00	Not Required	16.50	Not Required	15.00	Not Required	9.50	Not Required	18.00	Not Required	17.00	91.38
	62	5310	14.83	15.50		15.50		15.00		9.50		15.50		15.50	
802.11ax-HE80 MCS0	58	5290	15.48	17.00	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.00	Not Required	16.50	82.35
802.11ax-HE160 MCS0	50	5250	11.80	12.50		12.50		12.50		9.50		12.50		12.50	16.00
802.11be EHT20 MCS0	52	5260	18.37	19.00	Not Required	16.50	Not Required	15.00	Not Required	9.50	Not Required	18.00	Not Required	17.00	94.44
	60	5300	18.08	19.00		16.50		15.00		9.50		18.00		17.00	
	64	5320	16.16	17.00		16.50		15.00		9.50		17.00		17.00	
802.11be EHT40 MCS0	54	5270	17.92	19.00	Not Required	16.50	Not Required	15.00	Not Required	9.50	Not Required	18.00	Not Required	17.00	91.67
	62	5310	14.94	16.00		16.00		15.00		9.50		16.00		16.00	
802.11be EHT80 MCS0	58	5290	15.79	17.00	Not Required	16.00	Not Required	14.50	Not Required	9.00	Not Required	17.00	Not Required	16.50	82.86
802.11be EHT160 MCS0	50	5250	12.18	13.00		13.00		13.00		9.50		13.00		13.00	16.50



Art 5*18		Full Power		Standalone for Head		Simultaneous DBS only for Head		Simultaneous non DBS/DBS for Head		Standalone for Extremity		Simultaneous DBS for Body-Worn		Duty Cycle %
Mode	Channel	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	52	19.87	21.00	Not Required	19.50	Not Required	18.00	Not Required	12.50	Not Required	21.00	Not Required	20.00	96.55
	60	20.27	21.50		19.50		18.00		12.50		21.00		20.00	
	64	19.73	21.00		19.50		18.00		12.50		21.00		20.00	
802.11n-HT20 MCS0	52	20.38	21.50	Not Required	19.50	Not Required	18.00	Not Required	12.50	Not Required	21.00	Not Required	20.00	95.56
	60	20.22	21.50		19.50		18.00		12.50		21.00		20.00	
	64	18.83	20.00		19.50		18.00		12.50		20.00		20.00	
802.11n-HT40 MCS0	54	20.50	22.00	18.09	19.50	16.67	18.00	11.20	12.50	19.58	21.00	18.43	20.00	91.43
	62	17.62	19.00	17.62	19.00	16.14	17.50	10.72	12.00	17.62	19.00	17.62	19.00	
802.11ac-VHT20 MCS0	52	20.26	21.50	Not Required	19.50	Not Required	18.00	Not Required	12.50	Not Required	21.00	Not Required	20.00	96.30
	60	20.10	21.50		19.50		18.00		12.50		21.00		20.00	
	64	18.72	19.50		19.50		18.00		12.50		19.50		19.50	
802.11ac-VHT40 MCS0	54	20.34	22.00	Not Required	19.50	Not Required	18.00	Not Required	12.50	Not Required	21.00	Not Required	20.00	92.86
	62	17.46	18.50		18.50		18.00		12.50		18.50		18.50	
802.11ac-VHT80 MCS0	58	17.94	19.00	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	19.00	Not Required	19.00	84.21
802.11ac-VHT160 MCS0	50	14.53	15.50		15.50		15.50		12.50		15.50		15.50	15.50
802.11ax-HE20 MCS0	52	20.52	21.50	Not Required	19.50	Not Required	18.00	Not Required	12.50	Not Required	21.00	Not Required	20.00	95.28
	60	20.36	21.50		19.50		18.00		12.50		21.00		20.00	
	64	18.98	20.00		19.50		18.00		12.50		20.00		20.00	
802.11ax-HE40 MCS0	54	20.61	22.00	Not Required	19.50	Not Required	18.00	Not Required	12.50	Not Required	21.00	Not Required	20.00	91.38
	62	17.73	18.50		18.50		18.00		12.50		18.50		18.50	
802.11ax-HE80 MCS0	58	18.31	20.00	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	20.00	Not Required	19.50	82.35
802.11ax-HE160 MCS0	50	14.63	15.50		15.50		15.50		12.50		15.50		15.50	15.50
802.11be EHT20 MCS0	52	21.04	22.00	Not Required	19.50	Not Required	18.00	Not Required	12.50	Not Required	21.00	Not Required	20.00	95.33
	60	20.91	22.00		19.50		18.00		12.50		21.00		20.00	
	64	19.08	20.00		19.50		18.00		12.50		20.00		20.00	
802.11be EHT40 MCS0	54	20.72	22.00	Not Required	19.50	Not Required	18.00	Not Required	12.50	Not Required	21.00	Not Required	20.00	91.67
	62	17.83	19.00		19.00		18.00		12.50		19.00		19.00	
802.11be EHT80 MCS0	58	18.54	20.00	Not Required	19.00	Not Required	17.50	Not Required	12.00	Not Required	20.00	Not Required	19.50	85.71
802.11be EHT160 MCS0	50	14.93	16.00		16.00		16.00		12.50		16.00		16.00	16.00



5.5GHz WLAN Art 5				Full Power		Simultaneous non DBS&DBS for Head		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
								Not Required
802.11a 6Mbps	100	5500	12.55	13.50	Not Required	9.50	96.55	
	116	5580	12.60	13.50		9.50		
	140	5700	12.51	13.50		9.50		
	144	5720	12.63	13.50		9.50		
802.11n-HT20 MCS0	100	5500	12.77	13.50	Not Required	9.50	95.56	
	116	5580	12.60	13.50		9.50		
	140	5700	12.74	13.50		9.50		
	144	5720	12.54	13.50		9.50		
802.11n-HT40 MCS0	102	5510	12.66	14.00	8.21	9.50	91.43	
	110	5550	12.74	14.00	8.39	9.50		
	134	5670	12.49	14.00	8.07	9.50		
	142	5710	12.39	14.00	8.14	9.50		
802.11ac-VHT20 MCS0	100	5500	12.65	13.50	Not Required	9.50	96.30	
	116	5580	12.48	13.50		9.50		
	140	5700	12.62	13.50		9.50		
	144	5720	12.42	13.50		9.50		
802.11ac-VHT40 MCS0	102	5510	12.50	13.50	Not Required	9.50	92.86	
	110	5550	12.58	13.50		9.50		
	134	5670	12.33	13.50		9.50		
	142	5710	12.23	13.50		9.50		
802.11ac-VHT80 MCS0	106	5530	12.27	13.50	Not Required	9.00	84.21	
	122	5610	12.22	13.50		9.00		
	138	5690	12.32	13.50		9.00		
	114	5570	11.08	12.00		9.50		75.00
802.11ax-HE20 MCS0	100	5500	12.93	13.50	Not Required	9.50	94.34	
	116	5580	12.78	13.50		9.50		
	140	5700	12.90	13.50		9.50		
	144	5720	12.70	13.50		9.50		
802.11ax-HE40 MCS0	102	5510	12.87	13.50	Not Required	9.50	91.38	
	110	5550	12.95	13.50		9.50		
	134	5670	12.70	13.50		9.50		
	142	5710	12.66	13.50		9.50		
802.11ax-HE80 MCS0	106	5530	12.61	13.50	Not Required	9.00	82.35	
	122	5610	12.56	13.50		9.00		
	138	5690	12.66	13.50		9.00		
	114	5570	11.16	12.00		9.50		77.27
802.11ax-HE160 MCS0	100	5500	12.98	14.00	Not Required	9.50	95.33	
	116	5580	12.81	14.00		9.50		
	140	5700	12.95	14.00		9.50		
	144	5720	12.75	14.00		9.50		
802.11be EHT20 MCS0	102	5510	13.02	14.00	Not Required	9.50	91.67	
	110	5550	13.10	14.00		9.50		
	134	5670	12.85	14.00		9.50		
	142	5710	12.80	14.00		9.50		
802.11be EHT40 MCS0	106	5530	12.64	13.50	Not Required	9.00	85.71	
	122	5610	12.59	13.50		9.00		
	138	5690	12.69	13.50		9.00		
	114	5570	11.30	12.50		9.50		78.26



Art. 18			Full Power		Simultaneous non DBS&DBS for Head		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	100	5500	12.30	13.50	Not Required	9.50	95.86
	116	5580	12.65	13.50		9.50	
	140	5700	12.67	13.50		9.50	
	144	5720	12.72	13.50		9.50	
802.11n-HT20 MCS0	100	5500	12.46	13.50	Not Required	9.50	95.56
	116	5580	12.41	13.50		9.50	
	140	5700	12.57	13.50		9.50	
	144	5720	12.45	13.50		9.50	
802.11n-HT40 MCS0	102	5510	12.33	14.00	8.01	9.50	91.43
	110	5550	12.46	14.00	8.16	9.50	
	134	5670	12.37	14.00	7.95	9.50	
	142	5710	12.42	14.00	8.03	9.50	
802.11ac-VHT20 MCS0	100	5500	12.34	13.50	Not Required	9.50	96.30
	116	5580	12.29	13.50		9.50	
	140	5700	12.45	13.50		9.50	
	144	5720	12.33	13.50		9.50	
802.11ac-VHT40 MCS0	102	5510	12.17	13.50	Not Required	9.50	92.86
	110	5550	12.30	13.50		9.50	
	134	5670	12.21	13.50		9.50	
	142	5710	12.26	13.50		9.50	
802.11ac-VHT80 MCS0	106	5530	11.75	13.00	Not Required	9.00	84.21
	122	5610	11.86	13.00		9.00	
	138	5690	12.06	13.00		9.00	
	114	5570	11.00	12.00		9.50	
802.11ax-HE20 MCS0	100	5500	12.58	13.50	Not Required	9.50	95.28
	116	5580	12.53	13.50		9.50	
	140	5700	12.69	13.50		9.50	
	144	5720	12.57	13.50		9.50	
802.11ax-HE40 MCS0	102	5510	12.54	13.50	Not Required	9.50	91.38
	110	5550	12.67	13.50		9.50	
	134	5670	12.58	13.50		9.50	
	142	5710	12.64	13.50		9.50	
802.11ax-HE80 MCS0	106	5530	12.09	13.50	Not Required	9.00	82.35
	122	5610	12.20	13.50		9.00	
	138	5690	12.40	13.50		9.00	
	114	5570	11.08	12.00		9.50	
802.11be EHT20 MCS0	100	5500	12.71	14.00	Not Required	9.50	94.44
	116	5580	12.66	14.00		9.50	
	140	5700	12.82	14.00		9.50	
	144	5720	12.70	14.00		9.50	
802.11be EHT40 MCS0	102	5510	12.69	14.00	Not Required	9.50	91.67
	110	5550	12.82	14.00		9.50	
	134	5670	12.73	14.00		9.50	
	142	5710	12.71	14.00		9.50	
802.11be EHT80 MCS0	106	5530	12.27	13.50	Not Required	9.00	82.86
	122	5610	12.38	13.50		9.00	
	138	5690	12.58	13.50		9.00	
	114	5570	11.43	12.50		9.50	



Ant 5+ 18		Full Power		Simultaneous non DBS&DBS for Head		Duty Cycle %	
Mode	Channel	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	15.44	16.50	Not Required	12.50	96.55	
	116	15.64	16.50		12.50		
	140	15.80	16.50		12.50		
	144	15.69	16.50		12.50		
802.11n-HT20 MCS0	100	15.63	16.50		12.50	95.56	
	116	15.51	16.50		12.50		
	140	15.66	16.50		12.50		
	144	15.50	16.50		12.50		
802.11n-HT40 MCS0	102	15.51	17.00		11.11	12.50	91.43
	110	15.61	17.00		11.28	12.50	
	134	15.44	17.00		11.01	12.50	
	142	15.41	17.00		11.09	12.50	
802.11ac-VHT20 MCS0	100	15.51	16.50	Not Required	12.50	96.30	
	116	15.40	16.50		12.50		
	140	15.55	16.50		12.50		
	144	15.39	16.50		12.50		
802.11ac-VHT40 MCS0	102	15.35	16.50		12.50	92.86	
	110	15.45	16.50		12.50		
	134	15.28	16.50		12.50		
	142	15.28	16.50		12.50		
802.11ac-VHT80 MCS0	106	15.02	16.50		12.00	84.21	
	122	15.05	16.50		12.00		
	138	15.20	16.50		12.00		
	114	14.05	15.00		12.50		75.00
802.11ac-VHT160 MCS0	100	15.77	16.50		12.50	95.28	
	116	15.66	16.50		12.50		
	140	15.81	16.50		12.50		
	144	15.65	16.50		12.50		
802.11ax-HE40 MCS0	102	15.72	16.50		12.50	91.38	
	110	15.82	16.50		12.50		
	134	15.65	16.50		12.50		
	142	15.66	16.50		12.50		
802.11ax-HE80 MCS0	106	15.37	16.50	12.00	82.35		
	122	15.40	16.50	12.00			
	138	15.55	16.50	12.00			
	114	14.13	15.00	12.50		77.27	
802.11ax-HE160 MCS0	100	15.86	17.00	12.50	95.33		
	116	15.74	17.00	12.50			
	140	15.69	17.00	12.50			
	144	15.73	17.00	12.50			
802.11be EHT20 MCS0	102	15.87	17.00	12.50	91.67		
	110	15.97	17.00	12.50			
	134	15.80	17.00	12.50			
	142	15.76	17.00	12.50			
802.11be EHT40 MCS0	106	15.47	16.50	12.00	85.71		
	122	15.49	16.50	12.00			
	138	15.64	16.50	12.00			
	114	14.38	15.50	12.50		78.26	



5.8GHz WLAN Ant 5				Full Power		Simultaneous non DBS&DBS for Head			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.8GHz WLAN	802.11a 6Mbps	149	5745	10.29	11.50	Not Required	9.50	96.55	
		157	5785	10.35	11.50		9.50		
		165	5825	10.14	11.50		9.50		
	802.11n-HT20 MCS0	149	5745	10.43	11.50		9.50	95.56	
		157	5785	10.39	11.50		9.50		
		165	5825	10.32	11.50		9.50		
	802.11n-HT40 MCS0	151	5755	10.44	11.50		8.52	9.50	91.43
		159	5795	10.37	11.50		8.44	9.50	
	802.11ac-VHT20 MCS0	149	5745	10.37	11.50		9.50	96.30	
		157	5785	10.33	11.50		9.50		
		165	5825	10.26	11.50		9.50		
	802.11ac-VHT40 MCS0	151	5755	10.37	11.50		9.50	92.86	
		159	5795	10.30	11.50		9.50		
	802.11ac-VHT80 MCS0	155	5775	10.23	11.00		8.50	84.21	
	802.11ax-HE20 MCS0	149	5745	10.49	11.50		9.50	94.34	
		157	5785	10.45	11.50		9.50		
		165	5825	10.38	11.50		9.50		
	802.11ax-HE40 MCS0	151	5755	10.47	11.50		9.50	91.38	
		159	5795	10.40	11.50		9.50		
		155	5775	10.36	11.00		8.50		82.35
802.11be EHT20 MCS0	149	5745	10.57	11.50	9.50	95.33			
	157	5785	10.53	11.50	9.50				
	165	5825	10.46	11.50	9.50				
802.11be EHT40 MCS0	151	5755	10.61	11.50	9.50	91.67			
	159	5795	10.54	11.50	9.50				
802.11be EHT80 MCS0	155	5775	10.36	11.00	8.50	85.71			



Ant 18			Full Power		Simultaneous non DBSS/DBS for Head		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	149	5745	10.13	11.50	Not Required	9.50	95.86
	157	5785	10.45	11.50		9.50	
	165	5825	10.29	11.50		9.50	
802.11n-HT20 MCS0	149	5745	10.31	11.50	Not Required	9.50	95.56
	157	5785	10.27	11.50		9.50	
	165	5825	10.39	11.50		9.50	
802.11n-HT40 MCS0	151	5755	10.16	11.50	8.06	9.50	91.43
	159	5795	10.25	11.50	8.21	9.50	
802.11ac-VHT20 MCS0	149	5745	10.25	11.50	Not Required	9.50	96.30
	157	5785	10.21	11.50		9.50	
	165	5825	10.33	11.50		9.50	
802.11ac-VHT40 MCS0	151	5755	10.09	11.50	Not Required	9.50	92.86
	159	5795	10.18	11.50		9.50	
802.11ac-VHT80 MCS0	155	5775	10.16	11.00	Not Required	8.50	84.21
802.11ax-HE20 MCS0	149	5745	10.33	11.50	Not Required	9.50	95.28
	157	5785	10.29	11.50		9.50	
	165	5825	10.41	11.50		9.50	
802.11ax-HE40 MCS0	151	5755	10.19	11.50	Not Required	9.50	91.38
	159	5795	10.28	11.50		9.50	
802.11ax-HE80 MCS0	155	5775	10.31	11.00	Not Required	8.50	82.35
802.11be EHT20 MCS0	149	5745	10.49	11.50	Not Required	9.50	94.44
	157	5785	10.45	11.50		9.50	
	165	5825	10.57	11.50		9.50	
802.11be EHT40 MCS0	151	5755	10.33	11.50	Not Required	9.50	91.67
	159	5795	10.42	11.50		9.50	
802.11be EHT80 MCS0	155	5775	10.40	11.00	Not Required	8.50	82.86





Ant 5+1B				Full Power		Simultaneous non DBS&DBS for Head		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.9GHz WLAN	802.11a 6Mbps	149	5745	13.22	14.50		12.50	96.55
		157	5785	13.41	14.50		12.50	
		165	5825	13.23	14.50		12.50	
	802.11n-HT20 MCS0	149	5745	13.38	14.50		12.50	95.56
		157	5785	13.34	14.50		12.50	
		165	5825	13.36	14.50		12.50	
	802.11n-HT40 MCS0	151	5755	13.31	14.50	11.30	12.50	91.43
		159	5795	13.32	14.50	11.33	12.50	
	802.11ac-VHT20 MCS0	149	5745	13.32	14.50		12.50	96.30
		157	5785	13.28	14.50		12.50	
		165	5825	13.31	14.50		12.50	
	802.11ac-VHT40 MCS0	151	5755	13.24	14.50		12.50	92.86
		159	5795	13.25	14.50		12.50	
	802.11ac-VHT80 MCS0	155	5775	13.20	14.00		11.50	84.21
	802.11ax-HE20 MCS0	149	5745	13.42	14.50		12.50	95.28
		157	5785	13.38	14.50		12.50	
		165	5825	13.41	14.50		12.50	
	802.11ax-HE40 MCS0	151	5755	13.34	14.50		12.50	91.38
		159	5795	13.35	14.50		12.50	
	802.11ax-HE80 MCS0	155	5775	13.35	14.00		11.50	82.35
802.11be EHT20 MCS0	149	5745	13.54	14.50		12.50	95.33	
	157	5785	13.50	14.50		12.50		
	165	5825	13.52	14.50		12.50		
802.11be EHT40 MCS0	151	5755	13.48	14.50		12.50	91.67	
	159	5795	13.49	14.50		12.50		
802.11be EHT80 MCS0	155	5775	13.39	14.00		11.50	85.71	



BT BR/EDR Ant17			Full Power			Simultaneous for Head		
Mode	Channel	Frequency (MHz)	Average power (dBm)			Average power (dBm)		
			1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	16.37	13.20	13.27	9.41	6.14	6.12
	CH 39	2441	16.55	13.27	13.39	9.58	6.07	6.34
	CH 78	2480	16.28	13.13	13.09	9.36	5.98	5.89
Tune-up Limit			17.50	14.50	14.50	10.50	7.50	7.50

**BLE\_1M** ANT17

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.55
	CH 19	2440	6.87
	CH 39	2480	6.85
Tune-up Limit			8.00

**BLE\_2M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.59
	CH 19	2440	6.92
	CH 39	2480	6.85
Tune-up Limit			8.00

**BLE-125K**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.61
	CH 19	2440	6.94
	CH 39	2480	6.88
Tune-up Limit			8.00

**BLE-500K**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.56
	CH 19	2440	6.89
	CH 39	2480	6.84
Tune-up Limit			8.00

BT BR/EDR Ant6			Full Power			Simultaneous for Head		
Mode	Channel	Frequency (MHz)	Average power (dBm)			Average power (dBm)		
			1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	16.18	13.15	13.19	8.75	5.70	5.76
	CH 39	2441	16.31	13.22	13.36	8.89	5.78	5.85
	CH 78	2480	15.84	12.78	12.87	8.40	5.20	5.44
Tune-up Limit			17.50	14.50	14.50	10.00	7.00	7.00

**BLE\_1M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	7.18
	CH 19	2440	7.60
	CH 39	2480	7.11
Tune-up Limit			8.50

**BLE\_2M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	7.18
	CH 19	2440	7.63
	CH 39	2480	7.07
Tune-up Limit			8.50

**BLE-125K**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	7.22
	CH 19	2440	7.67
	CH 39	2480	7.16
Tune-up Limit			8.50

**BLE-500K**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	7.21
	CH 19	2440	7.61
	CH 39	2480	7.06
Tune-up Limit			8.50