

Full Power Mode

GSM850_Ant1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8	33.50	23.19	23.28	23.21	24.50
GSM 1 Tx slot	32.19	32.28	32.21	33.50	23.19	23.28	23.21	24.50
GPRS 1 Tx slot	32.22	32.30	32.26	33.50	23.22	23.30	23.26	24.50
GPRS 2 Tx slots	30.04	30.21	30.15	31.50	24.04	24.21	24.15	25.50
GPRS 3 Tx slots	27.81	27.90	27.84	29.50	23.55	23.64	23.58	25.24
GPRS 4 Tx slots	25.30	25.34	25.28	27.00	22.30	22.34	22.28	24.00
EDGE 1 Tx slot	26.40	26.51	26.31	28.00	17.40	17.51	17.31	19.00
EDGE 2 Tx slots	23.19	23.43	23.21	25.00	17.19	17.43	17.21	19.00
EDGE 3 Tx slots	21.48	21.76	21.55	23.00	17.22	17.50	17.29	18.74
EDGE 4 Tx slots	20.18	20.23	20.21	22.00	17.18	17.23	17.21	19.00

Band	WCDMA V_Ant1			Tune-up Limit (dBm)	
	4132	4182	4233		
TX Channel	4357	4407	4458		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	24.25	24.28	24.19	25.00
3GPP Rel 99	RMC 12.2Kbps	24.28	24.32	24.21	25.00
3GPP Rel 6	HSDPA Subtest-1	23.33	23.30	23.16	24.00
3GPP Rel 6	HSDPA Subtest-2	23.32	23.28	23.14	24.00
3GPP Rel 6	HSDPA Subtest-3	22.75	22.86	22.62	23.50
3GPP Rel 6	HSDPA Subtest-4	22.86	22.86	22.77	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.35	23.34	23.24	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.27	23.34	23.31	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.73	22.73	22.78	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.80	22.75	22.63	23.50
3GPP Rel 6	HSUPA Subtest-1	23.23	23.28	23.31	24.00
3GPP Rel 6	HSUPA Subtest-2	21.30	21.30	21.22	22.00
3GPP Rel 6	HSUPA Subtest-3	22.28	22.34	22.16	23.00
3GPP Rel 6	HSUPA Subtest-4	21.26	21.42	21.22	22.00
3GPP Rel 6	HSUPA Subtest-5	23.31	23.30	23.22	24.00



GSM1900_Ant2 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8	30.50	20.02	20.10	19.98	21.50
GSM 1 Tx slot	29.02	29.10	28.98	30.50	20.02	20.10	19.98	21.50
GPRS 1 Tx slot	29.05	29.12	29.07	30.50	20.05	20.12	20.07	21.50
GPRS 2 Tx slots	27.54	27.57	27.52	28.50	21.54	21.57	21.52	22.50
GPRS 3 Tx slots	25.38	25.53	25.54	26.50	21.12	21.27	21.28	22.24
GPRS 4 Tx slots	23.26	23.32	23.33	24.50	20.26	20.32	20.33	21.50
EDGE 1 Tx slot	25.24	25.31	25.25	26.50	16.24	16.31	16.25	17.50
EDGE 2 Tx slots	22.98	23.02	22.89	24.50	16.98	17.02	16.89	18.50
EDGE 3 Tx slots	20.97	20.99	20.80	22.50	16.71	16.73	16.54	18.24
EDGE 4 Tx slots	20.17	20.16	20.09	21.50	17.17	17.16	17.09	18.50

Band TX Channel	WCDMA II_Ant2			Tune-up Limit (dBm)	WCDMA IV_Ant2			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
	9662	9800	9938		1537	1638	1738	
Rx Channel	9662 <td>9800 <td>9938 <td>25.00</td> <td>23.80</td> <td>23.97</td> <td>23.84</td> <td>25.00</td> </td></td>	9800 <td>9938 <td>25.00</td> <td>23.80</td> <td>23.97</td> <td>23.84</td> <td>25.00</td> </td>	9938 <td>25.00</td> <td>23.80</td> <td>23.97</td> <td>23.84</td> <td>25.00</td>	25.00	23.80	23.97	23.84	25.00
Frequency (MHz)	1852.4	1880	1907.6	25.00	23.80	23.97	23.84	25.00
3GPP Rel 99	AMR 12.2Kbps	23.87	23.95	23.80	25.00	23.82	23.98	23.86
3GPP Rel 99	RMG 12.2Kbps	23.90	23.97	23.83	25.00	23.82	23.98	23.86
3GPP Rel 6	HSDPA Subtest-1	22.97	22.92	22.76	24.00	22.86	22.95	22.83
3GPP Rel 6	HSDPA Subtest-2	22.95	22.96	22.87	24.00	22.75	22.92	22.93
3GPP Rel 6	HSDPA Subtest-3	22.40	22.54	22.25	23.50	22.40	22.52	22.28
3GPP Rel 6	HSDPA Subtest-4	22.42	22.45	22.37	23.50	22.32	22.57	22.45
3GPP Rel 8	DC-HSDPA Subtest-1	22.84	23.05	22.77	24.00	22.78	22.96	22.83
3GPP Rel 8	DC-HSDPA Subtest-2	22.91	23.06	22.80	24.00	22.81	22.91	22.94
3GPP Rel 8	DC-HSDPA Subtest-3	22.49	22.38	22.24	23.50	22.28	22.56	22.46
3GPP Rel 8	DC-HSDPA Subtest-4	22.35	22.45	22.30	23.50	22.28	22.50	22.29
3GPP Rel 6	HSUPA Subtest-1	22.96	22.88	22.83	24.00	22.85	23.06	22.95
3GPP Rel 6	HSUPA Subtest-2	20.83	20.92	20.88	22.00	20.80	21.03	20.79
3GPP Rel 6	HSUPA Subtest-3	21.95	21.91	21.78	23.00	21.72	21.95	21.81
3GPP Rel 6	HSUPA Subtest-4	20.89	21.02	20.91	22.00	20.79	21.06	20.88
3GPP Rel 6	HSUPA Subtest-5	22.88	23.01	22.77	24.00	22.87	22.90	22.85



Band 2 Ant2 Default										
BR [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time [min]	MFR [dB]		
Channel										
1860 1880 1900										
20	OFDM	1	0	23.34	23.31	23.32	25	0		
20	OFDM	1	99	23.29	23.38	23.32				
20	OFDM	1	99	23.29	23.38	23.32				
20	OFDM	1	99	23.29	23.38	23.32				
20	OFDM	50	24	22.35	22.39	22.35	24	1		
20	OFDM	50	50	22.34	22.43	22.35				
20	OFDM	1	0	22.45	22.61	22.45	24	1		
20	16QAM	1	49	22.49	22.56	22.44				
20	16QAM	1	99	22.44	22.44	22.54				
20	16QAM	50	0	21.35	21.43	21.34	23	2		
20	16QAM	50	24	21.21	21.34	21.24				
20	16QAM	50	50	21.26	21.33	21.23				
20	16QAM	100	0	21.45	21.46	21.44				
20	8QAM	1	49	21.45	21.59	21.45	23	2		
20	8QAM	1	99	21.31	21.45	21.35				
20	8QAM	1	99	21.36	21.46	21.33				
20	8QAM	50	0	20.37	20.43	20.34	22	3		
20	8QAM	50	24	20.26	20.39	20.29				
20	8QAM	50	50	20.26	20.32	20.18				
20	8QAM	100	0	20.42	20.45	20.37				
20	25QAM	1	0	18.38	18.46	18.38	20	5		
20	25QAM	1	49	18.26	18.43	18.39				
20	25QAM	1	99	18.26	18.39	18.39				
20	25QAM	50	0	16.45	16.50	16.37	20	5		
20	25QAM	50	24	16.45	16.48	16.37				
20	25QAM	50	50	16.43	16.47	16.33				
20	25QAM	100	0	18.37	18.42	18.34				
Channel										
1867.5 1890 1902.5										
15	OFDM	1	0	23.23	23.29	23.21	25	0		
15	OFDM	1	99	23.17	23.27	23.21				
15	OFDM	1	74	23.16	23.25	23.27				
15	OFDM	36	0	22.28	22.42	22.24	24	1		
15	OFDM	36	99	22.18	22.39	22.28				
15	OFDM	36	99	22.23	22.39	22.29				
15	OFDM	75	0	22.20	22.40	22.23	24	1		
15	16QAM	1	49	22.36	22.43	22.33				
15	16QAM	1	99	22.34	22.48	22.28				
15	16QAM	1	74	22.42	22.44	22.47				
15	16QAM	36	0	21.18	21.39	21.29	23	2		
15	16QAM	36	20	21.13	21.22	21.13				
15	16QAM	36	99	21.18	21.34	21.31				
15	16QAM	75	0	21.30	21.34	21.31				
15	8QAM	1	0	21.40	21.47	21.39	23	2		
15	8QAM	1	99	21.35	21.47	21.38				
15	8QAM	1	74	21.20	21.37	21.30				
15	8QAM	36	0	20.21	20.39	20.20	22	3		
15	8QAM	36	20	20.23	20.32	20.23				
15	8QAM	36	99	20.10	20.21	20.02				
15	8QAM	75	0	20.35	20.30	20.31	20	5		
15	25QAM	1	0	18.26	18.39	18.28				
15	25QAM	1	37	18.18	18.40	18.25				
15	25QAM	1	74	18.15	18.22	18.22				
15	25QAM	36	0	16.40	16.51	16.33	20	5		
15	25QAM	36	20	16.18	16.18	16.18				
15	25QAM	36	99	16.26	16.33	16.20				
15	25QAM	75	0	18.26	18.33	18.20				
Channel										
1865 1890 1915										
10	OFDM	1	0	23.29	23.33	23.28	25	0		
10	OFDM	1	25	23.09	23.28	23.15				
10	OFDM	1	99	23.12	23.25	23.12				
10	OFDM	25	0	22.29	22.38	22.22	24	1		
10	OFDM	25	12	22.23	22.24	22.08				
10	OFDM	25	0	22.18	22.29	22.18				
10	OFDM	50	0	22.31	22.37	22.20	24	1		
10	16QAM	1	0	22.43	22.54	22.51	24	1		
10	16QAM	1	49	22.43	22.43	22.37				
10	16QAM	1	49	22.33	22.52	22.50				
10	16QAM	25	0	21.28	21.39	21.27	23	2		
10	16QAM	25	0	21.17	21.26	21.28				
10	16QAM	25	20	21.22	21.25	21.08				
10	16QAM	25	99	21.20	21.30	21.20				
10	8QAM	1	0	21.37	21.44	21.30	23	2		
10	8QAM	1	25	21.27	21.34	21.31				
10	8QAM	1	99	21.31	21.32	21.29				
10	8QAM	25	0	20.19	20.28	20.17	22	3		
10	8QAM	25	12	20.16	20.22	20.22				
10	8QAM	25	20	20.27	20.27	20.23				
10	8QAM	50	0	20.27	20.38	20.33				
10	25QAM	1	0	18.26	18.43	18.26	20	5		
10	25QAM	1	25	18.20	18.34	18.24				
10	25QAM	1	49	18.18	18.25	18.27				
10	25QAM	1	99	18.26	18.33	18.20				
10	25QAM	25	12	18.18	18.21	18.25	20	5		
10	25QAM	25	25	18.27	18.39	18.30				
10	25QAM	50	0	18.27	18.28	18.24				
Channel										
1862.5 1890 1917.5										
5	OFDM	1	0	23.29	23.32	23.29	25	0		
5	OFDM	1	12	23.12	23.29	23.15				
5	OFDM	1	24	23.27	23.33	23.23				
5	OFDM	12	0	22.30	22.36	22.28	24	1		
5	OFDM	12	7	22.24	22.31	22.18				
5	OFDM	12	13	22.25	22.36	22.24				
5	OFDM	25	0	22.35	22.38	22.30	24	1		
5	16QAM	1	0	22.30	22.48	22.45	24	1		
5	16QAM	1	12	22.39	22.48	22.37				
5	16QAM	1	24	22.32	22.45	22.47				
5	16QAM	12	0	21.22	21.38	21.29	23	2		
5	16QAM	12	7	21.05	21.31	21.25				
5	16QAM	12	13	21.10	21.28	21.20				
5	16QAM	25	0	21.34	21.42	21.33	23	2		
5	8QAM	1	0	21.30	21.46	21.40	23	2		
5	8QAM	1	12	21.26	21.35	21.30				
5	8QAM	1	24	21.32	21.43	21.25				
5	8QAM	12	0	20.17	20.13	20.14	22	3		
5	8QAM	12	7	20.11	20.28	20.14				
5	8QAM	12	13	20.24	20.10	20.22				
5	8QAM	25	0	20.29	20.29	20.20	20	5		
5	25QAM	1	0	18.22	18.37	18.33				
5	25QAM	1	12	18.23	18.40	18.24				
5	25QAM	1	24	18.19	18.29	18.14				
5	25QAM	12	0	18.39	18.48	18.21				
5	25QAM	12	7	18.26	18.39	18.27				
5	25QAM	12	13	18.35	18.45	18.24	20	5		
5	25QAM	25	0	18.21	18.39	18.30				
Channel										
1851.5 1880 1908.5										
3	OFDM	1	0	23.24	23.31	23.20	25	0		
3	OFDM	1	8	23.26	23.33	23.28				
3	OFDM	1	14	23.13	23.27	23.30				
3	OFDM	8	0	22.31	22.39	22.19	24	1		
3	OFDM	8	4	22.18	22.24	22.11				
3	OFDM	8	7	22.22	22.38	22.43				
3	16QAM	1	0	22.28	22.33	22.18	24	1		
3	16QAM	1	8	22.42	22.42	22.32				
3	16QAM	1	14	22.30	22.45	22.51				
3	16QAM	8	0	21.41	21.54	21.53	23	2		
3	16QAM	8	4	21.09	21.30	21.13				
3	8QAM	1	0	21.30	21.46	21.40	23	2		
3	8QAM	1	8	21.28	21.35	21.24				
3	8QAM	1	14	21.29	21.43	21.29				
3	8QAM	8	0	20.20	20.33	20.19	22	3		
3	8QAM	8	4	20.19	20.29	20.20				
3	8QAM	8	7	20.13						



Band 25 Ant2 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Power Ch. Freq.	Turn-up (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.42	23.44	23.48	25	0	
20	QPSK	1	49	23.24	23.40	23.30			
20	QPSK	1	99	23.20	23.44	23.29			
20	QPSK	50	24	23.16	23.44	23.16			
20	QPSK	50	24	23.33	23.57	23.43	24	1	
20	QPSK	50	50	22.81	22.66	22.49			
20	QPSK	100	0	22.82	22.66	22.63			
20	16QAM	1	0	22.48	22.66	22.57	24	1	
20	16QAM	1	49	22.46	22.49	22.46			
20	16QAM	1	99	22.46	22.55	22.43			
20	16QAM	50	0	21.41	21.49	21.37			
20	16QAM	50	24	21.21	21.36	21.24	23	2	
20	16QAM	50	50	21.26	21.38	21.24			
20	16QAM	100	0	21.47	21.60	21.60			
20	64QAM	1	0	21.52	21.69	21.64	23	2	
20	64QAM	1	49	21.55	21.53	21.43			
20	64QAM	1	99	21.43	21.54	21.47			
20	64QAM	50	24	20.36	20.50	20.39	22	3	
20	64QAM	50	50	20.38	20.43	20.40			
20	64QAM	100	0	20.48	20.62	20.57			
20	256QAM	1	0	18.84	18.81	18.73	20	5	
20	256QAM	1	49	18.86	18.81	18.72			
20	256QAM	1	99	18.88	18.78	18.73			
20	256QAM	50	0	18.63	18.69	18.67	20	5	
20	256QAM	50	24	18.79	18.68	18.67			
20	256QAM	50	50	18.66	18.64	18.65			
20	256QAM	100	0	18.57	18.65	18.65			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.37	23.43	23.34	25	0	
15	QPSK	1	49	23.16	23.38	23.15			
15	QPSK	1	99	23.16	23.38	23.15			
15	QPSK	36	0	22.40	22.48	22.49	24	1	
15	QPSK	36	24	22.47	22.48	22.38			
15	QPSK	36	36	22.34	22.48	22.43			
15	QPSK	75	0	22.51	22.56	22.38	24	1	
15	16QAM	1	0	22.43	22.43	22.54			
15	16QAM	1	37	22.38	22.37	22.36			
15	16QAM	1	74	22.44	22.45	22.40			
15	16QAM	36	0	21.28	21.28	21.20	23	2	
15	16QAM	36	20	21.09	21.28	21.20			
15	16QAM	36	36	21.19	21.28	21.28			
15	16QAM	75	0	21.31	21.41	21.57	23	2	
15	64QAM	1	0	21.48	21.50	21.50	23	2	
15	64QAM	1	37	21.40	21.46	21.46			
15	64QAM	1	74	21.38	21.41	21.33			
15	64QAM	36	0	20.42	20.53	20.53	22	3	
15	64QAM	36	20	20.33	20.38	20.28			
15	64QAM	36	36	20.23	20.42	20.29			
15	64QAM	75	0	20.36	20.37	20.52	20	5	
15	256QAM	1	0	18.52	18.57	18.60			
15	256QAM	1	37	18.51	18.50	18.55			
15	256QAM	1	74	18.60	18.63	18.70			
15	256QAM	36	0	18.52	18.58	18.64	20	5	
15	256QAM	36	20	18.67	18.48	18.59			
15	256QAM	36	36	18.52	18.58	18.64			
15	256QAM	75	0	18.52	18.58	18.53			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.34	23.37	23.31	25	0	
10	QPSK	1	25	23.18	23.36	23.25			
10	QPSK	1	49	23.16	23.44	23.15			
10	QPSK	25	0	22.43	22.57	22.55	24	1	
10	QPSK	25	12	22.37	22.50	22.30			
10	QPSK	25	25	22.44	22.48	22.38			
10	QPSK	50	0	22.48	22.50	22.47	24	1	
10	16QAM	1	0	22.43	22.50	22.49			
10	16QAM	1	24	22.41	22.41	22.39			
10	16QAM	1	49	22.40	22.48	22.37			
10	16QAM	25	0	21.37	21.47	21.52	23	2	
10	16QAM	25	12	21.11	21.46	21.18			
10	16QAM	25	25	21.14	21.31	21.07			
10	16QAM	50	0	21.38	21.49	21.46	23	2	
10	64QAM	1	0	21.48	21.57	21.48	23	2	
10	64QAM	1	24	21.51	21.53	21.40			
10	64QAM	1	49	21.38	21.48	21.44			
10	64QAM	25	0	20.41	20.40	20.39	22	3	
10	64QAM	25	12	20.32	20.34	20.33			
10	64QAM	25	25	20.21	20.42	20.24			
10	64QAM	50	0	20.46	20.50	20.50	20	5	
10	256QAM	1	0	18.57	18.68	18.68			
10	256QAM	1	25	18.53	18.57	18.61			
10	256QAM	1	49	18.56	18.56	18.64			
10	256QAM	25	0	18.53	18.58	18.64	20	5	
10	256QAM	25	12	18.75	18.48	18.53			
10	256QAM	25	25	18.61	18.50	18.58			
10	256QAM	50	0	18.63	18.58	18.68			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.31	23.35	23.31	25	0	
5	QPSK	1	12	23.17	23.35	23.24			
5	QPSK	1	24	23.21	23.40	23.19			
5	QPSK	12	0	22.51	22.56	22.44	24	1	
5	QPSK	12	7	22.38	22.57	22.38			
5	QPSK	12	13	22.47	22.51	22.36			
5	QPSK	25	0	22.46	22.58	22.44	24	1	
5	16QAM	1	0	22.32	22.41	22.42	24	1	
5	16QAM	1	12	22.41	22.45	22.33			
5	16QAM	1	24	22.40	22.45	22.33			
5	16QAM	12	0	21.34	21.45	21.25	23	2	
5	16QAM	12	7	21.08	21.26	21.16			
5	16QAM	12	13	21.16	21.26	21.16			
5	16QAM	25	0	21.40	21.57	21.45	23	2	
5	64QAM	1	0	21.48	21.61	21.41	23	2	
5	64QAM	1	12	21.51	21.44	21.39			
5	64QAM	1	24	21.28	21.47	21.41			
5	64QAM	12	0	20.44	20.52	20.28	22	3	
5	64QAM	12	7	20.25	20.46	20.25			
5	64QAM	12	13	20.32	20.44	20.30			
5	64QAM	25	0	20.40	20.45	20.55	20	5	
5	256QAM	1	0	18.57	18.78	18.63			
5	256QAM	1	12	18.60	18.65	18.64			
5	256QAM	1	24	18.60	18.65	18.64			
5	256QAM	12	0	18.59	18.58	18.53	20	5	
5	256QAM	12	7	18.73	18.54	18.64			
5	256QAM	12	13	18.51	18.50	18.54			
5	256QAM	25	0	18.51	18.65	18.59			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.28	23.32	23.31	25	0	
3	QPSK	1	8	23.16	23.35	23.14			
3	QPSK	1	14	23.21	23.35	23.12			
3	QPSK	8	0	22.46	22.51	22.46	24	1	
3	QPSK	8	4	22.41	22.48	22.39			
3	QPSK	8	7	22.41	22.44	22.44			
3	QPSK	15	0	22.48	22.57	22.36	24	1	
3	16QAM	1	0	22.38	22.45	22.42	24	1	
3	16QAM	1	8	22.39	22.38	22.38			
3	16QAM	8	0	21.38	21.43	21.24	23	2	
3	16QAM	8	4	21.18	21.24	21.19			
3	16QAM	8	7	21.50	21.29	21.16			
3	16QAM	15	0	21.44	21.53	21.48	23	2	
3	64QAM	1	0	21.51	21.56	21.42	23	2	
3	64QAM	1	8	21.38	21.52	21.32			
3	64QAM	1	14	21.27	21.42	21.39			
3	64QAM	8	0	20.39	20.40	20.30	22	3	
3	64QAM	8	4	20.21	20.38	20.31			
3	64QAM	8	7	20.30	20.43	20.32			
3	64QAM	15	0	20.32	20.46	20.53	20	5	
3	256QAM	1	0	18.55	18.67	18.69			
3	256QAM	1	8	18.54	18.48	18.58			
3	256QAM	1	14	18.60	18.67	18.68			
3	256QAM	8							



Band 38 Ant2 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	24.06	24.11	23.93	25	0		
20	QPSK	1	49	23.80	23.89	23.86				
20	QPSK	1	99	23.89	23.95	23.93				
20	QPSK	50	0	22.81	22.97	22.89	24	1		
20	QPSK	50	24	22.81	22.92	22.87				
20	QPSK	50	50	22.73	22.87	22.76				
20	QPSK	100	0	22.92	22.94	22.77	24	1		
20	16QAM	1	0	23.00	23.02	22.91				
20	16QAM	1	49	22.85	22.97	22.86				
20	16QAM	1	99	22.81	22.97	22.95	23	2		
20	16QAM	50	0	21.96	22.01	21.98				
20	16QAM	50	24	21.75	21.88	21.76				
20	16QAM	50	50	21.84	21.97	21.84	23	2		
20	16QAM	100	0	21.84	21.97	21.84				
20	64QAM	1	0	21.77	21.80	21.76				
20	64QAM	1	49	21.61	21.73	21.58	23	2		
20	64QAM	1	99	21.62	21.76	21.71				
20	64QAM	50	0	21.01	21.04	20.90				
20	64QAM	50	24	20.87	21.01	20.95	22	3		
20	64QAM	50	50	20.95	20.98	20.86				
20	64QAM	100	0	20.86	20.96	20.87				
20	256QAM	1	0	18.85	18.77	18.75	20	5		
20	256QAM	1	49	18.57	18.68	18.61				
20	256QAM	1	99	18.58	18.73	18.62				
20	256QAM	50	0	18.94	19.07	18.92	20	5		
20	256QAM	50	24	18.93	19.01	18.96				
20	256QAM	50	50	18.89	18.95	18.86				
20	256QAM	100	0	18.92	18.98	18.84				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.91	24.05	23.83	25	0		
15	QPSK	1	37	23.75	23.74	23.75				
15	QPSK	1	74	23.84	23.87	23.82				
15	QPSK	36	0	22.68	22.85	22.84	24	1		
15	QPSK	36	20	22.64	22.80	22.77				
15	QPSK	36	39	22.57	22.77	22.62				
15	QPSK	75	0	22.79	22.89	22.63	24	1		
15	16QAM	1	0	22.98	22.99	22.84				
15	16QAM	1	37	22.70	22.89	22.81				
15	16QAM	1	74	22.78	22.83	22.81	23	2		
15	16QAM	36	0	21.82	21.94	21.92				
15	16QAM	36	20	21.59	21.82	21.60				
15	16QAM	36	39	21.78	21.91	21.77	23	2		
15	16QAM	75	0	21.76	21.85	21.80				
15	64QAM	1	0	21.70	21.68	21.72				
15	64QAM	1	37	21.48	21.57	21.44	23	2		
15	64QAM	1	74	21.58	21.67	21.59				
15	64QAM	36	0	20.93	20.98	20.77				
15	64QAM	36	20	20.73	20.92	20.85	22	3		
15	64QAM	36	39	20.92	20.93	20.79				
15	64QAM	75	0	20.77	20.86	20.72				
15	256QAM	1	0	18.51	18.67	18.66	20	5		
15	256QAM	1	37	18.44	18.63	18.58				
15	256QAM	1	74	18.46	18.60	18.57				
15	256QAM	36	0	18.90	18.99	18.84	20	5		
15	256QAM	36	20	18.87	18.97	18.92				
15	256QAM	36	39	18.73	18.93	18.72				
15	256QAM	75	0	18.66	18.84	18.68				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	24.00	23.99	23.84	25	0		
10	QPSK	1	25	23.76	23.82	23.70				
10	QPSK	1	49	23.77	23.91	23.76				
10	QPSK	25	0	22.64	22.82	22.85	24	1		
10	QPSK	25	12	22.78	22.79	22.77				
10	QPSK	25	25	22.61	22.81	22.67				
10	QPSK	50	0	22.86	22.88	22.67	24	1		
10	16QAM	1	0	22.92	22.99	22.78				
10	16QAM	1	25	22.69	22.87	22.72				
10	16QAM	1	49	22.86	22.83	22.92	23	2		
10	16QAM	25	0	21.94	21.93	21.95				
10	16QAM	25	12	21.65	21.86	21.63				
10	16QAM	25	25	21.68	21.82	21.77	23	2		
10	16QAM	50	0	21.71	21.83	21.82				
10	64QAM	1	0	21.69	21.76	21.70				
10	64QAM	1	25	21.55	21.58	21.43	23	2		
10	64QAM	1	49	21.57	21.61	21.56				
10	64QAM	25	0	20.94	20.87	20.80				
10	64QAM	25	12	20.81	20.98	20.85	22	3		
10	64QAM	25	25	20.79	20.89	20.80				
10	64QAM	50	0	20.82	20.92	20.83				
10	256QAM	1	0	18.51	18.63	18.66	20	5		
10	256QAM	1	25	18.55	18.57	18.45				
10	256QAM	1	49	18.58	18.56	18.59				
10	256QAM	25	0	18.87	19.01	18.84	20	5		
10	256QAM	25	12	18.87	18.86	18.92				
10	256QAM	25	25	18.74	18.92	18.77				
10	256QAM	50	0	18.86	18.83	18.81				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.95	23.95	23.90	25	0		
5	QPSK	1	12	23.64	23.85	23.69				
5	QPSK	1	24	23.80	23.91	23.83				
5	QPSK	12	0	22.64	22.82	22.79	24	1		
5	QPSK	12	7	22.71	22.75	22.72				
5	QPSK	12	13	22.66	22.78	22.72				
5	QPSK	25	0	22.82	22.84	22.67	24	1		
5	16QAM	1	0	22.93	22.87	22.76				
5	16QAM	1	12	22.73	22.86	22.74				
5	16QAM	1	24	22.70	22.93	22.80	23	2		
5	16QAM	12	0	21.88	21.95	21.95				
5	16QAM	12	7	21.72	21.82	21.67				
5	16QAM	12	13	21.68	21.95	21.79	23	2		
5	16QAM	25	0	21.80	21.90	21.83				
5	64QAM	1	0	21.72	21.63	21.59				
5	64QAM	1	12	21.57	21.60	21.51	23	2		
5	64QAM	1	24	21.59	21.70	21.60				
5	64QAM	12	0	20.89	20.92	20.81				
5	64QAM	12	7	20.76	20.94	20.87	22	3		
5	64QAM	12	13	20.84	20.88	20.80				
5	64QAM	25	0	20.72	20.94	20.83				
5	256QAM	1	0	18.55	18.61	18.61	20	5		
5	256QAM	1	12	18.52	18.61	18.50				
5	256QAM	1	24	18.43	18.60	18.57				
5	256QAM	12	0	18.81	18.92	18.88	20	5		
5	256QAM	12	7	18.78	18.93	18.92				
5	256QAM	12	13	18.78	18.81	18.79				
5	256QAM	25	0	18.89	18.92	18.70				

Band 41 Ant2 Default												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	24.07	24.14	24.20	24.17	24.05	25	0		
20	QPSK	1	49	24.00	24.01	24.06	23.96	23.92				
20	QPSK	1	99	24.05	23.96	24.12	23.95	23.96				
20	QPSK	50	0	23.05	23.07	23.13	23.04	23.01	24	1		
20	QPSK	50	24	22.99	22.92	23.02	22.91	22.98				
20	QPSK	50	50	23.08	22.96	23.10	22.99	23.02				
20	QPSK	100	0	22.86	22.89	23.03	22.92	22.98	24	1		
20	16QAM	1	0	23.17	23.07	23.21	23.09	23.06				
20	16QAM	1	49	23.03	23.06	23.11	23.03	23.01				
20	16QAM	1	99	22.93	23.05	23.14	23.09	23.01	23	2		
20	16QAM	50	0	22.08	22.10	22.15	22.05	22.08				
20	16QAM	50	24	22.00	21.95	22.03	21.95	21.88				
20	16QAM	50	50	21.80	22.04	22.06	21.93	21.96	23	2		



Band 42 FCC Part27Q Ant3 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	23.24	23.44	23.23	25	0	
20	QPSK	1	49	23.23	23.37	23.26			
20	QPSK	1	99	23.16	23.23	23.19			
20	QPSK	50	0	22.43	22.51	22.32	24	1	
20	QPSK	50	24	22.39	22.44	22.26			
20	QPSK	50	50	22.31	22.35	22.09			
20	QPSK	100	0	22.30	22.45	22.27	24	1	
20	16QAM	1	0	22.23	22.40	22.14			
20	16QAM	1	49	22.28	22.36	22.15			
20	16QAM	1	99	22.21	22.30	22.11	23	2	
20	16QAM	50	0	21.32	21.48	21.23			
20	16QAM	50	24	21.20	21.36	21.09			
20	16QAM	50	50	21.26	21.41	21.20	23	2	
20	16QAM	100	0	21.27	21.44	21.14			
20	64QAM	1	0	21.21	21.26	21.03			
20	64QAM	1	49	21.06	21.13	21.22	23	2	
20	64QAM	1	99	21.10	21.15	21.18			
20	64QAM	50	0	20.40	20.56	20.29			
20	64QAM	50	24	20.46	20.51	20.26	22	3	
20	64QAM	50	50	20.38	20.46	20.21			
20	64QAM	100	0	20.31	20.43	20.26			
20	256QAM	1	0	18.37	18.41	18.19	20	5	
20	256QAM	1	49	18.27	18.35	18.12			
20	256QAM	1	99	18.26	18.33	18.06			
20	256QAM	50	0	18.50	18.59	18.35	20	5	
20	256QAM	50	24	18.35	18.47	18.26			
20	256QAM	50	50	18.54	18.57	18.36			
20	256QAM	100	0	18.38	18.41	18.17			
Channel				42185	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	23.08	23.29	23.09	25	0	
15	QPSK	1	37	23.10	23.23	23.22			
15	QPSK	1	74	23.11	23.14	23.10			
15	QPSK	36	0	22.28	22.39	22.18	24	1	
15	QPSK	36	20	22.34	22.41	22.23			
15	QPSK	36	39	22.28	22.27	22.02			
15	QPSK	75	0	22.23	22.42	22.24	24	1	
15	16QAM	1	0	22.20	22.25	22.11			
15	16QAM	1	37	22.23	22.39	22.09			
15	16QAM	1	74	22.10	22.24	22.21	23	2	
15	16QAM	36	0	21.25	21.35	21.10			
15	16QAM	36	20	21.18	21.26	21.20			
15	16QAM	36	39	21.13	21.24	21.09	23	2	
15	16QAM	75	0	21.13	21.32	21.01			
15	64QAM	1	0	21.09	21.20	21.18			
15	64QAM	1	37	21.21	21.07	21.19	23	2	
15	64QAM	1	74	21.11	21.06	21.11			
15	64QAM	36	0	20.24	20.50	20.20			
15	64QAM	36	20	20.30	20.47	20.13	22	3	
15	64QAM	36	39	20.35	20.35	20.06			
15	64QAM	75	0	20.20	20.39	20.13			
15	256QAM	1	0	18.25	18.29	18.14	20	5	
15	256QAM	1	37	18.21	18.23	18.01			
15	256QAM	1	74	18.19	18.24	18.01			
15	256QAM	36	0	18.47	18.52	18.21	20	5	
15	256QAM	36	20	18.29	18.41	18.15			
15	256QAM	36	39	18.47	18.47	18.32			
15	256QAM	75	0	18.29	18.35	18.12			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	23.15	23.41	23.06	25	0	
10	QPSK	1	25	23.14	23.22	23.21			
10	QPSK	1	49	23.11	23.20	23.05			
10	QPSK	25	0	22.36	22.43	22.18	24	1	
10	QPSK	25	12	22.36	22.31	22.23			
10	QPSK	25	25	22.20	22.33	22.11			
10	QPSK	50	0	22.16	22.41	22.14	24	1	
10	16QAM	1	0	22.18	22.30	22.06			
10	16QAM	1	25	22.16	22.29	22.09			
10	16QAM	1	49	22.07	22.22	22.06	23	2	
10	16QAM	25	0	21.28	21.37	21.16			
10	16QAM	25	12	21.03	21.21	21.19			
10	16QAM	25	25	21.17	21.34	21.11	23	2	
10	16QAM	50	0	21.12	21.42	21.11			
10	64QAM	1	0	21.16	21.18	21.00			
10	64QAM	1	25	21.04	21.07	21.22	23	2	
10	64QAM	1	49	21.29	21.06	21.22			
10	64QAM	25	0	20.37	20.49	20.17			
10	64QAM	25	12	20.34	20.45	20.16	22	3	
10	64QAM	25	25	20.26	20.40	20.19			
10	64QAM	50	0	20.28	20.39	20.17			
10	256QAM	1	0	18.20	18.34	18.14	20	5	
10	256QAM	1	25	18.19	18.24	18.11			
10	256QAM	1	49	18.11	18.30	18.20			
10	256QAM	25	0	18.40	18.56	18.18	20	5	
10	256QAM	25	12	18.33	18.35	18.11			
10	256QAM	25	25	18.49	18.51	18.24			
10	256QAM	50	0	18.28	18.27	18.06			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	23.11	23.41	23.10	25	0	
5	QPSK	1	12	23.18	23.22	23.19			
5	QPSK	1	24	23.05	23.14	23.13			
5	QPSK	12	0	22.38	22.38	22.23	24	1	
5	QPSK	12	7	22.25	22.41	22.22			
5	QPSK	12	13	22.28	22.29	22.21			
5	QPSK	25	0	22.26	22.40	22.15	24	1	
5	16QAM	1	0	22.19	22.24	22.10			
5	16QAM	1	12	22.16	22.27	22.06			
5	16QAM	1	24	22.13	22.21	22.01	23	2	
5	16QAM	12	0	21.15	21.37	21.10			
5	16QAM	12	7	21.13	21.29	21.07			
5	16QAM	12	13	21.20	21.38	21.13	23	2	
5	16QAM	25	0	21.10	21.39	21.04			
5	64QAM	1	0	21.37	21.40	21.16			
5	64QAM	1	12	21.19	21.19	21.14	23	2	
5	64QAM	1	24	21.17	21.32	21.03			
5	64QAM	12	0	20.34	20.40	20.19			
5	64QAM	12	7	20.36	20.37	20.18	22	3	
5	64QAM	12	13	20.27	20.39	20.16			
5	64QAM	25	0	20.20	20.37	20.21			
5	256QAM	1	0	18.21	18.33	18.04	20	5	
5	256QAM	1	12	18.20	18.20	18.08			
5	256QAM	1	24	18.16	18.24	18.01			
5	256QAM	12	0	18.36	18.48	18.29	20	5	
5	256QAM	12	7	18.26	18.36	18.16			
5	256QAM	12	13	18.42	18.45	18.29			
5	256QAM	25	0	18.26	18.33	18.13			



Band 4 Ant6 Default										
BR [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
20	QPSK	1	0	23.24	23.24	23.24				
20	QPSK	1	9	23.40	23.40	23.41			25	0
20	QPSK	1	99	23.34	23.39	23.30				
20	QPSK	50	24	23.16	23.31	23.16				
20	QPSK	50	50	23.12	23.14	23.19			25	0
20	QPSK	50	75	23.00	23.00	23.00				
20	16QAM	1	0	23.11	23.20	23.20			25	0
20	16QAM	1	99	23.20	23.20	23.18				
20	16QAM	50	24	22.44	22.44	22.40				
20	16QAM	50	24	22.50	22.41	22.35			24	1
20	16QAM	50	75	22.11	22.11	22.33				
20	16QAM	100	0	22.44	22.46	22.40				
20	84QAM	1	48	22.28	22.20	22.22			24	1
20	84QAM	1	99	22.29	22.27	22.28				
20	84QAM	50	0	21.38	21.38	21.44				
20	84QAM	50	24	21.24	21.48	21.23			23	2
20	84QAM	50	50	21.20	21.50	21.31				
20	84QAM	100	0	21.53	21.43	21.70				
20	256QAM	1	0	19.32	19.56	19.38				
20	256QAM	1	49	19.51	19.38	19.27			21	4
20	256QAM	50	0	19.39	19.39	19.20				
20	256QAM	50	0	19.37	19.31	19.29				
20	256QAM	50	24	19.35	19.40	19.22			21	4
20	256QAM	50	75	19.36	19.36	19.22				
20	256QAM	100	0	19.48	19.55	19.47				
Channel										
15	QPSK	1	0	23.34	23.32	23.25				
15	QPSK	1	37	23.37	23.37	23.37			25	0
15	QPSK	1	74	23.19	23.03	23.24				
15	QPSK	36	0	23.07	23.17	23.02				
15	QPSK	36	36	23.03	23.38	23.28			25	0
15	QPSK	36	36	23.08	23.09	23.03				
15	QPSK	75	0	23.13	23.10	23.00				
15	16QAM	1	0	23.07	23.07	23.08				
15	16QAM	1	37	23.01	23.07	23.11			25	0
15	16QAM	1	74	23.19	23.22	23.18				
15	16QAM	36	0	22.58	22.59	22.43				
15	16QAM	36	36	22.40	22.57	22.34			24	1
15	16QAM	36	36	22.52	22.58	22.50				
15	16QAM	75	0	22.44	22.58	22.50				
15	84QAM	1	0	22.51	22.49	22.28				
15	84QAM	1	37	22.47	22.47	22.43			24	1
15	84QAM	1	74	22.47	22.28	22.09				
15	84QAM	36	0	21.22	21.65	21.41				
15	84QAM	36	36	21.46	21.37	21.37			23	2
15	84QAM	36	36	21.24	21.37	21.26				
15	84QAM	75	0	21.49	21.58	21.66				
15	256QAM	1	0	19.28	19.37	19.17				
15	256QAM	1	37	19.32	19.31	19.22			21	4
15	256QAM	1	74	19.13	19.20	19.22				
15	256QAM	36	0	19.33	19.45	19.37				
15	256QAM	36	20	19.24	19.24	19.42			21	4
15	256QAM	36	36	19.37	19.37	19.22				
15	256QAM	75	0	19.53	19.42	19.37				
Channel										
10	QPSK	1	0	23.33	23.34	23.30				
10	QPSK	1	25	23.36	23.32	23.38			25	0
10	QPSK	1	50	23.36	23.36	23.36				
10	QPSK	25	0	23.19	23.34	23.08				
10	QPSK	25	12	23.18	23.41	23.24			25	0
10	QPSK	50	0	23.13	23.37	23.06				
10	16QAM	1	0	23.18	23.31	23.31				
10	16QAM	1	25	23.19	23.46	23.23			25	0
10	16QAM	1	49	23.32	23.28	23.20				
10	16QAM	25	0	22.53	22.54	22.34				
10	16QAM	25	12	22.39	22.45	22.20			24	1
10	16QAM	25	25	22.14	22.16	22.43				
10	16QAM	50	0	22.46	22.51	22.19				
10	84QAM	1	0	22.46	22.51	22.19				
10	84QAM	1	25	22.24	22.19	22.25			24	1
10	84QAM	1	49	22.34	22.48	22.23				
10	84QAM	25	0	21.24	21.67	21.50				
10	84QAM	25	12	21.21	21.40	21.25			23	2
10	84QAM	25	25	21.20	21.30	21.28				
10	84QAM	50	0	21.43	21.58	21.73				
10	256QAM	1	0	19.16	19.44	19.40				
10	256QAM	1	25	19.13	19.41	19.31			21	4
10	256QAM	1	49	19.18	19.24	19.42				
10	256QAM	25	0	19.43	19.40	19.52				
10	256QAM	25	12	19.45	19.40	19.52			21	4
10	256QAM	25	25	19.35	19.48	19.52				
10	256QAM	50	0	19.40	19.46	19.27				
Channel										
5	QPSK	1	0	23.33	23.34	23.30				
5	QPSK	1	12	23.36	23.43	23.30			25	0
5	QPSK	1	24	23.41	23.24	23.50				
5	QPSK	12	0	23.16	23.36	23.08				
5	QPSK	12	7	23.18	23.35	23.11			25	0
5	QPSK	12	13	23.07	23.16	23.16				
5	QPSK	25	0	23.13	23.17	23.14				
5	16QAM	1	0	23.07	23.35	23.13				
5	16QAM	1	12	23.07	23.31	23.24			25	0
5	16QAM	1	24	23.11	23.34	23.15				
5	16QAM	12	0	22.38	22.54	22.30				
5	16QAM	12	7	22.41	22.51	22.40			24	1
5	16QAM	12	13	22.16	22.18	22.38				
5	16QAM	25	0	22.33	22.37	22.43				
5	84QAM	1	0	22.41	22.47	22.22				
5	84QAM	1	12	22.16	22.18	22.21			24	1
5	84QAM	1	24	22.35	22.32	22.32				
5	84QAM	12	0	22.36	22.08	22.23				
5	84QAM	12	7	21.23	21.67	21.18			23	2
5	84QAM	12	13	21.14	21.48	21.23				
5	84QAM	25	0	21.45	21.61	21.52				
5	256QAM	1	0	19.31	19.51	19.28				
5	256QAM	1	12	19.61	19.41	19.28			21	4
5	256QAM	1	24	19.29	19.31	19.29				
5	256QAM	12	0	19.32	19.23	19.18				
5	256QAM	12	7	19.41	19.27	19.27			21	4
5	256QAM	12	13	19.32	19.50	19.17				
5	256QAM	25	0	19.39	19.44	19.45				
Channel										
1.4	QPSK	1	0	23.36	23.37	23.41				
1.4	QPSK	1	3	23.21	23.12	23.38			25	0
1.4	QPSK	1	6	23.30	23.30	23.19				
1.4	QPSK	3	0	23.24	23.31	23.22				
1.4	QPSK	3	1	23.35	23.18	23.27				
1.4	QPSK	3	4	23.31	23.21	23.25				
1.4	QPSK	6	0	23.35	23.29	23.36			25	0
1.4	16QAM	1	0	23.30	23.21	23.31				
1.4	16QAM	1	3	23.29	23.11	23.18				
1.4	16QAM	1	6	23.20	23.27	23.31			25	0
1.4	16QAM	3	0	23.35	23.13	23.16				
1.4	16QAM	3	1	23.35	23.13	23.16				
1.4	16QAM	3	3	23.28	23.20	23.18				
1.4	16QAM	6	0	23.31	23.21	23.12			24	1
1.4	84QAM	1	0	22.29	22.32	22.34				
1.4	84QAM	1	3	22.36	22.30	22.28				
1.4	84QAM	3	0	22.40	22.25	22.45			24	1
1.4	84QAM	3	1	22.35	22.25	22.40				
1.4	84QAM	6	0	21.45	21.50	21.38			23	2
1.4	256QAM	1	0	19.35	19.27	19.41				
1										



Reduced Power for Sensor on

GSM850_Ant1 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.62	30.87	30.91	32.00	21.62	21.97	21.91	23.00
GPRS 1 Tx slot	30.66	31.01	30.97	32.00	21.66	22.01	21.97	23.00
GPRS 2 Tx slots	28.54	28.86	28.82	30.00	22.54	22.86	22.82	24.00
GPRS 3 Tx slots	26.44	26.77	26.60	28.00	22.18	22.51	22.34	23.74
GPRS 4 Tx slots	24.09	24.32	24.38	25.50	21.09	21.32	21.38	22.50
EDGE 1 Tx slot	24.57	24.83	24.91	26.00	15.57	15.83	15.91	17.00
EDGE 2 Tx slots	21.07	21.45	21.43	22.50	15.07	15.45	15.43	16.50
EDGE 3 Tx slots	19.48	19.72	19.73	21.00	15.22	15.46	15.47	16.74
EDGE 4 Tx slots	18.41	18.75	18.57	20.00	15.41	15.75	15.57	17.00

Band TX Channel	WCDMA V_Ant1			Tune-up Limit (dBm)
	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	824.4	836.4	848.8	
3GPP Rel 99 AMR 12.2Kbps	21.70	21.76	21.88	22.50
3GPP Rel 99 BMC 12.2Kbps	21.71	21.78	21.70	22.50
3GPP Rel 6 HSDPA Subtest-1	20.90	20.81	20.72	21.50
3GPP Rel 6 HSDPA Subtest-2	20.80	20.72	20.67	21.50
3GPP Rel 6 HSDPA Subtest-3	20.29	20.38	20.10	21.00
3GPP Rel 6 HSDPA Subtest-4	20.39	20.31	20.27	21.00
3GPP Rel 6 DC-HSDPA Subtest-1	20.90	20.80	20.73	21.50
3GPP Rel 6 DC-HSDPA Subtest-2	20.73	20.81	20.76	21.50
3GPP Rel 6 DC-HSDPA Subtest-3	20.29	20.31	20.21	21.00
3GPP Rel 6 DC-HSDPA Subtest-4	20.26	20.23	20.08	21.00
3GPP Rel 6 HSUPA Subtest-1	20.75	20.75	20.77	21.50
3GPP Rel 6 HSUPA Subtest-2	18.73	18.77	18.70	19.50
3GPP Rel 6 HSUPA Subtest-3	19.76	19.79	19.61	20.50
3GPP Rel 6 HSUPA Subtest-4	18.76	18.98	18.87	19.50
3GPP Rel 6 HSUPA Subtest-5	20.85	20.74	20.69	21.50



GSM1900_Ant2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	861	810		512	861	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)								
GSM 1 Tx slot	21.06	21.09	21.02	22.50	12.08	12.09	12.02	13.50
GPRS 1 Tx slot	21.10	21.14	21.11	22.50	12.10	12.14	12.11	13.50
GPRS 2 Tx slots	19.18	19.19	19.06	20.00	13.18	13.19	13.06	14.00
GPRS 3 Tx slots	17.22	17.25	17.15	18.00	12.96	12.99	12.89	13.74
GPRS 4 Tx slots	15.53	15.64	15.52	16.50	12.53	12.64	12.52	13.50
EDGE 1 Tx slot	17.41	17.64	17.57	19.00	8.41	8.64	8.57	10.00
EDGE 2 Tx slots	14.65	14.85	14.76	16.50	8.65	8.85	8.76	10.50
EDGE 3 Tx slots	13.64	13.77	13.73	15.00	9.38	9.51	9.47	10.74
EDGE 4 Tx slots	12.81	12.94	12.77	14.50	9.81	9.94	9.77	11.50

Band	WCDMA II_Ant2			Tune-up Limit (dBm)	WCDMA IV_Ant2			Tune-up Limit (dBm)	
	9282	9400	9538		1312	1413	1513		
Rx Channel	9892	9990	9938		1537	1638	1738		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		
3GPP Rel 99	AMR 12.2kbps	13.38	13.43	13.36	14.50	13.38	13.52	13.31	14.50
3GPP Rel 99	RMC 12.2kbps	13.36	13.53	13.34	14.50	13.25	13.56	13.43	14.50
3GPP Rel 6	HSDPA Subtest-1	12.54	12.38	12.30	13.50	12.39	12.45	12.30	13.50
3GPP Rel 6	HSDPA Subtest-2	12.45	12.53	12.40	13.50	12.26	12.45	12.50	13.50
3GPP Rel 6	HSDPA Subtest-3	11.95	12.05	11.82	13.00	11.91	11.94	11.82	13.00
3GPP Rel 6	HSDPA Subtest-4	11.97	11.93	11.83	13.00	11.84	11.99	11.89	13.00
3GPP Rel 8	DC-HSDPA Subtest-1	12.29	12.60	12.26	13.50	12.20	12.49	12.38	13.50
3GPP Rel 8	DC-HSDPA Subtest-2	12.37	12.57	12.36	13.50	12.30	12.43	12.46	13.50
3GPP Rel 8	DC-HSDPA Subtest-3	12.05	11.95	11.68	13.00	11.78	12.13	12.03	13.00
3GPP Rel 8	DC-HSDPA Subtest-4	11.79	11.98	11.74	13.00	11.73	11.88	11.85	13.00
3GPP Rel 6	HSUPA Subtest-1	12.51	12.36	12.40	13.50	12.31	12.62	12.51	13.50
3GPP Rel 6	HSUPA Subtest-2	10.31	10.44	10.31	11.50	10.32	10.47	10.32	11.50
3GPP Rel 6	HSUPA Subtest-3	11.47	11.42	11.25	12.50	11.27	11.53	11.28	12.50
3GPP Rel 6	HSUPA Subtest-4	10.35	10.56	10.41	11.50	10.27	10.51	10.42	11.50
3GPP Rel 6	HSUPA Subtest-5	12.36	12.46	12.33	13.50	12.32	12.40	12.33	13.50



Band 42 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				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	14.55	14.63	14.60	15	0	
20	QPSK	1	49	14.38	14.49	14.48			
20	QPSK	1	99	14.52	14.46	14.52			
20	QPSK	50	0	14.57	14.58	14.50	15	0	
20	QPSK	50	24	14.44	14.40	14.36			
20	QPSK	50	50	14.51	14.49	14.51			
20	QPSK	100	0	14.45	14.49	14.46	15	0	
20	16QAM	1	0	14.49	14.43	14.47			
20	16QAM	1	49	14.35	14.50	14.41			
20	16QAM	1	99	14.61	14.47	14.47	15	0	
20	16QAM	50	0	14.53	14.50	14.47			
20	16QAM	50	24	14.26	14.21	14.37			
20	16QAM	50	50	14.48	14.49	14.44	15	0	
20	16QAM	100	0	14.37	14.34	14.37			
20	64QAM	1	0	14.59	14.61	14.61			
20	64QAM	1	49	14.39	14.52	14.45	15	0	
20	64QAM	1	99	14.51	14.42	14.50			
20	64QAM	50	0	14.48	14.51	14.41			
20	64QAM	50	24	14.26	14.38	14.28	15	0	
20	64QAM	50	50	14.36	14.45	14.44			
20	64QAM	100	0	14.37	14.55	14.36			
20	256QAM	1	0	14.57	14.43	14.37	15	0	
20	256QAM	1	49	14.37	14.45	14.38			
20	256QAM	1	99	14.50	14.44	14.59			
20	256QAM	50	0	14.49	14.49	14.46	15	0	
20	256QAM	50	24	14.21	14.37	14.20			
20	256QAM	50	50	14.38	14.49	14.31			
20	256QAM	100	0	14.32	14.44	14.34			
Channel				42185	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	14.43	14.56	14.53	15	0	
15	QPSK	1	37	14.24	14.36	14.35			
15	QPSK	1	74	14.38	14.43	14.48			
15	QPSK	36	0	14.51	14.57	14.45	15	0	
15	QPSK	36	20	14.36	14.32	14.23			
15	QPSK	36	39	14.48	14.36	14.40			
15	QPSK	75	0	14.35	14.42	14.44	15	0	
15	16QAM	1	0	14.44	14.28	14.44			
15	16QAM	1	37	14.20	14.46	14.33			
15	16QAM	1	74	14.48	14.34	14.36	15	0	
15	16QAM	36	0	14.40	14.37	14.42			
15	16QAM	36	20	14.15	14.05	14.34			
15	16QAM	36	39	14.37	14.37	14.29	15	0	
15	16QAM	75	0	14.35	14.21	14.36			
15	64QAM	1	0	14.55	14.47	14.54			
15	64QAM	1	37	14.36	14.43	14.32	15	0	
15	64QAM	1	74	14.39	14.37	14.39			
15	64QAM	36	0	14.37	14.38	14.36			
15	64QAM	36	20	14.20	14.35	14.20	15	0	
15	64QAM	36	39	14.21	14.31	14.36			
15	64QAM	75	0	14.34	14.41	14.20			
15	256QAM	1	0	14.46	14.38	14.22	15	0	
15	256QAM	1	37	14.34	14.42	14.29			
15	256QAM	1	74	14.41	14.31	14.48			
15	256QAM	36	0	14.42	14.43	14.31	15	0	
15	256QAM	36	20	14.06	14.32	14.04			
15	256QAM	36	39	14.29	14.40	14.18			
15	256QAM	75	0	14.24	14.39	14.19			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	14.45	14.58	14.53	15	0	
10	QPSK	1	25	14.35	14.48	14.39			
10	QPSK	1	49	14.41	14.33	14.43			
10	QPSK	25	0	14.57	14.48	14.43	15	0	
10	QPSK	25	12	14.33	14.36	14.23			
10	QPSK	25	25	14.43	14.35	14.44			
10	QPSK	50	0	14.40	14.45	14.42	15	0	
10	16QAM	1	0	14.33	14.35	14.36			
10	16QAM	1	25	14.24	14.49	14.29			
10	16QAM	1	49	14.58	14.35	14.44	15	0	
10	16QAM	25	0	14.38	14.49	14.46			
10	16QAM	25	12	14.19	14.09	14.26			
10	16QAM	25	25	14.44	14.45	14.31	15	0	
10	16QAM	50	0	14.29	14.22	14.24			
10	64QAM	1	0	14.47	14.59	14.56			
10	64QAM	1	25	14.33	14.43	14.37	15	0	
10	64QAM	1	49	14.46	14.39	14.35			
10	64QAM	25	0	14.42	14.38	14.41			
10	64QAM	25	12	14.18	14.27	14.17	15	0	
10	64QAM	25	25	14.31	14.33	14.33			
10	64QAM	50	0	14.33	14.51	14.30			
10	256QAM	1	0	14.55	14.33	14.26	15	0	
10	256QAM	1	25	14.27	14.31	14.36			
10	256QAM	1	49	14.47	14.36	14.44			
10	256QAM	25	0	14.37	14.33	14.46	15	0	
10	256QAM	25	12	14.13	14.23	14.16			
10	256QAM	25	25	14.33	14.45	14.22			
10	256QAM	50	0	14.16	14.32	14.31			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	14.55	14.60	14.58	15	0	
5	QPSK	1	12	14.28	14.42	14.42			
5	QPSK	1	24	14.44	14.43	14.46			
5	QPSK	12	0	14.45	14.43	14.48	15	0	
5	QPSK	12	7	14.43	14.33	14.20			
5	QPSK	12	13	14.44	14.38	14.47			
5	QPSK	25	0	14.38	14.38	14.47	15	0	
5	16QAM	1	0	14.33	14.37	14.39			
5	16QAM	1	12	14.28	14.34	14.27			
5	16QAM	1	24	14.50	14.36	14.39	15	0	
5	16QAM	12	0	14.37	14.43	14.37			
5	16QAM	12	7	14.11	14.15	14.32			
5	16QAM	12	13	14.46	14.48	14.34	15	0	
5	16QAM	25	0	14.21	14.20	14.32			
5	64QAM	1	0	14.59	14.51	14.50			
5	64QAM	1	12	14.31	14.51	14.39	15	0	
5	64QAM	1	24	14.41	14.31	14.39			
5	64QAM	12	0	14.37	14.44	14.27			
5	64QAM	12	7	14.19	14.25	14.20	15	0	
5	64QAM	12	13	14.28	14.38	14.37			
5	64QAM	25	0	14.32	14.44	14.28			
5	256QAM	1	0	14.46	14.29	14.32	15	0	
5	256QAM	1	12	14.29	14.29	14.33			
5	256QAM	1	24	14.34	14.36	14.54			
5	256QAM	12	0	14.49	14.33	14.38	15	0	
5	256QAM	12	7	14.12	14.33	14.19			
5	256QAM	12	13	14.32	14.34	14.22			
5	256QAM	25	0	14.29	14.36	14.31			



Band 2 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Tune-up (MHz)	MPR (dB)		
Channel										
20	QPSK	1	0	12.06	12.06	12.12				
20	QPSK	1	9	11.93	12.02	11.98	12.5	0		
20	QPSK	1	99	11.83	12.02	11.86				
20	QPSK	1	108	11.73	11.97	11.82				
20	QPSK	50	24	11.87	11.97	11.92	12.5	0		
20	QPSK	50	50	11.94	11.88	11.85				
20	QPSK	50	120	11.83	11.92	11.88				
20	HQAM	1	0	12.04	11.90	12.04				
20	HQAM	1	49	12.03	11.94	11.90	12.5	0		
20	HQAM	50	99	11.93	11.98	11.92				
20	HQAM	50	0	11.94	12.05	12.06				
20	HQAM	50	24	11.86	12.02	11.91	12.5	0		
20	HQAM	50	50	11.79	11.97	11.89				
20	HQAM	100	0	12.02	12.10	11.86				
20	HQAM	100	0	12.02	12.07	12.02				
20	HQAM	1	49	11.99	12.01	11.73	12.5	0		
20	HQAM	1	99	11.78	11.92	11.84				
20	HQAM	50	24	11.76	11.95	11.85	12.5	0		
20	HQAM	50	50	11.79	11.86	11.72				
20	HQAM	100	0	11.92	12.00	11.99				
20	HQAM	100	0	12.08	12.00	11.99	12.5	0		
20	HQAM	1	49	11.98	12.07	11.72				
20	HQAM	1	99	11.75	11.96	11.89				
20	HQAM	50	24	11.89	12.00	11.91	12.5	0		
20	HQAM	50	50	11.89	12.00	11.99				
20	HQAM	100	0	11.92	11.73	11.74	12.5	0		
20	HQAM	100	0	11.93	11.99	11.71				
Channel										
15	QPSK	1	0	12.07	12.06	12.15				
15	QPSK	1	9	11.97	12.03	11.98	12.5	0		
15	QPSK	1	74	11.97	11.93	11.88				
15	QPSK	36	0	11.98	12.16	12.00				
15	QPSK	36	0	11.78	12.03	11.87				
15	QPSK	36	39	11.85	11.84	11.58	12.5	0		
15	QPSK	75	0	12.03	11.96	11.91				
15	HQAM	1	0	12.01	11.92	11.85				
15	HQAM	1	37	11.93	12.08	11.89	12.5	0		
15	HQAM	1	74	11.93	12.06	11.85				
15	HQAM	36	0	11.92	11.96	12.02				
15	HQAM	36	20	11.90	11.96	11.82	12.5	0		
15	HQAM	75	0	11.91	12.08	11.84				
15	HQAM	1	0	11.89	12.15	11.91				
15	HQAM	1	37	11.85	11.87	11.81	12.5	0		
15	HQAM	1	74	11.85	11.87	11.81				
15	HQAM	36	0	11.85	12.04	11.95				
15	HQAM	36	39	11.72	11.88	11.68	12.5	0		
15	HQAM	75	0	11.99	11.97	11.89				
15	HQAM	75	0	12.12	12.12	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	11.85	12.04	11.95				
15	HQAM	36	39	11.72	11.88	11.68	12.5	0		
15	HQAM	75	0	11.99	11.97	11.89				
15	HQAM	75	0	12.12	12.12	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	11.85	12.04	11.95				
15	HQAM	36	39	11.72	11.88	11.68	12.5	0		
15	HQAM	75	0	11.99	11.97	11.89				
15	HQAM	75	0	12.12	12.12	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	11.85	12.04	11.95				
15	HQAM	36	39	11.72	11.88	11.68	12.5	0		
15	HQAM	75	0	11.99	11.97	11.89				
15	HQAM	75	0	12.12	12.12	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85	11.59	12.5	0		
15	HQAM	75	0	11.91	11.92	11.85				
15	HQAM	75	0	11.92	12.03	11.82	12.5	0		
15	HQAM	1	37	11.91	11.98	11.85				
15	HQAM	1	74	11.74	11.92	11.85	12.5	0		
15	HQAM	36	0	12.02	11.88	11.83				
15	HQAM	36	20	11.73	11.85					



Band 25 Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	12.17	12.19	12.15			
20	QPSK	1	49	12.03	12.08	11.96	12.5	0	
20	QPSK	1	99	12.02	12.07	12.00			
20	QPSK	60	0	12.03	12.03	12.03			
20	QPSK	60	24	11.91	12.03	12.00	12.5	0	
20	QPSK	60	50	11.98	11.98	11.98			
20	QPSK	100	0	12.03	12.03	12.03			
20	HQAM	1	0	12.16	12.14	12.13			
20	HQAM	1	49	12.03	12.08	11.96	12.5	0	
20	HQAM	1	99	12.02	12.06	11.91			
20	HQAM	60	0	12.03	12.03	12.03			
20	HQAM	60	24	11.90	12.02	11.96	12.5	0	
20	HQAM	60	50	11.91	11.96	11.96			
20	HQAM	100	0	12.03	12.03	11.92			
20	HQAM	1	49	11.99	12.11	11.87	12.5	0	
20	HQAM	1	99	11.98	12.01	11.91			
20	HQAM	60	0	11.96	11.94	11.81			
20	HQAM	60	24	11.84	12.01	11.85	12.5	0	
20	HQAM	60	50	11.83	11.89	11.82			
20	HQAM	100	0	12.02	11.98	11.83			
20	25SQAM	1	0	12.11	12.11	12.04	12.5	0	
20	25SQAM	1	49	12.03	12.08	11.86			
20	25SQAM	1	99	11.88	11.93	11.82			
20	25SQAM	60	0	12.01	12.02	12.04			
20	25SQAM	60	24	11.79	11.96	11.85	12.5	0	
20	25SQAM	60	50	11.83	11.87	11.87			
20	25SQAM	100	0	11.99	12.06	11.84			
Channel									
Frequency (MHz)									
15	QPSK	1	0	12.17	12.06	12.06			
15	QPSK	1	37	11.87	11.95	11.89	12.5	0	
15	QPSK	1	74	11.88	11.95	11.89			
15	QPSK	36	0	11.98	12.13	12.07			
15	QPSK	36	36	11.83	11.96	11.89	12.5	0	
15	QPSK	36	36	11.99	11.91	11.95			
15	QPSK	75	0	12.05	12.02	11.86			
15	HQAM	1	0	12.08	12.03	12.06			
15	HQAM	1	37	11.83	12.09	11.86	12.5	0	
15	HQAM	1	74	11.96	12.04	11.86			
15	HQAM	36	0	11.99	12.09	12.00			
15	HQAM	36	20	11.82	11.88	11.91	12.5	0	
15	HQAM	36	36	11.86	11.89	11.85			
15	HQAM	75	0	12.00	12.02	11.83			
15	HQAM	1	0	11.99	12.09	11.96			
15	HQAM	1	37	11.84	11.93	11.77	12.5	0	
15	HQAM	36	0	11.86	12.10	11.91			
15	HQAM	36	20	11.72	11.82	11.73	12.5	0	
15	HQAM	36	36	11.82	11.85	11.72			
15	HQAM	75	0	12.05	11.93	11.73			
15	25SQAM	1	0	12.07	12.08	11.86			
15	25SQAM	1	37	11.96	12.04	11.81	12.5	0	
15	25SQAM	36	0	11.97	11.99	11.83			
15	25SQAM	36	20	11.76	11.86	11.81	12.5	0	
15	25SQAM	36	36	11.87	11.95	11.83			
15	25SQAM	75	0	11.88	11.89	11.80			
Channel									
Frequency (MHz)									
10	QPSK	1	0	12.07	12.18	12.04			
10	QPSK	1	25	11.96	12.11	11.85	12.5	0	
10	QPSK	25	0	11.84	12.09	11.81			
10	QPSK	25	0	11.97	12.12	12.05			
10	QPSK	25	12	11.80	11.84	11.89	12.5	0	
10	QPSK	25	24	11.87	11.94	11.81			
10	QPSK	60	0	12.06	11.96	11.87			
10	HQAM	1	0	12.08	12.03	12.05			
10	HQAM	1	25	11.97	11.94	11.81	12.5	0	
10	HQAM	1	49	11.90	12.03	11.86			
10	HQAM	25	0	11.86	11.99	11.81			
10	HQAM	25	12	11.89	11.92	11.79	12.5	0	
10	HQAM	25	24	11.79	11.84	11.76			
10	HQAM	60	0	12.05	12.05	11.89			
10	HQAM	60	0	11.89	12.07	11.89			
10	HQAM	1	25	11.91	12.08	11.79	12.5	0	
10	HQAM	25	49	11.83	11.96	11.81			
10	HQAM	25	0	11.89	12.10	11.90			
10	HQAM	25	12	11.72	11.87	11.83	12.5	0	
10	HQAM	25	24	11.77	11.83	11.73			
10	HQAM	60	0	12.06	11.96	11.73			
10	25SQAM	1	0	12.11	12.10	11.81	12.5	0	
10	25SQAM	1	25	11.84	11.88	11.82			
10	25SQAM	25	0	12.11	12.02	12.03			
10	25SQAM	25	25	11.81	12.03	11.83	12.5	0	
10	25SQAM	60	0	11.86	11.96	11.85			
Channel									
Frequency (MHz)									
5	QPSK	1	0	12.07	12.09	12.02			
5	QPSK	1	12	11.92	12.14	11.87	12.5	0	
5	QPSK	1	24	11.96	11.89	11.86			
5	QPSK	12	0	11.86	12.06	11.89			
5	QPSK	12	7	11.80	11.96	12.01	12.5	0	
5	QPSK	12	13	11.86	11.91	11.85			
5	QPSK	25	0	11.88	11.96	11.89			
5	HQAM	1	0	12.03	12.05	12.11			
5	HQAM	1	12	11.98	11.97	11.86	12.5	0	
5	HQAM	1	24	11.96	12.01	11.82			
5	HQAM	12	0	11.93	12.06	11.98			
5	HQAM	12	7	11.87	11.94	11.86	12.5	0	
5	HQAM	12	13	11.79	11.81	11.82			
5	HQAM	25	0	12.03	12.09	11.82			
5	HQAM	25	0	11.87	12.06	11.84	12.5	0	
5	HQAM	1	12	11.95	11.97	11.79			
5	HQAM	1	24	11.91	11.94	11.88			
5	HQAM	12	0	11.96	12.13	11.87	12.5	0	
5	HQAM	12	7	11.82	11.91	11.77			
5	HQAM	12	13	11.72	11.80	11.76			
5	HQAM	25	0	11.96	11.99	11.71			
5	25SQAM	1	0	11.98	12.07	11.98	12.5	0	
5	25SQAM	1	12	11.96	12.09	11.81			
5	25SQAM	1	24	11.76	11.86	11.79			
5	25SQAM	12	0	11.91	11.96	11.84	12.5	0	
5	25SQAM	12	7	11.84	11.95	11.82			
5	25SQAM	12	13	11.79	11.89	11.87	12.5	0	
5	25SQAM	25	0	11.84	11.87	11.83			
Channel									
Frequency (MHz)									
3	QPSK	1	0	12.16	12.11	12.11			
3	QPSK	1	8	12.05	12.13	11.98	12.5	0	
3	QPSK	1	14	12.00	11.94	11.94			
3	QPSK	8	0	11.98	12.17	12.06			
3	QPSK	8	4	11.77	11.95	11.82	12.5	0	
3	QPSK	8	7	11.83	11.87	11.69			
3	QPSK	15	0	11.94	12.01	11.83			
3	HQAM	1	0	12.08	11.99	12.03			
3	HQAM	1	8	11.88	12.05	11.89	12.5	0	
3	HQAM	1	14	12.01	11.94	11.76			
3	HQAM	8	0	12.02	11.94	12.09			
3	HQAM	8	4	11.73	11.90	11.80	12.5	0	
3	HQAM	8	7	11.84	11.95	11.79			
3	HQAM	15	0	11.90	11.95	11.84			
3	HQAM	1	0	11.98	12.06	11.91			
3	HQAM	15	8	11.83	12.09	11.85	12.5	0	
3	HQAM	1	14	11.84	11.89	11.82			
3	HQAM	8	0	11.84	12.04	11.81			
3	HQAM	8	4	11.71	11.99	11.80	12.5	0	
3	HQAM	8	7	11.72	11.86	11.79			
3	HQAM	15	0	12.06	11.93	11.89			
3	25SQAM	1	0	12.07	12.09	11.81			
3	25SQAM	1	8	11.93	11.96	11.86	12.5	0	
3	25SQAM	8	0	11.86	11.94	11.77			
3	25SQAM	8	4	11.85	12.02	12.00			
3	25SQAM	8	7	11.81	11.92	11.85	12.5	0	
3	25SQAM	15	0	11.88	11.94	11.79			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	12.12	12.15	12.10			



Band 38 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	10.77	10.87	10.84	11.5	0		
20	QPSK	1	49	10.70	10.75	10.71				
20	QPSK	1	99	10.63	10.75	10.69				
20	QPSK	50	0	10.62	10.82	10.58	11.5	0		
20	QPSK	50	24	10.78	10.70	10.52				
20	QPSK	50	50	10.62	10.68	10.63				
20	QPSK	100	0	10.70	10.71	10.52	11.5	0		
20	16QAM	1	0	10.73	10.74	10.75				
20	16QAM	1	49	10.66	10.72	10.47				
20	16QAM	1	99	10.61	10.73	10.64	11.5	0		
20	16QAM	50	0	10.46	10.73	10.44				
20	16QAM	50	24	10.51	10.60	10.53				
20	16QAM	50	50	10.51	10.67	10.46	11.5	0		
20	16QAM	100	0	10.54	10.76	10.38				
20	64QAM	1	0	10.56	10.70	10.64				
20	64QAM	1	49	10.66	10.74	10.51	11.5	0		
20	64QAM	1	99	10.46	10.70	10.63				
20	64QAM	50	0	10.49	10.79	10.52				
20	64QAM	50	24	10.51	10.70	10.56	11.5	0		
20	64QAM	50	50	10.48	10.75	10.46				
20	64QAM	100	0	10.60	10.54	10.57				
20	256QAM	1	0	10.63	10.75	10.60	11.5	0		
20	256QAM	1	49	10.58	10.73	10.43				
20	256QAM	1	99	10.45	10.73	10.52				
20	256QAM	50	0	10.45	10.77	10.51	11.5	0		
20	256QAM	50	24	10.64	10.62	10.52				
20	256QAM	50	50	10.57	10.76	10.51				
20	256QAM	100	0	10.69	10.67	10.48				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	10.64	10.80	10.59	11.5	0		
15	QPSK	1	37	10.62	10.72	10.59				
15	QPSK	1	74	10.60	10.62	10.61				
15	QPSK	36	0	10.53	10.76	10.52	11.5	0		
15	QPSK	36	20	10.72	10.55	10.40				
15	QPSK	36	39	10.60	10.56	10.51				
15	QPSK	75	0	10.54	10.63	10.47	11.5	0		
15	16QAM	1	0	10.63	10.62	10.59				
15	16QAM	1	37	10.52	10.71	10.38				
15	16QAM	1	74	10.60	10.65	10.60	11.5	0		
15	16QAM	36	0	10.39	10.70	10.28				
15	16QAM	36	20	10.37	10.51	10.51				
15	16QAM	36	39	10.42	10.63	10.31	11.5	0		
15	16QAM	75	0	10.46	10.67	10.26				
15	16QAM	75	0	10.42	10.62	10.56				
15	64QAM	1	0	10.42	10.62	10.56	11.5	0		
15	64QAM	1	37	10.57	10.70	10.44				
15	64QAM	1	74	10.40	10.58	10.57				
15	64QAM	36	0	10.47	10.67	10.44	11.5	0		
15	64QAM	36	20	10.42	10.66	10.50				
15	64QAM	36	39	10.35	10.64	10.44				
15	64QAM	75	0	10.56	10.53	10.53	11.5	0		
15	256QAM	1	0	10.56	10.64	10.45				
15	256QAM	1	37	10.55	10.68	10.36				
15	256QAM	1	74	10.45	10.62	10.52	11.5	0		
15	256QAM	36	0	10.40	10.71	10.38				
15	256QAM	36	20	10.49	10.53	10.42				
15	256QAM	36	39	10.56	10.70	10.44	11.5	0		
15	256QAM	75	0	10.56	10.61	10.37				
15	256QAM	75	0	10.56	10.61	10.37				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	10.62	10.80	10.58	11.5	0		
10	QPSK	1	25	10.64	10.73	10.68				
10	QPSK	1	49	10.57	10.66	10.63				
10	QPSK	25	0	10.55	10.74	10.47	11.5	0		
10	QPSK	25	12	10.77	10.69	10.42				
10	QPSK	25	25	10.47	10.65	10.59				
10	QPSK	50	0	10.59	10.60	10.44	11.5	0		
10	16QAM	1	0	10.61	10.60	10.70				
10	16QAM	1	25	10.57	10.69	10.39				
10	16QAM	1	49	10.51	10.69	10.52	11.5	0		
10	16QAM	25	0	10.44	10.69	10.35				
10	16QAM	25	12	10.40	10.60	10.51				
10	16QAM	25	25	10.48	10.60	10.41	11.5	0		
10	16QAM	50	0	10.48	10.64	10.30				
10	16QAM	50	0	10.51	10.68	10.56				
10	64QAM	1	0	10.56	10.60	10.40	11.5	0		
10	64QAM	1	49	10.45	10.62	10.59				
10	64QAM	25	0	10.45	10.75	10.43				
10	64QAM	25	12	10.48	10.68	10.49	11.5	0		
10	64QAM	25	25	10.36	10.66	10.37				
10	64QAM	50	0	10.58	10.39	10.47				
10	256QAM	1	0	10.59	10.73	10.59	11.5	0		
10	256QAM	1	25	10.47	10.70	10.34				
10	256QAM	1	49	10.44	10.72	10.37				
10	256QAM	25	0	10.44	10.63	10.49	11.5	0		
10	256QAM	25	12	10.60	10.48	10.46				
10	256QAM	25	25	10.51	10.64	10.40				
10	256QAM	50	0	10.60	10.52	10.48				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	10.75	10.75	10.52	11.5	0		
5	QPSK	1	12	10.60	10.62	10.67				
5	QPSK	1	24	10.62	10.73	10.54				
5	QPSK	12	0	10.51	10.67	10.48	11.5	0		
5	QPSK	12	7	10.71	10.63	10.44				
5	QPSK	12	13	10.56	10.64	10.52				
5	QPSK	25	0	10.61	10.58	10.47	11.5	0		
5	16QAM	1	0	10.60	10.58	10.69				
5	16QAM	1	12	10.59	10.67	10.40				
5	16QAM	1	24	10.55	10.64	10.53	11.5	0		
5	16QAM	12	0	10.41	10.67	10.34				
5	16QAM	12	7	10.51	10.51	10.45				
5	16QAM	12	13	10.48	10.63	10.38	11.5	0		
5	16QAM	25	0	10.48	10.70	10.28				
5	64QAM	1	0	10.53	10.64	10.49				
5	64QAM	1	12	10.60	10.65	10.48	11.5	0		
5	64QAM	1	24	10.40	10.69	10.54				
5	64QAM	12	0	10.39	10.66	10.39				
5	64QAM	12	7	10.44	10.61	10.51	11.5	0		
5	64QAM	12	13	10.38	10.72	10.35				
5	64QAM	25	0	10.52	10.44	10.51				
5	256QAM	1	0	10.61	10.74	10.52	11.5	0		
5	256QAM	1	12	10.53	10.60	10.40				
5	256QAM	1	24	10.31	10.70	10.49				
5	256QAM	12	0	10.33	10.76	10.47	11.5	0		
5	256QAM	12	7	10.57	10.52	10.46				
5	256QAM	12	13	10.51	10.62	10.49				
5	256QAM	25	0	10.69	10.67	10.33				

Band 41 Ant2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	10.85	10.82	10.90	10.79	10.76	11.5	0		
20	QPSK	1	49	10.70	10.80	10.86	10.72	10.68				
20	QPSK	1	99	10.72	10.72	10.87	10.72	10.69				
20	QPSK	50	0	10.71	10.74	10.89	10.65	10.69	11.5	0		
20	QPSK	50	24	10.68	10.78	10.79	10.67	10.61				
20	QPSK	50	50	10.60	10.71	10.84	10.70	10.68				
20	QPSK	100	0	10.76	10.75	10.79	10.63	10.64	11.5	0		
20	16QAM	1	0	10.63	10.79	10.80	10.77	10.67				
20	16QAM	1	49	10.54	10.68	10.78	10.58	10.62				
20	16QAM	1	99	10.59	10.64	10.75	10.65	10.63	11.5	0		
20	16QAM	50	0	10.64	10.62	10.86						



Band 4 Ant6										
RV [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)		
Channel										
20	QPSK	1	0	13.82	13.78	13.74		14.5	0	
20	QPSK	1	49	13.87	13.78	13.72				
20	QPSK	1	99	13.72	13.78	13.72				
20	QPSK	50	24	13.76	13.78	13.82		14.5	0	
20	QPSK	50	50	13.66	13.72	13.78				
20	QPSK	50	76	13.76	13.78	13.82				
20	16QAM	1	0	13.75	13.78	13.71		14.5	0	
20	16QAM	1	49	13.67	13.78	13.78				
20	16QAM	1	99	13.68	13.77	13.68				
20	16QAM	50	24	13.74	13.77	13.79		14.5	0	
20	16QAM	50	50	13.66	13.79	13.67				
20	16QAM	50	76	13.72	13.78	13.81				
20	16QAM	100	0	13.65	13.81	13.68				
20	16QAM	100	49	13.67	13.82	13.75		14.5	0	
20	16QAM	100	99	13.78	13.74	13.68				
20	16QAM	50	0	13.72	13.78	13.75		14.5	0	
20	16QAM	50	24	13.72	13.84	13.75				
20	16QAM	50	50	13.78	13.83	13.80				
20	16QAM	100	0	13.77	13.84	13.71				
20	256QAM	1	0	13.84	13.78	13.71		14.5	0	
20	256QAM	1	49	13.80	13.78	13.72				
20	256QAM	1	99	13.77	13.81	13.75				
20	256QAM	50	24	13.82	13.78	13.82		14.5	0	
20	256QAM	50	50	13.78	13.71	13.72				
20	256QAM	100	0	13.85	13.82	13.87				
Channel										
15	QPSK	1	0	13.66	13.79	13.70		14.5	0	
15	QPSK	1	49	13.71	13.79	13.71				
15	QPSK	1	99	13.66	13.65	13.60				
15	QPSK	36	0	13.57	13.78	13.70		14.5	0	
15	QPSK	36	24	13.70	13.78	13.81				
15	QPSK	36	39	13.58	13.71	13.63				
15	QPSK	75	0	13.77	13.79	13.64		14.5	0	
15	16QAM	1	0	13.69	13.82	13.67				
15	16QAM	1	37	13.66	13.61	13.77		14.5	0	
15	16QAM	1	74	13.55	13.79	13.67				
15	16QAM	50	0	13.62	13.78	13.70				
15	16QAM	50	24	13.59	13.71	13.63		14.5	0	
15	16QAM	50	39	13.62	13.78	13.70				
15	16QAM	75	0	13.57	13.79	13.54				
15	16QAM	100	0	13.69	13.77	13.64		14.5	0	
15	16QAM	100	49	13.67	13.82	13.67				
15	16QAM	100	99	13.67	13.82	13.67				
15	16QAM	50	0	13.67	13.82	13.67		14.5	0	
15	16QAM	50	24	13.67	13.82	13.67				
15	16QAM	50	39	13.76	13.79	13.65				
15	16QAM	75	0	13.75	13.78	13.59		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0	13.64	13.65	13.65		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0	13.64	13.65	13.65		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0	13.64	13.65	13.65		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0	13.64	13.65	13.65		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0	13.64	13.65	13.65		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0	13.64	13.65	13.65		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0	13.64	13.65	13.65		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0	13.64	13.65	13.65		14.5	0	
15	16QAM	75	24	13.64	13.65	13.65				
15	16QAM	75	39	13.64	13.65	13.65				
15	16QAM	100	0	13.64	13.65	13.65		14.5	0	
15	16QAM	100	49	13.64	13.65	13.65				
15	16QAM	100	99	13.64	13.65	13.65				
15	16QAM	50	0	13.64	13.65	13.65		14.5	0	
15	16QAM	50	24	13.64	13.65	13.65				
15	16QAM	50	39	13.64	13.65	13.65				
15	16QAM	75	0</							



3CA DL

3CA List	PCC								SCC1				SCC2				Power				
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. Channel	(MHz)		RB	RB Offset		(MHz)	Freq. Channel	(MHz)	Channel		(MHz)	Channel	(dBm)	(dBm)			
CA_2A-4A-7A	Band 2	Ant2	20M	1890	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 7	20M	2655	3100	4x4MIMO	23.34	23.41
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1990	900		23.42	23.48
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1990	900		Band 4	20M	2132.5	2175		23.97	24.03
CA_2A-7A-7A	Band 2	Ant2	20M	1890	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.37	23.41
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1990	900		23.95	24.03
	Band 2	Ant2	20M	1890	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886		23.28	23.41
CA_2A-7A-66A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1990	900		Band 66	20M	2155	66886		23.96	24.03
	Band 2	Ant2	20M	1890	18900	QPSK	1	0		Band 2	20M	1990	900		Band 66	20M	2155	66886		23.36	23.53
	Band 66	Ant2	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.26	23.48
CA_4A-7C	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.84	24.03
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 4	20M	2132.5	2175		23.33	23.53
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 4	20M	2132.5	2175		23.89	24.03
CA_4A-7A-7A	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.86	23.94
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 4	20M	2132.5	2175		23.96	24.03
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.96	23.94
CA_5A-7C	Band 5	Ant1	10M	836.5	26525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		23.30	23.53
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		23.96	24.03
	Band 5	Ant1	10M	836.5	26525	QPSK	1	0		Band 66	20M	2155	66886		Band 66	5M	2107.5	67311		23.93	23.94
CA_5A-66A-66A	Band 66	Ant2	20M	1745	132322	QPSK	1	0		Band 66	5M	2107.5	67311		Band 5	10M	881.5	2525		23.30	23.53
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886		Band 66	5M	2107.5	67311		23.92	24.03
	Band 66	Ant2	20M	1745	132322	QPSK	1	0		Band 66	5M	2107.5	67311		Band 7	20M	2655	3100	4x4MIMO	23.44	23.53
CA_41D	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.8	41018	4x4MIMO	24.12	24.20
	CA_41A-41A-41A	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO	24.15



4CA DL

Configure	PCC									SCC1				SCC2				SCC3				Power				
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	LTE	BW	DL	DL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. Channel	(MHz)		RB	RB Offset	Configuration	Band	(MHz)	Freq. Channel	(MHz)	Configuration	Band	(MHz)	Freq. Channel	(MHz)	Configuration	Band	(MHz)	Freq. Channel	(MHz)	Configuration	Tx. Power (dBm)	Tx. Power (dBm)
CA_41C-41C	Band 41	Ant 2	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	24.03	24.20
CA_41E	Band 41	Ant 2	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 41	20M	2652.4	41214	4xMIMO	24.16	24.20
CA_41A-41D	Band 41	Ant 2	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2640.4	41094	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	23.98	24.20
CA_41A-41A-41C	Band 41	Ant 2	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	SM	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	24.13	24.20



Full Power

n5 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.42	23.50	23.36		
20	PI/2 BPSK	1	53	23.24	23.39	23.24	25.0	0.0
20	PI/2 BPSK	1	104	23.16	23.18	23.03		
20	PI/2 BPSK	50	0	23.29	23.37	23.29	25.0	0.0
20	PI/2 BPSK	50	28	23.25	23.29	23.26	25.0	0.0
20	PI/2 BPSK	50	56	23.17	23.22	23.13		
20	PI/2 BPSK	100	0	23.17	23.33	23.23	25.0	0.0
20	QPSK	1	1	23.43	23.54	23.40		
20	QPSK	1	53	23.33	23.48	23.44	25.0	0.0
20	QPSK	1	104	23.16	23.27	23.17		
20	QPSK	50	0	23.27	23.36	23.25	25.0	0.0
20	QPSK	50	28	23.24	23.39	23.34	25.0	0.0
20	QPSK	50	56	23.21	23.25	23.22		
20	QPSK	100	0	23.19	23.30	23.20	25.0	0.0
20	16QAM	1	1	23.40	23.51	23.48	25.0	0.0
20	64QAM	1	1	22.03	22.17	22.11	23.5	1.5
20	256QAM	1	1	20.00	20.08	19.94	21.5	3.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.30	23.43	23.35	25.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.39	23.45	23.29	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.33	23.42	23.37	25.0	0.0

n71 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.25	23.41	23.36		
20	PI/2 BPSK	1	53	23.29	23.32	23.21	25.0	0.0
20	PI/2 BPSK	1	104	23.20	23.35	23.21		
20	PI/2 BPSK	50	0	23.30	23.38	23.28	25.0	0.0
20	PI/2 BPSK	50	28	23.21	23.30	23.24	25.0	0.0
20	PI/2 BPSK	50	56	23.28	23.11	23.21		
20	PI/2 BPSK	100	0	23.31	23.34	23.31	25.0	0.0
20	QPSK	1	1	23.36	23.46	23.43		
20	QPSK	1	53	23.20	23.35	23.33	25.0	0.0
20	QPSK	1	104	23.13	23.28	23.19		
20	QPSK	50	0	23.21	23.31	23.16	25.0	0.0
20	QPSK	50	28	23.31	23.34	23.31	25.0	0.0
20	QPSK	50	56	23.14	23.28	23.19		
20	QPSK	100	0	23.27	23.37	23.24	25.0	0.0
20	16QAM	1	1	23.39	23.42	23.37	25.0	0.0
20	64QAM	1	1	22.05	22.10	22.06	23.5	1.5
20	256QAM	1	1	19.94	19.97	19.82	21.5	3.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.20	23.33	23.39	25.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.31	23.30	23.41	25.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.24	23.36	23.27	25.0	0.0



n7 Ant2 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.22	23.26	23.15		
40	PI/2 BPSK	1	108	23.36	23.38	23.34	25.0	0.0
40	PI/2 BPSK	1	214	23.25	23.34	23.29		
40	PI/2 BPSK	108	0	23.19	23.21	23.10	25.0	0.0
40	PI/2 BPSK	108	54	23.31	23.41	23.28	25.0	0.0
40	PI/2 BPSK	108	108	23.30	23.40	23.24		
40	PI/2 BPSK	216	0	23.20	23.36	23.29	25.0	0.0
40	QPSK	1	1	23.37	23.44	23.31		
40	QPSK	1	108	23.25	23.41	23.29	25.0	0.0
40	QPSK	1	214	23.20	23.35	23.27		
40	QPSK	108	0	23.20	23.32	23.18	25.0	0.0
40	QPSK	108	54	23.34	23.39	23.28	25.0	0.0
40	QPSK	108	108	23.32	23.36	23.22		
40	QPSK	216	0	23.28	23.30	23.16	25.0	0.0
40	16QAM	1	1	23.18	23.33	23.23	25.0	0.0
40	64QAM	1	1	21.75	21.91	21.82	23.5	1.5
40	256QAM	1	1	19.70	19.84	19.81	21.5	3.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.25	23.41	23.20	25.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.29	23.37	23.25	25.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.24	23.41	23.20	25.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.29	23.35	23.18	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.24	23.33	23.27	25.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.30	23.41	23.24	25.0	0.0

n66 Ant2 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.73	23.83	23.80		
40	PI/2 BPSK	1	108	23.74	23.77	23.61	25.0	0.0
40	PI/2 BPSK	1	214	23.74	23.84	23.71		
40	PI/2 BPSK	108	0	23.61	23.75	23.72	25.0	0.0
40	PI/2 BPSK	108	54	23.70	23.74	23.67	25.0	0.0
40	PI/2 BPSK	108	108	23.70	23.86	23.79		
40	PI/2 BPSK	216	0	23.62	23.78	23.75	25.0	0.0
40	QPSK	1	1	23.76	23.91	23.86		
40	QPSK	1	108	23.57	23.74	23.70	25.0	0.0
40	QPSK	1	214	23.75	23.81	23.75		
40	QPSK	108	0	23.64	23.75	23.59	25.0	0.0
40	QPSK	108	54	23.66	23.83	23.68	25.0	0.0
40	QPSK	108	108	23.73	23.79	23.71		
40	QPSK	216	0	23.71	23.84	23.69	25.0	0.0
40	16QAM	1	1	23.71	23.87	23.70	25.0	0.0
40	64QAM	1	1	22.39	22.44	22.42	23.5	1.5
40	256QAM	1	1	20.27	20.40	20.32	21.5	3.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.58	23.78	23.57	25.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.69	23.78	23.59	25.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.59	23.81	23.57	25.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.51	23.79	23.63	25.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.57	23.77	23.65	25.0	0.0



n38 Ant2 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				51804	51800	51998		
40	PI2 BPSK	1	1	23.26	23.36	23.27		
40	PI2 BPSK	1	53	23.29	23.33	23.19	25.0	0.0
40	PI2 BPSK	1	104	23.21	23.29	23.12		
40	PI2 BPSK	50	0	23.22	23.31	23.28	25.0	0.0
40	PI2 BPSK	50	28	23.28	23.29	23.26	25.0	0.0
40	PI2 BPSK	50	58	23.22	23.25	23.10	25.0	0.0
40	PI2 BPSK	100	0	23.32	23.35	23.31		
40	QPSK	1	1	23.34	23.38	23.24		
40	QPSK	1	53	23.22	23.35	23.25	25.0	0.0
40	QPSK	1	104	23.28	23.32	23.17		
40	QPSK	50	0	23.26	23.30	23.20	25.0	0.0
40	QPSK	50	28	23.18	23.35	23.32	25.0	0.0
40	QPSK	50	58	23.16	23.28	23.18	25.0	0.0
40	QPSK	100	0	23.25	23.31	23.22		
40	16QAM	1	1	23.31	23.36	23.29	25.0	0.0
40	16QAM	1	1	21.91	21.98	21.84	23.5	1.5
40	256QAM	1	1	19.87	20.01	19.89	21.5	3.5
Channel				51702	51800	52000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2595.01	2595	2604.99		
30	QPSK	1	1	23.24	23.28	23.18	25.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2280	2295	2310		
20	QPSK	1	1	23.28	23.31	23.08	25.0	0.0

n41 PC3 Ant2 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.36	23.41	23.25		
100	PI2 BPSK	1	137	23.31	23.34	23.17	25.0	0.0
100	PI2 BPSK	1	271	23.23	23.31	23.25		
100	PI2 BPSK	135	0	23.30	23.37	23.34	25.0	0.0
100	PI2 BPSK	135	69	23.35	23.40	23.24	25.0	0.0
100	PI2 BPSK	135	138	23.29	23.32	23.29	25.0	0.0
100	PI2 BPSK	270	0	23.28	23.38	23.23		
100	QPSK	1	1	23.44	23.46	23.34		
100	QPSK	1	137	23.28	23.40	23.34	25.0	0.0
100	QPSK	1	271	23.23	23.31	23.14		
100	QPSK	135	0	23.31	23.40	23.19	25.0	0.0
100	QPSK	135	69	23.33	23.44	23.39	25.0	0.0
100	QPSK	135	138	23.18	23.30	23.21	25.0	0.0
100	QPSK	270	0	23.32	23.38	23.26		
100	16QAM	1	1	23.22	23.35	23.29	25.0	0.0
100	16QAM	1	1	21.84	22.00	21.96	23.5	1.5
100	256QAM	1	1	19.96	19.99	19.90	21.5	3.5
Channel				505200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.41	23.42	23.27	25.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.38	23.30	23.25	25.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2592.99	2659.98		
60	QPSK	1	1	23.30	23.32	23.18	25.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	23.33	23.40	23.31	25.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.39	23.36	23.21	25.0	0.0
Channel				502210	518598	535098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.36	23.38	23.29	25.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.02	2592.99	2679.99		
20	QPSK	1	1	23.28	23.32	23.30	25.0	0.0

n41 PC2 Ant2 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	24.01	24.09	24.11		
100	PI2 BPSK	1	137	24.14	24.33	24.12	26.0	0.0
100	PI2 BPSK	1	271	24.14	24.26	24.18		
100	PI2 BPSK	135	0	24.23	24.24	24.17	26.0	0.0
100	PI2 BPSK	135	69	24.21	24.36	24.26	26.0	0.0
100	PI2 BPSK	135	138	24.16	24.36	24.13	26.0	0.0
100	PI2 BPSK	270	0	24.15	24.33	24.25		
100	QPSK	1	1	24.27	24.45	24.38		
100	QPSK	1	137	24.19	24.41	24.21	26.0	0.0
100	QPSK	1	271	24.20	24.01	24.14		
100	QPSK	135	0	24.14	24.17	24.19	26.0	0.0
100	QPSK	135	69	24.24	24.26	24.11	26.0	0.0
100	QPSK	135	138	24.11	24.15	24.03	26.0	0.0
100	QPSK	270	0	24.01	24.10	24.09		
100	16QAM	1	1	24.19	24.20	24.17	26.0	0.0
100	16QAM	1	1	24.19	24.29	24.11	26.0	0.0
100	256QAM	1	1	22.55	22.55	22.81	24.5	1.5
Channel				505200	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.18	24.37	24.36	26.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.17	24.37	24.29	26.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2592.99	2659.98		
60	QPSK	1	1	24.09	24.28	24.28	26.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	24.20	24.42	24.29	26.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.19	24.25	24.34	26.0	0.0
Channel				502210	518598	535098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.22	24.38	24.25	26.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.02	2592.99	2679.99		
20	QPSK	1	1	24.08	24.36	24.25	26.0	0.0



Part270 n77 PC3 Ant3 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 650000	Power Middle Ch. F.Freq. 650000	Power High Ch. F.Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI/2 BPSK	1	1	22.06	22.21	22.11	24.0	0.0	
100	PI/2 BPSK	1	137	22.30	22.34	22.35			
100	PI/2 BPSK	1	271	22.12	22.28	22.22			
100	PI/2 BPSK	135	0	22.09	22.20	22.17	24.0	0.0	
100	PI/2 BPSK	135	69	22.19	22.28	22.17	24.0	0.0	
100	PI/2 BPSK	135	138	22.19	22.27	22.23	24.0	0.0	
100	PI/2 BPSK	270	0	22.21	22.25	22.14	24.0	0.0	
100	QPSK	1	1	22.32	22.38	22.23			
100	QPSK	1	137	22.25	22.32	22.26	24.0	0.0	
100	QPSK	1	271	22.23	22.39	22.26			
100	QPSK	135	0	22.08	22.21	22.17	24.0	0.0	
100	QPSK	135	69	22.25	22.30	22.18	24.0	0.0	
100	QPSK	135	138	22.07	22.24	22.20	24.0	0.0	
100	QPSK	270	0	22.14	22.27	22.25	24.0	0.0	
100	16QAM	1	1	22.11	22.20	22.17	24.0	0.0	
100	64QAM	1	1	20.82	20.89	20.85	22.5	1.5	
100	256QAM	1	1	18.64	18.71	18.55	20.5	3.5	
Channel				649968	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.27	22.24	22.14	24.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.24	22.27	22.15	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.28	22.33	22.15	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.22	22.28	22.13	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.00			
50	QPSK	1	1	22.17	22.26	22.07	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.28	22.30	22.15	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.23	22.23	22.15	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.29	22.21	22.08	24.0	0.0	

Part270 n77 PC2 Ant3 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 650000	Power Middle Ch. F.Freq. 650000	Power High Ch. F.Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI/2 BPSK	1	1	25.31	25.39	25.27	27.0	0.0	
100	PI/2 BPSK	1	137	25.17	25.33	25.31			
100	PI/2 BPSK	1	271	25.30	25.37	25.22			
100	PI/2 BPSK	135	0	24.61	24.72	24.64	26.5	0.5	
100	PI/2 BPSK	135	69	25.27	25.37	25.26	27.0	0.0	
100	PI/2 BPSK	135	138	24.69	24.85	24.79	26.5	0.5	
100	PI/2 BPSK	270	0	24.55	24.71	24.58	26.0	1.0	
100	QPSK	1	1	25.36	25.42	25.29			
100	QPSK	1	137	25.25	25.38	25.26	27.0	0.0	
100	QPSK	1	271	25.29	25.31	25.16			
100	QPSK	135	0	24.15	24.29	24.13	26.0	1.0	
100	QPSK	135	69	25.13	25.28	25.14	27.0	0.0	
100	QPSK	135	138	24.18	24.34	24.21	26.0	1.0	
100	QPSK	270	0	24.21	24.26	24.22	26.0	1.0	
100	16QAM	1	1	24.50	24.53	24.19	26.0	1.0	
100	64QAM	1	1	22.90	22.95	22.91	24.5	2.5	
100	256QAM	1	1	20.74	20.88	20.77	22.5	4.5	
Channel				649968	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.31	25.30	25.12	27.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.34	25.29	25.17	27.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	25.25	25.29	25.16	27.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.28	25.29	25.21	27.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.00			
50	QPSK	1	1	25.33	25.38	25.28	27.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.22	25.29	25.16	27.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.28	25.31	25.21	27.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.23	25.35	25.14	27.0	0.0	



Part96 n77 PC2&3 Ant3 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 640000	Power Middle Ch. / Freq. 641666	Power High Ch. / Freq. 643332	MPR (dB)
Channel				3600	3624.99	3649.98	
Frequency (MHz)				19.28	19.30	19.19	
100	PI/2 BPSK	1	1	19.15	19.32	19.11	
100	PI/2 BPSK	1	137	19.22	19.33	19.11	20.0
100	PI/2 BPSK	135	0	19.16	19.27	19.10	20.0
100	PI/2 BPSK	135	69	19.11	19.16	19.31	20.0
100	PI/2 BPSK	135	138	19.19	19.30	19.22	20.0
100	PI/2 BPSK	270	0	19.32	19.20	19.27	20.0
100	QPSK	1	1	19.98	19.36	19.30	
100	QPSK	1	137	19.20	19.31	19.03	20.0
100	QPSK	1	271	19.16	19.23	19.21	
100	QPSK	135	0	19.17	19.31	19.15	20.0
100	QPSK	135	69	19.31	19.36	19.05	20.0
100	QPSK	135	138	19.30	19.31	19.15	20.0
100	QPSK	270	0	19.03	19.30	19.20	20.0
100	16QAM	1	1	19.13	19.32	19.34	20.0
100	64QAM	1	1	19.28	19.30	19.12	20.0
100	256QAM	1	1	19.86	19.28	19.30	20.0
Channel				639998	641666	643666	
Frequency (MHz)				3595.92	3624.99	3654.99	
90	QPSK	1	1	19.20	19.32	19.07	20.0
Channel				639334	641666	644000	
Frequency (MHz)				3593.01	3624.99	3650	
80	QPSK	1	1	19.11	19.17	19.21	20.0
Channel				639000	641666	644332	
Frequency (MHz)				3585	3624.99	3664.98	
70	QPSK	1	1	19.15	19.15	19.00	20.0
Channel				638668	641666	644666	
Frequency (MHz)				3580.02	3624.99	3669.99	
60	QPSK	1	1	19.18	19.21	19.01	20.0
Channel				638334	641666	645000	
Frequency (MHz)				3575.01	3624.99	3675	
50	QPSK	1	1	19.19	19.27	19.14	20.0
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.99	
40	QPSK	1	1	19.10	19.11	19.08	20.0
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.99	
30	QPSK	1	1	19.09	19.20	19.06	20.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3680	
20	QPSK	1	1	19.16	19.32	19.11	20.0

Part27Q n77 PC3 Ant3 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 636668	MPR (dB)
Channel				3500.01			
Frequency (MHz)				22.50			
100	PI/2 BPSK	1	1	22.46			
100	PI/2 BPSK	1	137	22.40			24.0
100	PI/2 BPSK	1	271	22.40			24.0
100	PI/2 BPSK	135	0	22.52			24.0
100	PI/2 BPSK	135	69	22.44			24.0
100	PI/2 BPSK	135	138	22.38			24.0
100	PI/2 BPSK	270	0	22.42			24.0
100	QPSK	1	1	22.53			
100	QPSK	1	137	22.33			24.0
100	QPSK	1	271	22.38			24.0
100	QPSK	135	0	22.32			24.0
100	QPSK	135	69	22.44			24.0
100	QPSK	135	138	22.38			24.0
100	QPSK	270	0	22.45			24.0
100	16QAM	1	1	22.52			24.0
100	64QAM	1	1	21.29			22.5
100	256QAM	1	1	19.23			20.5
Channel				633000	633334	633668	
Frequency (MHz)				3495	3500.01	3505.02	
90	QPSK	1	1	22.37	22.49	22.38	24.0
Channel				632668	633334	634000	
Frequency (MHz)				3490.02	3500.01	3510	
80	QPSK	1	1	22.45	22.43	22.49	24.0
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	1	22.35	22.33	22.48	24.0
Channel				631998	633334	635000	
Frequency (MHz)				3480.02	3500.01	3520.02	
60	QPSK	1	1	22.36	22.42	22.42	24.0
Channel				631668	633334	635668	
Frequency (MHz)				3475.01	3500.01	3530.01	
50	QPSK	1	1	22.39	22.49	22.46	24.0
Channel				631334	633334	636334	
Frequency (MHz)				3470.01	3500.01	3535.01	
40	QPSK	1	1	22.43	22.45	22.47	24.0
Channel				631000	633334	636998	
Frequency (MHz)				3465	3500.01	3540.02	
30	QPSK	1	1	22.47	22.46	22.38	24.0
Channel				630668	633334	637668	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	1	22.45	22.36	22.39	24.0



Part27Q n77 PC2 Ant3 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.37	25.37				
100	PI2 BPSK	1	137	25.40	25.40		27.0	0.0	
100	PI2 BPSK	1	271	25.42	25.42				24.0
100	PI2 BPSK	135	0	24.94	24.94		26.5	0.5	
100	PI2 BPSK	135	69	25.39	25.39		27.0	0.0	
100	PI2 BPSK	135	138	24.98	24.98		26.5	0.5	
100	PI2 BPSK	270	0	24.92	24.92				24.0
100	QPSK	1	1	25.58	25.58				
100	QPSK	1	137	25.38	25.38		27.0	0.0	
100	QPSK	1	271	25.43	25.43				24.0
100	QPSK	135	0	24.54	24.54		26.0	1.0	
100	QPSK	135	69	25.50	25.50		27.0	0.0	
100	QPSK	135	138	24.40	24.40		26.0	1.0	
100	QPSK	270	0	24.38	24.38		26.0	1.0	
100	16QAM	1	1	24.42	24.42		26.0	1.0	
100	64QAM	1	1	23.38	23.38		24.5	2.5	
100	256QAM	1	1	21.18	21.18		22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.52	25.45	25.42	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.41	25.44	25.48	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.51	25.46	25.44	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.48	25.52	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.42	25.53	25.45	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.47	25.53	25.54	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.50	25.49	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.43	25.48	25.52	27.0	0.0	

Part27O n78 PC3 Ant3 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.17	22.17				
100	PI2 BPSK	1	137	22.10	22.10		24.0	0.0	
100	PI2 BPSK	1	271	22.12	22.12				24.0
100	PI2 BPSK	135	0	22.10	22.10		24.0	0.0	
100	PI2 BPSK	135	69	22.08	22.08		24.0	0.0	
100	PI2 BPSK	135	138	22.05	22.05		24.0	0.0	
100	PI2 BPSK	270	0	22.12	22.12				24.0
100	QPSK	1	1	22.18	22.18				
100	QPSK	1	137	22.08	22.08		24.0	0.0	
100	QPSK	1	271	22.11	22.11				24.0
100	QPSK	135	0	22.09	22.09		24.0	0.0	
100	QPSK	135	69	22.13	22.13		24.0	0.0	
100	QPSK	135	138	22.12	22.12		24.0	0.0	
100	QPSK	270	0	22.10	22.10		24.0	0.0	
100	16QAM	1	1	22.05	22.05		24.0	0.0	
100	64QAM	1	1	20.98	20.98		22.5	1.5	
100	256QAM	1	1	18.81	18.81		20.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.15	22.04	22.08	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.02	21.15	22.12	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.10	22.05	22.12	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.02	22.11	22.09	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.05	22.15	22.04	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.10	22.11	22.14	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.12	22.18	22.10	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.12	22.02	22.07	24.0	0.0	



Part270 n78 PC2 Ant3 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		25.17				
100	PI2 BPSK	1	137		25.13				
100	PI2 BPSK	1	271		25.10		27.0	0.0	
100	PI2 BPSK	135	0		24.99		28.5	0.5	
100	PI2 BPSK	135	69		25.14		27.0	0.0	
100	PI2 BPSK	135	138		24.91		28.5	0.5	
100	PI2 BPSK	270	0		24.57				
100	QPSK	1	1		25.20				
100	QPSK	1	137		25.13		27.0	0.0	
100	QPSK	1	271		25.11				
100	QPSK	135	0		24.12		28.0	1.0	
100	QPSK	135	69		25.18		27.0	0.0	
100	QPSK	135	138		24.08		28.0	1.0	
100	QPSK	270	0		24.04				
100	16QAM	1	1		24.14		28.0	1.0	
100	64QAM	1	1		22.89		24.5	2.5	
100	256QAM	1	1		20.69		22.5	4.5	
Channel				659668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.92	3750	3755.01			
90	QPSK	1	1		25.05	25.09	25.08	27.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.10	25.08	25.03	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		25.12	25.05	25.12	27.0	0.0
Channel				649668	650000	649334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		25.18	25.14	25.13	27.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.07	25.16	25.16	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		25.15	25.17	25.16	27.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		25.13	25.11	25.12	27.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		25.18	25.15	25.13	27.0	0.0

Part27Q n78 PC3 Ant3 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 634000	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)									
100	PI2 BPSK	1	1		22.45				
100	PI2 BPSK	1	137		22.48				
100	PI2 BPSK	1	271		22.13		24.0	0.0	
100	PI2 BPSK	135	0		22.25		24.0	0.0	
100	PI2 BPSK	135	69		22.38		24.0	0.0	
100	PI2 BPSK	135	138		22.11		24.0	0.0	
100	PI2 BPSK	270	0		22.25				
100	QPSK	1	1		22.51				
100	QPSK	1	137		22.22		24.0	0.0	
100	QPSK	1	271		22.15				
100	QPSK	135	0		22.24		24.0	0.0	
100	QPSK	135	69		22.48		24.0	0.0	
100	QPSK	135	138		22.18		24.0	0.0	
100	QPSK	270	0		22.48				
100	16QAM	1	1		22.29		24.0	0.0	
100	64QAM	1	1		21.17		22.5	1.5	
100	256QAM	1	1		19.06		20.5	3.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		22.24	22.11	22.26	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		22.22	22.11	22.21	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		22.20	22.22	22.20	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		22.13	22.13	22.23	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505			
50	QPSK	1	1		22.26	22.11	22.26	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		22.27	22.23	22.32	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		22.11	22.17	22.33	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		22.18	22.19	22.19	24.0	0.0



Part96 n78 PC2&3 Ant3 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 640000	Power Middle Ch. / Freq. 641666	Power High Ch. / Freq. 643332	MPR (dB)
Channel				3600	3624.99	3649.98	
Frequency (MHz)				19.25	19.16	19.04	
100	PI/2 BPSK	1	1	19.25	19.16	19.04	
100	PI/2 BPSK	1	137	19.17	19.13	19.06	
100	PI/2 BPSK	1	271	19.17	19.26	19.01	20.0
100	PI/2 BPSK	135	0	19.13	19.20	19.02	20.0
100	PI/2 BPSK	135	69	19.06	19.15	19.27	20.0
100	PI/2 BPSK	135	138	19.09	19.18	19.12	20.0
100	PI/2 BPSK	270	0	19.28	19.08	19.14	20.0
100	QPSK	1	1	19.92	19.92	19.31	
100	QPSK	1	137	19.02	19.12	19.08	20.0
100	QPSK	1	271	19.10	19.16	19.05	
100	QPSK	135	0	19.03	19.19	19.02	20.0
100	QPSK	135	69	19.25	19.27	19.91	20.0
100	QPSK	135	138	19.24	19.22	19.07	20.0
100	QPSK	270	0	19.82	19.11	19.99	20.0
100	16QAM	1	1	19.97	19.17	19.18	20.0
100	16QAM	1	1	19.19	19.22	19.06	20.0
100	256QAM	1	1	19.81	19.21	19.20	20.0
Channel				639968	641666	643334	
Frequency (MHz)				3295.92	3624.99	3755.01	
90	QPSK	1	1	19.22	19.16	19.19	20.0
Channel				639334	641666	643000	
Frequency (MHz)				3293.01	3624.99	3750.0	
80	QPSK	1	1	19.24	19.31	19.04	20.0
Channel				639000	641666	643332	
Frequency (MHz)				3285	3624.99	3664.98	
70	QPSK	1	1	19.13	19.18	19.14	20.0
Channel				638668	641666	643000	
Frequency (MHz)				3280.02	3624.99	3669.99	
60	QPSK	1	1	19.19	19.12	19.16	20.0
Channel				638334	641666	643000	
Frequency (MHz)				3275.01	3624.99	3675	
50	QPSK	1	1	19.10	19.11	19.06	20.0
Channel				638000	641666	643332	
Frequency (MHz)				3270	3624.99	3679.99	
40	QPSK	1	1	19.14	19.09	19.08	20.0
Channel				637668	641666	643668	
Frequency (MHz)				3265.02	3624.99	3684.99	
30	QPSK	1	1	19.29	19.18	19.03	20.0
Channel				637334	641666	643000	
Frequency (MHz)				3260.01	3624.99	3690	
20	QPSK	1	1	19.17	19.12	19.02	20.0

Part27Q n78 PC2 Ant3 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				3500.01			
Frequency (MHz)				25.47			
100	PI/2 BPSK	1	1	25.47			
100	PI/2 BPSK	1	137	25.21			27.0
100	PI/2 BPSK	1	271	25.21			26.5
100	PI/2 BPSK	135	0	24.87			26.5
100	PI/2 BPSK	135	69	25.40			27.0
100	PI/2 BPSK	135	138	24.84			26.5
100	PI/2 BPSK	270	0	24.76			26.5
100	QPSK	1	1	25.98			27.0
100	QPSK	1	137	25.32			27.0
100	QPSK	1	271	25.21			26.0
100	QPSK	135	0	24.47			26.0
100	QPSK	135	69	25.38			26.0
100	QPSK	135	138	24.26			26.0
100	QPSK	270	0	24.30			26.0
100	16QAM	1	1	24.41			24.5
100	16QAM	1	1	23.12			22.5
100	256QAM	1	1	21.07			22.5
Channel				633000	633334	633668	
Frequency (MHz)				3495	3500.01	3505.02	
90	QPSK	1	1	25.44	25.47	25.46	27.0
Channel				632668	633334	634000	
Frequency (MHz)				3490.02	3500.01	3510	
80	QPSK	1	1	25.41	25.49	25.42	27.0
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	1	25.50	25.44	25.39	27.0
Channel				631968	633334	635000	
Frequency (MHz)				3480.02	3500.01	3520.02	
60	QPSK	1	1	25.46	25.41	25.39	27.0
Channel				631600	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	1	25.38	25.35	25.32	27.0
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	1	25.45	25.49	25.39	27.0
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	1	25.41	25.43	25.28	27.0
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	1	25.30	25.39	25.46	27.0



n41 PC3 Ant4 Default									
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Tune-up (km)	MPI (dB)	
Channel									
Frequency (MHz)									
100	PI2BPSK	1	1	2143	2143	2143			
100	PI2BPSK	1	137	2147	2150	2142	23.0	0.0	
100	PI2BPSK	1	271	2146	2146	2146			
100	PI2BPSK	136	0	2138	2154	2132	23.0	0.0	
100	PI2BPSK	136	49	2153	2160	2150	23.0	0.0	
100	PI2BPSK	136	138	2130	2141	2134	23.0	0.0	
100	PI2BPSK	270	0	2141	2151	2151			
100	QPSK	1	1	2136	2136	2136			
100	QPSK	1	137	2138	2151	2131	23.0	0.0	
100	QPSK	136	0	2138	2151	2140	23.0	0.0	
100	QPSK	136	49	2152	2158	2141	23.0	0.0	
100	QPSK	136	138	2146	2146	2146	23.0	0.0	
100	QPSK	270	0	2138	2154	2140	23.0	0.0	
100	16QAM	1	1	2151	2152	2149	23.0	0.0	
100	16QAM	136	1	2115	2111	2109	23.0	0.0	
100	256QAM	1	1	2128	2140	2136	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	2136	2162	2149	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2143	2143	2143	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2149	2149	2149	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	2138	2152	2143	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2147	2161	2149	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2143	2162	2143	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2146	2161	2156	23.0	0.0	

Part270 n77 PC2 PC3 Ant4 Default									
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Tune-up (km)	MPI (dB)	
Channel									
Frequency (MHz)									
100	PI2BPSK	1	1	1441	1450	1443			
100	PI2BPSK	1	137	1442	1451	1435	15.0	0.0	
100	PI2BPSK	1	271	1441	1441	1441			
100	PI2BPSK	136	0	1435	1451	1433	15.0	0.0	
100	PI2BPSK	136	49	1446	1450	1449	15.0	0.0	
100	PI2BPSK	136	138	1441	1443	1440	15.0	0.0	
100	PI2BPSK	270	0	1453	1457	1441			
100	QPSK	1	1	1436	1436	1436			
100	QPSK	1	137	1437	1454	1430	15.0	0.0	
100	QPSK	136	0	1438	1451	1440	15.0	0.0	
100	QPSK	136	49	1449	1451	1448	15.0	0.0	
100	QPSK	136	138	1446	1446	1446	15.0	0.0	
100	QPSK	270	0	1453	1457	1441	15.0	0.0	
100	16QAM	1	1	1439	1440	1436	15.0	0.0	
100	16QAM	136	1	1433	1431	1430	15.0	0.0	
100	256QAM	1	1	1453	1453	1437	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	1432	1454	1435	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	1441	1443	1440	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	1443	1443	1443	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	1438	1451	1444	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	1434	1441	1437	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	1439	1450	1439	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	1443	1450	1436	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	1441	1443	1443	15.0	0.0	



Part96 n77 PC3 Ant4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Power (dBm)	MPG (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	15.15	15.22	15.31			
100	PL2 BPSK	1	137	15.09	15.35	15.30	18.0	0.0	
100	PL2 BPSK	1	271	15.10	15.11	15.08			
100	PL2 BPSK	155	9	15.22	15.25	15.04	18.0	0.0	
100	PL2 BPSK	155	99	15.37	15.21	15.59	18.0	0.0	
100	PL2 BPSK	155	158	15.16	15.21	15.23			
100	PL2 BPSK	270	0	15.22	15.26	15.30	18.0	0.0	
100	QPSK	1	1	15.24	15.24	15.24			
100	QPSK	1	137	15.37	15.35	15.25	18.0	0.0	
100	QPSK	1	271	15.21	15.37	15.52			
100	QPSK	155	9	15.16	15.22	15.17	18.0	0.0	
100	QPSK	155	99	15.33	15.40	15.21	18.0	0.0	
100	QPSK	155	159	15.37	15.38	15.46	18.0	0.0	
100	QPSK	270	0	15.22	15.25	15.25	18.0	0.0	
100	16QAM	1	1	15.38	15.23	15.50	18.0	0.0	
100	16QAM	1	1	15.17	15.15	15.16	18.0	0.0	
100	256QAM	1	1	15.32	15.37	15.18	14.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.29	15.38	15.27	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.25	15.35	15.25	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.15	15.22	15.30	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.34	15.41	15.18	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.22	15.29	15.20	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.30	15.28	15.20	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.26	15.21	15.19	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.31	15.29	15.21	18.0	0.0	

Part27Q n77 PC3&PC2 Ant4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Power (dBm)	MPG (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1		17.29				
100	PL2 BPSK	1	137		17.39		18.0	0.0	
100	PL2 BPSK	1	271		17.28				
100	PL2 BPSK	155	9		17.35		18.0	0.0	
100	PL2 BPSK	155	99		17.41		18.0	0.0	
100	PL2 BPSK	155	158		17.21		18.0	0.0	
100	PL2 BPSK	270	0		17.30		18.0	0.0	
100	QPSK	1	1		17.28				
100	QPSK	1	137		17.31		18.0	0.0	
100	QPSK	1	271		17.39				
100	QPSK	155	9		17.39		18.0	0.0	
100	QPSK	155	99		17.42		18.0	0.0	
100	QPSK	155	159		17.35		18.0	0.0	
100	QPSK	270	0		17.35		18.0	0.0	
100	16QAM	1	1		17.28		18.0	0.0	
100	16QAM	1	1		17.29		18.0	0.0	
100	256QAM	1	1		15.89		18.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.24	17.24	17.26	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.29	17.27	17.26	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.27	17.29	17.24	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.23	17.26	17.21	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.31	17.41	17.19	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.32	17.27	17.24	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.29	17.23	17.21	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.27	17.27	17.22	18.0	0.0	



Part270 n78 PC2 PC3 Ant4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up Int. (min)	APRS (dB)
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	14.36	14.36	14.36	14.36	15.0	0.0
100	PI2-BPSK	1	137	14.35	14.35	14.35	14.35	15.0	0.0
100	PI2-BPSK	1	271	14.37	14.37	14.37	14.37	15.0	0.0
100	PI2-BPSK	135	69	14.47	14.47	14.47	14.47	15.0	0.0
100	PI2-BPSK	135	134	14.47	14.47	14.47	14.47	15.0	0.0
100	PI2-BPSK	270	0	14.41	14.41	14.41	14.41	15.0	0.0
100	QPSK	1	1	14.36	14.36	14.36	14.36	15.0	0.0
100	QPSK	1	137	14.35	14.35	14.35	14.35	15.0	0.0
100	QPSK	1	271	14.41	14.41	14.41	14.41	15.0	0.0
100	QPSK	135	0	14.33	14.33	14.33	14.33	15.0	0.0
100	QPSK	135	69	14.47	14.47	14.47	14.47	15.0	0.0
100	QPSK	135	134	14.47	14.47	14.47	14.47	15.0	0.0
100	QPSK	270	0	14.37	14.37	14.37	14.37	15.0	0.0
100	16QAM	1	1	14.38	14.38	14.38	14.38	15.0	0.0
100	16QAM	1	1	14.42	14.42	14.42	14.42	15.0	0.0
100	256QAM	1	1	14.43	14.43	14.43	14.43	15.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.34	14.33	14.28	14.28	15.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.38	14.29	14.24	14.24	15.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.35	14.26	14.21	14.21	15.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.36	14.28	14.23	14.23	15.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.29	14.40	14.28	14.28	15.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.34	14.44	14.25	14.25	15.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.33	14.29	14.25	14.25	15.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.24	14.31	14.27	14.27	15.0	0.0

Part96 n78 PC2 Ant4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up Int. (min)	APRS (dB)
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	15.09	15.22	15.2	15.2	16.0	0.0
100	PI2-BPSK	1	137	15.05	15.22	15.21	15.21	16.0	0.0
100	PI2-BPSK	1	271	15.07	15.22	15.2	15.2	16.0	0.0
100	PI2-BPSK	135	0	15.10	15.25	15.24	15.24	16.0	0.0
100	PI2-BPSK	135	69	14.91	15.11	15.08	15.08	16.0	0.0
100	PI2-BPSK	135	134	15.01	15.22	15.22	15.22	16.0	0.0
100	PI2-BPSK	270	0	15.02	15.21	15.21	15.21	16.0	0.0
100	QPSK	1	1	15.04	15.22	15.2	15.2	16.0	0.0
100	QPSK	1	137	15.01	15.25	15.23	15.23	16.0	0.0
100	QPSK	1	271	15.02	15.18	14.85	14.85	16.0	0.0
100	QPSK	135	0	15.16	15.22	15.22	15.22	16.0	0.0
100	QPSK	135	69	15.04	15.22	15.22	15.22	16.0	0.0
100	QPSK	135	134	15.01	15.21	15.21	15.21	16.0	0.0
100	QPSK	270	0	15.15	15.25	15.25	15.25	16.0	0.0
100	16QAM	1	1	14.97	15.11	14.89	14.89	16.0	0.0
100	16QAM	1	1	14.97	15.15	15.15	15.15	16.0	0.0
100	256QAM	1	1	15.32	15.28	15.21	15.21	16.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.09	15.03	15.18	15.18	16.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.12	14.99	15.05	15.05	16.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.10	15.17	15.19	15.19	16.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.07	15.17	15.14	15.14	16.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.96	15.22	15.08	15.08	16.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.16	15.12	14.95	14.95	16.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.09	14.99	15.05	15.05	16.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.11	15.19	15.13	15.13	16.0	0.0

Part270 n78 PC3&PC2 Ant4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up Int. (min)	APRS (dB)
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	16.27	16.27	16.27	16.27	15.0	0.0
100	PI2-BPSK	1	137	16.28	16.28	16.28	16.28	15.0	0.0
100	PI2-BPSK	1	271	16.29	16.29	16.29	16.29	15.0	0.0
100	PI2-BPSK	135	69	16.48	16.48	16.48	16.48	15.0	0.0
100	PI2-BPSK	135	134	16.48	16.48	16.48	16.48	15.0	0.0
100	PI2-BPSK	270	0	16.43	16.43	16.43	16.43	15.0	0.0
100	QPSK	1	1	16.27	16.27	16.27	16.27	15.0	0.0
100	QPSK	1	137	16.25	16.25	16.25	16.25	15.0	0.0
100	QPSK	1	271	16.27	16.27	16.27	16.27	15.0	0.0
100	QPSK	135	0	16.29	16.29	16.29	16.29	15.0	0.0
100	QPSK	135	69	16.44	16.44	16.44	16.44	15.0	0.0
100	QPSK	135	134	16.44	16.44	16.44	16.44	15.0	0.0
100	QPSK	270	0	16.37	16.37	16.37	16.37	15.0	0.0
100	16QAM	1	1	16.46	16.46	16.46	16.46	15.0	0.0
100	16QAM	1	1	16.51	16.51	16.51	16.51	15.0	0.0
100	256QAM	1	1	16.50	16.50	16.50	16.50	15.0	1.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.68	16.67	16.72	16.72	16.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.58	16.54	16.59	16.59	16.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.55	16.72	16.72	16.72	15.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.60	16.61	16.62	16.62	16.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.71	16.71	16.65	16.65	16.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.59	16.71	16.69	16.69	16.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.69	16.69	16.66	16.66	16.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.58	16.75	16.65	16.65	15.0	0.0



n7 Ant6 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.78	23.90	23.83		
40	PI/2 BPSK	1	108	23.74	23.88	23.76	25.0	0.0
40	PI/2 BPSK	1	214	24.01	24.03	23.98		
40	PI/2 BPSK	108	0	23.77	23.88	23.74	25.0	0.0
40	PI/2 BPSK	108	54	23.91	24.02	23.93	25.0	0.0
40	PI/2 BPSK	108	108	23.80	23.92	23.89		
40	PI/2 BPSK	216	0	23.78	23.87	23.73	25.0	0.0
40	QPSK	1	1	23.90	24.06	23.94		
40	QPSK	1	108	23.85	23.98	23.86	25.0	0.0
40	QPSK	1	214	23.83	24.00	23.96		
40	QPSK	108	0	23.85	23.92	23.80	25.0	0.0
40	QPSK	108	54	23.79	23.94	23.85	25.0	0.0
40	QPSK	108	108	23.76	23.86	23.77		
40	QPSK	216	0	23.84	24.00	23.86	25.0	0.0
40	16QAM	1	1	23.84	23.97	23.84	25.0	0.0
40	64QAM	1	1	22.52	22.69	22.56	23.5	1.5
40	256QAM	1	1	20.54	20.57	20.47	21.5	3.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.80	24.01	23.82	25.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.84	23.88	23.83	25.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.70	23.97	23.83	25.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.70	24.02	23.87	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.88	23.95	23.86	25.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.73	23.90	23.83	25.0	0.0

n66 Ant6 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.23	23.29	23.27		
40	PI/2 BPSK	1	108	23.18	23.26	23.23	25.0	0.0
40	PI/2 BPSK	1	214	23.29	23.35	23.31		
40	PI/2 BPSK	108	0	23.21	23.30	23.24	25.0	0.0
40	PI/2 BPSK	108	54	23.21	23.28	23.13	25.0	0.0
40	PI/2 BPSK	108	108	23.25	23.36	23.20		
40	PI/2 BPSK	216	0	23.31	23.35	23.31	25.0	0.0
40	QPSK	1	1	23.30	23.44	23.38		
40	QPSK	1	108	23.32	23.36	23.33	25.0	0.0
40	QPSK	1	214	23.37	23.40	23.33		
40	QPSK	108	0	23.25	23.32	23.26	25.0	0.0
40	QPSK	108	54	23.24	23.41	23.36	25.0	0.0
40	QPSK	108	108	23.22	23.30	23.14		
40	QPSK	216	0	23.24	23.38	23.27	25.0	0.0
40	16QAM	1	1	23.07	23.19	23.12	25.0	0.0
40	64QAM	1	1	21.67	21.98	21.96	23.5	1.5
40	256QAM	1	1	19.72	19.81	19.76	21.5	3.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.13	23.40	23.34	25.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.27	23.38	23.32	25.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.14	23.38	23.21	25.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.20	23.36	23.33	25.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.24	23.39	23.27	25.0	0.0



Part270 n77 PC2 PC3 Ant7

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								
650000 646666 650000								
Frequency (MHz)								
100	Pl2 BPSK	1	1	14.83	14.88	14.93	16.0	0.0
100	Pl2 BPSK	1	137	14.89	14.97	14.90	16.0	0.0
100	Pl2 BPSK	1	271	14.88	14.89	14.82	16.0	0.0
100	Pl2 BPSK	135	0	14.87	14.91	14.86	16.0	0.0
100	Pl2 BPSK	135	69	14.83	15.01	14.86	16.0	0.0
100	Pl2 BPSK	135	138	14.88	14.97	14.90	16.0	0.0
100	Pl2 BPSK	270	0	14.82	14.86	14.85	16.0	0.0
100	QPSK	1	1	14.95	15.03	14.97	16.0	0.0
100	QPSK	1	137	14.83	14.97	14.89	16.0	0.0
100	QPSK	1	271	14.81	14.90	14.85	16.0	0.0
100	QPSK	135	0	14.88	14.92	14.82	16.0	0.0
100	QPSK	135	69	14.78	14.94	14.88	16.0	0.0
100	QPSK	135	138	14.79	14.88	14.90	16.0	0.0
100	QPSK	270	0	14.78	14.95	14.92	16.0	0.0
100	16QAM	1	1	14.88	14.99	14.84	16.0	0.0
100	16QAM	1	1	14.87	14.99	14.87	16.0	0.0
100	256QAM	1	1	14.84	14.95	14.81	16.0	0.0
Channel								
645666 650000 652334								
Frequency (MHz)								
90	QPSK	1	1	14.91	14.88	14.95	16.0	0.0
Channel								
658334 656000 660666								
Frequency (MHz)								
80	QPSK	1	1	14.83	14.98	14.81	16.0	0.0
Channel								
649000 656000 663000								
Frequency (MHz)								
70	QPSK	1	1	14.81	14.87	14.84	16.0	0.0
Channel								
648666 656000 663334								
Frequency (MHz)								
60	QPSK	1	1	14.97	14.93	14.90	16.0	0.0
Channel								
648000 656000 664000								
Frequency (MHz)								
50	QPSK	1	1	14.78	14.96	14.88	16.0	0.0
Channel								
647666 656000 664334								
Frequency (MHz)								
40	QPSK	1	1	14.89	14.99	14.90	16.0	0.0
Channel								
647000 656000 664666								
Frequency (MHz)								
30	QPSK	1	1	14.89	14.92	14.90	16.0	0.0
Channel								
647334 656000 664666								
Frequency (MHz)								
20	QPSK	1	1	14.92	15.00	14.85	16.0	0.0

Part96 n77 PC3 Ant7

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								
640000 641666 643332								
Frequency (MHz)								
100	Pl2 BPSK	1	1	13.31	13.44	13.54	14.0	0.0
100	Pl2 BPSK	1	137	13.31	13.35	13.44	14.0	0.0
100	Pl2 BPSK	1	271	13.41	13.33	13.34	14.0	0.0
100	Pl2 BPSK	135	0	13.30	13.48	13.40	14.0	0.0
100	Pl2 BPSK	135	69	13.23	13.43	13.26	14.0	0.0
100	Pl2 BPSK	135	138	13.43	13.54	13.38	14.0	0.0
100	Pl2 BPSK	270	0	13.30	13.31	13.46	14.0	0.0
100	QPSK	1	1	13.40	13.55	13.51	14.0	0.0
100	QPSK	1	137	13.36	13.36	13.32	14.0	0.0
100	QPSK	1	271	13.22	13.39	13.35	14.0	0.0
100	QPSK	135	0	13.32	13.35	13.35	14.0	0.0
100	QPSK	135	69	13.22	13.41	13.27	14.0	0.0
100	QPSK	135	138	13.26	13.32	13.40	14.0	0.0
100	QPSK	270	0	13.27	13.39	13.37	14.0	0.0
100	16QAM	1	1	13.29	13.48	13.38	14.0	0.0
100	16QAM	1	1	13.31	13.49	13.38	14.0	0.0
100	256QAM	1	1	13.41	13.44	13.24	14.0	0.0
Channel								
639666 641666 643666								
Frequency (MHz)								
90	QPSK	1	1	13.23	13.35	13.47	14.0	0.0
Channel								
643334 641666 644000								
Frequency (MHz)								
80	QPSK	1	1	13.25	13.43	13.42	14.0	0.0
Channel								
639000 641666 644332								
Frequency (MHz)								
70	QPSK	1	1	13.09	13.40	13.39	14.0	0.0
Channel								
639666 641666 644666								
Frequency (MHz)								
60	QPSK	1	1	13.11	13.27	13.40	14.0	0.0
Channel								
639000 641666 645332								
Frequency (MHz)								
50	QPSK	1	1	13.25	13.25	13.50	14.0	0.0
Channel								
637501 3624.99 3675.01								
Frequency (MHz)								
40	QPSK	1	1	13.30	13.28	13.33	14.0	0.0
Channel								
637666 641666 645666								
Frequency (MHz)								
30	QPSK	1	1	13.19	13.39	13.45	14.0	0.0
Channel								
637334 641666 646000								
Frequency (MHz)								
20	QPSK	1	1	13.11	13.30	13.54	14.0	0.0

Part27Q n77 PC2 PC3 Ant7

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								
633000 633334 633666								
Frequency (MHz)								
100	Pl2 BPSK	1	1	9.07	9.10	9.07	9.5	0.0
100	Pl2 BPSK	1	137	9.10	9.10	9.10	9.5	0.0
100	Pl2 BPSK	1	271	9.10	9.07	9.10	9.5	0.0
100	Pl2 BPSK	135	0	9.08	9.08	9.10	9.5	0.0
100	Pl2 BPSK	135	69	9.10	9.10	9.10	9.5	0.0
100	Pl2 BPSK	135	138	9.05	9.05	9.07	9.5	0.0
100	Pl2 BPSK	270	0	9.00	9.11	9.08	9.5	0.0
100	QPSK	1	1	9.14	9.14	9.11	9.5	0.0
100	QPSK	1	137	9.07	9.07	9.07	9.5	0.0
100	QPSK	1	271	9.09	9.09	9.09	9.5	0.0
100	QPSK	135	0	9.07	9.07	9.07	9.5	0.0
100	QPSK	135	69	9.08	9.08	9.08	9.5	0.0
100	QPSK	135	138	9.07	9.07	9.07	9.5	0.0
100	QPSK	270	0	9.11	9.11	9.11	9.5	0.0
100	16QAM	1	1	9.11	9.11	9.11	9.5	0.0
100	16QAM	1	1	9.02	9.02	9.02	9.5	0.0
100	256QAM	1	1	9.10	9.10	9.10	9.5	0.0
Channel								
633000 633334 633666								
Frequency (MHz)								
90	QPSK	1	1	8.99	9.11	9.06	9.5	0.0
Channel								
633666 633334 634000								
Frequency (MHz)								
80	QPSK	1	1	9.09	9.09	9.05	9.5	0.0
Channel								
633334 633334 634334								
Frequency (MHz)								
70	QPSK	1	1	9.09	9.09	9.05	9.5	0.0
Channel								
633000 633334 634666								
Frequency (MHz)								
60	QPSK	1	1	9.00	9.02	9.09	9.5	0.0
Channel								
633000 633334 635000								
Frequency (MHz)								
50	QPSK	1	1	9.04	9.00	9.06	9.5	0.0
Channel								
633134 633334 635334								
Frequency (MHz)								
40	QPSK	1	1	8.94	9.03	8.98	9.5	0.0
Channel								
631000 633334 635666								
Frequency (MHz)								
30	QPSK	1	1	9.07	9.07	8.99	9.5	0.0
Channel								
630666 633334 636000								
Frequency (MHz)								
20	QPSK	1	1	9.01	9.10	8.93	9.5	0.0



Part270 n78 PC2 PC3 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				
				14.47	14.77	14.77				
100	PI2 BPSK	1	137				16.0	0.0		
100	PI2 BPSK	1	271	14.79						
100	PI2 BPSK	135	0	14.82			16.0	0.0		
100	PI2 BPSK	135	69	14.77			16.0	0.0		
100	PI2 BPSK	135	135	14.77			16.0	0.0		
100	PI2 BPSK	270	0	14.81						
100	QPSK	1	1	14.82						
100	QPSK	1	137	14.84			16.0	0.0		
100	QPSK	1	271	14.85						
100	QPSK	135	0	14.77			16.0	0.0		
100	QPSK	135	69	14.82			16.0	0.0		
100	QPSK	135	135	14.80			16.0	0.0		
100	QPSK	270	0	14.80						
100	16QAM	1	1	14.86			16.0	0.0		
100	64QAM	1	1	14.80			16.0	0.0		
100	256QAM	1	1	14.81			16.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)		
				3745.02	3760	3768.01				
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.77	14.87	14.75	16.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
				3745	3760	3760				
Channel										
Frequency (MHz)										
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
				3730.02	3760	3770.01				
Channel										
Frequency (MHz)										
50	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
				3725.01	3760	3775.02				
Channel										
Frequency (MHz)										
40	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
				3719.02	3760	3762.01				
Channel										
Frequency (MHz)										
30	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
				3710.01	3760	3760.02				
Channel										
Frequency (MHz)										
20	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
				14.73	14.78	14.79	16.0	0.0		

Part96 n78 PC3 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	3300	3324.99	3349.98				
				640000	641666	643332				
100	PI2 BPSK	1	137	13.25	13.33	13.36				
100	PI2 BPSK	1	271	13.38	13.31	13.28	14.0	0.0		
100	PI2 BPSK	135	0	13.18	13.34	13.19	14.0	0.0		
100	PI2 BPSK	135	69	13.16	13.38	13.19	14.0	0.0		
100	PI2 BPSK	135	135	13.34	13.45	13.20	14.0	0.0		
100	PI2 BPSK	270	0	13.17	13.11	13.32				
100	QPSK	1	1	13.26	13.22	13.50				
100	QPSK	1	137	13.34	13.22	13.15	14.0	0.0		
100	QPSK	1	271	13.03	13.23	13.28				
100	QPSK	135	0	13.13	13.23	13.36	14.0	0.0		
100	QPSK	135	69	13.16	13.42	13.23	14.0	0.0		
100	QPSK	135	135	13.16	13.31	13.25	14.0	0.0		
100	QPSK	270	0	13.06	13.28	13.20	14.0	0.0		
100	16QAM	1	1	13.13	13.47	13.27	14.0	0.0		
100	64QAM	1	1	13.22	13.29	13.37	14.0	0.0		
100	256QAM	1	1	13.34	13.30	13.28	14.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	639668	641666	643332	Tune-up limit (dBm)	MPR (dB)		
				3366.02	3364.99	3355.01				
Channel										
Frequency (MHz)										
80	QPSK	1	1	639000	641666	644332	Tune-up limit (dBm)	MPR (dB)		
				3366	3364.99	3364.98				
Channel										
Frequency (MHz)										
70	QPSK	1	1	638334	641666	645000	Tune-up limit (dBm)	MPR (dB)		
				3360.02	3364.99	3369.99				
Channel										
Frequency (MHz)										
60	QPSK	1	1	637668	641666	645666	Tune-up limit (dBm)	MPR (dB)		
				3354.02	3364.99	3369.99				
Channel										
Frequency (MHz)										
50	QPSK	1	1	637000	641666	646332	Tune-up limit (dBm)	MPR (dB)		
				3348	3364.99	3369.98				
Channel										
Frequency (MHz)										
40	QPSK	1	1	636334	641666	646998	Tune-up limit (dBm)	MPR (dB)		
				3342.01	3364.99	3375.00				
Channel										
Frequency (MHz)										
30	QPSK	1	1	635668	641666	647666	Tune-up limit (dBm)	MPR (dB)		
				3336.01	3364.99	3381.00				
Channel										
Frequency (MHz)										
20	QPSK	1	1	635000	641666	648332	Tune-up limit (dBm)	MPR (dB)		
				3330	3364.99	3386.00				

Part27Q n78 PC2 PC3 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				9.5	0.0		
100	PI2 BPSK	1	271							
100	PI2 BPSK	135	0				9.5	0.0		
100	PI2 BPSK	135	69				9.5	0.0		
100	PI2 BPSK	135	135				9.5	0.0		
100	PI2 BPSK	270	0							
100	QPSK	1	1				9.5	0.0		
100	QPSK	1	137							
100	QPSK	1	271							
100	QPSK	135	0				9.5	0.0		
100	QPSK	135	69				9.5	0.0		
100	QPSK	135	135				9.5	0.0		
100	QPSK	270	0							
100	16QAM	1	1				9.5	0.0		
100	64QAM	1	1				9.5	0.0		
100	256QAM	1	1				9.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	635000	633334	633668	Tune-up limit (dBm)	MPR (dB)		
				3486	3500.01	3505.02				
Channel										
Frequency (MHz)										
80	QPSK	1	1	634334	633334	634000	Tune-up limit (dBm)	MPR (dB)		
				3480.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
70	QPSK	1	1	633668	633334	634666	Tune-up limit (dBm)	MPR (dB)		
				3474.02	3500.01	3520.02				
Channel										
Frequency (MHz)										
60	QPSK	1	1	633000	633334	635332	Tune-up limit (dBm)	MPR (dB)		
				3468	3500.01	3525.02				
Channel										
Frequency (MHz)										
50	QPSK	1	1	632334	633334	636000	Tune-up limit (dBm)	MPR (dB)		
				3462	3500.01	3530.02				
Channel										
Frequency (MHz)										
40	QPSK	1	1	631668	633334	636666	Tune-up limit (dBm)	MPR (dB)		
				3456	3500.01	3535.02				
Channel										
Frequency (MHz)										
30	QPSK	1	1	631000	633334	637332	Tune-up limit (dBm)	MPR (dB)		
				3450	3500.01	3540.02				
Channel										
Frequency (MHz)										
20	QPSK	1	1	630334	633334	638000	Tune-up limit (dBm)	MPR (dB)		
				3444.02	3500.01	3545.02				



n41 PC3 Ant8 Default

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	508202	518598	528000					
Frequency (MHz)	2540.01	2592.99	2640					
100	PI/2 BPSK	1	1	21.45	21.52	21.41	23.0	0.0
100	PI/2 BPSK	1	137	21.37	21.47	21.31		
100	PI/2 BPSK	1	271	21.43	21.44	21.36		
100	PI/2 BPSK	135	0	21.34	21.50	21.45	22.5	0.5
100	PI/2 BPSK	135	69	21.27	21.41	21.31	23.0	0.0
100	PI/2 BPSK	135	138	21.28	21.37	21.27	22.5	0.5
100	PI/2 BPSK	270	0	21.36	21.43	21.40		
100	QPSK	1	1	21.47	21.55	21.44	23.0	0.0
100	QPSK	1	137	21.46	21.49	21.43		
100	QPSK	1	271	21.23	21.41	21.37		
100	QPSK	135	0	21.34	21.39	21.35	22.0	1.0
100	QPSK	135	69	21.25	21.45	21.35	23.0	0.0
100	QPSK	135	138	21.28	21.36	21.27	22.0	1.0
100	QPSK	270	0	21.28	21.42	21.23		
100	16QAM	1	1	21.34	21.41	21.31	22.0	1.0
100	64QAM	1	1	19.95	20.06	19.91	20.5	2.5
100	256QAM	1	1	18.26	18.26	18.12	18.5	4.5
Channel	508200	518598	528096					
Frequency (MHz)	2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)			
90	QPSK	1	1	21.46	21.43	21.23	23.0	0.0
Channel	507204	518598	528098					
Frequency (MHz)	2536.02	2592.99	2643.99	Tune-up limit (dBm)	MPR (dB)			
80	QPSK	1	1	21.36	21.50	21.30	23.0	0.0
Channel	508200	518598	531996					
Frequency (MHz)	2598	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)			
60	QPSK	1	1	21.34	21.52	21.27	23.0	0.0
Channel	504204	518598	532998					
Frequency (MHz)	2521.02	2592.99	2654.99	Tune-up limit (dBm)	MPR (dB)			
50	QPSK	1	1	21.45	21.38	21.34	23.0	0.0
Channel	503202	518598	534000					
Frequency (MHz)	2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)			
40	QPSK	1	1	21.28	21.49	21.28	23.0	0.0
Channel	502200	518598	534996					
Frequency (MHz)	2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)			
30	QPSK	1	1	21.28	21.36	21.27	23.0	0.0
Channel	501204	518598	535998					
Frequency (MHz)	2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)			
20	QPSK	1	1	21.27	21.48	21.29	23.0	0.0



Part270 n77 PC3 Ant11 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	11.02	11.02	11.00			
100	PI/2 BPSK	1	137	11.03	11.02	10.91	12.5	0.0	
100	PI/2 BPSK	1	271	10.97	11.02	10.97			
100	PI/2 BPSK	135	0	11.05	11.03	10.94	12.5	0.0	
100	PI/2 BPSK	135	69	11.02	11.07	11.00	12.5	0.0	
100	PI/2 BPSK	135	138	10.95	11.04	10.97			
100	PI/2 BPSK	270	0	10.97	11.00	10.93	12.5	0.0	
100	QPSK	1	1	11.09	11.13	11.06			
100	QPSK	1	137	11.00	10.99	10.96	12.5	0.0	
100	QPSK	1	271	11.04	10.97	11.00			
100	QPSK	135	0	11.02	11.08	11.02	12.5	0.0	
100	QPSK	135	69	10.97	11.09	10.91	12.5	0.0	
100	QPSK	135	138	10.97	10.98	10.96	12.5	0.0	
100	QPSK	270	0	11.04	11.05	10.94			
100	16QAM	1	1	11.03	11.01	10.93	12.5	0.0	
100	64QAM	1	1	11.00	10.98	10.95	12.5	0.0	
100	256QAM	1	1	10.99	11.07	11.00	12.5	0.0	
Channel				646668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	10.94	11.00	10.92	12.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	11.03	10.98	11.01	12.5	0.0	
Channel				646000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	10.97	11.02	10.93	12.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	10.99	11.05	10.90	12.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	11.01	10.98	10.95	12.5	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	10.94	11.04	10.93	12.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	10.99	11.06	10.91	12.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	11.04	10.98	10.99	12.5	0.0	

Part27Q n77 PC3 Ant11 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633668			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	15.59					
100	PI/2 BPSK	1	137	15.55			16.0	0.0	
100	PI/2 BPSK	1	271	15.57					
100	PI/2 BPSK	135	0	15.48			16.0	0.0	
100	PI/2 BPSK	135	69	15.50			16.0	0.0	
100	PI/2 BPSK	135	138	15.51					
100	PI/2 BPSK	270	0	15.52			16.0	0.0	
100	QPSK	1	1	15.63					
100	QPSK	1	137	15.50			16.0	0.0	
100	QPSK	1	271	15.49					
100	QPSK	135	0	15.49			16.0	0.0	
100	QPSK	135	69	15.52			16.0	0.0	
100	QPSK	135	138	15.50					
100	QPSK	270	0	15.59			16.0	0.0	
100	16QAM	1	1	15.57			16.0	0.0	
100	64QAM	1	1	15.51			16.0	0.0	
100	256QAM	1	1	15.57			16.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	15.45	15.58	15.50	16.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	15.45	15.47	15.47	16.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	15.53	15.57	15.51	16.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	15.52	15.55	15.44	16.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	15.42	15.54	15.42	16.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.45	15.59	15.49	16.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	15.45	15.57	15.48	16.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	15.42	15.55	15.48	16.0	0.0	



Part96 n77 PC3 Ant11 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				640000	641666	643332				
Frequency (MHz)				3600	3624.99	3649.98				
100	PI/2 BPSK	1	1	13.73	13.77	13.81				
100	PI/2 BPSK	1	137	13.84	13.64	13.56	15.0	0.0		
100	PI/2 BPSK	1	271	13.74	13.61	13.64				
100	PI/2 BPSK	135	0	13.71	13.70	13.64	15.0	0.0		
100	PI/2 BPSK	135	69	13.62	13.68	13.66	15.0	0.0		
100	PI/2 BPSK	135	138	13.60	13.64	13.63				
100	PI/2 BPSK	270	0	13.79	13.63	13.55	15.0	0.0		
100	QPSK	1	1	13.71	13.94	13.66				
100	QPSK	1	137	13.72	13.70	13.75	15.0	0.0		
100	QPSK	1	271	13.85	13.65	13.73				
100	QPSK	135	0	13.75	13.74	13.82	15.0	0.0		
100	QPSK	135	69	13.71	13.63	13.52	15.0	0.0		
100	QPSK	135	138	13.78	13.73	13.72				
100	QPSK	270	0	13.66	13.61	13.55	15.0	0.0		
100	16QAM	1	1	13.75	13.80	13.57	15.0	0.0		
100	64QAM	1	1	13.58	13.72	13.67	15.0	0.0		
100	256QAM	1	1	13.62	13.79	13.77	15.0	0.0		
Channel				636688	641666	643666	Tune-up limit	MPR		
Frequency (MHz)				3595.02	3624.99	3654.99	(dBm)	(dB)		
90	QPSK	1	1	13.65	13.73	13.77	15.0	0.0		
Channel				636334	641666	644000	Tune-up limit	MPR		
Frequency (MHz)				3590.01	3624.99	3660	(dBm)	(dB)		
80	QPSK	1	1	13.62	13.57	13.61	15.0	0.0		
Channel				636000	641666	644332	Tune-up limit	MPR		
Frequency (MHz)				3585	3624.99	3664.98	(dBm)	(dB)		
70	QPSK	1	1	13.61	13.61	13.62	15.0	0.0		
Channel				636688	641666	644666	Tune-up limit	MPR		
Frequency (MHz)				3580.02	3624.99	3669.99	(dBm)	(dB)		
60	QPSK	1	1	13.55	13.72	13.80	15.0	0.0		
Channel				636334	641666	645000	Tune-up limit	MPR		
Frequency (MHz)				3575.01	3624.99	3675	(dBm)	(dB)		
50	QPSK	1	1	13.52	13.64	13.75	15.0	0.0		
Channel				636000	641666	645332	Tune-up limit	MPR		
Frequency (MHz)				3570	3624.99	3679.98	(dBm)	(dB)		
40	QPSK	1	1	13.50	13.60	13.61	15.0	0.0		
Channel				637688	641666	645666	Tune-up limit	MPR		
Frequency (MHz)				3565.02	3624.99	3684.99	(dBm)	(dB)		
30	QPSK	1	1	13.54	13.60	13.65	15.0	0.0		
Channel				637334	641666	646000	Tune-up limit	MPR		
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)		
20	QPSK	1	1	13.63	13.66	13.65	15.0	0.0		

Part270 n78 PC3 Ant11 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		10.88					
100	PI/2 BPSK	1	137		10.97		12.5	0.0		
100	PI/2 BPSK	1	271		10.91					
100	PI/2 BPSK	135	0		10.95		12.5	0.0		
100	PI/2 BPSK	135	69		10.91		12.5	0.0		
100	PI/2 BPSK	135	138		10.96					
100	PI/2 BPSK	270	0		10.87		12.5	0.0		
100	QPSK	1	1		11.02					
100	QPSK	1	137		10.89		12.5	0.0		
100	QPSK	1	271		10.95					
100	QPSK	135	0		10.89		12.5	0.0		
100	QPSK	135	69		10.92		12.5	0.0		
100	QPSK	135	138		10.90					
100	QPSK	270	0		10.91		12.5	0.0		
100	16QAM	1	1		10.92		12.5	0.0		
100	64QAM	1	1		10.87		12.5	0.0		
100	256QAM	1	1		10.87		12.5	0.0		
Channel				649668	650000	650334	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)		
90	QPSK	1	1		10.87	10.89	10.92	12.5	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)		
80	QPSK	1	1		10.82	10.90	10.93	12.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)		
70	QPSK	1	1		10.89	10.97	10.88	12.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)		
60	QPSK	1	1		10.85	10.86	10.85	12.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)		
50	QPSK	1	1		10.81	10.88	10.85	12.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	1		10.82	10.89	10.83	12.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)		
30	QPSK	1	1		10.89	10.89	10.92	12.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)		
20	QPSK	1	1		10.86	10.88	10.88	12.5	0.0	



Part96 n78 PC3 Ant11 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				640000	641666	643332			
Frequency (MHz)				3000	3624.99	3649.98			
100	PI/2 BPSK	1	1	13.51	13.61	13.80			
100	PI/2 BPSK	1	137	13.63	13.66	13.52	15.0	0.0	
100	PI/2 BPSK	1	271	13.55	13.45	13.62			
100	PI/2 BPSK	135	0	13.64	13.66	13.55	15.0	0.0	
100	PI/2 BPSK	135	69	13.44	13.68	13.57	15.0	0.0	
100	PI/2 BPSK	135	138	13.39	13.51	13.55			
100	PI/2 BPSK	270	0	13.78	13.43	13.43	15.0	0.0	
100	QPSK	1	1	13.62	13.80	13.58			
100	QPSK	1	137	13.61	13.59	13.71	15.0	0.0	
100	QPSK	1	271	13.65	13.56	13.67			
100	QPSK	135	0	13.56	13.65	13.60	15.0	0.0	
100	QPSK	135	69	13.60	13.62	13.54	15.0	0.0	
100	QPSK	135	138	13.61	13.55	13.53			
100	QPSK	270	0	13.57	13.63	13.40	15.0	0.0	
100	16QAM	1	1	13.76	13.75	13.45	15.0	0.0	
100	64QAM	1	1	13.37	13.68	13.54	15.0	0.0	
100	256QAM	1	1	13.46	13.58	13.58	15.0	0.0	
Channel				639668	641666	650334	Tune-up limit	MPR	
Frequency (MHz)				3595.02	3624.99	3755.01	(dBm)	(dB)	
90	QPSK	1	1	13.62	13.73	13.85	15.0	0.0	
Channel				639334	641666	644000	Tune-up limit	MPR	
Frequency (MHz)				3599.01	3624.99	3660	(dBm)	(dB)	
80	QPSK	1	1	13.67	13.60	13.85	15.0	0.0	
Channel				639000	641666	644332	Tune-up limit	MPR	
Frequency (MHz)				3585	3624.99	3664.98	(dBm)	(dB)	
70	QPSK	1	1	13.55	13.65	13.71	15.0	0.0	
Channel				638668	641666	644666	Tune-up limit	MPR	
Frequency (MHz)				3580.02	3624.99	3669.99	(dBm)	(dB)	
60	QPSK	1	1	13.57	13.63	13.83	15.0	0.0	
Channel				638334	641666	645000	Tune-up limit	MPR	
Frequency (MHz)				3575.01	3624.99	3675	(dBm)	(dB)	
50	QPSK	1	1	13.73	13.61	13.82	15.0	0.0	
Channel				638000	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3570	3624.99	3679.98	(dBm)	(dB)	
40	QPSK	1	1	13.69	13.61	13.74	15.0	0.0	
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99	(dBm)	(dB)	
30	QPSK	1	1	13.53	13.60	13.88	15.0	0.0	
Channel				637334	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	13.72	13.65	13.65	15.0	0.0	

Part27Q n78 PC3 Ant11 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
100	PI/2 BPSK	1	1	15.41	15.50	15.53			
100	PI/2 BPSK	1	137	15.51			16.0	0.0	
100	PI/2 BPSK	1	271	15.45					
100	PI/2 BPSK	135	0	15.50			16.0	0.0	
100	PI/2 BPSK	135	69	15.51			16.0	0.0	
100	PI/2 BPSK	135	138	15.56					
100	PI/2 BPSK	270	0	15.50			16.0	0.0	
100	QPSK	1	1	15.48					
100	QPSK	1	137	15.50			16.0	0.0	
100	QPSK	1	271	15.53					
100	QPSK	135	0	15.55			16.0	0.0	
100	QPSK	135	69	15.54			16.0	0.0	
100	QPSK	135	138	15.51					
100	QPSK	270	0	15.52			16.0	0.0	
100	16QAM	1	1	15.53			16.0	0.0	
100	64QAM	1	1	15.44			16.0	0.0	
100	256QAM	1	1	15.48			16.0	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1	15.41	15.50	15.53	16.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	15.44	15.49	15.52	16.0	0.0	
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	15.39	15.53	15.46	16.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1	15.40	15.47	15.46	16.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	15.38	15.55	15.52	16.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	15.44	15.47	15.48	16.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	15.43	15.48	15.43	16.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	15.46	15.53	15.51	16.0	0.0	



Reduced Power for Sensor on

n5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	19.80	20.02	19.77			
20	PI/2 BPSK	1	53	19.90	20.02	19.77	20.5	0.0	
20	PI/2 BPSK	1	104	19.97	19.95	19.98			
20	PI/2 BPSK	50	0	19.79	19.92	19.76	20.5	0.0	
20	PI/2 BPSK	50	28	19.84	20.09	19.84	20.5	0.0	
20	PI/2 BPSK	50	56	19.89	19.97	19.91			
20	PI/2 BPSK	100	0	19.95	19.90	19.73	20.5	0.0	
20	QPSK	1	1	19.96	20.10	19.89			
20	QPSK	1	53	19.91	20.09	19.83	20.5	0.0	
20	QPSK	1	104	19.97	19.94	19.85			
20	QPSK	50	0	19.93	20.01	19.84	20.5	0.0	
20	QPSK	50	28	19.76	20.02	19.82	20.5	0.0	
20	QPSK	50	56	19.92	20.00	19.79			
20	QPSK	100	0	19.87	19.94	19.85	20.5	0.0	
20	16QAM	1	1	19.94	20.09	19.78	20.5	0.0	
20	64QAM	1	1	19.63	19.87	19.74	20.5	0.0	
20	256QAM	1	1	19.97	20.05	19.75	20.5	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	19.74	19.70	19.62	20.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	19.74	19.74	19.60	20.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	19.67	19.84	19.55	20.5	0.0	

n71 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.28	22.26	22.34			
20	PI/2 BPSK	1	53	22.33	22.34	22.29	23.0	0.0	
20	PI/2 BPSK	1	104	22.20	22.26	22.23			
20	PI/2 BPSK	50	0	22.32	22.29	22.29	23.0	0.0	
20	PI/2 BPSK	50	28	22.31	22.36	22.25	23.0	0.0	
20	PI/2 BPSK	50	56	22.32	22.38	22.34			
20	PI/2 BPSK	100	0	22.25	22.33	22.27	23.0	0.0	
20	QPSK	1	1	22.35	22.41	22.37			
20	QPSK	1	53	22.32	22.38	22.23	23.0	0.0	
20	QPSK	1	104	22.31	22.30	22.25			
20	QPSK	50	0	22.27	22.25	22.26	23.0	0.0	
20	QPSK	50	28	22.20	22.33	22.30	23.0	0.0	
20	QPSK	50	56	22.31	22.25	22.29			
20	QPSK	100	0	22.25	22.29	22.22	23.0	0.0	
20	16QAM	1	1	22.18	22.27	22.22	23.0	0.0	
20	64QAM	1	1	22.05	22.10	22.06	22.5	0.5	
20	256QAM	1	1	19.94	19.97	19.82	20.5	2.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.21	22.32	22.29	23.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.33	22.30	22.20	23.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.18	22.30	22.23	23.0	0.0	



n7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50400	50700	51000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	9.61	9.74	9.66			
40	PI/2 BPSK	1	108	9.72	9.81	9.69	10.5	0.0	
40	PI/2 BPSK	1	214	9.73	9.81	9.62			
40	PI/2 BPSK	108	0	9.58	9.83	9.67	10.5	0.0	
40	PI/2 BPSK	108	54	9.60	9.74	9.74	10.5	0.0	
40	PI/2 BPSK	108	108	9.61	9.78	9.64			
40	PI/2 BPSK	216	0	9.60	9.78	9.75	10.5	0.0	
40	QPSK	1	1	9.76	9.88	9.78			
40	QPSK	1	108	9.71	9.77	9.62	10.5	0.0	
40	QPSK	1	214	9.64	9.83	9.68			
40	QPSK	108	0	9.69	9.73	9.71	10.5	0.0	
40	QPSK	108	54	9.62	9.84	9.73	10.5	0.0	
40	QPSK	108	108	9.72	9.83	9.75			
40	QPSK	216	0	9.73	9.78	9.73	10.5	0.0	
40	16QAM	1	1	9.67	9.76	9.66	10.5	0.0	
40	64QAM	1	1	9.64	9.85	9.70	10.5	0.0	
40	256QAM	1	1	9.72	9.81	9.70	10.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	10.5	0.0	
30	QPSK	1	1	9.62	9.70	9.72			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	10.5	0.0	
25	QPSK	1	1	9.69	9.71	9.62			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2550	10.5	0.0	
20	PI/2 BPSK	1	1	9.67	9.79	9.64			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	10.5	0.0	
15	QPSK	1	1	9.67	9.75	9.62			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	10.5	0.0	
10	QPSK	1	1	9.73	9.78	9.67			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	10.5	0.0	
5	QPSK	1	1	9.61	9.81	9.69			

n66 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	15.06	15.15	15.03			
40	PI/2 BPSK	1	108	15.10	15.04	14.98	16.0	0.0	
40	PI/2 BPSK	1	214	15.03	15.11	15.01			
40	PI/2 BPSK	108	0	15.05	15.08	15.10	16.0	0.0	
40	PI/2 BPSK	108	54	15.00	15.12	15.06	16.0	0.0	
40	PI/2 BPSK	108	108	15.13	15.16	15.05			
40	PI/2 BPSK	216	0	15.02	15.18	15.09	16.0	0.0	
40	QPSK	1	1	15.16	15.21	15.13			
40	QPSK	1	108	15.09	15.12	15.07	16.0	0.0	
40	QPSK	1	214	15.13	15.05	15.01			
40	QPSK	108	0	15.12	15.10	15.05	16.0	0.0	
40	QPSK	108	54	15.14	15.15	15.06	16.0	0.0	
40	QPSK	108	108	15.10	15.07	15.10	16.0	0.0	
40	QPSK	216	0	15.13	15.14	15.11			
40	16QAM	1	1	15.10	15.17	14.97	16.0	0.0	
40	64QAM	1	1	15.05	15.14	15.00	16.0	0.0	
40	256QAM	1	1	15.03	15.03	15.04	16.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	16.0	0.0	
30	QPSK	1	1	15.00	15.10	15.08			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	16.0	0.0	
20	QPSK	1	1	15.00	15.12	15.10			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	16.0	0.0	
15	QPSK	1	1	14.99	15.09	15.06			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	16.0	0.0	
10	QPSK	1	1	14.98	15.11	15.08			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	16.0	0.0	
5	QPSK	1	1	15.09	15.18	14.98			



n38 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	9.95	10.03	9.89			
40	PI2 BPSK	1	53	9.85	10.02	9.92	10.5	0.0	
40	PI2 BPSK	1	104	9.89	9.99	9.85			
40	PI2 BPSK	50	0	9.92	9.92	9.91	10.5	0.0	
40	PI2 BPSK	50	28	9.88	9.98	9.90	10.5	0.0	
40	PI2 BPSK	50	56	9.98	10.00	9.90	10.5	0.0	
40	PI2 BPSK	100	0	9.97	9.91	9.81			
40	QPSK	1	1	10.01	10.06	9.96			
40	QPSK	1	53	9.95	9.98	9.84	10.5	0.0	
40	QPSK	1	104	9.93	10.02	9.87			
40	QPSK	50	0	9.88	9.88	9.85	10.5	0.0	
40	QPSK	50	28	9.86	9.91	9.78	10.5	0.0	
40	QPSK	50	56	9.85	9.85	9.80	10.5	0.0	
40	QPSK	100	0	9.88	10.01	9.82			
40	16QAM	1	1	9.95	9.93	9.89	10.5	0.0	
40	64QAM	1	1	9.87	10.01	9.83	10.5	0.0	
40	256QAM	1	1	9.95	9.90	9.81	10.5	0.0	
Channel									
Frequency (MHz)				5190.02	5190.00	5190.00	Tune-up limit (dBm)	MPR (dB)	
Channel				5190.02	5190.00	5190.00	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	9.89	9.95	9.91	10.5	0.0	
Channel									
Frequency (MHz)				5160.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
Channel				5160.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	9.90	9.91	9.82	10.5	0.0	

n41 PC3 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	9.58	9.81	9.82			
100	PI2 BPSK	1	137	9.64	9.70	9.66	10.5	0.0	
100	PI2 BPSK	1	271	9.52	9.81	9.59			
100	PI2 BPSK	135	0	9.81	9.74	9.76	10.5	0.0	
100	PI2 BPSK	135	69	9.84	9.83	9.72	10.5	0.0	
100	PI2 BPSK	135	138	9.72	9.68	9.59	10.5	0.0	
100	PI2 BPSK	270	0	9.63	9.68	9.66			
100	QPSK	1	1	9.71	9.86	9.79			
100	QPSK	1	137	9.58	9.75	9.69	10.5	0.0	
100	QPSK	1	271	9.51	9.65	9.82			
100	QPSK	135	0	9.66	9.84	9.79	10.5	0.0	
100	QPSK	135	69	9.67	9.77	9.80	10.5	0.0	
100	QPSK	135	138	9.61	9.72	9.83			
100	QPSK	270	0	9.67	9.73	9.61	10.5	0.0	
100	16QAM	1	1	9.88	9.64	9.65	10.5	0.0	
100	64QAM	1	1	9.83	9.68	9.80	10.5	0.0	
100	256QAM	1	1	9.51	9.82	9.66	10.5	0.0	
Channel									
Frequency (MHz)				5250.02	5292.99	2640	Tune-up limit (dBm)	MPR (dB)	
Channel				5250.02	5292.99	2640	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	9.83	9.69	9.73	10.5	0.0	
Channel									
Frequency (MHz)				5072.04	5185.98	5299.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5072.04	5185.98	5299.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	9.71	9.82	9.75	10.5	0.0	
Channel									
Frequency (MHz)				5052.00	5185.98	5319.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5052.00	5185.98	5319.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	9.57	9.78	9.76	10.5	0.0	
Channel									
Frequency (MHz)				5042.04	5185.98	5329.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5042.04	5185.98	5329.98	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	9.80	9.76	9.73	10.5	0.0	
Channel									
Frequency (MHz)				5032.02	5185.98	5340.00	Tune-up limit (dBm)	MPR (dB)	
Channel				5032.02	5185.98	5340.00	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	9.65	9.81	9.79	10.5	0.0	
Channel									
Frequency (MHz)				5022.00	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5022.00	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	9.84	9.78	9.75	10.5	0.0	
Channel									
Frequency (MHz)				5012.04	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5012.04	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	9.70	9.71	9.81	10.5	0.0	

n41 PC2 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	9.73	9.86	9.86			
100	PI2 BPSK	1	137	9.88	9.85	9.78	10.5	0.0	
100	PI2 BPSK	1	271	9.67	9.86	9.73			
100	PI2 BPSK	135	0	9.75	9.86	9.86	10.5	0.0	
100	PI2 BPSK	135	69	9.74	9.87	9.87	10.5	0.0	
100	PI2 BPSK	135	138	9.75	9.86	9.74	10.5	0.0	
100	PI2 BPSK	270	0	9.75	9.82	9.72			
100	QPSK	1	1	9.82	9.96	9.80			
100	QPSK	1	137	9.67	9.92	9.76	10.5	0.0	
100	QPSK	1	271	9.68	9.80	9.87			
100	QPSK	135	0	9.86	9.90	9.86	10.5	0.0	
100	QPSK	135	69	9.89	9.91	9.75	10.5	0.0	
100	QPSK	135	138	9.86	9.86	9.86	10.5	0.0	
100	QPSK	270	0	9.77	9.73	9.78			
100	16QAM	1	1	9.71	9.79	9.73	10.5	0.0	
100	64QAM	1	1	9.72	9.85	9.86	10.5	0.0	
100	256QAM	1	1	9.67	9.85	9.78	10.5	0.0	
Channel									
Frequency (MHz)				5250.02	5292.99	2640	Tune-up limit (dBm)	MPR (dB)	
Channel				5250.02	5292.99	2640	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	9.72	9.89	9.74	10.5	0.0	
Channel									
Frequency (MHz)				5072.04	5185.98	5299.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5072.04	5185.98	5299.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	9.85	9.85	9.74	10.5	0.0	
Channel									
Frequency (MHz)				5052.00	5185.98	5319.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5052.00	5185.98	5319.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	9.79	9.93	9.82	10.5	0.0	
Channel									
Frequency (MHz)				5042.04	5185.98	5329.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5042.04	5185.98	5329.98	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	9.75	9.86	9.80	10.5	0.0	
Channel									
Frequency (MHz)				5032.02	5185.98	5340.00	Tune-up limit (dBm)	MPR (dB)	
Channel				5032.02	5185.98	5340.00	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	9.78	9.80	9.74	10.5	0.0	
Channel									
Frequency (MHz)				5022.00	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5022.00	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	9.73	9.93	9.81	10.5	0.0	
Channel									
Frequency (MHz)				5012.04	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
Channel				5012.04	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	9.77	9.81	9.80	10.5	0.0	



Part27O n77 PC2 PC3 Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	10.05	10.07	10.06		
100	PI2 BPSK	1	137	10.03	10.15	10.07	11.5	0.0
100	PI2 BPSK	1	271	10.02	10.12	9.99		
100	PI2 BPSK	135	69	9.93	10.01	10.01	11.5	0.0
100	PI2 BPSK	135	69	10.07	10.02	10.08	11.5	0.0
100	PI2 BPSK	135	138	9.98	10.08	10.09	11.5	0.0
100	PI2 BPSK	270	0	10.03	10.14	10.12		
100	QPSK	1	1	10.11	10.19	10.15		
100	QPSK	1	137	10.07	10.15	9.98	11.5	0.0
100	QPSK	1	271	10.00	10.07	10.09		
100	QPSK	135	0	9.95	10.10	10.11	11.5	0.0
100	QPSK	135	69	9.98	10.14	10.13	11.5	0.0
100	QPSK	135	138	10.02	10.11	10.00	11.5	0.0
100	QPSK	270	0	10.02	10.11	10.09		
100	16QAM	1	1	9.95	10.10	10.00	11.5	0.0
100	16QAM	1	1	9.98	10.11	10.04	11.5	0.0
100	256QAM	1	1	10.06	10.05	9.98	11.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	10.08	10.07	10.10	11.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	10.05	10.09	10.04	11.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	10.04	10.01	9.97	11.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	10.06	10.10	10.12	11.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	10.09	10.13	10.07	11.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	10.01	10.10	10.06	11.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	9.99	10.04	10.13	11.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	10.08	10.15	10.06	11.5	0.0

Part96 n77 PC3 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	10.07	10.08	9.94		
100	PI2 BPSK	1	137	9.82	10.01	9.73	11.5	0.0
100	PI2 BPSK	1	271	10.02	9.96	9.79		
100	PI2 BPSK	135	0	9.82	10.00	9.76	11.5	0.0
100	PI2 BPSK	135	69	9.90	9.87	10.10	11.5	0.0
100	PI2 BPSK	135	138	9.99	9.99	9.85	11.5	0.0
100	PI2 BPSK	270	0	9.91	9.92	9.99		
100	QPSK	1	1	9.79	10.15	10.12		
100	QPSK	1	137	9.83	10.08	9.78	11.5	0.0
100	QPSK	1	271	9.70	9.82	9.92		
100	QPSK	135	0	9.92	9.99	9.94	11.5	0.0
100	QPSK	135	69	10.06	10.12	9.81	11.5	0.0
100	QPSK	135	138	9.94	9.83	9.84	11.5	0.0
100	QPSK	270	0	9.84	10.00	9.94		
100	16QAM	1	1	9.81	10.05	9.98	11.5	0.0
100	16QAM	1	1	9.92	9.98	9.78	11.5	0.0
100	256QAM	1	1	9.95	9.91	10.03	11.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	9.95	9.98	10.00	11.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	9.99	10.04	9.97	11.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	10.08	10.04	9.89	11.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	10.09	10.07	9.92	11.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	9.94	10.10	9.85	11.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	10.07	10.08	9.96	11.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	10.09	10.03	9.88	11.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	9.96	9.95	9.83	11.5	0.0

Part27Q n77 PC2 PC3 Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		10.18		11.5	0.0
100	PI2 BPSK	1	271		10.25			
100	PI2 BPSK	135	0		10.16		11.5	0.0
100	PI2 BPSK	135	69		10.13		11.5	0.0
100	PI2 BPSK	135	138		10.24		11.5	0.0
100	PI2 BPSK	270	0		10.16			
100	QPSK	1	1		10.38			
100	QPSK	1	137		10.17		11.5	0.0
100	QPSK	1	271		10.18			
100	QPSK	135	0		10.18		11.5	0.0
100	QPSK	135	69		10.23		11.5	0.0
100	QPSK	135	138		10.16			
100	QPSK	270	0		10.16		11.5	0.0
100	16QAM	1	1		10.17		11.5	0.0
100	16QAM	1	1		10.26		11.5	0.0
100	256QAM	1	1		10.16		11.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3485	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	10.07	10.15	10.13	11.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	10.15	10.26	10.22	11.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3489	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	10.14	10.16	10.13	11.5	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
0	QPSK	1	1	3493	3500.01	3533.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
0	QPSK	1	1	10.19	10.16	10.25	11.5	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
0	QPSK	1	1	3480.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
0	QPSK	1	1	10.19	10.23	10.19	11.5	0.0



n7 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50400	50700	51000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	9.62	9.78	9.64			
40	PI/2 BPSK	1	108	9.69	9.80	9.66	10.5	0.0	
40	PI/2 BPSK	1	214	9.62	9.71	9.73			
40	PI/2 BPSK	108	0	9.69	9.72	9.71	10.5	0.0	
40	PI/2 BPSK	108	54	9.66	9.82	9.63	10.5	0.0	
40	PI/2 BPSK	108	108	9.61	9.84	9.71			
40	PI/2 BPSK	216	0	9.62	9.81	9.62	10.5	0.0	
40	QPSK	1	1	9.74	9.68	9.76			
40	QPSK	1	108	9.61	9.76	9.66	10.5	0.0	
40	QPSK	1	214	9.63	9.81	9.68			
40	QPSK	108	0	9.65	9.70	9.70	10.5	0.0	
40	QPSK	108	54	9.56	9.85	9.59	10.5	0.0	
40	QPSK	108	108	9.64	9.77	9.64			
40	QPSK	216	0	9.63	9.73	9.65	10.5	0.0	
40	16QAM	1	1	9.57	9.84	9.59	10.5	0.0	
40	64QAM	1	1	9.56	9.75	9.73	10.5	0.0	
40	256QAM	1	1	9.57	9.80	9.59	10.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	9.65	9.75	9.67	10.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	9.64	9.78	9.61	10.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2550			
20	PI/2 BPSK	1	1	9.61	9.72	9.71	10.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	9.63	9.74	9.68	10.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	9.66	9.77	9.65	10.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	9.62	9.83	9.64	10.5	0.0	

n66 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	14.21	14.29	14.11			
40	PI/2 BPSK	1	108	14.07	14.27	14.05	15.0	0.0	
40	PI/2 BPSK	1	214	14.17	14.28	14.12			
40	PI/2 BPSK	108	0	14.18	14.22	14.12	15.0	0.0	
40	PI/2 BPSK	108	54	14.13	14.24	14.09	15.0	0.0	
40	PI/2 BPSK	108	108	14.10	14.28	14.19			
40	PI/2 BPSK	216	0	14.19	14.23	14.16	15.0	0.0	
40	QPSK	1	1	14.25	14.38	14.23			
40	QPSK	1	108	14.12	14.36	14.06	15.0	0.0	
40	QPSK	1	214	14.18	14.23	14.08			
40	QPSK	108	0	14.14	14.29	14.18	15.0	0.0	
40	QPSK	108	54	14.13	14.32	14.13	15.0	0.0	
40	QPSK	108	108	14.10	14.21	14.07			
40	QPSK	216	0	14.07	14.23	14.21	15.0	0.0	
40	16QAM	1	1	14.19	14.30	14.10	15.0	0.0	
40	64QAM	1	1	14.21	14.24	14.06	15.0	0.0	
40	256QAM	1	1	14.13	14.34	14.05	15.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	14.18	14.25	14.12	15.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	14.17	14.31	14.10	15.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	14.16	14.32	14.10	15.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	14.21	14.21	14.19	15.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	14.20	14.24	14.18	15.0	0.0	

Reduced Power for ENDC

n5 Ant 1									
Channel	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	18.48	18.55	18.42			
20	PI/2 BPSK	1	53	18.42	18.55	18.47	19.0	0.0	
20	PI/2 BPSK	1	104	18.49	18.61	18.50			
20	PI/2 BPSK	50	0	18.45	18.62	18.36	19.0	0.0	
20	PI/2 BPSK	50	28	18.47	18.52	18.47	19.0	0.0	
20	PI/2 BPSK	50	56	18.40	18.49	18.38			
20	PI/2 BPSK	100	0	18.39	18.52	18.35	19.0	0.0	
20	QPSK	1	1	18.53	18.66	18.52			
20	QPSK	1	53	18.46	18.57	18.36	19.0	0.0	
20	QPSK	1	104	18.35	18.61	18.46			
20	QPSK	50	0	18.45	18.55	18.35	19.0	0.0	
20	QPSK	50	28	18.49	18.59	18.47	19.0	0.0	
20	QPSK	50	56	18.48	18.50	18.36	19.0	0.0	
20	QPSK	100	0	18.41	18.59	18.44			
20	16QAM	1	1	18.46	18.52	18.37	19.0	0.0	
20	64QAM	1	1	18.38	18.50	18.44	19.0	0.0	
20	256QAM	1	1	18.45	18.53	18.47	19.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	18.41	18.55	18.39	19.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	18.41	18.58	18.44	19.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	18.39	18.61	18.40	19.0	0.0	



n7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	8.11	8.25	8.17			
40	PI/2 BPSK	1	108	8.14	8.25	8.13	9.0	0.0	
40	PI/2 BPSK	1	214	8.13	8.19	8.23			
40	PI/2 BPSK	108	0	8.13	8.14	8.14	9.0	0.0	
40	PI/2 BPSK	108	54	8.18	8.18	8.21	9.0	0.0	
40	PI/2 BPSK	108	108	8.15	8.19	8.13	9.0	0.0	
40	PI/2 BPSK	216	0	8.15	8.30	8.19			
40	QPSK	1	1	8.26	8.32	8.28			
40	QPSK	1	108	8.23	8.24	8.10	9.0	0.0	
40	QPSK	1	214	8.10	8.17	8.22			
40	QPSK	108	0	8.21	8.20	8.19	9.0	0.0	
40	QPSK	108	54	8.13	8.27	8.23	9.0	0.0	
40	QPSK	108	108	8.15	8.22	8.17	9.0	0.0	
40	QPSK	216	0	8.15	8.23	8.21			
40	16QAM	1	1	8.14	8.23	8.20	9.0	0.0	
40	64QAM	1	1	8.14	8.19	8.20	9.0	0.0	
40	256QAM	1	1	8.13	8.19	8.16	9.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	8.13	8.17	8.20	9.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	8.14	8.27	8.20	9.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	8.11	8.18	8.24	9.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	8.10	8.28	8.17	9.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	8.22	8.17	8.22	9.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	8.24	8.27	8.19	9.0	0.0	

n66 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	13.64	13.65	13.54			
40	PI/2 BPSK	1	108	13.63	13.54	13.45	14.5	0.0	
40	PI/2 BPSK	1	214	13.62	13.70	13.51			
40	PI/2 BPSK	108	0	13.53	13.59	13.52	14.5	0.0	
40	PI/2 BPSK	108	54	13.59	13.65	13.59	14.5	0.0	
40	PI/2 BPSK	108	108	13.66	13.64	13.50	14.5	0.0	
40	PI/2 BPSK	216	0	13.56	13.66	13.46			
40	QPSK	1	1	13.69	13.72	13.62			
40	QPSK	1	108	13.54	13.69	13.48	14.5	0.0	
40	QPSK	1	214	13.56	13.57	13.55			
40	QPSK	108	0	13.52	13.61	13.53	14.5	0.0	
40	QPSK	108	54	13.55	13.66	13.45	14.5	0.0	
40	QPSK	108	108	13.64	13.60	13.45	14.5	0.0	
40	QPSK	216	0	13.58	13.67	13.45			
40	16QAM	1	1	13.62	13.55	13.47	14.5	0.0	
40	64QAM	1	1	13.55	13.68	13.54	14.5	0.0	
40	256QAM	1	1	13.55	13.55	13.54	14.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	13.63	13.64	13.60	14.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	13.62	13.60	13.52	14.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	13.65	13.61	13.48	14.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	13.60	13.56	13.58	14.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	13.66	13.65	13.49	14.5	0.0	



n38 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				51804	51800	51998			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	8.39	8.31	8.32			
40	PI2 BPSK	1	53	8.32	8.34	8.33	9.0	0.0	
40	PI2 BPSK	1	164	8.32	8.32	8.28	9.0	0.0	
40	PI2 BPSK	50	0	8.28	8.28	8.14	9.0	0.0	
40	PI2 BPSK	50	28	8.27	8.32	8.38	9.0	0.0	
40	PI2 BPSK	50	58	8.28	8.36	8.18	9.0	0.0	
40	PI2 BPSK	100	0	8.30	8.37	8.28			
40	QPSK	1	1	8.40	8.41	8.38			
40	QPSK	1	53	8.22	8.21	8.22	9.0	0.0	
40	QPSK	1	164	8.31	8.38	8.13			
40	QPSK	50	0	8.32	8.33	8.27	9.0	0.0	
40	QPSK	50	28	8.32	8.31	8.25	9.0	0.0	
40	QPSK	50	58	8.24	8.19	8.25	9.0	0.0	
40	QPSK	100	0	8.22	8.23	8.14			
40	16QAM	1	1	8.31	8.32	8.20	9.0	0.0	
40	16QAM	1	1	8.32	8.34	8.31	9.0	0.0	
40	256QAM	1	1	8.31	8.37	8.25	9.0	0.0	
Channel				51702	51800	52098			
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	8.37	8.38	8.28	9.0	0.0	
Channel				51600	51900	52200			
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	8.28	8.33	8.30	9.0	0.0	

n41 PC3 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				52024	51858	52300			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	8.27	8.33	8.37			
100	PI2 BPSK	1	137	8.25	8.30	8.31	9.0	0.0	
100	PI2 BPSK	1	271	8.22	8.41	8.23	9.0	0.0	
100	PI2 BPSK	135	0	8.17	8.27	8.14	9.0	0.0	
100	PI2 BPSK	135	69	8.23	8.37	8.25	9.0	0.0	
100	PI2 BPSK	135	138	8.22	8.42	8.25	9.0	0.0	
100	PI2 BPSK	270	0	8.15	8.36	8.27			
100	QPSK	1	1	8.41	8.45	8.40			
100	QPSK	1	137	8.31	8.41	8.20	9.0	0.0	
100	QPSK	1	271	8.13	8.35	8.30			
100	QPSK	135	0	8.19	8.33	8.17	9.0	0.0	
100	QPSK	135	69	8.21	8.37	8.27	9.0	0.0	
100	QPSK	135	138	8.27	8.19	8.20	9.0	0.0	
100	QPSK	270	0	8.21	8.26	8.16			
100	16QAM	1	1	8.31	8.27	8.37	9.0	0.0	
100	16QAM	1	1	8.24	8.33	8.33	9.0	0.0	
100	256QAM	1	1	8.18	8.32	8.33	9.0	0.0	
Channel				50520	51858	52998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	8.31	8.28	8.40	9.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	8.29	8.34	8.23	9.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	8.30	8.35	8.29	9.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	8.36	8.20	8.41	9.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	8.21	8.30	8.39	9.0	0.0	
Channel				505210	518598	532998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	8.28	8.34	8.41	9.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	8.24	8.22	8.41	9.0	0.0	

n41 PC2 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				52024	51858	52300			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	8.41	8.44	8.40			
100	PI2 BPSK	1	137	8.27	8.34	8.34	9.0	0.0	
100	PI2 BPSK	1	271	8.37	8.45	8.35	9.0	0.0	
100	PI2 BPSK	135	0	8.31	8.39	8.30	9.0	0.0	
100	PI2 BPSK	135	69	8.30	8.39	8.29	9.0	0.0	
100	PI2 BPSK	135	138	8.35	8.46	8.39	9.0	0.0	
100	PI2 BPSK	270	0	8.29	8.37	8.31			
100	QPSK	1	1	8.44	8.52	8.47			
100	QPSK	1	137	8.40	8.42	8.33	9.0	0.0	
100	QPSK	1	271	8.28	8.48	8.42			
100	QPSK	135	0	8.30	8.35	8.33	9.0	0.0	
100	QPSK	135	69	8.30	8.37	8.36	9.0	0.0	
100	QPSK	135	138	8.32	8.26	8.30	9.0	0.0	
100	QPSK	270	0	8.32	8.38	8.29			
100	16QAM	1	1	8.39	8.35	8.40	9.0	0.0	
100	16QAM	1	1	8.37	8.35	8.38	9.0	0.0	
100	256QAM	1	1	8.28	8.43	8.34	9.0	0.0	
Channel				50520	51858	52998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	8.36	8.36	8.42	9.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	8.29	8.48	8.43	9.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	8.34	8.46	8.35	9.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	8.41	8.49	8.41	9.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	8.23	8.50	8.38	9.0	0.0	
Channel				505210	518598	532998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	8.40	8.48	8.39	9.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	8.29	8.46	8.34	9.0	0.0	



Part270 n77 PC2 PC3 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 662000			
Channel				3750	3840	3930			
100	PI2 BPSK	1	1	10.05	10.07	10.06			
100	PI2 BPSK	1	137	10.08	10.15	10.01	11.5	0.0	
100	PI2 BPSK	1	271	10.02	10.12	9.99			
100	PI2 BPSK	135	0	9.93	10.01	10.01	11.5	0.0	
100	PI2 BPSK	135	69	10.07	10.02	10.08	11.5	0.0	
100	PI2 BPSK	135	138	9.98	10.08	10.09			
100	PI2 BPSK	270	0	10.03	10.14	10.12	11.5	0.0	
100	QPSK	1	1	10.11	10.19	10.16			
100	QPSK	1	137	10.07	10.15	9.98	11.5	0.0	
100	QPSK	1	271	10.06	10.07	10.09			
100	QPSK	135	0	9.95	10.10	10.11	11.5	0.0	
100	QPSK	135	69	9.96	10.14	10.13	11.5	0.0	
100	QPSK	135	138	10.02	10.11	10.00			
100	QPSK	270	0	10.02	10.11	10.09	11.5	0.0	
100	16QAM	1	1	9.95	10.10	10.00	11.5	0.0	
100	64QAM	1	1	9.96	10.11	10.04	11.5	0.0	
100	256QAM	1	1	10.06	10.05	9.98	11.5	0.0	
Channel				648968	650000	662088			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	10.08	10.07	10.10	11.5	0.0	
Channel				648334	650000	662088			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	10.05	10.09	10.04	11.5	0.0	
Channel				648000	650000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	10.04	10.01	9.97	11.5	0.0	
Channel				648668	650000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	10.06	10.10	10.12	11.5	0.0	
Channel				648334	650000	663088			
Frequency (MHz)				3728.01	3840	3955.02			
50	QPSK	1	1	10.09	10.13	10.07	11.5	0.0	
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	10.01	10.10	10.06	11.5	0.0	
Channel				647868	650000	664334			
Frequency (MHz)				3718.02	3840	3965.01			
30	QPSK	1	1	9.98	10.04	10.13	11.5	0.0	
Channel				647334	650000	665088			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	10.08	10.15	10.06	11.5	0.0	



Part27Q n77 PC2 PC3 Ant3

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	633334	633334	633334					
Frequency (MHz)	3500.01	3500.01	3500.01					
100	PI/2 BPSK	1	1	10.25				
100	PI/2 BPSK	1	137	10.18	11.5			
100	PI/2 BPSK	1	271	10.25	0.0			
100	PI/2 BPSK	135	0	10.16	11.5			
100	PI/2 BPSK	135	69	10.13	0.0			
100	PI/2 BPSK	135	138	10.24	11.5			
100	PI/2 BPSK	270	0	10.16	0.0			
100	QPSK	1	1	10.30				
100	QPSK	1	137	10.17	11.5			
100	QPSK	1	271	10.18				
100	QPSK	135	0	10.18	11.5			
100	QPSK	135	69	10.23	0.0			
100	QPSK	135	138	10.16	11.5			
100	QPSK	270	0	10.16	0.0			
100	16QAM	1	1	10.17	11.5			
100	64QAM	1	1	10.26	11.5			
100	256QAM	1	1	10.16	11.5			
Channel	633000	633334	633668					
Frequency (MHz)	3495	3500.01	3505.02					
90	QPSK	1	1	10.12	10.25	10.11	11.5	0.0
Channel	632668	633334	634000					
Frequency (MHz)	3493.02	3500.01	3510					
80	QPSK	1	1	10.07	10.15	10.13	11.5	0.0
Channel	632334	633334	634334					
Frequency (MHz)	3485.01	3500.01	3515.01					
70	QPSK	1	1	10.15	10.20	10.22	11.5	0.0
Channel	632000	633334	633668					
Frequency (MHz)	3480	3500.01	3520.02					
60	QPSK	1	1	10.16	10.17	10.18	11.5	0.0
Channel	631668	633334	633000					
Frequency (MHz)	3475.02	3500.01	3505					
50	QPSK	1	1	10.14	10.16	10.13	11.5	0.0
Channel	631334	633334	633334					
Frequency (MHz)	3470.01	3500.01	3520.01					
40	QPSK	1	1	10.13	10.23	10.20	11.5	0.0
Channel	631000	633334	633668					
Frequency (MHz)	3465	3500.01	3535.02					
30	QPSK	1	1	10.19	10.16	10.25	11.5	0.0
Channel	630668	633334	633000					
Frequency (MHz)	3460.02	3500.01	3540					
20	QPSK	1	1	10.16	10.23	10.19	11.5	0.0



Part270 n78 PC2 PC3 Ant3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 650000			
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		9.79				
100	PI/2 BPSK	1	137		9.81		11.5	0.0	
100	PI/2 BPSK	1	271		9.75				
100	PI/2 BPSK	135	0		9.80		11.5	0.0	
100	PI/2 BPSK	135	69		9.82		11.5	0.0	
100	PI/2 BPSK	135	138		9.77		11.5	0.0	
100	PI/2 BPSK	270	0		9.80				
100	QPSK	1	1		9.93				
100	QPSK	1	137		9.80		11.5	0.0	
100	QPSK	1	271		9.78				
100	QPSK	135	0		9.75		11.5	0.0	
100	QPSK	135	69		9.91		11.5	0.0	
100	QPSK	135	138		9.83		11.5	0.0	
100	QPSK	270	0		9.86				
100	16QAM	1	1		9.78		11.5	0.0	
100	64QAM	1	1		9.83		11.5	0.0	
100	256QAM	1	1		9.80		11.5	0.0	
Channel				648688	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		9.82	9.85	9.83	11.5	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		9.74	9.69	9.71	11.5	0.0
Channel				648000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		9.71	9.83	9.75	11.5	0.0
Channel				648688	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		9.68	9.88	9.78	11.5	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		9.80	9.78	9.82	11.5	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3750			
40	QPSK	1	1		9.72	9.79	9.77	11.5	0.0
Channel				647688	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		9.72	9.79	9.77	11.5	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		9.68	9.79	9.83	11.5	0.0



Part27Q n78 PC2 PC3 Ant3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				633334			
Frequency (MHz)				3500.01			
100	PI/2 BPSK	1	1	10.18			
100	PI/2 BPSK	1	137	10.24			
100	PI/2 BPSK	1	271	10.16			
100	PI/2 BPSK	135	0	10.17			11.5 0.0
100	PI/2 BPSK	135	89	10.24			11.5 0.0
100	PI/2 BPSK	135	138	10.15			11.5 0.0
100	PI/2 BPSK	270	0	10.15			11.5 0.0
100	QPSK	1	1	10.27			
100	QPSK	1	137	10.13			11.5 0.0
100	QPSK	1	271	10.10			
100	QPSK	135	0	10.16			11.5 0.0
100	QPSK	135	89	10.18			11.5 0.0
100	QPSK	135	138	10.08			11.5 0.0
100	QPSK	270	0	10.26			11.5 0.0
100	16QAM	1	1	10.21			11.5 0.0
100	64QAM	1	1	10.12			11.5 0.0
100	256QAM	1	1	10.21			11.5 0.0
Channel				633000	633334	633668	MPR
Frequency (MHz)				3485	3500.01	3505.02	Tune-up limit (dB)
90	QPSK	1	1	10.03	10.16	10.02	11.5 0.0
Channel				632668	633334	634000	Tune-up limit MPR
Frequency (MHz)				3480.02	3500.01	3510	(dB)
80	QPSK	1	1	10.05	10.21	10.05	11.5 0.0
Channel				632334	633334	634334	Tune-up limit MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)
70	QPSK	1	1	9.95	10.19	9.99	11.5 0.0
Channel				632000	633334	634668	Tune-up limit MPR
Frequency (MHz)				3480	3500.01	3520.02	(dB)
60	QPSK	1	1	10.01	10.22	10.00	11.5 0.0
Channel				631668	633334	635000	Tune-up limit MPR
Frequency (MHz)				3475.02	3500.01	3505	(dB)
50	QPSK	1	1	10.01	10.20	10.02	11.5 0.0
Channel				631334	633334	635334	Tune-up limit MPR
Frequency (MHz)				3470.01	3500.01	3503.01	(dB)
40	QPSK	1	1	9.99	10.15	10.08	11.5 0.0
Channel				631000	633334	635668	Tune-up limit MPR
Frequency (MHz)				3465	3500.01	3505.02	(dB)
30	QPSK	1	1	9.98	10.10	10.07	11.5 0.0
Channel				630668	633334	636000	Tune-up limit MPR
Frequency (MHz)				3460.02	3500.01	3540	(dB)
20	QPSK	1	1	10.09	10.20	10.07	11.5 0.0



n7 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	9.62	9.78	9.64			
40	PI/2 BPSK	1	108	9.69	9.80	9.66	10.5	0.0	
40	PI/2 BPSK	1	214	9.62	9.71	9.73			
40	PI/2 BPSK	108	0	9.69	9.72	9.71	10.5	0.0	
40	PI/2 BPSK	108	54	9.66	9.82	9.63	10.5	0.0	
40	PI/2 BPSK	108	108	9.61	9.84	9.71			
40	PI/2 BPSK	216	0	9.62	9.81	9.62	10.5	0.0	
40	QPSK	1	1	9.74	9.88	9.76			
40	QPSK	1	108	9.61	9.76	9.66	10.5	0.0	
40	QPSK	1	214	9.63	9.81	9.68			
40	QPSK	108	0	9.65	9.70	9.70	10.5	0.0	
40	QPSK	108	54	9.56	9.85	9.59	10.5	0.0	
40	QPSK	108	108	9.64	9.77	9.64			
40	QPSK	216	0	9.63	9.73	9.65	10.5	0.0	
40	16QAM	1	1	9.57	9.84	9.59	10.5	0.0	
40	64QAM	1	1	9.56	9.75	9.73	10.5	0.0	
40	256QAM	1	1	9.57	9.80	9.59	10.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	10.5	0.0	
30	QPSK	1	1	9.65	9.75	9.67			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	10.5	0.0	
25	QPSK	1	1	9.64	9.78	9.61			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	10.5	0.0	
20	PI/2 BPSK	1	1	9.61	9.72	9.71			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	10.5	0.0	
15	QPSK	1	1	9.63	9.74	9.65			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	10.5	0.0	
10	QPSK	1	1	9.66	9.77	9.65			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	10.5	0.0	
5	QPSK	1	1	9.62	9.83	9.64			

n66 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	14.21	14.29	14.11			
40	PI/2 BPSK	1	108	14.07	14.27	14.05	15.0	0.0	
40	PI/2 BPSK	1	214	14.17	14.28	14.12			
40	PI/2 BPSK	108	0	14.18	14.22	14.12	15.0	0.0	
40	PI/2 BPSK	108	54	14.13	14.24	14.09	15.0	0.0	
40	PI/2 BPSK	108	108	14.10	14.28	14.19			
40	PI/2 BPSK	216	0	14.19	14.23	14.16	15.0	0.0	
40	QPSK	1	1	14.25	14.38	14.23			
40	QPSK	1	108	14.12	14.36	14.06	15.0	0.0	
40	QPSK	1	214	14.18	14.23	14.08			
40	QPSK	108	0	14.14	14.29	14.18	15.0	0.0	
40	QPSK	108	54	14.13	14.32	14.13	15.0	0.0	
40	QPSK	108	108	14.10	14.21	14.07			
40	QPSK	216	0	14.07	14.23	14.21	15.0	0.0	
40	16QAM	1	1	14.19	14.30	14.10	15.0	0.0	
40	64QAM	1	1	14.21	14.24	14.06	15.0	0.0	
40	256QAM	1	1	14.13	14.34	14.05	15.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	15.0	0.0	
30	QPSK	1	1	14.18	14.25	14.12			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	15.0	0.0	
20	QPSK	1	1	14.17	14.31	14.10			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	15.0	0.0	
15	QPSK	1	1	14.16	14.32	14.10			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	15.0	0.0	
10	QPSK	1	1	14.21	14.21	14.19			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	15.0	0.0	
5	QPSK	1	1	14.20	14.24	14.18			



WIFI&BT Power

2.4GHz WLAN				Full power Ant 10		Sensor on Ant 10		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	17.11	18.50	11.15	13.00	100.00	
	6	2437	17.06	18.50	11.23	13.00		
	11	2462	17.24	19.50	11.31	13.00		
802.11g 6Mbps	1	2412	15.70	17.00	Not Required	13.00	98.28	
	6	2437	15.83	17.00				
	11	2462	15.84	17.00				
802.11n-HT20 MCS0	1	2412	13.60	15.00			13.00	98.16
	6	2437	13.62	15.00				
	11	2462	13.73	15.00				
802.11n-HT40 MCS0	3	2422	12.31	13.50			13.00	94.93
	6	2437	12.60	13.50				
	9	2452	11.02	13.00				

5.2GHz WLAN				Full power Ant 10		Sensor on Ant 10		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	15.76	17.00	Not Required	12.00	98.28	
	40	5200	15.70	17.00				
	44	5220	15.34	17.00				
802.11n-HT20 MCS0	48	5240	15.26	17.00			12.00	98.16
	36	5180	14.53	16.00				
	40	5200	14.37	16.00				
802.11n-HT40 MCS0	44	5220	14.15	15.50			12.00	96.32
	48	5240	14.02	15.50				
	36	5180	15.47	17.00				
802.11ac-VHT20 MCS0	46	5230	15.41	17.00	12.00	98.16		
	36	5180	13.73	15.00				
	40	5200	13.66	15.00				
802.11ac-VHT40 MCS0	44	5220	13.36	15.00	12.00	96.32		
	48	5240	13.33	15.00				
	38	5190	12.44	14.00				
802.11ac-VHT80 MCS0	46	5230	12.04	13.50	12.00	93.00		
802.11ac-VHT80 MCS0	42	5210	12.21	13.50	10.72	12.00	93.00	

5.3GHz WLAN				Full power Ant 10		Sensor on Ant 10		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	52	5260	15.10	17.00	Not Required	12.00	98.28	
	56	5280	14.99	17.00				
	60	5300	15.57	17.00				
802.11n-HT20 MCS0	64	5320	15.76	17.00			12.00	98.16
	52	5260	14.00	16.00				
	56	5280	13.79	16.00				
802.11n-HT40 MCS0	60	5300	14.43	16.00			12.00	96.32
	64	5320	14.43	16.00				
	54	5270	14.84	15.50				
802.11ac-VHT20 MCS0	82	5310	15.53	17.00	12.00	98.16		
	52	5260	13.22	15.00				
	56	5280	13.16	15.00				
802.11ac-VHT40 MCS0	60	5300	13.60	15.00	12.00	96.32		
	64	5320	13.86	15.00				
	54	5270	12.10	14.00				
802.11ac-VHT80 MCS0	82	5310	12.40	14.00	12.00	93.00		
802.11ac-VHT80 MCS0	58	5290	11.84	13.50	10.59	12.00	93.00	

5.5GHz WLAN				Full power Ant 10		Sensor on Ant 10		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	15.48	17.00	Not Required	7.00	98.28	
	116	5580	15.86	17.50				
	124	5620	15.26	17.00				
	132	5660	15.56	17.00				
	140	5700	15.72	17.00				
	144	5720	15.63	17.00				
802.11n-HT20 MCS0	100	5500	14.27	16.00			7.00	98.16
	116	5580	14.52	16.00				
	124	5620	13.88	15.50				
	132	5660	14.53	16.00				
	140	5700	14.46	16.00				
	144	5720	14.43	16.00				
802.11n-HT40 MCS0	102	5510	15.36	17.00			7.00	96.32
	110	5550	15.37	17.00				
	126	5630	15.03	16.50				
	134	5670	15.34	17.00				
	142	5710	15.54	17.00				
	100	5500	13.73	15.00				
802.11ac-VHT20 MCS0	116	5580	13.87	15.00	7.00	98.16		
	124	5620	13.37	15.00				
	132	5660	13.66	15.00				
	140	5700	13.64	15.00				
	144	5720	13.81	15.00				
	102	5510	12.64	14.00				
802.11ac-VHT40 MCS0	110	5550	12.92	14.50	7.00	96.32		
	126	5630	12.13	13.50				
	134	5670	12.44	14.00				
	142	5710	12.67	14.00				
	106	5530	12.69	14.00				
	122	5610	11.93	13.50				
802.11ac-VHT80 MCS0	138	5690	12.10	13.50	5.88	7.00	93.00	
138	5690	12.10	13.50	8.89	7.00			

5.8GHz WLAN				Full power Ant 10		Sensor on Ant 10		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	15.59	17.00	Not Required	8.50	98.28	
	157	5785	15.50	17.00				
	165	5825	15.54	17.00				
802.11n-HT20 MCS0	149	5745	14.30	15.50			8.50	98.16
	157	5785	14.20	15.50				
	165	5825	14.16	15.50				
802.11n-HT40 MCS0	151	5755	15.27	16.50			8.50	96.32
	159	5795	15.18	16.50				
	149	5745	13.65	15.00				
802.11ac-VHT20 MCS0	157	5785	13.57	15.00			8.50	98.16
	165	5825	13.54	15.00				
	151	5755	12.24	13.50				
802.11ac-VHT40 MCS0	159	5795	12.13	13.50			8.50	96.32
	155	5775	11.83	13.50				

BR/EDR		Ant 10				
Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-up Limit	
BR / EDR	CH 00	2402	1Mbps	1.50	1.76	6.00
	CH 39	2441	3.89	0.71	0.54	5.00
	CH 76	2480	3.98	0.68	0.61	5.00

BT LE		Ant 10	
Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	GFSK
	CH 19	2440	4.92
	CH 39	2480	3.69
	Tune-up Limit		3.88
			5.50

BT LE		Ant 10	
Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	5.12
	CH 19	2440	3.66
	CH 39	2480	3.91
	Tune-up Limit		5.50