



Default Power for WWAN Main PA

GSM850	GSM850 Ant0 Default			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst-Average Power (dBm)	128	189		251	128	189	
Tx Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.93	33.09	33.05	34.00	23.93	24.09	24.05	25.00
GPRS 1 Tx slot	32.97	33.13	33.07	34.00	23.97	24.13	24.07	25.00
GPRS 2 Tx slots	30.09	30.12	30.04	31.00	24.09	24.12	24.04	25.00
GPRS 3 Tx slots	28.23	28.34	28.19	29.20	23.97	24.08	23.93	24.94
GPRS 4 Tx slots	26.91	26.95	26.88	28.00	23.91	23.95	23.88	25.00
EDGE 1 Tx slot	27.01	27.13	27.08	28.00	18.01	18.13	18.08	19.00
EDGE 2 Tx slots	24.17	24.25	24.10	25.00	18.17	18.25	18.10	19.00
EDGE 3 Tx slots	22.31	22.41	22.28	23.20	18.05	18.15	18.02	18.94
EDGE 4 Tx slots	21.12	21.17	21.04	22.00	18.12	18.17	18.04	19.00

Band	WCDMA V Ant0 Default			Tune-up Limit (dBm)
	4192	4182	4233	
Tx Channel	4192	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	824.2	836.4	848.8	
3GPP Rel 99 AMR 12.2kbps	23.98	24.11	24.08	25.00
3GPP Rel 99 RMC 12.2kbps	24.04	24.16	24.13	25.00
3GPP Rel 6 HSDPA Subtest-1	23.15	23.15	23.11	24.00
3GPP Rel 6 HSDPA Subtest-2	23.09	23.15	23.07	24.00
3GPP Rel 6 HSDPA Subtest-3	22.54	22.69	22.61	23.50
3GPP Rel 6 HSDPA Subtest-4	22.56	22.63	22.57	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.03	23.14	23.10	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	23.04	23.14	23.06	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.45	22.60	22.53	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.43	22.56	22.50	23.50
3GPP Rel 6 HSUPA Subtest-1	22.98	23.03	23.05	24.00
3GPP Rel 6 HSUPA Subtest-2	21.08	21.21	21.06	22.00
3GPP Rel 6 HSUPA Subtest-3	22.09	22.26	22.21	23.00
3GPP Rel 6 HSUPA Subtest-4	21.06	21.11	21.03	22.00
3GPP Rel 6 HSUPA Subtest-5	23.02	23.11	23.05	24.00
3GPP Rel 7 HSPA+ (E-UMTS) Subtest-1	20.57	20.76	20.64	21.50



GSM850 Ant1 Default								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM 1 Tx slot	32.02	32.11	32.02	33.50	23.02	23.11	23.02	24.50
GPRS 1 Tx slot	32.05	32.16	32.08	33.50	23.05	23.16	23.08	24.50
GPRS 2 Tx slots	29.21	29.24	29.17	30.50	23.21	23.24	23.17	24.50
GPRS 3 Tx slots	27.40	27.44	27.34	28.50	23.14	23.18	23.08	24.50
GPRS 4 Tx slots	25.67	26.07	26.00	27.50	22.67	23.07	23.00	24.50
EDGE 1 Tx slot	28.21	28.25	28.11	27.50	17.21	17.25	17.11	18.50
EDGE 2 Tx slots	23.24	23.29	23.16	24.50	17.24	17.29	17.16	18.50
EDGE 3 Tx slots	21.40	21.53	21.48	22.70	17.14	17.27	17.22	18.44
EDGE 4 Tx slots	20.15	20.28	20.24	21.50	17.15	17.28	17.24	18.50

GSM1900 Ant1 Default								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
GSM 1 Tx slot	28.13	28.19	28.15	30.00	19.13	19.19	19.15	21.00
GPRS 1 Tx slot	28.16	28.24	28.22	30.00	19.16	19.24	19.22	21.00
GPRS 2 Tx slots	25.27	25.31	25.25	27.00	19.27	19.31	19.25	21.00
GPRS 3 Tx slots	23.88	23.96	23.87	25.20	19.82	19.70	19.61	20.94
GPRS 4 Tx slots	22.35	22.47	22.37	24.00	19.35	19.47	19.37	21.00
EDGE 1 Tx slot	24.79	24.69	24.62	26.00	15.79	15.69	15.62	17.00
EDGE 2 Tx slots	21.87	22.07	21.93	23.00	15.97	16.07	15.93	17.00
EDGE 3 Tx slots	19.90	20.03	19.89	21.20	15.64	15.77	15.63	16.94
EDGE 4 Tx slots	19.20	19.28	19.21	20.00	16.20	16.28	16.21	17.00

Band TX Channel Frequency (MHz)	WCDMA I Ant1 Default			Tune-up Limit (dBm)	WCDMA IV Ant1 Default			Tune-up Limit (dBm)	WCDMA V Ant1 Default			Tune-up Limit (dBm)
	9682	9400	9538		1312	1413	1513		4132	4162	4233	
3GPP Rel 99 AMR 12.2Kbps	22.02	22.09	22.01	24.00	22.02	22.12	22.07	24.00	23.22	23.32	23.29	25.00
3GPP Rel 99 RMC 12.2Kbps	22.05	22.12	22.03	24.00	22.10	22.19	22.13	24.00	23.27	23.36	23.35	25.00
3GPP Rel 6 HSDPA Subtest-1	21.06	21.14	21.06	23.00	21.15	21.23	21.20	23.00	22.36	22.34	22.35	24.00
3GPP Rel 6 HSDPA Subtest-2	21.01	21.11	21.03	23.00	21.06	21.09	21.06	23.00	22.23	22.35	22.31	24.00
3GPP Rel 6 HSDPA Subtest-3	20.58	20.60	20.60	22.50	20.60	20.69	20.65	22.50	21.76	21.84	21.88	23.50
3GPP Rel 6 HSDPA Subtest-4	20.53	20.59	20.57	22.50	20.50	20.61	20.55	22.50	21.72	21.85	21.83	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	21.03	21.05	21.03	23.00	21.04	21.16	21.09	23.00	22.28	22.31	22.34	24.00
3GPP Rel 6 DC-HSDPA Subtest-2	21.03	21.02	21.03	23.00	21.16	21.13	21.02	23.00	22.17	22.29	22.19	24.00
3GPP Rel 6 DC-HSDPA Subtest-3	20.52	20.55	20.58	22.50	20.56	20.59	20.52	22.50	21.73	21.81	21.66	23.50
3GPP Rel 6 DC-HSDPA Subtest-4	20.56	20.69	20.59	22.50	20.56	20.60	20.54	22.50	21.65	21.82	21.72	23.50
3GPP Rel 6 HSUPA Subtest-1	21.12	21.03	21.01	23.00	21.01	21.10	21.01	23.00	22.15	22.22	22.19	24.00
3GPP Rel 6 HSUPA Subtest-2	19.07	19.06	19.08	21.00	19.11	19.16	19.05	21.00	20.24	20.38	20.35	22.00
3GPP Rel 6 HSUPA Subtest-3	20.11	20.14	20.18	22.00	20.13	20.24	20.24	22.00	21.39	21.45	21.43	23.00
3GPP Rel 6 HSUPA Subtest-4	19.02	19.00	19.03	21.00	19.08	19.03	19.07	21.00	20.20	20.24	20.28	22.00
3GPP Rel 6 HSUPA Subtest-5	21.01	21.01	21.07	23.00	21.06	21.11	21.04	23.00	22.14	22.33	22.18	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	18.63	18.75	18.58	20.50	18.62	18.70	18.63	20.50	19.78	20.00	19.84	21.50



GSM1900 Ant2 Default

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	182.2	183.0	183.8	31.00	182.2	183.0	183.8	31.00
GSM 1 Tx slots	29.89	29.95	29.93	31.00	29.89	29.95	29.93	22.00
GPRS 1 Tx slots	29.92	30.01	29.95	31.00	29.92	21.01	20.95	22.00
GPRS 2 Tx slots	27.08	27.11	27.03	28.00	21.08	21.11	21.03	22.00
GPRS 3 Tx slots	25.21	25.24	25.26	26.20	20.95	21.08	21.00	21.94
GPRS 4 Tx slots	23.92	24.02	23.90	25.00	20.92	21.02	20.90	22.00
EDGE 1 Tx slots	26.15	26.26	26.18	27.00	17.15	17.26	17.18	18.00
EDGE 2 Tx slots	23.38	23.44	23.35	24.00	17.38	17.44	17.35	18.00
EDGE 3 Tx slots	21.53	21.58	21.50	22.20	17.27	17.39	17.24	17.94
EDGE 4 Tx slots	20.54	20.68	20.60	21.00	17.54	17.68	17.60	18.00

WCDMA II Ant2 Default

WCDMA IV Ant2 Default

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
RX Channel	9662	9800	9938	1537	1638	1738		
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99 AMR 12.2Kbps	23.47	23.56	23.53	25.00	23.43	23.55	23.49	25.00
3GPP Rel 99 RMC 12.2Kbps	23.59	23.61	23.56	25.00	23.50	23.57	23.52	25.00
3GPP Rel 6 HSDPA Subtest-1	22.48	22.59	22.63	24.00	22.52	22.58	22.56	24.00
3GPP Rel 6 HSDPA Subtest-2	22.54	22.63	22.56	24.00	22.57	22.60	22.55	24.00
3GPP Rel 6 HSDPA Subtest-3	22.09	22.11	22.02	23.50	22.07	22.16	22.02	23.50
3GPP Rel 6 HSDPA Subtest-4	22.00	22.02	22.00	23.50	21.94	22.01	22.03	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	22.56	22.53	22.57	24.00	22.54	22.59	22.50	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.48	22.55	22.46	24.00	22.47	22.55	22.43	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	21.86	22.05	21.93	23.50	21.94	22.08	21.93	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	21.90	22.02	21.96	23.50	21.82	21.96	21.89	23.50
3GPP Rel 6 HSUPA Subtest-1	22.34	22.47	22.50	24.00	22.41	22.49	22.50	24.00
3GPP Rel 6 HSUPA Subtest-2	20.56	20.65	20.56	22.00	20.58	20.64	20.57	22.00
3GPP Rel 6 HSUPA Subtest-3	21.62	21.71	21.68	23.00	21.62	21.63	21.60	23.00
3GPP Rel 6 HSUPA Subtest-4	20.46	20.50	20.51	22.00	20.46	20.59	20.42	22.00
3GPP Rel 6 HSUPA Subtest-5	22.39	22.60	22.42	24.00	22.40	22.59	22.45	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.07	20.14	20.08	21.50	20.11	20.21	20.06	21.50



Band 41 Main PA Ant3

Band	BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High-Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
20	Channel				39750	40185	40620	41055	41490	24.5	0
	Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
	20	QPSK	1	0	23.12	23.10	23.25	23.20	23.06		
	20	QPSK	1	49	23.03	22.88	23.12	23.07	23.03		
	20	QPSK	1	99	23.01	22.97	23.12	22.97	23.02		
	20	QPSK	50	0	22.28	22.20	22.41	22.28	22.26		
	20	QPSK	50	24	22.23	22.15	22.30	22.28	22.13		
	20	QPSK	50	50	22.17	22.12	22.24	22.18	22.05		
	20	QPSK	100	0	22.18	22.15	22.30	22.13	22.12		
	20	16QAM	1	0	22.11	22.17	22.17	22.13	22.00		
	20	16QAM	1	49	22.14	22.05	22.19	22.13	22.01		
	20	16QAM	1	99	22.02	22.06	22.14	22.11	21.94		
	20	16QAM	50	0	21.17	21.24	21.26	21.23	21.11		
	20	16QAM	50	24	21.07	21.09	21.18	21.14	21.08		
	20	16QAM	50	50	21.17	21.11	21.27	21.19	21.08		
	20	16QAM	100	0	21.06	21.08	21.13	21.05	20.95		
	20	64QAM	1	0	20.85	20.86	20.97	20.85	20.86		
	20	64QAM	1	49	20.71	20.78	20.83	20.84	20.70		
	20	64QAM	1	99	20.78	20.68	20.89	20.78	20.79		
	20	64QAM	50	0	20.18	20.12	20.25	20.20	20.07		
20	64QAM	50	24	20.08	20.08	20.21	20.11	20.06			
20	64QAM	50	50	20.16	20.27	20.26	20.15	20.16			
20	64QAM	100	0	20.07	20.03	20.11	20.16	19.98			
15	Channel				39725	40173	40620	41068	41515	25	0
	Frequency (MHz)				2503.5	2546.3	2593	2637.6	2682.5		
	15	QPSK	1	0	23.08	23.04	23.20	23.06	22.92		
	15	QPSK	1	37	22.99	22.85	23.04	23.01	22.95		
	15	QPSK	1	74	22.94	22.89	23.01	22.90	22.88		
	15	QPSK	36	0	22.21	22.06	22.29	22.17	22.22		
	15	QPSK	36	20	22.13	22.08	22.16	22.24	22.04		
	15	QPSK	36	39	22.03	22.05	22.19	22.05	21.91		
	15	QPSK	75	0	22.10	22.11	22.15	21.99	22.06		
	15	16QAM	1	0	22.05	22.11	22.07	22.08	21.95		
	15	16QAM	1	37	22.04	21.95	22.06	22.03	21.90		
	15	16QAM	1	74	21.87	21.84	22.00	22.05	21.89		
	15	16QAM	36	0	21.09	21.16	21.15	21.13	20.96		
	15	16QAM	36	20	21.02	20.88	21.08	21.04	21.02		
	15	16QAM	36	39	21.03	21.02	21.24	21.11	21.04		
	15	16QAM	75	0	20.93	21.00	20.98	20.90	20.88		
	15	64QAM	1	0	20.73	20.75	20.89	20.76	20.80		
	15	64QAM	1	37	20.61	20.74	20.73	20.74	20.59		
	15	64QAM	1	74	20.73	20.58	20.75	20.71	20.67		
	15	64QAM	36	0	20.08	20.05	20.17	20.09	20.02		
15	64QAM	36	20	20.02	20.01	20.17	19.97	20.00			
15	64QAM	36	39	20.04	20.16	20.18	20.09	20.06			
15	64QAM	75	0	19.99	19.94	20.01	20.10	19.87			
10	Channel				39700	40160	40620	41080	41540	25	0
	Frequency (MHz)				2501	2547	2593	2639	2685		
	10	QPSK	1	0	23.01	22.98	23.15	23.09	22.92		
	10	QPSK	1	25	22.91	22.93	23.03	22.93	22.97		
	10	QPSK	1	49	22.93	22.84	23.08	22.88	22.97		
	10	QPSK	25	0	22.12	22.10	22.38	22.17	22.18		
	10	QPSK	25	12	22.16	22.09	22.17	22.16	22.09		
	10	QPSK	25	25	22.10	21.96	22.19	22.09	22.02		
	10	QPSK	50	0	22.10	22.11	22.24	22.09	22.02		
	10	16QAM	1	0	21.97	22.03	22.08	22.09	21.89		
	10	16QAM	1	25	22.03	22.01	22.09	22.00	21.91		
	10	16QAM	1	49	21.90	22.02	22.06	22.06	21.90		
	10	16QAM	25	0	21.11	21.12	21.19	21.13	20.98		
	10	16QAM	25	12	20.99	21.04	21.04	21.02	21.05		
	10	16QAM	25	25	21.12	20.97	21.13	21.09	21.00		
	10	16QAM	50	0	21.02	20.97	21.05	20.94	20.87		
	10	64QAM	1	0	20.80	20.79	20.85	20.71	20.77		
	10	64QAM	1	25	20.57	20.86	20.78	20.76	20.56		
	10	64QAM	1	49	20.65	20.61	20.75	20.65	20.71		
	10	64QAM	25	0	20.09	20.07	20.14	20.09	20.01		
10	64QAM	25	12	20.02	19.99	20.17	19.96	19.98			
10	64QAM	25	25	20.04	20.19	20.13	20.00	20.04			
10	64QAM	50	0	20.00	19.92	20.02	20.02	19.88			
5	Channel				39675	40148	40620	41093	41565	25	0
	Frequency (MHz)				2498.5	2545.3	2593	2639.3	2687.5		
	5	QPSK	1	0	23.00	23.04	23.20	23.13	22.98		
	5	QPSK	1	12	22.94	22.90	23.01	22.93	23.00		
	5	QPSK	1	24	22.98	22.82	23.07	22.88	22.98		
	5	QPSK	12	0	22.22	22.15	22.33	22.23	22.21		
	5	QPSK	12	7	22.11	22.11	22.26	22.18	22.10		
	5	QPSK	12	13	22.05	22.06	22.18	22.14	21.94		
	5	QPSK	25	0	22.15	22.08	22.28	22.09	22.01		
	5	16QAM	1	0	22.03	22.13	22.12	22.07	21.91		
	5	16QAM	1	12	22.09	21.95	22.10	22.05	21.87		
	5	16QAM	1	24	21.90	21.92	22.05	22.05	21.86		
	5	16QAM	12	0	21.07	21.14	21.20	21.12	21.07		
	5	16QAM	12	7	20.95	20.98	21.13	21.01	21.02		
	5	16QAM	12	13	21.05	20.98	21.20	21.13	20.98		
	5	16QAM	25	0	20.92	21.02	21.00	20.96	20.87		
	5	64QAM	1	0	20.77	20.78	20.89	20.76	20.80		
	5	64QAM	1	12	20.60	20.68	20.71	20.71	20.61		
	5	64QAM	1	24	20.70	20.59	20.78	20.70	20.65		
	5	64QAM	12	0	20.08	20.01	20.11	20.11	20.02		
5	64QAM	12	7	20.04	19.97	20.13	19.97	19.95			
5	64QAM	12	13	20.09	20.18	20.20	20.03	20.07			
5	64QAM	25	0	19.97	19.95	20.08	20.08	19.89			



Band 42 FCC Part27Q Main PA Ant5									
BW [MHz]	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	25.00	25.05	24.97	25.5	0	
20	QPSK	1	49	24.86	24.94	24.84			
20	QPSK	1	99	24.75	24.89	24.83			
20	QPSK	50	0	23.85	23.98	23.91	24.5	1	
20	QPSK	50	24	23.76	23.86	23.83			
20	QPSK	50	50	23.79	23.87	23.78			
20	QPSK	100	0	23.80	23.89	23.81	24.5	1	
20	16QAM	1	0	23.89	23.77	23.71			
20	16QAM	1	49	23.66	23.71	23.62			
20	16QAM	1	99	23.63	23.72	23.57	23.5	2	
20	16QAM	50	0	22.84	23.03	22.92			
20	16QAM	50	24	22.81	22.91	22.83			
20	16QAM	50	50	22.92	22.98	22.86	23.5	2	
20	16QAM	100	0	22.84	22.86	22.74			
20	64QAM	1	0	22.81	22.75	22.64			
20	64QAM	1	49	22.57	22.67	22.63	23.5	2	
20	64QAM	1	99	22.53	22.57	22.53			
20	64QAM	50	0	21.86	21.89	21.81			
20	64QAM	50	24	21.62	21.74	21.64	22.5	3	
20	64QAM	50	50	21.61	21.75	21.69			
20	64QAM	100	0	21.65	21.72	21.61			
Channel				42165	42590	43015			
Frequency (MHz)				347.5	3500	3542.5			
15	QPSK	1	0	24.92	24.98	24.84	25.5	0	
15	QPSK	1	37	24.75	24.87	24.70			
15	QPSK	1	74	24.71	24.78	24.70			
15	QPSK	36	0	23.75	23.92	23.82	24.5	1	
15	QPSK	36	20	23.61	23.74	23.73			
15	QPSK	36	39	23.68	23.83	23.70			
15	QPSK	75	0	23.66	23.82	23.70	24.5	1	
15	16QAM	1	0	23.54	23.70	23.59			
15	16QAM	1	37	23.53	23.60	23.59			
15	16QAM	1	74	23.49	23.57	23.48	23.5	2	
15	16QAM	36	0	22.91	22.99	22.90			
15	16QAM	36	20	22.71	22.81	22.73			
15	16QAM	36	39	22.80	22.89	22.79	23.5	2	
15	16QAM	75	0	22.76	22.81	22.64			
15	64QAM	1	0	22.55	22.68	22.60			
15	64QAM	1	37	22.50	22.64	22.50	23.5	2	
15	64QAM	1	74	22.45	22.45	22.44			
15	64QAM	36	0	21.73	21.83	21.71			
15	64QAM	36	20	21.57	21.68	21.58	22.5	3	
15	64QAM	36	39	21.52	21.68	21.54			
15	64QAM	75	0	21.62	21.60	21.51			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	24.08	24.96	24.82	25.5	0	
10	QPSK	1	25	24.79	24.86	24.77			
10	QPSK	1	49	24.61	24.81	24.79			
10	QPSK	25	0	23.80	23.93	23.80	24.5	1	
10	QPSK	25	12	23.72	23.83	23.68			
10	QPSK	25	25	23.66	23.76	23.66			
10	QPSK	50	0	23.73	23.85	23.74	24.5	1	
10	16QAM	1	0	23.56	23.67	23.67			
10	16QAM	1	25	23.58	23.60	23.56			
10	16QAM	1	49	23.58	23.67	23.42	23.5	2	
10	16QAM	25	0	22.83	22.94	22.89			
10	16QAM	25	12	22.88	22.82	22.70			
10	16QAM	25	25	22.85	22.93	22.76	23.5	2	
10	16QAM	50	0	22.79	22.85	22.69			
10	64QAM	1	0	22.55	22.67	22.52			
10	64QAM	1	25	22.52	22.59	22.58	23.5	2	
10	64QAM	1	49	22.45	22.48	22.46			
10	64QAM	25	0	21.78	21.82	21.75			
10	64QAM	25	12	21.58	21.59	21.59	22.5	3	
10	64QAM	25	25	21.50	21.69	21.61			
10	64QAM	50	0	21.60	21.63	21.53			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	24.89	24.93	24.82	25.5	0	
5	QPSK	1	12	24.80	24.87	24.77			
5	QPSK	1	24	24.66	24.75	24.72			
5	QPSK	12	0	23.74	23.94	23.84	24.5	1	
5	QPSK	12	7	23.62	23.72	23.72			
5	QPSK	12	13	23.75	23.81	23.75			
5	QPSK	25	0	23.75	23.77	23.74	24.5	1	
5	16QAM	1	0	23.58	23.74	23.57			
5	16QAM	1	12	23.56	23.56	23.53			
5	16QAM	1	24	23.58	23.67	23.43	23.5	2	
5	16QAM	12	0	22.85	22.94	22.77			
5	16QAM	12	7	22.88	22.87	22.71			
5	16QAM	12	13	22.86	22.84	22.71	23.5	2	
5	16QAM	25	0	22.72	22.84	22.68			
5	64QAM	1	0	22.48	22.65	22.50			
5	64QAM	1	12	22.46	22.62	22.57	23.5	2	
5	64QAM	1	24	22.49	22.47	22.44			
5	64QAM	12	0	21.77	21.86	21.72			
5	64QAM	12	7	21.56	21.61	21.58	22.5	3	
5	64QAM	12	13	21.57	21.64	21.60			
5	64QAM	25	0	21.53	21.68	21.58			



Band 42 FCC Part27Q Main PA Ant6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	24.73	24.77	24.68	25.5	0	
20	QPSK	1	49	24.65	24.69	24.61			
20	QPSK	1	99	24.56	24.64	24.59			
20	QPSK	50	0	23.85	23.72	23.84	24.5	1	
20	QPSK	50	24	23.57	23.66	23.55			
20	QPSK	50	50	23.55	23.61	23.57			
20	QPSK	100	0	23.51	23.63	23.54	24.5	1	
20	16QAM	1	0	23.52	23.58	23.52			
20	16QAM	1	49	23.43	23.52	23.48			
20	16QAM	1	99	23.34	23.48	23.40	23.5	2	
20	16QAM	50	0	22.58	22.67	22.57			
20	16QAM	50	24	22.55	22.59	22.50			
20	16QAM	50	50	22.54	22.63	22.49	23.5	2	
20	16QAM	100	0	22.43	22.57	22.46			
20	64QAM	1	0	22.40	22.44	22.40			
20	64QAM	1	49	22.29	22.38	22.35	23.5	2	
20	64QAM	1	99	22.19	22.34	22.24			
20	64QAM	50	0	21.63	21.67	21.60			
20	64QAM	50	24	21.45	21.58	21.53	22.5	3	
20	64QAM	50	50	21.48	21.63	21.58			
20	64QAM	100	0	21.45	21.55	21.49			
Channel				42165	42590	43015			
Frequency (MHz)				347.5	3500	3542.5			
15	QPSK	1	0	24.70	24.73	24.65	25.5	0	
15	QPSK	1	37	24.58	24.55	24.47			
15	QPSK	1	74	24.52	24.55	24.48			
15	QPSK	36	0	23.54	23.59	23.55	24.5	1	
15	QPSK	36	20	23.47	23.59	23.46			
15	QPSK	36	39	23.47	23.49	23.47			
15	QPSK	75	0	23.44	23.50	23.49	24.5	1	
15	16QAM	1	0	23.45	23.49	23.46			
15	16QAM	1	37	23.33	23.44	23.35			
15	16QAM	1	74	23.30	23.42	23.32	23.5	2	
15	16QAM	36	0	22.48	22.56	22.53			
15	16QAM	36	20	22.47	22.48	22.38			
15	16QAM	36	39	22.46	22.53	22.40	23.5	2	
15	16QAM	75	0	22.31	22.46	22.43			
15	64QAM	1	0	22.29	22.40	22.37			
15	64QAM	1	37	22.19	22.27	22.23	23.5	2	
15	64QAM	1	74	22.11	22.27	22.19			
15	64QAM	36	0	21.49	21.55	21.46			
15	64QAM	36	20	21.38	21.49	21.39	22.5	3	
15	64QAM	36	39	21.40	21.55	21.53			
15	64QAM	75	0	21.32	21.51	21.38			
Channel				42140	42590	43040			
Frequency (MHz)				3465	3500	3545			
10	QPSK	1	0	24.63	24.66	24.65	25.5	0	
10	QPSK	1	25	24.54	24.55	24.51			
10	QPSK	1	49	24.62	24.53	24.55			
10	QPSK	25	0	23.57	23.57	23.56	24.5	1	
10	QPSK	25	12	23.54	23.58	23.47			
10	QPSK	25	25	23.51	23.51	23.46			
10	QPSK	50	0	23.38	23.57	23.49	24.5	1	
10	16QAM	1	0	23.40	23.51	23.39			
10	16QAM	1	25	23.36	23.45	23.34			
10	16QAM	1	49	23.28	23.33	23.36	23.5	2	
10	16QAM	25	0	22.54	22.54	22.51			
10	16QAM	25	12	22.46	22.49	22.39			
10	16QAM	25	25	22.40	22.57	22.43	23.5	2	
10	16QAM	50	0	22.34	22.53	22.42			
10	64QAM	1	0	22.30	22.33	22.34			
10	64QAM	1	25	22.22	22.28	22.32	23.5	2	
10	64QAM	1	49	22.05	22.20	22.19			
10	64QAM	25	0	21.55	21.55	21.49			
10	64QAM	25	12	21.35	21.53	21.45	22.5	3	
10	64QAM	25	25	21.43	21.54	21.52			
10	64QAM	50	0	21.40	21.49	21.40			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	24.68	24.70	24.64	25.5	0	
5	QPSK	1	12	24.62	24.64	24.58			
5	QPSK	1	24	24.45	24.57	24.52			
5	QPSK	12	0	23.61	23.62	23.56	24.5	1	
5	QPSK	12	7	23.49	23.51	23.48			
5	QPSK	12	13	23.51	23.57	23.53			
5	QPSK	25	0	23.40	23.51	23.40	24.5	1	
5	16QAM	1	0	23.40	23.45	23.39			
5	16QAM	1	12	23.31	23.47	23.41			
5	16QAM	1	24	23.23	23.45	23.29	23.5	2	
5	16QAM	12	0	22.49	22.52	22.44			
5	16QAM	12	7	22.51	22.51	22.36			
5	16QAM	12	13	22.47	22.54	22.45	23.5	2	
5	16QAM	25	0	22.29	22.43	22.45			
5	64QAM	1	0	22.28	22.41	22.29			
5	64QAM	1	12	22.22	22.23	22.26	23.5	2	
5	64QAM	1	24	22.10	22.26	22.13			
5	64QAM	12	0	21.50	21.55	21.46			
5	64QAM	12	7	21.32	21.46	21.38	22.5	3	
5	64QAM	12	13	21.44	21.55	21.44			
5	64QAM	25	0	21.32	21.47	21.40			



Band 42 FCC Part27Q Mian PA Ant7

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
20	QPSK 1 0	23.52	23.55	23.48	24.5
20	QPSK 1 49	23.32	23.44	23.38	
20	QPSK 1 99	23.36	23.43	23.36	
20	QPSK 50 0	22.45	22.50	22.40	23.5
20	QPSK 50 24	22.37	22.49	22.43	
20	QPSK 50 50	22.30	22.35	22.23	
20	QPSK 100 0	22.28	22.37	22.25	23.5
20	16QAM 1 0	22.28	22.37	22.33	
20	16QAM 1 49	22.29	22.33	22.39	
20	16QAM 1 99	22.13	22.25	22.12	22.5
20	16QAM 50 0	21.40	21.50	21.46	
20	16QAM 50 24	21.32	21.46	21.36	
20	16QAM 50 50	21.34	21.48	21.39	22.5
20	16QAM 100 0	21.21	21.34	21.26	
20	64QAM 1 0	21.35	21.42	21.33	
20	64QAM 1 49	21.27	21.35	21.26	22.5
20	64QAM 1 99	21.16	21.25	21.12	
20	64QAM 50 0	20.41	20.50	20.43	
20	64QAM 50 24	20.35	20.38	20.26	21.5
20	64QAM 50 50	20.32	20.46	20.33	
20	64QAM 100 0	20.26	20.35	20.28	
Channel					
Frequency (MHz)					
15	QPSK 1 0	23.44	23.50	23.43	24.5
15	QPSK 1 37	23.25	23.32	23.32	
15	QPSK 1 74	23.22	23.39	23.24	
15	QPSK 36 0	22.41	22.35	22.30	23.5
15	QPSK 36 20	22.28	22.36	22.35	
15	QPSK 36 39	22.17	22.31	22.16	
15	QPSK 75 0	22.24	22.32	22.11	23.5
15	16QAM 1 0	22.25	22.25	22.25	
15	16QAM 1 37	22.12	22.20	22.14	
15	16QAM 1 74	22.07	22.15	22.03	22.5
15	16QAM 36 0	21.31	21.37	21.37	
15	16QAM 36 20	21.29	21.38	21.29	
15	16QAM 36 39	21.31	21.34	21.31	22.5
15	16QAM 75 0	21.14	21.21	21.15	
15	64QAM 1 0	21.24	21.29	21.22	
15	64QAM 1 37	21.16	21.32	21.15	22.5
15	64QAM 1 74	21.11	21.22	21.00	
15	64QAM 36 0	20.33	20.46	20.30	
15	64QAM 36 20	20.25	20.29	20.22	21.5
15	64QAM 36 39	20.28	20.34	20.26	
15	64QAM 75 0	20.15	20.23	20.22	
Channel					
Frequency (MHz)					
10	QPSK 1 0	23.08	23.48	23.34	24.5
10	QPSK 1 25	23.18	23.29	23.29	
10	QPSK 1 49	23.31	23.32	23.33	
10	QPSK 25 0	22.33	22.38	22.36	23.5
10	QPSK 25 12	22.28	22.42	22.35	
10	QPSK 25 25	22.16	22.29	22.13	
10	QPSK 50 0	22.23	22.29	22.19	23.5
10	16QAM 1 0	22.17	22.33	22.26	
10	16QAM 1 25	22.11	22.18	22.12	
10	16QAM 1 49	22.00	22.13	21.98	22.5
10	16QAM 25 0	21.31	21.45	21.38	
10	16QAM 25 12	21.27	21.40	21.21	
10	16QAM 25 25	21.21	21.44	21.29	22.5
10	16QAM 50 0	21.09	21.24	21.18	
10	64QAM 1 0	21.24	21.31	21.20	
10	64QAM 1 25	21.23	21.28	21.21	22.5
10	64QAM 1 49	21.09	21.17	21.08	
10	64QAM 25 0	20.33	20.37	20.40	
10	64QAM 25 12	20.32	20.33	20.12	21.5
10	64QAM 25 25	20.22	20.33	20.26	
10	64QAM 50 0	20.15	20.25	20.18	
Channel					
Frequency (MHz)					
5	QPSK 1 0	23.45	23.48	23.35	24.5
5	QPSK 1 12	23.18	23.31	23.31	
5	QPSK 1 24	23.29	23.36	23.28	
5	QPSK 12 0	22.33	22.45	22.36	23.5
5	QPSK 12 7	22.29	22.45	22.36	
5	QPSK 12 13	22.26	22.28	22.10	
5	QPSK 25 0	22.25	22.32	22.17	23.5
5	16QAM 1 0	22.23	22.30	22.23	
5	16QAM 1 12	22.16	22.26	22.14	
5	16QAM 1 24	22.01	22.19	22.06	22.5
5	16QAM 12 0	21.36	21.46	21.41	
5	16QAM 12 7	21.24	21.33	21.22	
5	16QAM 12 13	21.28	21.36	21.26	22.5
5	16QAM 25 0	21.09	21.30	21.17	
5	64QAM 1 0	21.28	21.28	21.28	
5	64QAM 1 12	21.16	21.24	21.11	22.5
5	64QAM 1 24	21.02	21.21	21.00	
5	64QAM 12 0	20.34	20.37	20.29	
5	64QAM 12 7	20.20	20.24	20.21	21.5
5	64QAM 12 13	20.28	20.40	20.20	
5	64QAM 25 0	20.13	20.26	20.17	



DS10 Power for WWAN Main PA

GSM850	GSM850 An10 DS10						
	Burnt Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (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		824.2	836.4	848.8
GSM 1 Tx slots	32.93	33.09	33.05	34.00	23.93	24.09	24.05
GPRS-1 Tx slots	30.97	33.13	33.07	34.00	23.97	24.13	24.07
GPRS-2 Tx slots	30.09	30.12	30.04	31.00	24.09	24.12	24.04
GPRS-3 Tx slots	28.23	28.34	28.19	29.20	23.97	24.08	23.93
GPRS-4 Tx slots	28.91	28.95	28.88	28.00	23.91	23.95	23.88
EDGE-1 Tx slots	27.01	27.13	27.08	28.00	18.01	18.13	18.08
EDGE-2 Tx slots	24.17	24.25	24.10	25.00	18.17	18.25	18.10
EDGE-3 Tx slots	22.31	22.41	22.28	23.20	18.05	18.15	18.02
EDGE-4 Tx slots	21.12	21.17	21.04	22.00	18.12	18.17	18.04

Band	WCDMA V An10 DS10			
	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	4357	4407	4456	
Frequency (MHz)	825.4	836.4	845.6	
3GPP Rel 99 RMC 12.2Kbps	23.88	24.11	24.09	25.00
3GPP Rel 99 RMC 12.2Kbps	24.04	24.18	24.13	25.00
3GPP Rel 6 HSDPA Subtest-1	23.15	23.15	23.11	24.00
3GPP Rel 6 HSDPA Subtest-2	23.09	23.15	23.07	24.00
3GPP Rel 6 HSDPA Subtest-3	22.54	22.69	22.61	23.50
3GPP Rel 6 HSDPA Subtest-4	22.56	22.63	22.57	23.50
3GPP Rel 8 DCHSDPA Subtest-1	23.03	23.14	23.10	24.00
3GPP Rel 8 DCHSDPA Subtest-2	23.04	23.14	23.06	24.00
3GPP Rel 8 DCHSDPA Subtest-3	22.45	22.60	22.53	23.50
3GPP Rel 8 DCHSDPA Subtest-4	22.43	22.56	22.50	23.50
3GPP Rel 6 HSUPA Subtest-1	22.98	23.03	23.05	24.00
3GPP Rel 6 HSUPA Subtest-2	21.08	21.21	21.06	22.00
3GPP Rel 6 HSUPA Subtest-3	22.09	22.28	22.21	23.00
3GPP Rel 6 HSUPA Subtest-4	21.06	21.11	21.03	22.00
3GPP Rel 6 HSUPA Subtest-5	23.02	23.11	23.05	24.00
3GPP Rel 7 HSPA+ (E-UMTS) Subtest-1	20.57	20.76	20.64	21.50



GSM850 Ant1 DS1D

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta ± 0.5
	128	189	251		128	189	251		
Frequency (MHz)	52.52	52.54	52.53	32.00	32.42	32.44	32.43	23.00	
GSM 1 Tx slot	30.33	30.40	30.35	32.00	21.33	21.40	21.35	23.00	0.13
GPRS 1 Tx slot	30.33	30.46	30.40	32.00	21.33	21.46	21.40	23.00	
GPRS 2 Tx slots	27.55	27.49	27.50	29.00	21.55	21.49	21.50	23.00	0.06
GPRS 3 Tx slots	25.86	25.73	25.70	27.00	21.40	21.47	21.44	22.74	0.07
GPRS 4 Tx slots	24.02	24.26	24.15	26.00	21.22	21.28	21.15	23.00	0.13
EDGE 1 Tx slot	24.55	24.60	24.36	26.00	15.55	15.60	15.36	17.00	0.24
EDGE 2 Tx slots	21.56	21.54	21.52	23.00	15.56	15.54	15.52	17.00	0.04
EDGE 3 Tx slots	19.66	19.83	19.76	21.20	15.42	15.57	15.50	16.94	0.15
EDGE 4 Tx slots	18.41	18.60	18.49	20.00	15.41	15.60	15.49	17.00	0.19

GSM1900 Ant1 DS1D

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta ± 0.5
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1860	1869.8	18.00	18.50	18.60	18.69.8	17.00	
GSM 1 Tx slot	24.13	24.24	24.17	26.00	15.13	15.24	15.17	17.00	0.11
GPRS 1 Tx slot	24.17	24.21	24.19	26.00	15.17	15.21	15.19	17.00	
GPRS 2 Tx slots	21.24	21.28	21.23	23.00	15.24	15.28	15.23	17.00	0.05
GPRS 3 Tx slots	19.93	19.95	19.91	21.20	15.67	15.69	15.65	16.94	0.04
GPRS 4 Tx slots	18.37	18.50	18.35	20.00	15.37	15.52	15.35	17.00	0.17
EDGE 1 Tx slot	20.84	20.82	20.76	22.00	11.84	11.82	11.76	13.00	0.08
EDGE 2 Tx slots	17.91	18.02	17.89	19.00	11.91	12.02	11.89	13.00	0.13
EDGE 3 Tx slots	15.91	16.01	15.87	17.20	11.65	11.75	11.61	12.84	0.14
EDGE 4 Tx slots	15.24	15.23	15.22	16.00	12.24	12.23	12.22	13.00	0.02

WCDMA II Ant1 DS1D

WCDMA IV Ant1 DS1D

WCDMA V Ant1 DS1D

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4162	4233	
Frequency (MHz)	1850.2	1860	1869.8	18.00	1322.4	1329.6	1329.2	4357	4407	4468	4357	4357
3GPP Rel 99 AMR 12.2Kbps	15.57	15.60	15.52	17.50	17.54	17.57	17.60	19.50	21.60	21.69	21.61	23.50
3GPP Rel 99 RMC 12.2Kbps	15.56	15.65	15.58	17.50	17.63	17.67	17.63	19.50	21.62	21.72	21.63	23.50
3GPP Rel 6 HSDPA Subtest-1	14.71	14.69	14.66	16.50	16.60	16.75	16.66	18.50	20.63	20.67	20.71	22.50
3GPP Rel 6 HSDPA Subtest-2	14.65	14.67	14.59	16.50	16.60	16.62	16.61	19.50	20.75	20.74	20.71	22.50
3GPP Rel 6 HSDPA Subtest-3	14.11	14.17	14.20	16.00	16.11	16.13	16.10	18.00	20.16	20.25	20.26	22.00
3GPP Rel 6 HSDPA Subtest-4	14.15	14.18	14.18	16.00	16.03	16.16	16.08	18.00	20.12	20.15	20.22	22.00
3GPP Rel 6 DC-HSDPA Subtest-1	14.66	14.66	14.66	16.50	16.53	16.64	16.57	18.50	20.66	20.64	20.69	22.50
3GPP Rel 6 DC-HSDPA Subtest-2	14.65	14.67	14.67	16.50	16.71	16.67	16.52	19.50	20.54	20.64	20.62	22.50
3GPP Rel 6 DC-HSDPA Subtest-3	14.08	14.19	14.20	16.00	16.00	16.14	16.00	18.00	20.12	20.23	20.07	22.00
3GPP Rel 6 DC-HSDPA Subtest-4	14.21	14.27	14.14	16.00	16.11	16.25	16.09	18.00	20.00	20.17	20.12	22.00
3GPP Rel 6 HSUPA Subtest-1	14.76	14.67	14.58	16.50	16.56	16.67	16.58	18.50	20.62	20.59	20.59	22.50
3GPP Rel 6 HSUPA Subtest-2	12.67	12.63	12.67	14.50	14.67	14.73	14.68	16.50	18.66	18.68	18.79	20.50
3GPP Rel 6 HSUPA Subtest-3	13.70	13.71	13.77	15.50	15.78	15.80	15.90	17.50	19.74	19.88	19.80	21.50
3GPP Rel 6 HSUPA Subtest-4	12.86	12.63	12.61	14.50	14.68	14.60	14.62	16.50	18.59	18.56	18.76	20.50
3GPP Rel 6 HSUPA Subtest-5	14.80	14.65	14.72	16.50	16.71	16.76	16.66	18.50	20.45	20.74	20.65	22.50
3GPP Rel 7 HSPA+ (10QAM) Subtest-1	12.26	12.35	12.24	14.00	14.19	14.31	14.23	16.00	18.25	18.38	18.20	20.00



GSM1900 AnI2 DS10

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1822.2	1830	1837.8	31.00	1822.2	1830	1837.8	22.00
GSM 1 Tx slot	29.92	29.92	29.93	31.00	20.92	20.92	20.93	22.00
GPRS 1 Tx slot	29.92	30.01	29.95	31.00	20.92	21.01	20.95	22.00
GPRS 2 Tx slots	27.08	27.11	27.03	28.00	21.08	21.11	21.03	22.00
GPRS 3 Tx slot	25.21	25.35	25.26	26.20	20.95	21.08	21.00	21.94
GPRS 4 Tx slots	23.92	24.02	23.90	25.00	20.92	21.02	20.90	22.00
EDGE 1 Tx slot	26.15	26.26	26.18	27.00	17.15	17.26	17.18	18.00
EDGE 2 Tx slots	23.30	23.44	23.35	24.00	17.30	17.44	17.35	18.00
EDGE 3 Tx slots	21.53	21.58	21.50	22.20	17.27	17.30	17.24	17.84
EDGE 4 Tx slots	20.54	20.68	20.60	21.00	17.54	17.68	17.60	18.00

WCDMA II AnI2 DS10

WCDMA IV AnI2 DS10

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	5282	5400	5538		1312	1413	1513	
Rx Channel	5822	5900	5938	1837	1838	1738		
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.8		
3GPP Rel 99	23.47	23.56	23.53	25.00	23.43	23.55	23.49	
3GPP Rel 99	RMC 12.2Kbps	23.50	23.61	23.58	25.00	23.57	23.52	
3GPP Rel 6	HSDPA Subtest-1	22.48	22.69	22.63	24.00	22.52	22.59	
3GPP Rel 6	HSDPA Subtest-2	22.54	22.53	22.56	24.00	22.57	22.55	
3GPP Rel 6	HSDPA Subtest-3	22.09	22.11	22.02	23.50	22.07	22.02	
3GPP Rel 6	HSDPA Subtest-4	22.00	22.02	22.00	23.50	21.94	22.01	
3GPP Rel 6	DCHSDPA Subtest-1	22.56	22.53	22.57	24.00	22.54	22.50	
3GPP Rel 6	DCHSDPA Subtest-2	22.48	22.55	22.46	24.00	22.47	22.55	
3GPP Rel 6	DCHSDPA Subtest-3	21.86	22.05	21.93	23.50	21.94	22.08	
3GPP Rel 6	DCHSDPA Subtest-4	21.90	22.02	21.96	23.50	21.82	21.96	
3GPP Rel 6	HSPA Subtest-1	22.34	22.47	22.50	24.00	22.41	22.49	
3GPP Rel 6	HSPA Subtest-2	20.56	20.65	20.56	22.00	20.56	20.64	
3GPP Rel 6	HSPA Subtest-3	21.62	21.71	21.68	23.00	21.62	21.63	
3GPP Rel 6	HSPA Subtest-4	20.46	20.50	20.51	22.00	20.46	20.59	
3GPP Rel 6	HSPA Subtest-5	22.39	22.60	22.42	24.00	22.40	22.59	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.07	20.14	20.08	21.50	20.11	20.21	



Band 41 Main PA Ant3 DSI0

Band	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										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.66	20.69	20.80	20.75	20.73	22	0
20	QPSK	1	49	20.55	20.54	20.71	20.52	20.58		
20	QPSK	1	99	20.66	20.47	20.57	20.69	20.53		
20	QPSK	50	0	20.60	20.64	20.75	20.55	20.68		
20	QPSK	50	24	20.47	20.56	20.75	20.64	20.54		
20	QPSK	50	50	20.53	20.37	20.46	20.49	20.33	22	0
20	QPSK	100	0	20.55	20.56	20.69	20.34	20.42		
20	16QAM	1	0	20.41	20.42	20.44	20.51	20.27		
20	16QAM	1	49	20.45	20.30	20.60	20.40	20.25	22	0
20	16QAM	1	99	20.50	20.38	20.38	20.46	20.29		
20	16QAM	50	0	20.63	20.73	20.76	20.79	20.62		
20	16QAM	50	24	20.52	20.55	20.62	20.60	20.53	22	0
20	16QAM	50	50	20.62	20.56	20.72	20.68	20.62		
20	16QAM	100	0	20.54	20.63	20.65	20.51	20.43		
20	64QAM	1	0	20.36	20.35	20.53	20.34	20.34		
20	64QAM	1	49	20.18	20.32	20.32	20.29	20.22	22	0
20	64QAM	1	99	20.28	20.19	20.40	20.31	20.33		
20	64QAM	50	0	20.18	20.12	20.25	20.20	20.07		
20	64QAM	50	24	20.08	20.08	20.21	20.11	20.06	21.5	0.5
20	64QAM	50	50	20.16	20.07	20.26	20.15	20.16		
20	64QAM	100	0	20.07	20.03	20.11	20.16	19.98		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.53	20.59	20.74	20.71	20.69	22	0
15	QPSK	1	37	20.40	20.45	20.62	20.44	20.51		
15	QPSK	1	74	20.55	20.44	20.47	20.56	20.50		
15	QPSK	36	0	20.49	20.60	20.68	20.44	20.57		
15	QPSK	36	20	20.43	20.48	20.69	20.53	20.46	22	0
15	QPSK	36	39	20.45	20.27	20.35	20.45	20.21		
15	QPSK	75	0	20.52	20.47	20.58	20.22	20.31		
15	16QAM	1	1	20.31	20.32	20.39	20.43	20.14		
15	16QAM	1	37	20.34	20.17	20.49	20.36	20.11	22	0
15	16QAM	1	74	20.41	20.32	20.29	20.40	20.16		
15	16QAM	36	0	20.57	20.69	20.63	20.69	20.56		
15	16QAM	36	20	20.39	20.43	20.52	20.50	20.41	22	0
15	16QAM	36	39	20.40	20.48	20.67	20.65	20.58		
15	16QAM	75	0	20.44	20.56	20.55	20.48	20.36		
15	64QAM	1	0	20.25	20.24	20.44	20.21	20.28		
15	64QAM	1	37	20.12	20.24	20.23	20.26	20.19	22	0
15	64QAM	1	74	20.23	20.13	20.36	20.25	20.28		
15	64QAM	36	0	20.08	20.05	20.17	20.09	20.02		
15	64QAM	36	20	20.02	20.01	20.17	19.97	20.00	21.5	0.5
15	64QAM	36	39	20.04	20.16	20.18	20.09	20.06		
15	64QAM	75	0	19.99	19.94	20.01	20.10	19.87		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.61	20.59	20.74	20.63	20.67	22	0
10	QPSK	1	25	20.45	20.40	20.60	20.47	20.46		
10	QPSK	1	49	20.57	20.44	20.53	20.58	20.49		
10	QPSK	25	0	20.50	20.62	20.60	20.52	20.57		
10	QPSK	25	12	20.34	20.45	20.70	20.55	20.51	22	0
10	QPSK	25	25	20.43	20.31	20.37	20.45	20.25		
10	QPSK	50	0	20.45	20.45	20.59	20.21	20.40		
10	16QAM	1	0	20.36	20.35	20.32	20.46	20.18		
10	16QAM	1	25	20.33	20.16	20.55	20.38	20.20	22	0
10	16QAM	1	49	20.38	20.27	20.32	20.41	20.15		
10	16QAM	25	0	20.57	20.70	20.73	20.67	20.56		
10	16QAM	25	12	20.38	20.46	20.51	20.55	20.41	22	0
10	16QAM	25	25	20.55	20.50	20.65	20.63	20.55		
10	16QAM	50	0	20.44	20.53	20.57	20.46	20.40		
10	64QAM	1	0	20.33	20.25	20.41	20.22	20.24		
10	64QAM	1	25	20.16	20.25	20.19	20.20	20.19	22	0
10	64QAM	1	49	20.15	20.06	20.27	20.18	20.26		
10	64QAM	25	0	20.09	20.07	20.14	20.09	20.01		
10	64QAM	25	12	20.02	19.99	20.17	19.96	19.98	21.5	0.5
10	64QAM	25	25	20.04	20.19	20.13	20.00	20.04		
10	64QAM	50	0	20.00	19.92	20.02	20.02	19.88		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41555		
Frequency (MHz)				2498.5	2545.9	2593	2640.30	2687.7		
5	QPSK	1	0	20.52	20.57	20.66	20.69	20.67	22	0
5	QPSK	1	12	20.48	20.44	20.64	20.44	20.54		
5	QPSK	1	24	20.62	20.40	20.45	20.59	20.42		
5	QPSK	12	0	20.55	20.51	20.62	20.51	20.61		
5	QPSK	12	7	20.38	20.44	20.66	20.55	20.43	22	0
5	QPSK	12	13	20.47	20.33	20.38	20.41	20.26		
5	QPSK	25	0	20.51	20.43	20.58	20.26	20.32		
5	16QAM	1	0	20.34	20.37	20.38	20.37	20.19		
5	16QAM	1	12	20.42	20.25	20.57	20.37	20.12	22	0
5	16QAM	1	24	20.45	20.33	20.22	20.39	20.23		
5	16QAM	12	0	20.54	20.66	20.63	20.75	20.51		
5	16QAM	12	7	20.41	20.44	20.59	20.51	20.43	22	0
5	16QAM	12	13	20.48	20.49	20.66	20.56	20.59		
5	16QAM	25	0	20.45	20.56	20.61	20.45	20.38		
5	64QAM	1	0	20.23	20.31	20.41	20.29	20.21		
5	64QAM	1	12	20.11	20.22	20.22	20.27	20.19	22	0
5	64QAM	1	24	20.21	20.12	20.26	20.17	20.24		
5	64QAM	12	0	20.08	20.01	20.11	20.11	20.02		
5	64QAM	12	7	20.04	19.97	20.13	19.97	19.95	21.5	0.5
5	64QAM	12	13	20.09	20.18	20.20	20.03	20.07		
5	64QAM	25	0	19.97	19.95	20.08	20.08	19.89		



Band 42 FCC Part27Q Main PA Ant5 DS10

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
20	QPSK 1	0	20.06	20.17	20.01
20	QPSK 1	49	20.08	20.14	19.99
20	QPSK 1	99	19.76	20.15	20.00
20	QPSK 50	0	19.67	19.92	19.80
20	QPSK 50	24	19.54	19.85	19.58
20	QPSK 50	50	19.65	19.87	19.78
20	QPSK 100	0	19.61	19.74	19.68
20	16QAM 1	0	19.56	19.63	19.66
20	16QAM 1	49	19.63	19.63	19.41
20	16QAM 1	99	19.55	19.72	19.57
20	16QAM 50	0	19.85	19.82	19.87
20	16QAM 50	24	19.71	19.87	19.70
20	16QAM 50	50	19.71	19.96	19.81
20	16QAM 100	0	19.74	19.80	19.75
20	64QAM 1	0	19.53	19.69	19.56
20	64QAM 1	49	19.35	19.55	19.60
20	64QAM 1	99	19.61	19.38	19.51
20	64QAM 50	0	19.81	19.87	19.73
20	64QAM 50	24	19.38	19.60	19.65
20	64QAM 50	50	19.59	19.59	19.54
20	64QAM 100	0	19.43	19.47	19.57
Channel					
Frequency (MHz)					
15	QPSK 1	0	19.97	20.11	19.89
15	QPSK 1	37	20.03	20.11	19.91
15	QPSK 1	74	19.84	20.08	19.87
15	QPSK 36	0	19.58	19.85	19.68
15	QPSK 36	20	19.44	19.74	19.54
15	QPSK 36	39	19.50	19.63	19.67
15	QPSK 75	0	19.52	19.65	19.57
15	16QAM 1	0	19.45	19.50	19.95
15	16QAM 1	37	19.54	19.58	19.31
15	16QAM 1	74	19.51	19.64	19.45
15	16QAM 36	0	19.75	19.68	19.76
15	16QAM 36	20	19.67	19.81	19.57
15	16QAM 36	39	19.65	19.90	19.74
15	16QAM 75	0	19.69	19.72	19.62
15	64QAM 1	0	19.45	19.56	19.60
15	64QAM 1	37	19.22	19.47	19.57
15	64QAM 1	74	19.38	19.25	19.47
15	64QAM 36	0	19.74	19.79	19.69
15	64QAM 36	20	19.35	19.54	19.55
15	64QAM 36	39	19.54	19.55	19.46
15	64QAM 75	0	19.32	19.43	19.44
Channel					
Frequency (MHz)					
10	QPSK 1	0	19.96	20.06	19.86
10	QPSK 1	25	19.99	20.02	19.88
10	QPSK 1	49	19.71	20.03	19.95
10	QPSK 25	0	19.60	19.79	19.71
10	QPSK 25	12	19.51	19.74	19.51
10	QPSK 25	25	19.44	19.56	19.85
10	QPSK 50	0	19.56	19.66	19.62
10	16QAM 1	0	19.52	19.55	19.59
10	16QAM 1	25	19.57	19.55	19.37
10	16QAM 1	49	19.42	19.70	19.52
10	16QAM 25	0	19.62	19.74	19.79
10	16QAM 25	12	19.68	19.83	19.59
10	16QAM 25	25	19.63	19.86	19.69
10	16QAM 50	0	19.71	19.74	19.64
10	64QAM 1	0	19.44	19.65	19.53
10	64QAM 1	25	19.27	19.46	19.54
10	64QAM 1	49	19.36	19.27	19.46
10	64QAM 25	0	19.71	19.79	19.62
10	64QAM 25	12	19.33	19.48	19.54
10	64QAM 25	25	19.49	19.45	19.43
10	64QAM 50	0	19.29	19.38	19.53
Channel					
Frequency (MHz)					
5	QPSK 1	0	19.92	20.13	19.90
5	QPSK 1	12	20.01	20.01	19.94
5	QPSK 1	24	19.69	20.10	19.95
5	QPSK 12	0	19.63	19.86	19.75
5	QPSK 12	7	19.47	19.79	19.50
5	QPSK 12	13	19.47	19.56	19.66
5	QPSK 25	0	19.53	19.61	19.63
5	16QAM 1	0	19.53	19.57	19.59
5	16QAM 1	12	19.50	19.53	19.38
5	16QAM 1	24	19.52	19.62	19.50
5	16QAM 12	0	19.75	19.72	19.65
5	16QAM 12	7	19.68	19.81	19.58
5	16QAM 12	13	19.58	19.89	19.73
5	16QAM 25	0	19.68	19.69	19.70
5	64QAM 1	0	19.46	19.57	19.44
5	64QAM 1	12	19.21	19.42	19.56
5	64QAM 1	24	19.39	19.26	19.44
5	64QAM 12	0	19.73	19.74	19.62
5	64QAM 12	7	19.26	19.48	19.53
5	64QAM 12	13	19.53	19.51	19.44
5	64QAM 25	0	19.30	19.44	19.55



Band 42 FCC Part27Q Main PA Ant6 DS10

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)				42190	42990
Frequency (MHz)				3460	3500
Frequency (MHz)				42990	43040
20	QPSK	1	0	17.84	17.66
20	QPSK	1	49	17.87	17.78
20	QPSK	1	99	17.74	17.82
20	QPSK	50	0	17.83	17.52
20	QPSK	50	24	17.55	17.56
20	QPSK	50	50	17.47	17.57
20	QPSK	100	0	17.50	17.62
20	16QAM	1	0	17.38	17.52
20	16QAM	1	49	17.28	17.45
20	16QAM	1	99	17.25	17.41
20	16QAM	50	0	17.39	17.64
20	16QAM	50	24	17.52	17.41
20	16QAM	50	50	17.39	17.63
20	16QAM	100	0	17.43	17.51
20	64QAM	1	0	17.27	17.33
20	64QAM	1	49	17.28	17.23
20	64QAM	1	99	17.01	17.28
20	64QAM	50	0	17.61	17.62
20	64QAM	50	24	17.26	17.46
20	64QAM	50	50	17.33	17.63
20	64QAM	100	0	17.32	17.64
Channel					
Frequency (MHz)				42165	42990
Frequency (MHz)				3467.5	3500
Frequency (MHz)				43015	43040
15	QPSK	1	0	17.80	17.86
15	QPSK	1	37	17.77	17.66
15	QPSK	1	74	17.55	17.66
15	QPSK	36	0	17.61	17.46
15	QPSK	36	20	17.50	17.41
15	QPSK	36	39	17.29	17.45
15	QPSK	75	0	17.38	17.64
15	16QAM	1	0	17.26	17.47
15	16QAM	1	37	17.27	17.43
15	16QAM	1	74	17.07	17.38
15	16QAM	36	0	17.21	17.49
15	16QAM	36	20	17.38	17.28
15	16QAM	36	39	17.38	17.62
15	16QAM	75	0	17.33	17.52
15	64QAM	1	0	17.29	17.15
15	64QAM	1	37	17.18	17.04
15	64QAM	1	74	16.82	17.23
15	64QAM	36	0	17.47	17.58
15	64QAM	36	20	17.15	17.33
15	64QAM	36	39	17.32	17.49
15	64QAM	75	0	17.14	17.44
Channel					
Frequency (MHz)				42140	42990
Frequency (MHz)				3465	3500
Frequency (MHz)				43040	43040
10	QPSK	1	0	17.61	17.74
10	QPSK	1	25	17.77	17.77
10	QPSK	1	49	17.73	17.64
10	QPSK	25	0	17.67	17.58
10	QPSK	25	12	17.55	17.48
10	QPSK	25	25	17.46	17.38
10	QPSK	50	0	17.37	17.64
10	16QAM	1	0	17.19	17.34
10	16QAM	1	25	17.26	17.41
10	16QAM	1	49	17.20	17.27
10	16QAM	25	0	17.27	17.59
10	16QAM	25	12	17.38	17.28
10	16QAM	25	25	17.29	17.61
10	16QAM	50	0	17.27	17.41
10	64QAM	1	0	17.14	17.14
10	64QAM	1	25	17.11	17.20
10	64QAM	1	49	16.85	17.26
10	64QAM	25	0	17.48	17.48
10	64QAM	25	12	17.15	17.40
10	64QAM	25	25	17.33	17.55
10	64QAM	50	0	17.18	17.32
Channel					
Frequency (MHz)				42115	42990
Frequency (MHz)				3462.5	3500
Frequency (MHz)				43065	43065
5	QPSK	1	0	17.67	17.85
5	QPSK	1	12	17.82	17.65
5	QPSK	1	24	17.68	17.65
5	QPSK	12	0	17.53	17.56
5	QPSK	12	7	17.41	17.55
5	QPSK	12	13	17.48	17.36
5	QPSK	25	0	17.38	17.62
5	16QAM	1	0	17.33	17.33
5	16QAM	1	12	17.10	17.26
5	16QAM	1	24	17.14	17.35
5	16QAM	12	0	17.41	17.57
5	16QAM	12	7	17.51	17.31
5	16QAM	12	13	17.33	17.47
5	16QAM	25	0	17.29	17.51
5	64QAM	1	0	17.26	17.32
5	64QAM	1	12	17.10	17.15
5	64QAM	1	24	16.85	17.21
5	64QAM	12	0	17.60	17.51
5	64QAM	12	7	17.24	17.47
5	64QAM	12	13	17.27	17.63
5	64QAM	25	0	17.29	17.49



Band 42 FCC Part27Q Mian PA Ant7 DS10

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
20	QPSK 1 0	23.52	23.55	23.48	24.5
20	QPSK 1 49	23.32	23.44	23.38	
20	QPSK 1 99	23.36	23.43	23.36	
20	QPSK 50 0	22.45	22.50	22.40	23.5
20	QPSK 50 24	22.37	22.49	22.43	
20	QPSK 50 50	22.30	22.35	22.23	
20	QPSK 100 0	22.28	22.37	22.25	23.5
20	16QAM 1 0	22.26	22.37	22.33	
20	16QAM 1 49	22.29	22.33	22.39	
20	16QAM 1 99	22.13	22.25	22.12	22.5
20	16QAM 50 0	21.40	21.50	21.46	
20	16QAM 50 24	21.32	21.46	21.36	
20	16QAM 50 50	21.34	21.48	21.39	22.5
20	16QAM 100 0	21.21	21.34	21.26	
20	64QAM 1 0	21.35	21.42	21.33	
20	64QAM 1 49	21.27	21.35	21.26	22.5
20	64QAM 1 99	21.16	21.25	21.12	
20	64QAM 50 0	20.41	20.50	20.43	
20	64QAM 50 24	20.35	20.38	20.26	21.5
20	64QAM 50 50	20.32	20.46	20.33	
20	64QAM 100 0	20.26	20.35	20.28	
Channel					
Frequency (MHz)					
15	QPSK 1 0	23.44	23.50	23.43	24.5
15	QPSK 1 37	23.25	23.32	23.32	
15	QPSK 1 74	23.22	23.39	23.24	
15	QPSK 36 0	22.41	22.35	22.30	23.5
15	QPSK 36 20	22.28	22.36	22.35	
15	QPSK 36 39	22.17	22.31	22.16	
15	QPSK 75 0	22.24	22.32	22.11	23.5
15	16QAM 1 0	22.25	22.25	22.25	
15	16QAM 1 37	22.12	22.20	22.14	
15	16QAM 1 74	22.07	22.15	22.03	22.5
15	16QAM 36 0	21.31	21.37	21.37	
15	16QAM 36 20	21.29	21.38	21.29	
15	16QAM 36 39	21.31	21.34	21.31	22.5
15	16QAM 75 0	21.14	21.21	21.15	
15	64QAM 1 0	21.24	21.29	21.22	
15	64QAM 1 37	21.16	21.32	21.15	22.5
15	64QAM 1 74	21.11	21.22	21.00	
15	64QAM 36 0	20.33	20.46	20.30	
15	64QAM 36 20	20.25	20.29	20.22	21.5
15	64QAM 36 39	20.28	20.34	20.26	
15	64QAM 75 0	20.15	20.23	20.22	
Channel					
Frequency (MHz)					
10	QPSK 1 0	23.08	23.48	23.34	24.5
10	QPSK 1 25	23.18	23.29	23.29	
10	QPSK 1 49	23.31	23.32	23.33	
10	QPSK 25 0	22.33	22.38	22.36	23.5
10	QPSK 25 12	22.28	22.42	22.35	
10	QPSK 25 25	22.16	22.29	22.13	
10	QPSK 50 0	22.23	22.29	22.19	23.5
10	16QAM 1 0	22.17	22.33	22.26	
10	16QAM 1 25	22.11	22.18	22.12	
10	16QAM 1 49	22.00	22.13	21.98	22.5
10	16QAM 25 0	21.31	21.45	21.38	
10	16QAM 25 12	21.27	21.40	21.21	
10	16QAM 25 25	21.21	21.44	21.29	22.5
10	16QAM 50 0	21.09	21.24	21.18	
10	64QAM 1 0	21.24	21.31	21.20	
10	64QAM 1 25	21.23	21.28	21.21	22.5
10	64QAM 1 49	21.09	21.17	21.08	
10	64QAM 25 0	20.33	20.37	20.40	
10	64QAM 25 12	20.32	20.33	20.12	21.5
10	64QAM 25 25	20.22	20.33	20.26	
10	64QAM 50 0	20.15	20.25	20.18	
Channel					
Frequency (MHz)					
5	QPSK 1 0	23.45	23.48	23.35	24.5
5	QPSK 1 12	23.18	23.31	23.31	
5	QPSK 1 24	23.29	23.36	23.28	
5	QPSK 12 0	22.33	22.45	22.36	23.5
5	QPSK 12 7	22.29	22.45	22.36	
5	QPSK 12 13	22.26	22.28	22.10	
5	QPSK 25 0	22.25	22.32	22.17	23.5
5	16QAM 1 0	22.23	22.30	22.23	
5	16QAM 1 12	22.16	22.26	22.14	
5	16QAM 1 24	22.01	22.19	22.06	22.5
5	16QAM 12 0	21.36	21.46	21.41	
5	16QAM 12 7	21.24	21.33	21.22	
5	16QAM 12 13	21.28	21.36	21.26	22.5
5	16QAM 25 0	21.09	21.30	21.17	
5	64QAM 1 0	21.28	21.28	21.28	
5	64QAM 1 12	21.16	21.24	21.11	22.5
5	64QAM 1 24	21.02	21.21	21.00	
5	64QAM 12 0	20.34	20.37	20.29	
5	64QAM 12 7	20.20	20.24	20.21	21.5
5	64QAM 12 13	20.28	20.40	20.20	
5	64QAM 25 0	20.13	20.26	20.17	



DSI 1 Power for WWAN Main PA

GSM850	GSM850 AnD DSI1			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				Frame-Average Power (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		824.2	836.4	848.8	
GSM 1 Tx slot	32.93	33.09	33.05	34.00	23.93	24.09	24.05	25.00
GPRS 1 Tx slot	32.97	33.13	33.07	34.00	23.97	24.13	24.07	25.00
GPRS 2 Tx slots	30.09	30.12	30.04	31.00	24.09	24.12	24.04	25.00
GPRS 3 Tx slots	28.23	28.34	28.19	29.20	23.97	24.08	23.93	24.94
GPRS 4 Tx slots	26.91	26.95	26.88	28.00	23.91	23.95	23.88	25.00
EDGE 1 Tx slot	27.01	27.13	27.08	28.00	18.01	18.13	18.08	19.00
EDGE 2 Tx slots	24.17	24.25	24.10	25.00	18.17	18.25	18.10	19.00
EDGE 3 Tx slots	22.31	22.41	22.28	23.20	18.05	18.15	18.02	18.94
EDGE 4 Tx slots	21.12	21.17	21.04	22.00	18.12	18.17	18.04	19.00

Band	WCDMA V AnD DSI1			Tune-up Limit (dBm)
	WCDMA V			
	4192	4182	4233	
TX Channel	4192	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	824.2	836.4	848.8	
3GPP Rel 99 AMR 12.2kbps	23.98	24.11	24.08	25.00
3GPP Rel 99 RMC 12.2kbps	24.04	24.16	24.13	25.00
3GPP Rel 6 HSDPA Subtest-1	23.15	23.15	23.11	24.00
3GPP Rel 6 HSDPA Subtest-2	23.09	23.15	23.07	24.00
3GPP Rel 6 HSDPA Subtest-3	22.54	22.69	22.61	23.50
3GPP Rel 6 HSDPA Subtest-4	22.56	22.63	22.57	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.03	23.14	23.10	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	23.04	23.14	23.06	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.45	22.60	22.53	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.43	22.56	22.50	23.50
3GPP Rel 6 HSUPA Subtest-1	22.98	23.03	23.05	24.00
3GPP Rel 6 HSUPA Subtest-2	21.08	21.21	21.06	22.00
3GPP Rel 6 HSUPA Subtest-3	22.09	22.26	22.21	23.00
3GPP Rel 6 HSUPA Subtest-4	21.06	21.11	21.03	22.00
3GPP Rel 6 HSUPA Subtest-5	23.02	23.11	23.05	24.00
3GPP Rel 7 HSPA+ (E-UMTS) Subtest-1	20.57	20.76	20.64	21.50



GSM850 Antt DS11								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM 1 Tx slot	32.02	32.11	32.02	33.50	23.02	23.11	23.02	24.50
GPRS 1 Tx slot	32.05	32.16	32.08	33.50	23.05	23.16	23.08	24.50
GPRS 2 Tx slots	29.21	29.24	29.17	30.50	23.21	23.24	23.17	24.50
GPRS 3 Tx slots	27.40	27.44	27.34	28.50	23.14	23.18	23.08	24.50
GPRS 4 Tx slots	25.67	26.07	26.00	27.50	22.97	23.07	23.00	24.50
EDGE 1 Tx slot	28.21	28.25	28.11	27.50	17.21	17.25	17.11	18.50
EDGE 2 Tx slots	23.24	23.29	23.16	24.50	17.24	17.29	17.16	18.50
EDGE 3 Tx slots	21.40	21.53	21.48	22.70	17.14	17.27	17.22	18.44
EDGE 4 Tx slots	20.15	20.28	20.24	21.50	17.15	17.28	17.24	18.50

GSM1900 Antt DS11								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
GSM 1 Tx slot	28.13	28.19	28.15	30.00	19.13	19.19	19.15	21.00
GPRS 1 Tx slot	28.16	28.24	28.22	30.00	19.16	19.24	19.22	21.00
GPRS 2 Tx slots	25.27	25.31	25.25	27.00	19.27	19.31	19.25	21.00
GPRS 3 Tx slots	23.88	23.96	23.87	25.20	19.82	19.70	19.61	20.94
GPRS 4 Tx slots	22.35	22.47	22.37	24.00	19.35	19.47	19.37	21.00
EDGE 1 Tx slot	24.79	24.68	24.62	26.00	15.79	15.68	15.62	17.00
EDGE 2 Tx slots	21.87	22.07	21.93	23.00	15.97	16.07	15.93	17.00
EDGE 3 Tx slots	19.90	20.03	19.89	21.20	15.64	15.77	15.63	16.94
EDGE 4 Tx slots	19.20	19.28	19.21	20.00	16.20	16.28	16.21	17.00

Band TX Channel Frequency (MHz)	WCDMA II Antt DS11			Tune-up Limit (dBm)	WCDMA IV Antt DS11			Tune-up Limit (dBm)	WCDMA V Antt DS11			Tune-up Limit (dBm)
	9682	9400	9538		1312	1413	1513		4132	4182	4233	
3GPP Rel 99 AMR 12.2Kbps	20.03	20.11	20.03	22.00	22.02	22.12	22.07	24.00	23.22	23.32	23.29	25.00
3GPP Rel 99 RMC 12.2Kbps	20.06	20.15	20.08	22.00	22.10	22.19	22.13	24.00	23.27	23.36	23.35	25.00
3GPP Rel 6 HSDPA Subtest-1	19.09	19.20	19.11	21.00	21.15	21.23	21.20	23.00	22.36	22.34	22.35	24.00
3GPP Rel 6 HSDPA Subtest-2	19.19	19.14	19.18	21.00	21.06	21.09	21.06	23.00	22.23	22.35	22.31	24.00
3GPP Rel 6 HSDPA Subtest-3	18.54	18.58	18.58	20.50	20.60	20.69	20.65	22.50	21.76	21.84	21.88	23.50
3GPP Rel 6 HSDPA Subtest-4	18.54	18.57	18.57	20.50	20.61	20.55	20.52	22.50	21.72	21.85	21.83	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	19.04	19.07	19.04	21.00	21.04	21.16	21.09	23.00	22.28	22.31	22.34	24.00
3GPP Rel 6 DC-HSDPA Subtest-2	19.03	19.04	19.04	21.00	21.16	21.13	21.02	23.00	22.17	22.29	22.19	24.00
3GPP Rel 6 DC-HSDPA Subtest-3	18.55	18.54	18.54	20.50	20.56	20.59	20.52	22.50	21.73	21.81	21.86	23.50
3GPP Rel 6 DC-HSDPA Subtest-4	18.53	18.67	18.61	20.50	20.56	20.60	20.54	22.50	21.65	21.82	21.72	23.50
3GPP Rel 6 HSUPA Subtest-1	19.15	19.04	19.02	21.00	21.01	21.10	21.01	23.00	22.15	22.22	22.19	24.00
3GPP Rel 6 HSUPA Subtest-2	17.12	17.09	17.03	19.00	19.11	19.16	19.05	21.00	20.24	20.38	20.35	22.00
3GPP Rel 6 HSUPA Subtest-3	18.18	18.16	18.18	20.00	20.13	20.24	20.24	22.00	21.39	21.45	21.43	23.00
3GPP Rel 6 HSUPA Subtest-4	17.05	17.11	17.01	19.00	19.08	19.03	19.07	21.00	20.20	20.24	20.28	22.00
3GPP Rel 6 HSUPA Subtest-5	19.01	19.05	19.02	21.00	21.06	21.11	21.04	23.00	22.14	22.33	22.18	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	16.64	16.77	16.53	18.50	18.62	18.70	18.63	20.50	19.78	20.00	19.84	21.50



GSM1900 Ant2 DSH1

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1822.2	1827	1831.8	31.00	1822.2	1827	1831.8	31.00
GSM 1 Tx slot	29.92	29.95	29.93	31.00	20.89	20.95	20.93	22.00
GPRS 1 Tx slot	29.92	30.01	29.95	31.00	20.92	21.01	20.95	22.00
GPRS 2 Tx slots	27.08	27.11	27.03	28.00	21.08	21.11	21.03	22.00
GPRS 3 Tx slots	25.21	25.35	25.26	26.20	20.85	21.08	21.00	21.84
GPRS 4 Tx slots	23.92	24.02	23.90	25.00	20.92	21.02	20.90	22.00
EDGE 1 Tx slot	26.15	26.26	26.18	27.00	17.15	17.26	17.18	18.00
EDGE 2 Tx slots	23.36	23.44	23.35	24.00	17.36	17.44	17.35	18.00
EDGE 3 Tx slots	21.53	21.56	21.50	22.00	17.27	17.30	17.24	17.84
EDGE 4 Tx slots	20.54	20.68	20.60	21.00	17.54	17.68	17.60	18.00

WCDMA II Ant2 DSH1

WCDMA IV Ant2 DSH1

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		
Rx Channel	9692	9800	9938	31.00	1837	1838	1736	31.00	
Frequency (MHz)	1852.4	1880	1907.6	31.00	1732.4	1732.6	1732.6	31.00	
3GPP Rel 99	AMR 12.2kops	20.52	20.55	20.51	22.00	22.42	22.60	22.50	24.00
3GPP Rel 99	RMC 12.2kops	20.47	20.64	20.53	22.00	22.55	22.83	22.49	24.00
3GPP Rel 6	HSDPA Subtest-1	19.47	19.74	19.60	21.00	21.47	21.54	21.55	23.00
3GPP Rel 6	HSDPA Subtest-2	19.60	19.59	19.61	21.00	21.57	21.58	21.60	23.00
3GPP Rel 6	HSDPA Subtest-3	19.07	19.09	19.07	20.50	21.13	21.22	20.97	22.50
3GPP Rel 6	HSDPA Subtest-4	18.96	18.97	19.06	20.50	20.85	21.00	21.09	22.50
3GPP Rel 6	DCHSDPA Subtest-1	19.54	19.57	19.62	21.00	21.54	21.62	21.46	23.00
3GPP Rel 6	DCHSDPA Subtest-2	19.46	19.52	19.50	21.00	21.45	21.52	21.46	23.00
3GPP Rel 6	DCHSDPA Subtest-3	18.88	19.04	18.95	20.50	20.92	21.09	20.99	22.50
3GPP Rel 6	DCHSDPA Subtest-4	18.96	18.96	18.95	20.50	20.87	21.01	20.96	22.50
3GPP Rel 6	HSPA Subtest-1	19.39	19.46	19.52	21.00	21.40	21.52	21.44	23.00
3GPP Rel 6	HSPA Subtest-2	17.52	17.69	17.57	19.00	19.56	19.68	19.59	21.00
3GPP Rel 6	HSPA Subtest-3	18.56	18.71	18.67	20.00	20.57	20.64	20.54	22.00
3GPP Rel 6	HSPA Subtest-4	17.44	17.55	17.51	19.00	19.42	19.57	19.39	21.00
3GPP Rel 6	HSPA Subtest-5	19.38	19.56	19.44	21.00	21.34	21.56	21.40	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.04	17.15	17.03	18.50	19.10	19.16	19.06	20.50

Band 41 Main PA Ant3 DS11										
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	23.12	23.10	23.25	23.20	23.06	24.5	0
20	QPSK	1	49	23.03	22.98	23.12	23.07	23.03	23.5	1
20	QPSK	1	99	23.01	22.97	23.12	22.97	23.02		
20	QPSK	50	0	22.28	22.20	22.41	22.28	22.26		
20	QPSK	50	24	22.23	22.15	22.30	22.28	22.13		
20	QPSK	50	50	22.17	22.12	22.24	22.18	22.05	23.5	1
20	16QAM	100	0	22.18	22.15	22.30	22.13	22.12		
20	16QAM	1	0	22.11	22.17	22.17	22.13	22.00		
20	16QAM	1	49	22.14	22.05	22.19	22.13	22.01		
20	16QAM	1	99	22.02	22.06	22.14	22.11	21.94	22.5	2
20	16QAM	50	0	21.17	21.24	21.26	21.23	21.11		
20	16QAM	50	24	21.07	21.09	21.18	21.14	21.08		
20	16QAM	50	50	21.17	21.11	21.27	21.19	21.08		
20	16QAM	100	0	21.06	21.08	21.13	21.05	20.95	22.5	2
20	64QAM	1	0	20.85	20.86	20.97	20.85	20.86		
20	64QAM	1	49	20.71	20.78	20.83	20.84	20.70		
20	64QAM	1	99	20.78	20.68	20.89	20.78	20.79		
20	64QAM	50	0	20.18	20.12	20.25	20.20	20.07	21.5	3
20	64QAM	50	24	20.08	20.08	20.21	20.11	20.06		
20	64QAM	50	50	20.16	20.27	20.26	20.15	20.16		
20	64QAM	100	0	20.07	20.03	20.11	20.16	19.98		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2546.3	2593	2637.6	2682.5		
15	QPSK	1	0	23.08	23.04	23.20	23.06	22.92	25	0
15	QPSK	1	37	22.99	22.85	23.04	23.01	22.95	23.5	1
15	QPSK	1	74	22.94	22.89	23.01	22.90	22.88		
15	QPSK	36	0	22.21	22.06	22.29	22.17	22.22		
15	QPSK	36	20	22.13	22.08	22.16	22.24	22.04		
15	QPSK	36	39	22.03	22.05	22.19	22.05	21.91	23.5	1
15	QPSK	75	0	22.10	22.11	22.15	21.99	22.06		
15	16QAM	1	0	22.05	22.11	22.07	22.08	21.95		
15	16QAM	1	37	22.04	21.95	22.06	22.03	21.90		
15	16QAM	1	74	21.87	21.84	22.00	22.05	21.89	22.5	2
15	16QAM	36	0	21.09	21.16	21.15	21.13	20.96		
15	16QAM	36	20	21.02	20.98	21.08	21.04	21.02		
15	16QAM	36	39	21.03	21.02	21.24	21.11	21.04		
15	16QAM	75	0	20.93	21.00	20.98	20.90	20.88	22.5	2
15	64QAM	1	0	20.73	20.75	20.89	20.76	20.80		
15	64QAM	1	37	20.61	20.74	20.73	20.74	20.59		
15	64QAM	1	74	20.73	20.58	20.75	20.71	20.67		
15	64QAM	36	0	20.08	20.05	20.17	20.09	20.02	21.5	3
15	64QAM	36	20	20.02	20.01	20.17	19.97	20.00		
15	64QAM	36	39	20.04	20.16	20.18	20.09	20.06		
15	64QAM	75	0	19.99	19.94	20.01	20.10	19.87		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.01	22.98	23.15	23.09	22.92	25	0
10	QPSK	1	25	22.91	22.93	23.03	22.93	22.97	23.5	1
10	QPSK	1	49	22.93	22.84	23.08	22.88	22.97		
10	QPSK	25	0	22.12	22.10	22.38	22.17	22.18		
10	QPSK	25	12	22.16	22.09	22.17	22.16	22.09		
10	QPSK	25	25	22.10	21.96	22.19	22.09	22.02	23.5	1
10	QPSK	50	0	22.10	22.01	22.24	22.09	22.02		
10	16QAM	1	0	21.97	22.03	22.08	22.09	21.89		
10	16QAM	1	25	22.03	22.01	22.09	22.00	21.91		
10	16QAM	1	49	21.90	22.02	22.06	22.06	21.90	22.5	2
10	16QAM	25	0	21.11	21.12	21.19	21.13	20.98		
10	16QAM	25	12	20.99	21.04	21.04	21.02	21.05		
10	16QAM	25	25	21.12	20.97	21.13	21.09	21.00		
10	16QAM	50	0	21.02	20.97	21.05	20.94	20.87	22.5	2
10	64QAM	1	0	20.80	20.79	20.85	20.71	20.77		
10	64QAM	1	25	20.57	20.86	20.78	20.76	20.56		
10	64QAM	1	49	20.65	20.61	20.75	20.65	20.71		
10	64QAM	25	0	20.09	20.07	20.14	20.09	20.01	21.5	3
10	64QAM	25	12	20.02	19.99	20.17	19.96	19.98		
10	64QAM	25	25	20.04	20.19	20.13	20.00	20.04		
10	64QAM	50	0	20.00	19.92	20.02	20.02	19.88		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.3	2593	2639.3	2687.6		
5	QPSK	1	0	23.00	23.04	23.20	23.13	22.98	25	0
5	QPSK	1	12	22.94	22.90	23.01	22.93	23.00	23.5	1
5	QPSK	1	24	22.98	22.92	23.07	22.88	22.98		
5	QPSK	12	0	22.22	22.15	22.33	22.23	22.21		
5	QPSK	12	7	22.11	22.11	22.26	22.18	22.10		
5	QPSK	12	13	22.05	22.06	22.18	22.14	21.94	23.5	1
5	QPSK	25	0	22.15	22.08	22.28	22.09	22.01		
5	16QAM	1	0	22.03	22.13	22.12	22.07	21.91		
5	16QAM	1	12	22.09	21.95	22.10	22.05	21.87		
5	16QAM	1	24	21.90	21.92	22.05	22.05	21.86	22.5	2
5	16QAM	12	0	21.07	21.14	21.20	21.12	21.07		
5	16QAM	12	7	20.96	20.98	21.13	21.01	21.02		
5	16QAM	12	13	21.05	20.98	21.20	21.13	20.98		
5	16QAM	25	0	20.92	21.02	21.00	20.96	20.87	22.5	2
5	64QAM	1	0	20.77	20.78	20.89	20.76	20.80		
5	64QAM	1	12	20.60	20.68	20.71	20.71	20.61		
5	64QAM	1	24	20.70	20.59	20.78	20.70	20.65		
5	64QAM	12	0	20.08	20.01	20.11	20.11	20.02	21.5	3
5	64QAM	12	7	20.04	19.97	20.13	19.97	19.95		
5	64QAM	12	13	20.09	20.18	20.20	20.03	20.07		
5	64QAM	25	0	19.97	19.95	20.08	20.08	19.89		



Band 42 FCC Part27Q Main PA Ant5 DS11

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel								
Frequency (MHz)								
20	42190	42590	42990	22.5	0			
20	3460	3500	3540					
20	QPSK	1	0			22.07	22.19	22.02
20	QPSK	1	49			22.02	22.14	21.95
20	QPSK	1	99			21.78	22.16	21.95
20	QPSK	50	0			21.83	21.95	21.85
20	QPSK	50	24			21.54	21.91	21.54
20	QPSK	50	50			21.52	21.89	21.75
20	QPSK	100	0			21.62	21.77	21.62
20	16QAM	1	0			21.51	21.90	21.55
20	16QAM	1	49	21.59	21.83	21.39		
20	16QAM	1	99	21.54	21.72	21.56		
20	16QAM	50	0	21.86	21.86	21.82		
20	16QAM	50	24	21.74	21.89	21.69		
20	16QAM	50	50	21.74	21.99	21.87		
20	16QAM	100	0	21.76	21.81	21.76		
20	64QAM	1	0	21.55	21.73	21.59		
20	64QAM	1	49	21.30	21.53	21.59		
20	64QAM	1	99	21.56	21.35	21.54		
20	64QAM	50	0	21.86	21.89	21.81		
20	64QAM	50	24	21.62	21.74	21.64		
20	64QAM	50	50	21.61	21.75	21.69		
20	64QAM	100	0	21.85	21.72	21.81		
Channel								
Frequency (MHz)								
15	42165	42590	43015	22.5	0			
15	3467.5	3500	3542.5					
15	QPSK	1	0			22.04	22.07	21.96
15	QPSK	1	37			21.90	22.09	21.88
15	QPSK	1	74			21.75	22.13	21.91
15	QPSK	36	0			21.60	21.88	21.75
15	QPSK	36	20			21.42	21.85	21.42
15	QPSK	36	39			21.39	21.58	21.69
15	QPSK	75	0			21.55	21.83	21.48
15	QPSK	1	0			21.48	21.54	21.58
15	16QAM	1	37	21.45	21.53	21.37		
15	16QAM	1	74	21.48	21.70	21.49		
15	16QAM	36	0	21.77	21.72	21.70		
15	16QAM	36	20	21.64	21.81	21.66		
15	16QAM	36	39	21.64	21.85	21.64		
15	16QAM	75	0	21.88	21.78	21.70		
15	64QAM	1	0	21.50	21.69	21.47		
15	64QAM	1	37	21.26	21.42	21.50		
15	64QAM	1	74	21.46	21.25	21.52		
15	64QAM	36	0	21.73	21.83	21.71		
15	64QAM	36	20	21.57	21.68	21.58		
15	64QAM	36	39	21.52	21.68	21.54		
15	64QAM	75	0	21.62	21.60	21.51		
Channel								
Frequency (MHz)								
10	42140	42590	43040	22.5	0			
10	3465	3500	3545					
10	QPSK	1	0			22.03	22.15	21.83
10	QPSK	1	25			21.89	22.08	21.92
10	QPSK	1	49			21.75	22.05	21.83
10	QPSK	25	0			21.59	21.91	21.80
10	QPSK	25	12			21.44	21.79	21.51
10	QPSK	25	25			21.49	21.56	21.71
10	QPSK	50	0			21.55	21.72	21.57
10	16QAM	1	0			21.46	21.50	21.56
10	16QAM	1	25	21.46	21.55	21.32		
10	16QAM	1	49	21.46	21.62	21.47		
10	16QAM	25	0	21.78	21.82	21.79		
10	16QAM	25	12	21.70	21.86	21.59		
10	16QAM	25	25	21.69	21.91	21.74		
10	16QAM	50	0	21.66	21.79	21.67		
10	64QAM	1	0	21.52	21.64	21.56		
10	64QAM	1	25	21.20	21.43	21.49		
10	64QAM	1	49	21.54	21.23	21.46		
10	64QAM	25	0	21.78	21.82	21.75		
10	64QAM	25	12	21.58	21.59	21.59		
10	64QAM	25	25	21.50	21.69	21.61		
10	64QAM	50	0	21.80	21.63	21.53		
Channel								
Frequency (MHz)								
5	42115	42590	43065	22.5	0			
5	3462.5	3500	3547.5					
5	QPSK	1	0			22.05	22.12	21.93
5	QPSK	1	12			21.95	22.10	21.84
5	QPSK	1	24			21.71	22.10	21.89
5	QPSK	12	0			21.57	21.86	21.77
5	QPSK	12	7			21.51	21.84	21.41
5	QPSK	12	13			21.47	21.62	21.59
5	QPSK	25	0			21.53	21.64	21.49
5	16QAM	1	0			21.40	21.47	21.59
5	16QAM	1	12	21.48	21.53	21.37		
5	16QAM	1	24	21.44	21.62	21.43		
5	16QAM	12	0	21.78	21.83	21.74		
5	16QAM	12	7	21.66	21.84	21.59		
5	16QAM	12	13	21.64	21.93	21.80		
5	16QAM	25	0	21.68	21.75	21.63		
5	64QAM	1	0	21.52	21.61	21.48		
5	64QAM	1	12	21.16	21.46	21.52		
5	64QAM	1	24	21.52	21.24	21.41		
5	64QAM	12	0	21.77	21.86	21.72		
5	64QAM	12	7	21.56	21.61	21.58		
5	64QAM	12	13	21.57	21.64	21.60		
5	64QAM	25	0	21.53	21.68	21.58		



Band 42 FCC Part27Q Main PA Ant6 DS11

Channel	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	21.29	21.30	21.18	22	0
20 QPSK 1 49	21.19	21.21	21.05		
20 QPSK 1 99	21.10	21.17	21.13		
20 QPSK 50 0	21.24	21.27	21.12	22	0
20 QPSK 50 24	21.17	21.07	21.03		
20 QPSK 50 50	20.88	21.04	21.10		
20 QPSK 100 0	20.99	21.15	21.07	22	0
20 16QAM 1 0	21.22	21.14	20.99		
20 16QAM 1 49	21.14	21.04	20.89		
20 16QAM 1 99	20.95	20.98	21.00	22	0
20 16QAM 50 0	21.16	21.21	21.01		
20 16QAM 50 24	21.04	21.02	20.90		
20 16QAM 50 50	20.81	20.93	21.05	22	0
20 16QAM 100 0	20.83	20.95	21.04		
20 64QAM 1 0	21.17	21.19	21.02		
20 64QAM 1 49	21.07	21.01	20.98	22	0
20 64QAM 1 99	20.87	20.83	21.07		
20 64QAM 50 0	21.22	21.19	21.09		
20 64QAM 50 24	21.08	21.03	20.93	22	0
20 64QAM 50 50	20.85	20.94	20.98		
20 64QAM 100 0	20.92	20.98	21.01		
Channel	42165	42590	43015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3457.5	3500	3542.5		
15 QPSK 1 0	21.18	21.21	21.07	22	0
15 QPSK 1 37	21.16	21.15	21.01		
15 QPSK 1 74	21.04	21.13	21.02		
15 QPSK 36 0	21.18	21.22	21.08	22	0
15 QPSK 36 20	21.04	21.02	20.97		
15 QPSK 36 39	20.88	20.91	21.01		
15 QPSK 75 0	20.94	21.12	20.95	22	0
15 16QAM 1 0	21.17	21.03	20.91		
15 16QAM 1 37	21.02	20.92	20.79		
15 16QAM 1 74	20.89	20.91	20.94	22	0
15 16QAM 36 0	21.13	21.19	20.94		
15 16QAM 36 20	21.01	20.97	20.85		
15 16QAM 36 39	20.84	20.79	20.93	22	0
15 16QAM 75 0	20.87	20.82	20.90		
15 64QAM 1 0	21.05	21.12	20.99		
15 64QAM 1 37	21.05	20.87	20.84	22	0
15 64QAM 1 74	20.74	20.85	21.00		
15 64QAM 36 0	21.19	21.11	21.07		
15 64QAM 36 20	20.99	20.94	20.90	22	0
15 64QAM 36 39	20.73	20.81	20.83		
15 64QAM 75 0	20.89	20.86	20.89		
Channel	42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3455	3500	3545		
10 QPSK 1 0	21.27	21.22	21.07	22	0
10 QPSK 1 25	21.16	21.11	20.96		
10 QPSK 1 49	21.00	21.11	21.04		
10 QPSK 25 0	21.19	21.20	21.06	22	0
10 QPSK 25 12	21.06	21.04	20.98		
10 QPSK 25 25	20.87	21.01	21.07		
10 QPSK 50 0	20.87	21.10	21.00	22	0
10 16QAM 1 0	21.20	21.01	20.96		
10 16QAM 1 25	21.11	20.99	20.77		
10 16QAM 1 49	20.91	20.94	20.94	22	0
10 16QAM 25 0	21.03	21.08	20.92		
10 16QAM 25 12	20.96	20.96	20.79		
10 16QAM 25 25	20.80	20.91	20.99	22	0
10 16QAM 50 0	20.81	20.90	20.98		
10 64QAM 1 0	21.12	21.11	20.96		
10 64QAM 1 25	20.94	20.92	20.94	22	0
10 64QAM 1 49	20.83	20.82	21.05		
10 64QAM 25 0	21.10	21.14	20.96		
10 64QAM 25 12	20.99	20.97	20.87	22	0
10 64QAM 25 25	20.72	20.88	20.87		
10 64QAM 50 0	20.83	20.85	20.89		
Channel	42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3452.5	3500	3547.5		
5 QPSK 1 0	21.18	21.25	21.13	22	0
5 QPSK 1 12	21.08	21.16	20.92		
5 QPSK 1 24	21.03	21.09	21.06		
5 QPSK 12 0	21.19	21.23	21.09	22	0
5 QPSK 12 7	21.14	20.96	20.98		
5 QPSK 12 13	20.95	20.96	21.07		
5 QPSK 25 0	20.91	21.06	20.96	22	0
5 16QAM 1 0	21.13	21.10	20.94		
5 16QAM 1 12	21.12	20.95	20.82		
5 16QAM 1 24	20.85	20.86	20.96	22	0
5 16QAM 12 0	21.11	21.17	20.89		
5 16QAM 12 7	20.92	20.89	20.83		
5 16QAM 12 13	20.84	20.88	21.01	22	0
5 16QAM 25 0	20.90	20.82	20.95		
5 64QAM 1 0	21.13	21.10	20.94		
5 64QAM 1 12	20.96	20.91	20.91	22	0
5 64QAM 1 24	20.84	20.90	21.03		
5 64QAM 12 0	21.19	21.07	21.06		
5 64QAM 12 7	21.04	20.91	20.81	22	0
5 64QAM 12 13	20.74	20.90	20.88		
5 64QAM 25 0	20.83	20.89	20.92		



Band 42 FCC Part27Q Mian PA Ant7 DS11

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							
Frequency (MHz)							
20	19.10	19.21	19.10	20	0		
20	18.89	19.01	19.02				
20	18.99	18.98	18.97				
20	18.95	19.14	19.01				
20	18.84	18.96	18.92				
20	18.87	18.86	18.82				
20	18.91	18.99	18.82				
20	19.00	19.06	18.94				
20	18.77	18.93	18.87				
20	18.86	18.88	18.85				
Channel							
Frequency (MHz)							
20	19.01	19.16	19.03	20	0		
20	18.76	18.86	18.98				
20	18.88	18.91	18.81				
20	18.85	18.77	18.91				
20	18.96	19.16	19.02				
20	18.81	18.91	18.96				
20	18.88	18.86	18.89				
20	19.02	19.12	18.94				
20	18.82	18.89	18.94				
20	18.93	18.93	18.96				
Channel							
Frequency (MHz)							
20	18.96	18.84	18.90	20	0		
15	18.95	19.15	18.94				
15	18.77	18.96	18.92				
15	18.91	18.91	18.82				
15	18.80	19.06	18.96				
15	18.79	18.80	18.80				
15	18.83	18.74	18.76				
15	18.77	18.85	18.75				
15	18.93	19.24	18.91				
15	18.72	18.87	18.81				
Channel							
Frequency (MHz)							
15	18.76	18.76	18.75	20	0		
15	18.90	19.01	18.91				
15	18.71	18.73	18.82				
15	18.81	18.86	18.88				
15	18.79	18.81	18.85				
15	18.84	19.03	18.88				
15	18.76	18.85	18.89				
15	18.78	18.81	18.80				
15	18.91	19.00	18.88				
15	18.87	18.83	18.81				
Channel							
Frequency (MHz)							
15	18.89	18.83	18.73	20	0		
15	18.79	18.70	18.86				
Channel							
Frequency (MHz)							
10	18.85	18.17	18.85			20	0
10	18.80	18.86	18.97				
10	18.84	18.90	18.85				
10	18.80	18.99	18.95				
10	18.70	18.82	18.79				
10	18.78	18.74	18.88				
10	18.75	18.89	18.67				
10	18.94	19.01	18.84				
10	18.71	18.84	18.80				
10	18.75	18.72	18.78				
Channel							
Frequency (MHz)							
10	18.95	19.07	18.93	20	0		
10	18.81	18.78	18.92				
10	18.75	18.85	18.73				
10	18.75	18.73	18.80				
10	18.81	19.03	18.90				
10	18.74	18.78	18.82				
10	18.83	18.72	18.74				
10	18.88	19.05	18.87				
10	18.71	18.82	18.67				
10	18.80	18.78	18.76				
Channel							
Frequency (MHz)							
5	18.79	18.74	18.81	20	0		
Channel							
Frequency (MHz)							
5	19.04	19.10	19.03			20	0
5	18.82	18.86	18.91				
5	18.87	18.83	18.88				
5	18.90	19.03	18.94				
5	18.75	18.86	18.78				
5	18.74	18.73	18.69				
5	18.77	18.86	18.70				
5	18.96	18.98	18.88				
5	18.86	18.81	18.81				
5	18.72	18.76	18.70				
Channel							
Frequency (MHz)							
5	18.90	19.06	18.97	20	0		
5	18.80	18.78	18.82				
5	18.83	18.78	18.67				
5	18.71	18.71	18.77				
5	18.86	19.07	18.96				
5	18.71	18.82	18.88				
5	18.90	18.81	18.83				
5	18.88	18.99	18.81				
5	18.74	18.83	18.89				
5	18.80	18.80	18.78				
5	18.71	18.71	18.74				



DSI 3 Power for WWAN Main PA

GSM/3G TX Channel	GSM/3G Tx DSI3			Turn-up Limit (dBm)	Frame-Average Power (dBm)			Turn-up Limit (dBm)
	128	168	251		128	168	251	
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	32.93	33.09	33.06	34.00	23.93	24.09	24.06	25.00
GPRS 1 Tx slot	32.97	33.13	33.07	34.00	23.97	24.13	24.07	25.00
GPRS 2 Tx slot	30.09	30.12	30.04	31.00	24.09	24.12	24.04	25.00
GPRS 3 Tx slot	28.23	28.34	28.19	29.20	23.27	24.08	23.93	24.94
GPRS 4 Tx slot	28.81	28.86	28.68	29.00	23.91	23.95	23.88	25.00
EDGE 1 Tx slot	27.01	27.13	27.08	28.00	18.01	18.13	18.08	19.00
EDGE 2 Tx slot	24.17	24.25	24.10	25.00	18.17	18.25	18.10	19.00
EDGE 3 Tx slot	22.31	22.41	22.28	23.20	18.31	18.41	18.32	19.94
EDGE 4 Tx slot	21.12	21.17	21.04	22.00	18.12	18.17	18.04	19.00

Band	WCDMA V AnB DSI3			Turn-up Limit (dBm)
	4192	4192	4293	
TX Channel	4327	4407	4458	
RX Channel	4364	4364	4465	
Frequency (MHz)				
3GPP Rel 99 AMR 12.2Kbps	23.98	24.11	24.08	25.00
3GPP Rel 99 FMC 12.2Kbps	24.04	24.18	24.13	25.00
3GPP Rel 6 HSDPA Subtest-1	23.15	23.15	23.11	24.00
3GPP Rel 6 HSDPA Subtest-2	23.09	23.15	23.07	24.00
3GPP Rel 6 HSDPA Subtest-3	22.54	22.69	22.61	23.50
3GPP Rel 6 HSDPA Subtest-4	22.56	22.63	22.57	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.03	23.14	23.10	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	23.04	23.14	23.05	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.45	22.60	22.53	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.43	22.56	22.50	23.50
3GPP Rel 6 HSUPA Subtest-1	22.98	23.03	23.05	24.00
3GPP Rel 6 HSUPA Subtest-2	21.06	21.21	21.06	22.00
3GPP Rel 6 HSUPA Subtest-3	22.09	22.28	22.21	23.00
3GPP Rel 6 HSUPA Subtest-4	21.06	21.11	21.03	22.00
3GPP Rel 6 HSUPA Subtest-5	23.02	23.11	23.05	24.00
3GPP Rel 7 HSPA+ (HSPA-M) Subtest-1	20.91	20.70	20.64	21.50



GSM850 Art1 DSS3								
GSM850 Tx Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	126	189	251		126	189	251	
Frequency (MHz)	182.2	182.4	182.8	182.2	182.4	182.8	182.2	182.4
GSM 1 Tx slot	32.02	32.11	32.02	33.50	23.02	23.11	23.02	24.50
GPRS 1 Tx slot	32.05	32.16	32.08	33.50	23.05	23.16	23.08	24.50
GPRS 2 Tx slots	29.21	29.24	29.17	30.50	22.21	23.24	23.17	24.50
GPRS 3 Tx slots	27.46	27.44	27.38	28.50	23.14	23.18	23.08	24.24
GPRS 4 Tx slots	25.97	26.07	26.00	27.50	22.97	23.07	23.00	24.50
EDGE 1 Tx slot	28.21	28.25	28.11	27.50	17.21	17.25	17.11	18.50
EDGE 2 Tx slots	23.24	23.29	23.16	24.50	17.24	17.29	17.16	18.50
EDGE 3 Tx slots	21.40	21.53	21.48	22.70	17.14	17.27	17.22	18.44
EDGE 4 Tx slots	20.15	20.28	20.24	21.50	17.15	17.28	17.24	18.50

GSM1900 Art1 DSS3								
GSM1900 Tx Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1852	1852.8	1852.2	1852	1852.8	1852.2	1852.8
GSM 1 Tx slot	28.13	28.15	28.15	30.00	19.13	19.19	19.15	21.00
GPRS 1 Tx slot	28.16	28.24	28.22	30.00	19.16	19.24	19.22	21.00
GPRS 2 Tx slots	25.27	25.31	25.25	27.00	18.27	18.31	18.25	21.00
GPRS 3 Tx slots	23.65	23.95	23.87	25.20	18.62	19.70	19.61	20.84
GPRS 4 Tx slots	22.33	22.41	22.37	24.00	18.35	18.47	18.37	21.00
EDGE 1 Tx slot	24.79	24.88	24.82	28.00	15.79	15.88	15.82	17.00
EDGE 2 Tx slots	21.97	22.07	21.93	23.00	15.97	16.07	15.93	17.00
EDGE 3 Tx slots	19.90	20.03	19.99	21.20	15.84	15.77	15.63	16.84
EDGE 4 Tx slots	19.20	19.26	19.21	20.00	16.20	16.26	16.21	17.00

Band	WCDMA II Art1 DSS3				WCDMA IV Art1 DSS3			WCDMA V Art1 DSS3				
	Tx Channel	9082	9080	9038	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4132	4182	4233
Rx Channel	9062	9060	9038		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1824.4	1824	1827.6	24.00	1924	1924	1924	24.00	23.22	23.32	23.29	25.00
3GPP Rel 99 RMC 12.5Kbps	22.02	22.12	22.03	24.00	22.10	22.19	22.13	24.00	23.27	23.30	23.35	25.00
3GPP Rel 6 HSDPA Subtest-1	21.06	21.14	21.06	23.00	21.15	21.23	21.20	23.00	22.36	22.34	22.35	24.00
3GPP Rel 6 HSDPA Subtest-2	21.01	21.11	21.03	23.00	21.06	21.09	21.06	23.00	22.23	22.35	22.31	24.00
3GPP Rel 6 HSDPA Subtest-3	20.56	20.60	20.60	22.50	20.60	20.69	20.65	22.50	21.76	21.84	21.88	23.50
3GPP Rel 6 HSDPA Subtest-4	20.53	20.59	20.57	22.50	20.50	20.61	20.56	22.50	21.72	21.85	21.83	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	21.03	21.05	21.03	23.00	21.04	21.16	21.09	23.00	22.28	22.21	22.24	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	20.52	20.55	20.58	22.50	20.56	20.59	20.52	22.50	21.73	21.81	21.66	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	20.56	20.69	20.59	22.50	20.56	20.60	20.54	22.50	21.65	21.82	21.72	23.50
3GPP Rel 6 HSUPA Subtest-1	21.12	21.03	21.01	23.00	21.01	21.16	21.01	23.00	22.16	22.22	22.19	24.00
3GPP Rel 6 HSUPA Subtest-2	19.07	19.06	19.08	21.00	19.11	19.16	19.05	21.00	20.24	20.38	20.35	22.00
3GPP Rel 6 HSUPA Subtest-3	20.11	20.14	20.18	22.00	20.13	20.24	20.24	22.00	21.39	21.45	21.43	23.00
3GPP Rel 6 HSUPA Subtest-4	19.02	19.00	19.03	21.00	19.06	19.03	19.07	21.00	20.20	20.24	20.26	22.00
3GPP Rel 6 HSUPA Subtest-5	21.01	21.01	21.07	23.00	21.05	21.11	21.04	23.00	22.14	22.33	22.18	24.00
3GPP Rel 7 HSPA+ (HSDPA) Subtest-1	18.63	18.75	18.58	20.50	18.62	18.70	18.63	20.50	19.78	20.00	19.84	21.50



Band 41 Main PA Ant1 DSI3

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Middle Ch./Freq., Power High Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple data rows for various modulation schemes and power levels.

Band 42 FCC Part27Q Main PA Ant1 DSI3

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Middle Ch./Freq., Power High Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple data rows for various modulation schemes and power levels.



GSM1900 Anti2 DSIS

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1853	1853.8		1852.2	1853	1853.8	
GSM 1 Tx slot	29.89	29.95	29.93	31.00	20.89	20.95	20.93	22.00
GSM 2 Tx slot	29.92	30.01	29.95	31.00	20.92	21.01	20.95	22.00
GPRS 2 Tx slots	27.08	27.11	27.03	28.00	21.08	21.11	21.03	22.00
GPRS 3 Tx slots	25.21	25.34	25.26	26.20	20.95	21.08	21.00	21.94
GPRS 4 Tx slots	23.82	24.02	23.90	25.00	20.92	21.02	20.90	22.00
EDGE 1 Tx slot	28.15	28.26	28.18	27.00	17.15	17.26	17.18	18.00
EDGE 3 Tx slots	17.39	17.44	17.35	24.00	17.39	17.44	17.35	18.00
EDGE 3 Tx slots	21.53	21.56	21.50	22.20	17.27	17.30	17.24	17.94
EDGE 4 Tx slots	20.54	20.68	20.60	21.00	17.54	17.68	17.60	18.00

WCDMA II Anti2 DSIS

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
TX Channel	9262	9400	9538		1312	1413	1513	
Rx Channel	9662	9800	9938		1537	1638	1738	
Frequency (MHz)	1827.4	1850	1871.6	25.00	1127.4	1127.5	1127.5	25.00
3GPP Rel 99 AMC 12.2kops	23.47	23.56	23.53	25.00	23.43	23.53	23.49	25.00
3GPP Rel 99 RMC 12.2kops	23.50	23.61	23.56	25.00	23.50	23.57	23.52	25.00
3GPP Rel 6 HSDPA Subtest-1	22.48	22.89	22.63	24.00	22.52	22.58	22.59	24.00
3GPP Rel 6 HSDPA Subtest-2	22.54	22.53	22.56	24.00	22.57	22.60	22.58	24.00
3GPP Rel 6 HSDPA Subtest-3	22.05	22.11	22.02	23.50	22.07	22.16	22.02	23.50
3GPP Rel 6 HSDPA Subtest-4	22.00	22.02	22.00	23.50	21.94	22.01	22.03	23.50
3GPP Rel 8 DCHSDPA Subtest-1	22.56	22.53	22.57	24.00	22.54	22.59	22.50	24.00
3GPP Rel 8 DCHSDPA Subtest-2	22.48	22.55	22.46	24.00	22.47	22.55	22.43	24.00
3GPP Rel 8 DCHSDPA Subtest-3	21.88	22.05	21.93	23.50	21.94	22.08	21.93	23.50
3GPP Rel 8 DCHSDPA Subtest-4	21.90	22.02	21.96	23.50	21.82	21.96	21.93	23.50
3GPP Rel 6 HSUPA Subtest-1	22.34	22.47	22.50	24.00	22.41	22.49	22.50	24.00
3GPP Rel 6 HSUPA Subtest-2	20.56	20.65	20.56	22.00	20.56	20.64	20.57	22.00
3GPP Rel 6 HSUPA Subtest-3	21.62	21.71	21.68	23.00	21.62	21.63	21.60	23.00
3GPP Rel 6 HSUPA Subtest-4	20.46	20.50	20.51	22.00	20.46	20.59	20.42	22.00
3GPP Rel 6 HSUPA Subtest-5	22.38	22.60	22.42	24.00	22.40	22.58	22.45	24.00
3GPP Rel 7 HSPA+ (HSDM) Subtest-1	20.07	20.14	20.08	21.50	20.11	20.21	20.06	21.50

**Band 41 Main PA Ant3 DSI3**

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										
Frequency (MHz)										
20	QPSK	1	0	23.12	23.10	23.25	23.20	23.06	24.5	0
20	QPSK	1	49	23.03	22.98	23.12	23.07	23.03		
20	QPSK	1	99	23.01	22.97	23.12	22.97	23.02		
20	QPSK	50	0	22.28	22.20	22.41	22.28	22.26		
20	QPSK	50	24	22.23	22.15	22.30	22.28	22.13	23.5	1
20	QPSK	50	50	22.17	22.12	22.24	22.18	22.05		
20	QPSK	100	0	22.18	22.15	22.30	22.13	22.12		
20	16QAM	1	0	22.11	22.17	22.17	22.13	22.00		
20	16QAM	1	49	22.14	22.06	22.19	22.13	22.01	23.5	1
20	16QAM	50	0	21.17	21.24	21.26	21.23	21.11		
20	16QAM	50	24	21.07	21.09	21.18	21.14	21.08		
20	16QAM	50	50	21.17	21.11	21.27	21.19	21.08		
20	16QAM	100	0	21.06	21.08	21.13	21.05	20.95	22.5	2
20	64QAM	1	0	20.85	20.88	20.97	20.85	20.88		
20	64QAM	1	49	20.71	20.78	20.83	20.84	20.70		
20	64QAM	1	99	20.78	20.88	20.89	20.78	20.79		
20	64QAM	50	0	20.18	20.12	20.25	20.20	20.07	21.5	3
20	64QAM	50	24	20.08	20.08	20.21	20.11	20.06		
20	64QAM	50	50	20.16	20.27	20.26	20.15	20.16		
20	64QAM	100	0	20.07	20.03	20.11	20.16	19.98		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.03	23.04	23.20	23.08	22.92	25	0
15	QPSK	1	37	22.99	22.85	23.04	23.01	22.95		
15	QPSK	1	74	22.94	22.89	23.01	22.90	22.88		
15	QPSK	36	0	22.21	22.06	22.29	22.17	22.22		
15	QPSK	36	20	22.13	22.08	22.16	22.24	22.04	23.5	1
15	QPSK	36	39	22.03	22.05	22.19	22.05	21.91		
15	QPSK	75	0	22.10	22.11	22.15	21.99	22.06		
15	16QAM	1	0	22.05	22.11	22.07	22.08	21.95		
15	16QAM	1	37	22.04	21.95	22.06	22.03	21.90	23.5	1
15	16QAM	1	74	21.87	21.94	22.00	22.05	21.89		
15	16QAM	36	0	21.09	21.16	21.15	21.13	20.96		
15	16QAM	36	20	21.02	20.98	21.08	21.04	21.02		
15	16QAM	36	39	21.03	21.02	21.24	21.11	21.04	22.5	2
15	16QAM	75	0	20.93	21.00	20.98	20.98	20.86		
15	64QAM	1	0	20.73	20.75	20.85	20.76	20.80		
15	64QAM	1	37	20.61	20.74	20.73	20.74	20.59		
15	64QAM	1	74	20.73	20.58	20.75	20.71	20.67	21.5	3
15	64QAM	36	0	20.08	20.05	20.17	20.09	20.02		
15	64QAM	36	20	20.02	20.01	20.17	19.97	20.00		
15	64QAM	36	39	20.04	20.16	20.18	20.09	20.06		
15	64QAM	75	0	19.99	19.84	20.01	20.10	19.87		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.01	22.98	23.15	23.06	22.92	25	0
10	QPSK	1	25	22.91	22.93	23.03	22.93	22.97		
10	QPSK	1	49	22.93	22.84	23.08	22.88	22.97		
10	QPSK	25	0	22.12	22.10	22.38	22.17	22.18		
10	QPSK	25	12	22.16	22.08	22.17	22.16	22.09	23.5	1
10	QPSK	25	25	22.10	21.98	22.19	22.09	22.02		
10	QPSK	50	0	22.10	22.01	22.24	22.09	22.02		
10	16QAM	1	0	21.97	22.03	22.08	22.09	21.89		
10	16QAM	1	25	22.03	22.01	22.09	22.00	21.91	23.5	1
10	16QAM	1	49	21.90	22.02	22.06	22.06	21.90		
10	16QAM	25	0	21.11	21.12	21.19	21.13	20.98		
10	16QAM	25	12	20.99	21.04	21.04	21.02	21.05		
10	16QAM	25	25	21.12	20.97	21.13	21.09	21.00	22.5	2
10	16QAM	50	0	21.02	20.97	21.05	20.94	20.87		
10	64QAM	1	0	20.80	20.79	20.85	20.71	20.77		
10	64QAM	1	25	20.57	20.66	20.76	20.76	20.56		
10	64QAM	1	49	20.65	20.61	20.75	20.65	20.71	21.5	3
10	64QAM	25	0	20.09	20.07	20.14	20.09	20.01		
10	64QAM	25	12	20.02	19.99	20.17	19.95	19.98		
10	64QAM	25	25	20.04	20.19	20.13	20.00	20.04		
10	64QAM	50	0	20.00	19.92	20.02	20.02	19.88		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.00	23.04	23.20	23.13	22.98	25	0
5	QPSK	1	12	22.94	22.80	23.01	22.93	23.00		
5	QPSK	1	24	22.98	22.92	23.07	22.88	22.98		
5	QPSK	12	0	22.22	22.15	22.33	22.23	22.21		
5	QPSK	12	7	22.11	22.11	22.26	22.18	22.10	23.5	1
5	QPSK	12	13	22.05	22.06	22.18	22.14	21.94		
5	QPSK	25	0	22.15	22.08	22.26	22.09	22.01		
5	16QAM	1	0	22.03	22.13	22.12	22.07	21.91		
5	16QAM	1	12	22.09	21.95	22.10	22.05	21.87	23.5	1
5	16QAM	1	24	21.90	21.92	22.05	22.05	21.86		
5	16QAM	12	0	21.07	21.14	21.20	21.12	21.07		
5	16QAM	12	7	20.95	20.98	21.13	21.01	21.02		
5	16QAM	12	13	21.05	20.98	21.20	21.13	20.98	22.5	2
5	16QAM	25	0	20.92	21.02	21.00	20.96	20.87		
5	64QAM	1	0	20.77	20.78	20.89	20.76	20.80		
5	64QAM	1	12	20.60	20.88	20.71	20.71	20.61		
5	64QAM	1	24	20.70	20.59	20.78	20.70	20.65	21.5	3
5	64QAM	12	0	20.69	20.01	20.11	20.11	20.02		
5	64QAM	12	7	20.04	19.97	20.13	19.97	19.95		
5	64QAM	12	13	20.09	20.18	20.20	20.03	20.07		
5	64QAM	25	0	19.97	19.95	20.08	20.08	19.89		



Band 42 FCC Part27Q Main PA Ant5 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42990	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	22.07	22.18	22.02	22.5	0
20	QPSK	1	49	22.02	22.14	21.95		
20	QPSK	1	99	21.78	22.16	21.95		
20	QPSK	50	0	21.83	21.98	21.85	22.5	0
20	QPSK	50	24	21.54	21.91	21.54		
20	QPSK	50	50	21.52	21.89	21.75		
20	QPSK	100	0	21.82	21.77	21.82	22.5	0
20	16QAM	1	0	21.51	21.60	21.65		
20	16QAM	1	49	21.59	21.83	21.39		
20	16QAM	1	99	21.54	21.72	21.56	22.5	0
20	16QAM	50	0	21.88	21.86	21.82		
20	16QAM	50	24	21.74	21.89	21.89		
20	16QAM	50	50	21.74	21.99	21.87	22.5	0
20	16QAM	100	0	21.78	21.81	21.78		
20	84QAM	1	0	21.55	21.73	21.59		
20	84QAM	1	49	21.30	21.53	21.59	22.5	0
20	84QAM	1	99	21.56	21.35	21.54		
20	84QAM	50	0	21.88	21.89	21.81		
20	84QAM	50	24	21.62	21.74	21.64	22.5	0
20	84QAM	50	50	21.61	21.75	21.89		
20	84QAM	100	0	21.85	21.72	21.61		
Channel				42165	42990	43015	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500	3542.5	(dBm)	(dB)
15	QPSK	1	0	22.04	22.07	21.96	22.5	0
15	QPSK	1	37	21.90	22.09	21.88		
15	QPSK	1	74	21.75	22.13	21.91		
15	QPSK	36	0	21.80	21.88	21.75	22.5	0
15	QPSK	36	20	21.42	21.85	21.42		
15	QPSK	36	39	21.39	21.58	21.69		
15	QPSK	75	0	21.55	21.63	21.48	22.5	0
15	16QAM	1	0	21.49	21.54	21.58		
15	16QAM	1	37	21.45	21.53	21.37		
15	16QAM	1	74	21.48	21.70	21.49	22.5	0
15	16QAM	36	0	21.77	21.72	21.70		
15	16QAM	36	20	21.64	21.81	21.66		
15	16QAM	36	39	21.84	21.85	21.84	22.5	0
15	16QAM	75	0	21.68	21.78	21.70		
15	84QAM	1	0	21.50	21.69	21.47		
15	84QAM	1	37	21.26	21.42	21.50	22.5	0
15	84QAM	1	74	21.46	21.25	21.52		
15	84QAM	36	0	21.73	21.83	21.71		
15	84QAM	36	20	21.57	21.88	21.58	22.5	0
15	84QAM	36	39	21.52	21.88	21.54		
15	84QAM	75	0	21.82	21.60	21.51		
Channel				42140	42990	43040	Tune-up limit	MPR
Frequency (MHz)				3455	3500	3545	(dBm)	(dB)
10	QPSK	1	0	22.10	22.15	21.93	22.5	0
10	QPSK	1	25	21.89	22.08	21.92		
10	QPSK	1	49	21.75	22.05	21.83		
10	QPSK	25	0	21.59	21.91	21.80	22.5	0
10	QPSK	25	12	21.44	21.79	21.51		
10	QPSK	25	25	21.49	21.56	21.71		
10	QPSK	50	0	21.55	21.72	21.57	22.5	0
10	16QAM	1	0	21.46	21.50	21.56		
10	16QAM	1	25	21.46	21.35	21.32		
10	16QAM	1	49	21.46	21.62	21.47	22.5	0
10	16QAM	25	0	21.78	21.82	21.79		
10	16QAM	25	12	21.70	21.86	21.59		
10	16QAM	25	25	21.69	21.91	21.74	22.5	0
10	16QAM	50	0	21.68	21.79	21.67		
10	84QAM	1	0	21.52	21.84	21.56		
10	84QAM	1	25	21.20	21.43	21.49	22.5	0
10	84QAM	1	49	21.54	21.23	21.46		
10	84QAM	25	0	21.78	21.82	21.75		
10	84QAM	25	12	21.58	21.59	21.59	22.5	0
10	84QAM	25	25	21.50	21.69	21.61		
10	84QAM	50	0	21.80	21.83	21.53		
Channel				42115	42990	43095	Tune-up limit	MPR
Frequency (MHz)				3452.5	3500	3547.5	(dBm)	(dB)
5	QPSK	1	0	22.05	22.12	21.93	22.5	0
5	QPSK	1	12	21.85	22.10	21.84		
5	QPSK	1	24	21.71	22.10	21.89		
5	QPSK	12	0	21.57	21.86	21.77	22.5	0
5	QPSK	12	7	21.51	21.84	21.41		
5	QPSK	12	13	21.47	21.62	21.69		
5	QPSK	25	0	21.53	21.84	21.49	22.5	0
5	16QAM	1	0	21.40	21.47	21.59		
5	16QAM	1	12	21.48	21.53	21.37		
5	16QAM	1	24	21.44	21.62	21.43	22.5	0
5	16QAM	12	0	21.78	21.83	21.74		
5	16QAM	12	7	21.86	21.84	21.59		
5	16QAM	12	13	21.64	21.93	21.80	22.5	0
5	16QAM	25	0	21.68	21.75	21.63		
5	84QAM	1	0	21.82	21.61	21.48		
5	84QAM	1	12	21.18	21.46	21.52	22.5	0
5	84QAM	1	24	21.52	21.24	21.41		
5	84QAM	12	0	21.77	21.86	21.72		
5	84QAM	12	7	21.56	21.81	21.58	22.5	0
5	84QAM	12	13	21.57	21.64	21.60		
5	84QAM	25	0	21.53	21.68	21.58		



Band 42 FCC Part27Q Main PA Ant6 DSI3

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42990	42990		
Frequency (MHz)				3490	3500	3540		
20	QPSK	1	0	21.29	21.30	21.18	22	0
20	QPSK	1	49	21.19	21.21	21.05		
20	QPSK	1	99	21.10	21.17	21.13		
20	QPSK	50	0	21.24	21.27	21.12	22	0
20	QPSK	50	24	21.17	21.07	21.03		
20	QPSK	50	53	20.98	21.04	21.10		
20	QPSK	100	0	20.99	21.15	21.07	22	0
20	16QAM	1	0	21.22	21.14	20.99		
20	16QAM	1	49	21.14	21.04	20.89		
20	16QAM	1	99	20.95	20.96	21.00	22	0
20	16QAM	50	0	21.16	21.21	21.01		
20	16QAM	50	24	21.04	21.02	20.90		
20	16QAM	50	50	20.91	20.93	21.05	22	0
20	16QAM	100	0	20.93	20.95	21.04		
20	64QAM	1	0	21.17	21.19	21.02		
20	64QAM	1	49	21.07	21.01	20.98	22	0
20	64QAM	1	99	20.87	20.93	21.07		
20	64QAM	50	0	21.22	21.19	21.09		
20	64QAM	50	24	21.08	21.03	20.93	22	0
20	64QAM	50	50	20.85	20.94	20.96		
20	64QAM	100	0	20.92	20.98	21.01		
Channel				42165	42990	43015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3497.5	3500	3542.5		
15	QPSK	1	0	21.18	21.21	21.07	22	0
15	QPSK	1	37	21.16	21.15	21.01		
15	QPSK	1	74	21.04	21.13	21.02		
15	QPSK	36	0	21.18	21.22	21.08	22	0
15	QPSK	36	20	21.04	21.02	20.97		
15	QPSK	36	39	20.88	20.91	21.01		
15	QPSK	75	0	20.94	21.12	20.95	22	0
15	16QAM	1	0	21.17	21.03	20.91		
15	16QAM	1	37	21.02	20.92	20.79		
15	16QAM	1	74	20.89	20.91	20.94	22	0
15	16QAM	36	0	21.13	21.19	20.94		
15	16QAM	36	20	21.01	20.97	20.85		
15	16QAM	36	39	20.84	20.79	20.93	22	0
15	16QAM	75	0	20.87	20.82	20.98		
15	64QAM	1	0	21.05	21.12	20.99		
15	64QAM	1	37	21.05	20.87	20.84	22	0
15	64QAM	1	74	20.74	20.85	21.00		
15	64QAM	36	0	21.19	21.11	21.07		
15	64QAM	36	20	20.99	20.94	20.95	22	0
15	64QAM	36	39	20.73	20.81	20.83		
15	64QAM	75	0	20.89	20.86	20.89		
Channel				42140	42990	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500	3545		
10	QPSK	1	0	21.27	21.22	21.07	22	0
10	QPSK	1	25	21.16	21.11	20.96		
10	QPSK	1	49	21.00	21.11	21.04		
10	QPSK	25	0	21.19	21.20	21.08	22	0
10	QPSK	25	12	21.08	21.04	20.98		
10	QPSK	25	25	20.87	21.01	21.07		
10	QPSK	50	0	20.87	21.10	21.00	22	0
10	16QAM	1	0	21.20	21.01	20.96		
10	16QAM	1	25	21.11	20.99	20.77		
10	16QAM	1	49	20.91	20.94	20.94	22	0
10	16QAM	25	0	21.03	21.08	20.92		
10	16QAM	25	12	20.96	20.96	20.79		
10	16QAM	25	25	20.80	20.91	20.99	22	0
10	16QAM	50	0	20.81	20.90	20.98		
10	64QAM	1	0	21.12	21.11	20.96		
10	64QAM	1	25	20.84	20.92	20.94	22	0
10	64QAM	1	49	20.83	20.82	21.05		
10	64QAM	25	0	21.10	21.14	20.96		
10	64QAM	25	12	20.99	20.97	20.87	22	0
10	64QAM	25	25	20.72	20.88	20.87		
10	64QAM	50	0	20.83	20.85	20.89		
Channel				42115	42990	43095	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3492.5	3500	3547.5		
5	QPSK	1	0	21.18	21.25	21.13	22	0
5	QPSK	1	12	21.08	21.16	20.92		
5	QPSK	1	24	21.03	21.09	21.06		
5	QPSK	12	0	21.19	21.23	21.09	22	0
5	QPSK	12	7	21.14	20.96	20.98		
5	QPSK	12	13	20.95	20.96	21.07		
5	QPSK	25	0	20.81	21.06	20.96	22	0
5	16QAM	1	0	21.13	21.10	20.94		
5	16QAM	1	12	21.12	20.95	20.82		
5	16QAM	1	24	20.85	20.86	20.96	22	0
5	16QAM	12	0	21.11	21.17	20.89		
5	16QAM	12	7	20.92	20.89	20.83		
5	16QAM	12	13	20.84	20.88	21.01	22	0
5	16QAM	25	0	20.90	20.82	20.95		
5	64QAM	1	0	21.13	21.10	20.94		
5	64QAM	1	12	20.88	20.91	20.91	22	0
5	64QAM	1	24	20.84	20.90	21.03		
5	64QAM	12	0	21.19	21.07	21.06		
5	64QAM	12	7	21.04	20.91	20.81	22	0
5	64QAM	12	13	20.74	20.90	20.88		
5	64QAM	25	0	20.83	20.89	20.92		



Band 42 FCC Part27Q Mian PA Ant7 DSI3

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42990	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.62	23.62	23.48	24.5	0
20	QPSK	1	49	23.32	23.44	23.38		
20	QPSK	1	99	23.36	23.43	23.36		
20	QPSK	50	0	22.45	22.50	22.40	23.5	1
20	QPSK	50	24	22.37	22.49	22.43		
20	QPSK	50	50	22.30	22.35	22.23		
20	QPSK	100	0	22.28	22.37	22.25	23.5	1
20	16QAM	1	0	22.28	22.37	22.33		
20	16QAM	1	49	22.20	22.33	22.19		
20	16QAM	1	99	22.15	22.25	22.12	22.5	2
20	16QAM	50	0	21.40	21.50	21.45		
20	16QAM	50	24	21.32	21.46	21.36		
20	16QAM	50	50	21.34	21.48	21.39	21.5	3
20	16QAM	100	0	21.21	21.34	21.28		
20	84QAM	1	0	21.35	21.42	21.33		
20	84QAM	1	49	21.27	21.35	21.28	22.5	2
20	84QAM	1	99	21.16	21.25	21.12		
20	84QAM	50	0	20.41	20.50	20.43		
20	84QAM	50	24	20.35	20.38	20.28	21.5	3
20	84QAM	50	50	20.32	20.46	20.33		
20	84QAM	100	0	20.28	20.35	20.28		
Channel				42165	42990	43015		
Frequency (MHz)				3467.5	3500	3542.5		
15	QPSK	1	0	23.44	23.50	23.43	24.5	0
15	QPSK	1	37	23.25	23.32	23.32		
15	QPSK	1	74	23.22	23.39	23.24		
15	QPSK	36	0	22.41	22.35	22.30	23.5	1
15	QPSK	36	20	22.28	22.36	22.35		
15	QPSK	36	39	22.17	22.31	22.18		
15	QPSK	75	0	22.24	22.32	22.11	23.5	1
15	16QAM	1	0	22.25	22.25	22.25		
15	16QAM	1	37	22.12	22.20	22.14		
15	16QAM	1	74	22.07	22.15	22.03	22.5	2
15	16QAM	36	0	21.31	21.37	21.37		
15	16QAM	36	20	21.29	21.38	21.29		
15	16QAM	36	39	21.31	21.34	21.31	22.5	2
15	16QAM	75	0	21.14	21.21	21.15		
15	84QAM	1	0	21.24	21.29	21.22		
15	84QAM	1	37	21.16	21.32	21.15	21.5	3
15	84QAM	1	74	21.11	21.22	21.00		
15	84QAM	36	0	20.33	20.46	20.30		
15	84QAM	36	20	20.25	20.29	20.22	21.5	3
15	84QAM	36	39	20.28	20.34	20.28		
15	84QAM	75	0	20.15	20.23	20.22		
Channel				42140	42990	43040		
Frequency (MHz)				3465	3500	3535		
10	QPSK	1	0	23.38	23.48	23.34	24.5	0
10	QPSK	1	25	23.18	23.29	23.29		
10	QPSK	1	49	23.31	23.32	23.33		
10	QPSK	25	0	22.33	22.38	22.36	23.5	1
10	QPSK	25	12	22.28	22.42	22.36		
10	QPSK	25	25	22.18	22.29	22.13		
10	QPSK	50	0	22.23	22.29	22.19	23.5	1
10	16QAM	1	0	22.17	22.33	22.28		
10	16QAM	1	25	22.11	22.18	22.12		
10	16QAM	1	49	22.00	22.13	21.98	22.5	2
10	16QAM	25	0	21.31	21.45	21.38		
10	16QAM	25	12	21.27	21.40	21.21		
10	16QAM	25	25	21.21	21.44	21.29	21.5	3
10	16QAM	50	0	21.09	21.24	21.18		
10	84QAM	1	0	21.24	21.31	21.20		
10	84QAM	1	25	21.23	21.28	21.21	22.5	2
10	84QAM	1	49	21.09	21.17	21.08		
10	84QAM	25	0	20.33	20.37	20.40		
10	84QAM	25	12	20.32	20.33	20.12	21.5	3
10	84QAM	25	25	20.22	20.33	20.26		
10	84QAM	50	0	20.15	20.25	20.18		
Channel				42115	42990	43055		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	23.45	23.48	23.35	24.5	0
5	QPSK	1	12	23.18	23.31	23.31		
5	QPSK	1	24	23.29	23.36	23.28		
5	QPSK	12	0	22.35	22.45	22.36	23.5	1
5	QPSK	12	7	22.29	22.45	22.36		
5	QPSK	12	13	22.26	22.28	22.10		
5	QPSK	25	0	22.25	22.32	22.17	23.5	1
5	16QAM	1	0	22.23	22.30	22.23		
5	16QAM	1	12	22.16	22.26	22.14		
5	16QAM	1	24	22.01	22.19	22.06	22.5	2
5	16QAM	12	0	21.36	21.46	21.41		
5	16QAM	12	7	21.24	21.33	21.22		
5	16QAM	12	13	21.28	21.36	21.28	22.5	2
5	16QAM	25	0	21.09	21.30	21.17		
5	84QAM	1	0	21.28	21.28	21.28		
5	84QAM	1	12	21.16	21.24	21.11	21.5	3
5	84QAM	1	24	21.02	21.21	21.00		
5	84QAM	12	0	20.34	20.37	20.28		
5	84QAM	12	7	20.20	20.24	20.21	21.5	3
5	84QAM	12	13	20.28	20.40	20.20		
5	84QAM	25	0	20.13	20.26	20.17		



DSI4 Power for WWAN Main PA

GSM900	GSM900 Avd DB4			Turn-up Limit (dBm)	Emission Power (dBm)			Turn-up Limit (dBm)
	RA Channel	Burst Average Power (dBm)	Power Spectral Density (dBm)		1.4MHz	3MHz	5MHz	
Frequency (MHz)	824.2	834.4	844.6	824.2	834.4	844.6		
Power (dBm)	33.03	33.03	33.03	34.00	33.03	34.00	24.00	25.00
EDGE-1 Tx sub	33.07	33.11	33.07	34.00	33.07	34.11	24.07	25.00
EDGE-2 Tx sub	33.09	33.12	33.04	34.00	34.09	34.12	24.04	25.00
EDGE-3 Tx sub	29.21	29.24	29.19	29.20	29.27	29.23	23.93	24.84
EDGE-4 Tx sub	29.01	29.05	29.08	29.00	29.01	29.05	23.88	25.00
EDGE-5 Tx sub	21.41	21.43	21.56	21.40	18.44	18.13	18.08	19.00
EDGE-6 Tx sub	24.17	24.20	24.10	25.00	18.17	18.25	18.10	19.00
EDGE-7 Tx sub	22.81	22.41	22.28	23.20	18.09	18.15	18.02	18.84
EDGE-8 Tx sub	21.12	21.17	21.04	22.00	18.12	18.17	18.04	19.00

WCDMA	WCDMA-V Avd DB4			Turn-up Limit (dBm)
	RA Channel	Power Spectral Density (dBm)	Power Spectral Density (dBm)	
RA Channel	4192	4182	4283	
RA Channel	4287	4460	4460	4287
Frequency (MHz)	824.2	834.4	844.6	
ISPP Rule 1	AMV 1x 200kb	24.10	24.10	25.00
ISPP Rule 2	AMV 1x 200kb	24.04	24.13	25.00
ISPP Rule 3	HS-DSPA Subcar-1	22.15	22.15	24.00
ISPP Rule 4	HS-DSPA Subcar-2	21.09	21.15	24.00
ISPP Rule 5	HS-DSPA Subcar-3	22.54	22.60	22.81
ISPP Rule 6	HS-DSPA Subcar-4	22.66	22.61	22.97
ISPP Rule 7	DC-HS-DSPA Subcar-1	23.03	23.14	23.10
ISPP Rule 8	DC-HS-DSPA Subcar-2	22.54	22.74	22.65
ISPP Rule 9	DC-HS-DSPA Subcar-3	22.45	22.60	22.53
ISPP Rule 10	DC-HS-DSPA Subcar-4	22.43	22.50	22.50
ISPP Rule 11	HS-DSPA Subcar-1	22.38	23.03	23.05
ISPP Rule 12	HS-DSPA Subcar-2	21.08	21.21	21.26
ISPP Rule 13	HS-DSPA Subcar-3	22.90	22.26	22.41
ISPP Rule 14	HS-DSPA Subcar-4	21.86	21.11	21.93
ISPP Rule 15	HS-DSPA Subcar-5	21.22	21.1	21.55
ISPP Rule 16	HS-DSPA Subcar-6	25.07	20.70	20.64
ISPP Rule 17	MERL1 TDM-AM Subcar-1	25.07	20.70	20.64



GSM900 Art DB4								
TV Channel	Base Average Power (dBm)			Tx-tp	Frame Average Power (dBm)			Ch. Comp. 1:5
	181.2	181.4	181.6		181.2	181.4	181.6	
Frequency (MHz)	181.2	181.4	181.6	(dBm)	181.2	181.4	181.6	
OPRS 1 Tx-tp	20.36	20.40	20.35	20.00	21.38	21.40	21.58	20.00
OPRS 2 Tx-tp	30.33	30.40	30.40	32.00	21.33	21.40	21.40	20.00
OPRS 3 Tx-tp	27.55	27.40	27.50	29.00	21.55	21.40	21.50	20.00
OPRS 4 Tx-tp	25.66	25.71	25.70	27.00	21.40	21.47	21.44	20.00
EDGE 1 Tx-tp	24.55	24.50	24.75	26.00	21.22	21.28	21.15	20.00
EDGE 2 Tx-tp	24.55	24.40	24.35	26.00	19.90	19.90	19.90	17.00
EDGE 3 Tx-tp	21.86	21.54	21.52	23.00	18.56	18.54	18.52	17.00
EDGE 4 Tx-tp	18.41	18.50	18.49	20.00	15.41	15.50	15.49	17.00

GSM1900 Art DB4								
TV Channel	Base Average Power (dBm)			Tx-tp	Frame Average Power (dBm)			Ch. Comp. 1:5
	1850.2	1850	1850.8		1850.2	1850	1850.8	
Frequency (MHz)	1850.2 <td>1850 <td>1850.8 <td>(dBm)</td> <td>1850.2 <td>1850 <td>1850.8 <td></td> </td></td></td></td></td>	1850 <td>1850.8 <td>(dBm)</td> <td>1850.2 <td>1850 <td>1850.8 <td></td> </td></td></td></td>	1850.8 <td>(dBm)</td> <td>1850.2 <td>1850 <td>1850.8 <td></td> </td></td></td>	(dBm)	1850.2 <td>1850 <td>1850.8 <td></td> </td></td>	1850 <td>1850.8 <td></td> </td>	1850.8 <td></td>	
DSM 1 Tx-tp	24.13	24.24	24.17	26.00	15.12	15.24	15.17	17.00
OPRS 1 Tx-tp	24.17	24.25	24.16	26.00	15.17	15.21	15.15	17.00
OPRS 2 Tx-tp	21.24	21.20	21.23	23.00	15.24	15.28	15.23	17.00
OPRS 3 Tx-tp	19.93	19.92	19.91	21.20	15.97	15.99	15.95	16.84
OPRS 4 Tx-tp	18.97	18.92	18.95	20.00	15.97	15.92	15.93	17.00
EDGE 1 Tx-tp	22.44	22.42	22.75	22.00	11.84	11.92	11.76	13.00
EDGE 2 Tx-tp	17.81	18.02	17.89	19.00	11.81	12.02	11.89	13.00
EDGE 3 Tx-tp	15.91	16.01	15.87	17.00	11.85	11.75	11.81	12.84
EDGE 4 Tx-tp	15.24	15.25	15.22	16.00	11.24	11.23	11.22	13.00

TV Channel	WCDMA II Art DB4			WCDMA IV Art DB4			WCDMA V Art DB4			
	9000	9000	9008	9000	9008	9016	4192	4192	4200	
Frequency (MHz)	9000	9000	9008	(dBm)	9000	9008	9000	4192	4192	4200
ISPP Full	15.47	14.60	14.52	17.00	17.24	17.23	17.23	19.50	21.60	21.61
ISPP Full	RNC H2000a	15.56	15.65	15.58	17.50	17.83	17.67	17.83	19.90	21.62
ISPP Full	HSPA Subcar1	14.71	14.80	14.80	16.50	16.50	16.50	18.50	20.60	20.71
ISPP Full	HSPA Subcar2	14.65	14.67	14.59	16.50	16.60	16.62	16.61	18.50	20.75
ISPP Full	HSPA Subcar3	14.11	14.17	14.20	16.00	16.11	16.13	16.10	18.00	20.25
ISPP Full	HSPA Subcar4	14.15	14.18	14.18	16.00	16.03	16.19	16.09	18.00	20.19
ISPP Full	DCH/HSPA Subcar1	14.66	14.60	14.88	16.50	16.63	16.64	16.67	18.50	20.66
ISPP Full	DCH/HSPA Subcar2	14.65	14.61	14.87	16.50	16.71	16.67	16.52	18.00	20.54
ISPP Full	DCH/HSPA Subcar3	14.68	14.10	14.20	16.00	16.00	16.14	16.00	18.00	20.12
ISPP Full	DCH/HSPA Subcar4	14.21	14.21	14.14	16.00	16.11	16.20	16.00	18.00	20.17
ISPP Full	HSPA Subcar1	14.76	14.61	14.65	16.50	16.62	16.65	16.50	20.00	20.60
ISPP Full	HSPA Subcar2	12.87	12.83	12.87	14.50	14.87	14.73	14.88	16.50	18.56
ISPP Full	HSPA Subcar3	13.70	13.71	13.77	15.00	15.76	15.60	15.90	17.50	19.74
ISPP Full	HSPA Subcar4	12.88	12.81	12.81	14.50	14.88	14.60	14.82	16.50	18.59
ISPP Full	HSPA Subcar5	14.60	14.60	14.72	16.50	16.71	16.76	16.68	18.00	20.46
ISPP Full	HSPA TDD(M) Subcar1	12.28	12.50	12.24	14.00	14.19	14.31	14.23	16.00	18.25



GSM1900 AHD DBA						
Tx Channel	Burst Average Power (dBm)			Time-up		
	900	1800	1800.8	Limit (dBm)	1800	1800.8
Frequency (MHz)	1800.2	1800	1800.8	1800	1800	1800.8
OPRS 1 Tx.lev	23.39	23.82	23.53	21.00	21.59	20.99
OPRS 2 Tx.lev	23.02	23.01	23.00	21.00	20.92	21.01
OPRS 3 Tx.lev	21.08	21.11	21.03	20.00	21.08	21.11
OPRS 4 Tx.lev	23.21	23.24	23.26	20.00	20.95	21.00
EDGE 1 Tx.lev	23.92	24.02	23.90	20.00	20.92	21.02
EDGE 2 Tx.lev	23.15	23.21	23.19	21.00	17.10	17.08
EDGE 3 Tx.lev	23.36	23.44	23.35	24.00	17.36	17.44
EDGE 4 Tx.lev	23.03	21.99	21.99	24.00	17.03	17.04
EDGE 5 Tx.lev	23.04	23.08	23.00	21.00	17.54	17.03

Burst	WCDMA II AHD DBA			WCDMA IV AHD DBA		
	900	900	900.8	Time-up Limit (dBm)	1812	1812
Frequency (MHz)	1800.2	1800	1800.8	1812	1812	1812
SCPP Rate 0	AMC 12.2kbit/s	20.01	20.00	20.00	21.01	22.02
SCPP Rate 1	AMC 12.2kbit/s	20.05	20.10	20.11	21.00	21.97
SCPP Rate 2	AMC 12.2kbit/s	18.56	18.20	18.16	20.00	21.01
SCPP Rate 3	AMC 12.2kbit/s	18.04	18.03	18.02	20.00	21.03
SCPP Rate 4	AMC 12.2kbit/s	18.55	18.64	18.53	20.00	20.67
SCPP Rate 5	AMC 12.2kbit/s	18.55	18.57	18.48	20.00	20.59
SCPP Rate 6	AMC 12.2kbit/s	18.03	18.08	18.12	20.00	21.02
SCPP Rate 7	AMC 12.2kbit/s	18.03	18.02	18.00	20.00	21.08
SCPP Rate 8	AMC 12.2kbit/s	18.31	18.50	18.44	20.00	20.44
SCPP Rate 9	AMC 12.2kbit/s	18.43	18.5	18.49	20.00	20.37
SCPP Rate 10	AMC 12.2kbit/s	18.05	18.08	18.06	20.00	20.93
SCPP Rate 11	AMC 12.2kbit/s	17.03	17.11	17.01	18.00	19.05
SCPP Rate 12	AMC 12.2kbit/s	18.17	18.20	18.13	19.00	20.19
SCPP Rate 13	AMC 12.2kbit/s	18.21	18.07	18.06	18.00	18.09
SCPP Rate 14	AMC 12.2kbit/s	18.33	18.00	18.00	20.00	21.04
SCPP Rate 15	AMC 12.2kbit/s	18.55	18.63	18.53	18.00	18.65



Band 41 Main PA Ant3 DSI4

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												
Frequency (MHz)												
20	QPSK	1	0	20.65	20.69	20.74	20.78	20.73	22	0		
20	QPSK	1	49	20.55	20.54	20.71	20.52	20.58				
20	QPSK	1	99	20.66	20.67	20.67	20.69	20.53				
20	QPSK	50	0	20.00	20.84	20.70	20.55	20.68				
20	QPSK	50	24	20.47	20.56	20.75	20.64	20.54				
20	QPSK	50	50	20.53	20.37	20.45	20.48	20.33				
20	QPSK	100	0	20.55	20.55	20.60	20.34	20.42				
20	16QAM	1	0	20.41	20.42	20.44	20.51	20.27	22	0		
20	16QAM	1	49	20.45	20.30	20.60	20.40	20.25				
20	16QAM	1	99	20.50	20.38	20.38	20.45	20.25				
20	16QAM	50	0	20.63	20.73	20.76	20.79	20.62				
20	16QAM	50	24	20.52	20.55	20.52	20.60	20.53				
20	16QAM	50	50	20.62	20.59	20.72	20.68	20.62				
20	16QAM	100	0	20.54	20.63	20.66	20.57	20.42				
20	64QAM	1	0	20.36	20.35	20.53	20.34	20.34	22	0		
20	64QAM	1	49	20.18	20.32	20.32	20.29	20.22				
20	64QAM	1	99	20.26	20.18	20.43	20.33	20.33				
20	64QAM	50	0	20.18	20.12	20.25	20.20	20.07				
20	64QAM	50	24	20.08	20.08	20.21	20.11	20.06				
20	64QAM	50	50	20.16	20.07	20.26	20.15	20.16				
20	64QAM	100	0	20.07	20.03	20.11	20.16	19.98				
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.53	20.59	20.74	20.71	20.69	22	0		
15	QPSK	1	37	20.46	20.45	20.62	20.44	20.51				
15	QPSK	1	74	20.55	20.44	20.47	20.55	20.50				
15	QPSK	36	0	20.49	20.60	20.68	20.44	20.57				
15	QPSK	36	36	20.43	20.48	20.68	20.53	20.46				
15	QPSK	36	36	20.45	20.27	20.35	20.45	20.21				
15	QPSK	75	0	20.52	20.47	20.58	20.22	20.31	22	0		
15	16QAM	1	0	20.31	20.32	20.38	20.43	20.14				
15	16QAM	1	37	20.34	20.17	20.49	20.38	20.11				
15	16QAM	1	74	20.41	20.32	20.29	20.40	20.16				
15	16QAM	36	0	20.57	20.69	20.63	20.69	20.56				
15	16QAM	36	20	20.39	20.43	20.52	20.50	20.41				
15	16QAM	36	36	20.48	20.48	20.67	20.65	20.58	22	0		
15	16QAM	75	0	20.44	20.59	20.55	20.48	20.36				
15	64QAM	1	0	20.25	20.24	20.44	20.21	20.28				
15	64QAM	1	37	20.12	20.34	20.23	20.26	20.16				
15	64QAM	1	74	20.23	20.13	20.38	20.25	20.28				
15	64QAM	36	0	20.08	20.05	20.17	20.09	20.02				
15	64QAM	36	20	20.02	20.01	20.17	20.07	20.00	21.5	0.5		
15	64QAM	36	36	20.04	20.16	20.18	20.09	20.06				
15	64QAM	75	0	19.99	19.94	20.01	20.10	19.87				
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.81	20.59	20.74	20.89	20.87	22	0		
10	QPSK	1	25	20.45	20.60	20.60	20.47	20.46				
10	QPSK	1	49	20.57	20.44	20.53	20.58	20.49				
10	QPSK	25	0	20.50	20.53	20.68	20.52	20.57				
10	QPSK	25	12	20.34	20.45	20.70	20.55	20.51				
10	QPSK	25	25	20.43	20.31	20.37	20.45	20.25				
10	QPSK	50	0	20.45	20.45	20.69	20.21	20.40	22	0		
10	16QAM	1	0	20.36	20.35	20.32	20.48	20.18				
10	16QAM	1	25	20.33	20.18	20.55	20.38	20.20				
10	16QAM	1	49	20.38	20.07	20.32	20.41	20.15				
10	16QAM	25	0	20.57	20.70	20.73	20.67	20.56				
10	16QAM	25	12	20.38	20.48	20.51	20.59	20.41	22	0		
10	16QAM	25	25	20.55	20.50	20.65	20.63	20.55				
10	16QAM	50	0	20.44	20.53	20.57	20.46	20.40				
10	64QAM	1	0	20.33	20.25	20.41	20.22	20.24				
10	64QAM	1	25	20.16	20.25	20.19	20.20	20.19				
10	64QAM	1	49	20.15	20.08	20.27	20.18	20.28	21.5	0.5		
10	64QAM	25	0	20.00	20.07	20.14	20.09	20.01				
10	64QAM	25	12	20.02	19.99	20.17	19.96	19.98				
10	64QAM	25	25	20.04	20.19	20.13	20.00	20.04				
10	64QAM	50	0	20.00	19.92	20.02	20.02	19.98				
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.52	20.57	20.66	20.69	20.67	22	0		
5	QPSK	1	12	20.48	20.44	20.64	20.44	20.54				
5	QPSK	1	24	20.62	20.60	20.46	20.59	20.42				
5	QPSK	12	0	20.55	20.51	20.52	20.51	20.51				
5	QPSK	12	7	20.38	20.44	20.68	20.55	20.43				
5	QPSK	12	13	20.47	20.33	20.38	20.44	20.26	22	0		
5	QPSK	24	0	20.51	20.43	20.58	20.25	20.32				
5	16QAM	1	0	20.34	20.37	20.38	20.37	20.19				
5	16QAM	1	12	20.42	20.25	20.57	20.37	20.12				
5	16QAM	1	24	20.45	20.33	20.22	20.39	20.23				
5	16QAM	12	0	20.54	20.66	20.63	20.75	20.51	22	0		
5	16QAM	12	7	20.41	20.44	20.59	20.51	20.43				
5	16QAM	12	13	20.48	20.49	20.66	20.58	20.55				
5	16QAM	24	0	20.49	20.59	20.61	20.49	20.38				
5	16QAM	1	0	20.23	20.31	20.41	20.28	20.21				
5	64QAM	1	12	20.11	20.22	20.22	20.27	20.19	22	0		
5	64QAM	1	24	20.31	20.14	20.28	20.17	20.34				
5	64QAM	12	0	20.08	20.01	20.11	20.11	20.02				
5	64QAM	12	7	20.04	19.97	20.13	19.87	19.95				
5	64QAM	12	13	20.00	20.18	20.20	20.00	20.07				
5	64QAM	24	0	19.97	19.95	20.08	20.08	19.89				



Band 42 FCC Part27Q Main PA Ant5 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3440	3460	3480			
Frequency (MHz)				3440	3460	3480			
20	QPSK	1	0	20.08	20.12	20.01	20.5	0	
20	QPSK	1	48	20.08	20.14	19.99			
20	QPSK	1	96	19.74	20.16	20.00			
20	QPSK	50	0	19.87	19.92	19.80			
20	QPSK	50	24	19.54	19.85	19.58	20.5	0	
20	QPSK	50	48	19.55	19.87	19.78			
20	QPSK	100	0	19.81	19.74	19.88			
20	HQAM	1	0	19.58	19.63	19.66			
20	HQAM	1	48	19.63	19.63	19.41	20.5	0	
20	HQAM	1	96	19.55	19.72	19.57			
20	HQAM	50	0	19.85	19.82	19.87			
20	HQAM	50	24	19.71	19.87	19.75	20.5	0	
20	HQAM	50	48	19.71	19.86	19.81			
20	HQAM	100	0	19.74	19.80	19.75			
20	HQAM	100	0	19.53	19.52	19.52			
20	HQAM	1	48	19.35	19.55	19.80	20.5	0	
20	HQAM	1	96	19.51	19.38	19.53			
20	HQAM	50	0	19.81	19.87	19.73			
20	HQAM	50	24	19.38	19.65	19.65	20.5	0	
20	HQAM	50	50	19.59	19.69	19.54			
20	HQAM	100	0	19.43	19.47	19.57			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	19.97	20.11	19.89	20.5	0	
15	QPSK	1	37	20.03	20.11	19.97			
15	QPSK	1	74	19.84	20.08	19.87			
15	QPSK	36	0	19.58	19.85	19.68			
15	QPSK	36	30	19.44	19.74	19.54	20.5	0	
15	QPSK	36	59	19.50	19.63	19.67			
15	QPSK	75	0	19.62	19.65	19.67			
15	HQAM	1	0	19.45	19.62	19.56			
15	HQAM	1	37	19.84	19.68	19.31	20.5	0	
15	HQAM	1	74	19.51	19.64	19.46			
15	HQAM	36	0	19.75	19.68	19.78			
15	HQAM	36	20	19.67	19.81	19.57	20.5	0	
15	HQAM	36	59	19.65	19.80	19.74			
15	HQAM	75	0	19.69	19.72	19.62			
15	HQAM	1	0	19.45	19.58	19.50			
15	HQAM	1	37	19.22	19.47	19.57	20.5	0	
15	HQAM	1	74	19.38	19.25	19.47			
15	HQAM	36	0	19.74	19.79	19.69			
15	HQAM	36	30	19.35	19.54	19.52	20.5	0	
15	HQAM	36	59	19.64	19.52	19.46			
15	HQAM	75	0	19.52	19.43	19.44			
Channel				42169	42590	43090	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	19.96	20.06	19.96	20.5	0	
10	QPSK	1	65	19.99	20.02	19.88			
10	QPSK	1	48	19.71	20.03	19.95			
10	QPSK	25	0	19.60	19.70	19.71			
10	QPSK	25	12	19.51	19.74	19.51	20.5	0	
10	QPSK	25	25	19.44	19.66	19.65			
10	QPSK	50	0	19.55	19.65	19.62			
10	HQAM	1	0	19.62	19.52	19.59			
10	HQAM	1	25	19.57	19.55	19.37	20.5	0	
10	HQAM	1	49	19.42	19.70	19.52			
10	HQAM	25	0	19.82	19.74	19.79			
10	HQAM	25	12	19.68	19.81	19.59	20.5	0	
10	HQAM	25	25	19.63	19.88	19.69			
10	HQAM	50	0	19.71	19.74	19.64			
10	HQAM	1	0	19.44	19.66	19.53			
10	HQAM	1	25	19.27	19.48	19.54	20.5	0	
10	HQAM	1	49	19.39	19.27	19.48			
10	HQAM	25	0	19.71	19.73	19.62			
10	HQAM	25	12	19.33	19.48	19.54	20.5	0	
10	HQAM	25	25	19.49	19.45	19.43			
10	HQAM	50	0	19.29	19.38	19.53			
Channel				42115	42590	43068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3422.5	3460	3497.5			
5	QPSK	1	0	19.92	20.11	19.95	20.5	0	
5	QPSK	1	12	20.01	20.01	19.84			
5	QPSK	1	24	19.69	20.10	19.95			
5	QPSK	12	0	19.63	19.82	19.75			
5	QPSK	12	7	19.47	19.79	19.50	20.5	0	
5	QPSK	12	13	19.47	19.83	19.68			
5	QPSK	25	0	19.53	19.61	19.63			
5	HQAM	1	0	19.53	19.67	19.59			
5	HQAM	1	12	19.50	19.63	19.38	20.5	0	
5	HQAM	1	24	19.62	19.62	19.50			
5	HQAM	12	0	19.75	19.72	19.85			
5	HQAM	12	7	19.68	19.81	19.58	20.5	0	
5	HQAM	12	13	19.68	19.80	19.73			
5	HQAM	25	0	19.68	19.60	19.70			
5	HQAM	1	0	19.46	19.67	19.44			
5	HQAM	1	12	19.21	19.42	19.56	20.5	0	
5	HQAM	1	24	19.39	19.28	19.44			
5	HQAM	12	0	19.73	19.74	19.62			
5	HQAM	12	7	19.28	19.48	19.53	20.5	0	
5	HQAM	12	13	19.53	19.61	19.44			
5	HQAM	25	0	19.30	19.44	19.52			



Band 42 FCC Part27Q Main PA Ant6 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42990	42990			
Frequency (MHz)				3640	3690	3690			
20	QPSK	1	0	17.84	17.84	17.86	18.5	0	
20	QPSK	1	49	17.87	17.78	17.82			
20	QPSK	1	99	17.74	17.80	17.76			
20	QPSK	50	0	17.63	17.65	17.62			
20	QPSK	50	24	17.55	17.56	17.36	18.5	0	
20	QPSK	50	49	17.47	17.57	17.44			
20	QPSK	100	0	17.50	17.62	17.52			
20	HQAM	1	0	17.38	17.52	17.35			
20	HQAM	1	49	17.28	17.45	17.41	18.5	0	
20	HQAM	1	99	17.25	17.41	17.28			
20	HQAM	50	0	17.59	17.64	17.34			
20	HQAM	50	24	17.52	17.43	17.45	18.5	0	
20	HQAM	50	49	17.39	17.60	17.28			
20	HQAM	100	0	17.43	17.55	17.26			
20	HQAM	1	0	17.27	17.33	17.27			
20	HQAM	1	49	17.28	17.23	17.30	18.5	0	
20	HQAM	1	99	17.01	17.28	17.04			
20	HQAM	50	0	17.51	17.52	17.40			
20	HQAM	50	24	17.28	17.45	17.44	18.5	0	
20	HQAM	50	49	17.33	17.50	17.47			
20	HQAM	100	0	17.32	17.54	17.46			
Channel				42195	42990	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3427.5	3500	3522.5			
15	QPSK	1	0	17.80	17.86	17.84	18.5	0	
15	QPSK	1	37	17.77	17.86	17.81			
15	QPSK	1	74	17.55	17.66	17.68			
15	QPSK	36	0	17.81	17.46	17.40	18.5	0	
15	QPSK	36	30	17.50	17.43	17.18			
15	QPSK	36	59	17.20	17.45	17.30			
15	QPSK	75	0	17.38	17.64	17.18			
15	HQAM	1	0	17.26	17.47	17.13	18.5	0	
15	HQAM	1	37	17.27	17.43	17.41			
15	HQAM	1	74	17.07	17.38	17.28			
15	HQAM	36	0	17.21	17.40	17.39	18.5	0	
15	HQAM	36	20	17.38	17.28	17.36			
15	HQAM	36	59	17.59	17.46	17.13	18.5	0	
15	HQAM	75	0	17.33	17.52	17.30			
15	HQAM	1	0	17.20	17.15	17.28			
15	HQAM	1	37	17.18	17.26	17.23	18.5	0	
15	HQAM	1	74	16.82	17.23	17.05			
15	HQAM	36	0	17.47	17.58	17.40			
15	HQAM	36	30	17.15	17.33	17.43	18.5	0	
15	HQAM	36	59	17.32	17.40	17.40			
15	HQAM	75	0	17.14	17.44	17.40			
Channel				42199	42990	42990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	17.61	17.74	17.58	18.5	0	
10	QPSK	1	25	17.77	17.77	17.64			
10	QPSK	1	49	17.73	17.64	17.88			
10	QPSK	25	0	17.67	17.68	17.41	18.5	0	
10	QPSK	25	12	17.55	17.45	17.28			
10	QPSK	25	25	17.48	17.38	17.29			
10	QPSK	50	0	17.37	17.64	17.26			
10	HQAM	1	0	17.19	17.34	17.24	18.5	0	
10	HQAM	1	25	17.28	17.41	17.29			
10	HQAM	1	49	17.20	17.27	17.26			
10	HQAM	25	0	17.27	17.59	17.47			
10	HQAM	25	12	17.59	17.26	17.37	18.5	0	
10	HQAM	25	25	17.20	17.51	17.21			
10	HQAM	50	0	17.27	17.41	17.34			
10	HQAM	1	0	17.14	17.34	17.26	18.5	0	
10	HQAM	1	25	17.11	17.20	17.23			
10	HQAM	1	49	16.85	17.26	17.03			
10	HQAM	25	0	17.48	17.48	17.37	18.5	0	
10	HQAM	25	12	17.15	17.40	17.46			
10	HQAM	25	25	17.33	17.55	17.46			
10	HQAM	50	0	17.18	17.32	17.38			
Channel				42115	42990	43060	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3127.5	3200	3272.5			
5	QPSK	1	0	17.67	17.86	17.60	18.5	0	
5	QPSK	1	12	17.82	17.66	17.64			
5	QPSK	1	24	17.68	17.86	17.87			
5	QPSK	12	0	17.53	17.55	17.44	18.5	0	
5	QPSK	12	7	17.41	17.55	17.30			
5	QPSK	12	13	17.46	17.38	17.38			
5	QPSK	25	0	17.39	17.62	17.24			
5	HQAM	1	0	17.33	17.33	17.26	18.5	0	
5	HQAM	1	12	17.10	17.28	17.32			
5	HQAM	1	24	17.14	17.38	17.21			
5	HQAM	12	0	17.51	17.57	17.33			
5	HQAM	12	7	17.51	17.31	17.22	18.5	0	
5	HQAM	12	13	17.33	17.47	17.10			
5	HQAM	25	0	17.59	17.61	17.37			
5	HQAM	1	0	17.26	17.32	17.27			
5	HQAM	1	12	17.10	17.15	17.22	18.5	0	
5	HQAM	1	24	16.85	17.21	17.04			
5	HQAM	12	0	17.60	17.51	17.35			
5	HQAM	12	7	17.24	17.47	17.39	18.5	0	
5	HQAM	12	13	17.27	17.63	17.41			
5	HQAM	25	0	17.20	17.40	17.46			



Band 42 FCC Part27Q Main PA Ant7 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up time (min)	MFR (dB)	
Channel				42190	42690	42990			
Frequency (MHz)				3440	3500	3560			
20	QPSK	1	0	18.07	18.11	18.07			
20	QPSK	1	49	17.86	17.98	17.99	19	0	
20	QPSK	1	98	17.96	17.96	17.94			
20	QPSK	50	0	17.92	18.11	17.98			
20	QPSK	50	24	17.81	17.93	17.86	19	0	
20	QPSK	50	50	17.84	17.83	17.79			
20	QPSK	100	0	17.88	17.96	17.79			
20	16QAM	1	0	17.97	18.03	17.91			
20	16QAM	1	49	17.74	17.90	17.84	19	0	
20	16QAM	1	99	17.83	17.85	17.82			
20	16QAM	50	0	17.98	18.13	18.06			
20	16QAM	50	24	17.73	17.83	17.86	19	0	
20	16QAM	50	50	17.86	17.88	17.78			
20	16QAM	100	0	17.92	17.94	17.82			
20	64QAM	1	0	17.93	18.13	17.99			
20	64QAM	1	49	17.78	17.88	17.85	19	0	
20	64QAM	1	99	17.82	17.83	17.86			
20	64QAM	50	0	17.99	18.09	17.91			
20	64QAM	50	24	17.79	17.86	17.81	19	0	
20	64QAM	50	50	17.80	17.90	17.83			
20	64QAM	100	0	17.83	17.81	17.87			
Channel				42195	42695	43005			
Frequency (MHz)				3447.5	3507.5	3567.5			
15	QPSK	1	0	17.92	18.12	17.91			
15	QPSK	1	37	17.74	17.88	17.89	19	0	
15	QPSK	1	74	17.86	17.88	17.79			
15	QPSK	38	0	17.77	18.03	17.89			
15	QPSK	38	38	17.76	17.77	17.77	19	0	
15	QPSK	38	39	17.80	17.71	17.73			
15	QPSK	75	0	17.74	17.82	17.72			
15	16QAM	1	0	17.80	17.91	17.78			
15	16QAM	1	37	17.69	17.84	17.78	19	0	
15	16QAM	1	74	17.73	17.73	17.72			
15	16QAM	38	0	17.87	17.98	17.88			
15	16QAM	38	20	17.68	17.70	17.69	19	0	
15	16QAM	38	38	17.78	17.68	17.68			
15	16QAM	75	0	17.76	17.78	17.82			
15	64QAM	1	0	17.81	18.00	17.85			
15	64QAM	1	37	17.73	17.82	17.85	19	0	
15	64QAM	1	74	17.75	17.78	17.77			
15	64QAM	38	0	17.88	17.97	17.86			
15	64QAM	38	20	17.64	17.80	17.78	19	0	
15	64QAM	38	38	17.86	17.80	17.70			
15	64QAM	75	0	17.76	17.87	17.83			
Channel				43190	43690	43990			
Frequency (MHz)				3455	3505	3545			
10	QPSK	1	0	17.92	18.14	17.82			
10	QPSK	1	25	17.71	17.83	17.84	19	0	
10	QPSK	1	49	17.81	17.87	17.82			
10	QPSK	25	0	17.77	17.96	17.82			
10	QPSK	25	12	17.67	17.79	17.75	19	0	
10	QPSK	25	25	17.75	17.71	17.66			
10	QPSK	50	0	17.72	17.86	17.84			
10	16QAM	1	0	17.91	17.98	17.81			
10	16QAM	1	25	17.88	17.81	17.77	19	0	
10	16QAM	1	49	17.72	17.69	17.75			
10	16QAM	25	0	17.92	18.04	17.90			
10	16QAM	25	12	17.88	17.75	17.89	19	0	
10	16QAM	25	25	17.72	17.82	17.70			
10	16QAM	50	0	17.72	17.70	17.77			
10	64QAM	1	0	17.86	18.00	17.87			
10	64QAM	1	25	17.71	17.75	17.79	19	0	
10	64QAM	1	49	17.80	17.69	17.71			
10	64QAM	25	0	17.85	18.05	17.84			
10	64QAM	25	12	17.68	17.79	17.84	19	0	
10	64QAM	25	25	17.77	17.75	17.73			
10	64QAM	50	0	17.76	17.71	17.78			
Channel				44118	44690	45095			
Frequency (MHz)				3462.5	3520	3567.5			
5	QPSK	1	0	18.03	18.07	18.00			
5	QPSK	1	12	17.79	17.83	17.88	19	0	
5	QPSK	1	24	17.84	17.88	17.86			
5	QPSK	12	0	17.87	18.00	17.91			
5	QPSK	12	7	17.72	17.83	17.75	19	0	
5	QPSK	12	12	17.71	17.70	17.68			
5	QPSK	25	0	17.74	17.83	17.67			
5	16QAM	1	0	17.83	17.95	17.85			
5	16QAM	1	12	17.63	17.78	17.78	19	0	
5	16QAM	1	24	17.69	17.72	17.67			
5	16QAM	12	0	17.87	18.05	17.84			
5	16QAM	12	7	17.88	17.73	17.79	19	0	
5	16QAM	12	12	17.80	17.75	17.64			
5	16QAM	25	0	17.88	17.88	17.74			
5	64QAM	1	0	17.83	18.04	17.89			
5	64QAM	1	12	17.68	17.79	17.85	19	0	
5	64QAM	1	24	17.77	17.76	17.80			
5	64QAM	12	0	17.85	17.98	17.78			
5	64QAM	12	7	17.71	17.80	17.86	19	0	
5	64QAM	12	12	17.77	17.77	17.85			
5	64QAM	25	0	17.68	17.68	17.71			

Full&Default Power Mode Other PA

Band 12 Other PA Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.50	24.56	24.44	25.5	0	
10	QPSK	1	25	24.37	24.44	24.40			
10	QPSK	1	49	24.40	24.50	24.45			
10	QPSK	25	0	23.70	23.74	23.63	24.5	1	
10	QPSK	25	12	23.63	23.67	23.61			
10	QPSK	25	25	23.49	23.64	23.58			
10	QPSK	50	0	23.55	23.69	23.55	24.5	1	
10	16QAM	1	0	23.47	23.62	23.56			
10	16QAM	1	25	23.59	23.68	23.62			
10	16QAM	1	49	23.54	23.57	23.48	23.5	2	
10	16QAM	25	0	22.55	22.65	22.62			
10	16QAM	25	12	22.61	22.66	22.52			
10	16QAM	25	25	22.44	22.51	22.44	23.5	2	
10	16QAM	50	0	22.84	22.91	22.86			
10	64QAM	1	0	22.54	22.66	22.54			
10	64QAM	1	25	22.60	22.68	22.54	23.5	2	
10	64QAM	1	49	22.70	22.76	22.61			
10	64QAM	25	0	21.48	21.59	21.55			
10	64QAM	25	12	21.81	21.86	21.84	22.5	3	
10	64QAM	25	25	21.60	21.75	21.65			
10	64QAM	50	0	21.90	22.04	21.92			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.42	24.45	24.36	25.5	0	
5	QPSK	1	12	24.34	24.34	24.33			
5	QPSK	1	24	24.27	24.38	24.37			
5	QPSK	12	0	23.57	23.65	23.55	24.5	1	
5	QPSK	12	7	23.51	23.63	23.54			
5	QPSK	12	13	23.39	23.55	23.50			
5	QPSK	25	0	23.44	23.56	23.40	24.5	1	
5	16QAM	1	0	23.36	23.53	23.49			
5	16QAM	1	12	23.47	23.61	23.58			
5	16QAM	1	24	23.39	23.51	23.36	23.5	2	
5	16QAM	12	0	22.48	22.54	22.55			
5	16QAM	12	7	22.49	22.51	22.46			
5	16QAM	12	13	22.31	22.48	22.41	23.5	2	
5	16QAM	25	0	22.74	22.85	22.73			
5	64QAM	1	0	22.45	22.62	22.41			
5	64QAM	1	12	22.50	22.65	22.48	23.5	2	
5	64QAM	1	24	22.60	22.63	22.54			
5	64QAM	12	0	21.42	21.55	21.41			
5	64QAM	12	7	21.71	21.80	21.79	22.5	3	
5	64QAM	12	13	21.53	21.68	21.51			
5	64QAM	25	0	21.85	21.97	21.77			
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.40	24.52	24.41	25.5	0	
3	QPSK	1	8	24.34	24.34	24.34			
3	QPSK	1	14	24.36	24.40	24.36			
3	QPSK	8	0	23.66	23.65	23.49	24.5	1	
3	QPSK	8	4	23.55	23.59	23.58			
3	QPSK	8	7	23.39	23.52	23.53			
3	QPSK	15	0	23.50	23.62	23.48	24.5	1	
3	16QAM	1	0	23.38	23.49	23.49			
3	16QAM	1	8	23.47	23.53	23.55			
3	16QAM	1	14	23.45	23.43	23.35	23.5	2	
3	16QAM	8	0	22.45	22.58	22.59			
3	16QAM	8	4	22.47	22.59	22.48			
3	16QAM	8	7	22.39	22.40	22.40	23.5	2	
3	16QAM	15	0	22.77	22.77	22.79			
3	64QAM	1	0	22.44	22.57	22.41			
3	64QAM	1	8	22.56	22.58	22.39	22.5	3	
3	64QAM	1	14	22.59	22.73	22.52			
3	64QAM	8	0	21.44	21.55	21.43			
3	64QAM	8	4	21.77	21.83	21.78	22.5	3	
3	64QAM	8	7	21.49	21.61	21.52			
3	64QAM	15	0	21.79	22.00	21.83			
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.41	24.49	24.33	25.5	0	
1.4	QPSK	1	3	24.34	24.38	24.25			
1.4	QPSK	1	5	24.35	24.41	24.38			
1.4	QPSK	3	0	24.40	24.44	24.36	24.5	1	
1.4	QPSK	3	1	24.25	24.35	24.30			
1.4	QPSK	3	3	24.30	24.41	24.32			
1.4	QPSK	6	0	23.58	23.69	23.54	24.5	1	
1.4	16QAM	1	0	23.51	23.54	23.53			
1.4	16QAM	1	3	23.39	23.52	23.52			
1.4	16QAM	1	5	23.46	23.59	23.47	24.5	1	
1.4	16QAM	3	0	23.42	23.48	23.47			
1.4	16QAM	3	1	23.50	23.59	23.56			
1.4	16QAM	3	3	23.44	23.48	23.35	23.5	2	
1.4	16QAM	6	0	22.61	22.61	22.47			
1.4	64QAM	1	0	22.49	22.54	22.44			
1.4	64QAM	1	3	22.40	22.43	22.36	23.5	2	
1.4	64QAM	1	5	22.45	22.50	22.42			
1.4	64QAM	3	0	22.47	22.59	22.47			
1.4	64QAM	3	1	22.50	22.60	22.47	22.5	3	
1.4	64QAM	3	3	22.59	22.62	22.55			
1.4	64QAM	6	0	21.56	21.62	21.59			

Band 17 Other PA Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.43	24.51	24.46	25.5	0	
10	QPSK	1	25	24.31	24.40	24.36			
10	QPSK	1	49	24.38	24.47	24.33			
10	QPSK	25	0	23.64	23.68	23.57	24.5	1	
10	QPSK	25	12	23.45	23.59	23.46			
10	QPSK	25	25	23.34	23.46	23.34			
10	QPSK	50	0	23.48	23.59	23.49	24.5	1	
10	16QAM	1	0	23.46	23.50	23.42			
10	16QAM	1	25	23.29	23.42	23.32			
10	16QAM	1	49	23.21	23.34	23.26	23.5	2	
10	16QAM	25	0	22.58	22.73	22.62			
10	16QAM	25	12	22.69	22.72	22.58			
10	16QAM	25	25	22.65	22.73	22.62	23.5	2	
10	16QAM	50	0	22.67	22.79	22.73			
10	64QAM	1	0	22.43	22.50	22.41			
10	64QAM	1	25	22.50	22.54	22.48	23.5	2	
10	64QAM	1	49	22.26	22.32	22.21			
10	64QAM	25	0	21.59	21.66	21.59			
10	64QAM	25	12	21.68	21.77	21.66	22.5	3	
10	64QAM	25	25	21.50	21.56	21.49			
10	64QAM	50	0	21.59	21.66	21.62			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.39	24.45	24.43	25.5	0	
5	QPSK	1	12	24.24	24.35	24.25			
5	QPSK	1	24	24.35	24.35	24.22			
5	QPSK	12	0	23.59	23.61	23.49	24.5	1	
5	QPSK	12	7	23.40	23.47	23.39			
5	QPSK	12	13	23.28	23.42	23.25			
5	QPSK	25	0	23.44	23.55	23.39	24.5	1	
5	16QAM	1	0	23.32	23.45	23.31			
5	16QAM	1	12	23.20	23.32	23.26			
5	16QAM	1	24	23.07	23.29	23.22	23.5	2	
5	16QAM	12	0	22.54	22.61	22.51			
5	16QAM	12	7	22.66	22.59	22.54			
5	16QAM	12	13	22.58	22.59	22.51	23.5	2	
5	16QAM	25	0	22.57	22.67	22.63			
5	64QAM	1	0	22.38	22.37	22.37			
5	64QAM	1	12	22.41	22.46	22.37	22.5	3	
5	64QAM	1	24	22.22	22.27	22.16			
5	64QAM	12	0	21.44	21.58	21.53			
5	64QAM	12	7	21.60	21.70	21.54	22.5	3	
5	64QAM	12	13	21.37	21.51	21.39			
5	64QAM	25	0	21.44	21.57	21.49			

Band 12 Other PA Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	23.69	23.74	23.67	25.5	0		
10	QPSK	1	25	23.59	23.66	23.61				
10	QPSK	1	49	23.57	23.61	23.52				
10	QPSK	25	0	22.66	22.76	22.67	24.5	1		
10	QPSK	25	12	22.56	22.70	22.59				
10	QPSK	25	25	22.55	22.65	22.60				
10	QPSK	50	0	22.59	22.72	22.67	24.5	1		
10	16QAM	1	0	22.58	22.67	22.55				
10	16QAM	1	25	22.53	22.61	22.56				
10	16QAM	1	49	22.54	22.57	22.53	23.5	2		
10	16QAM	25	0	21.73	21.81	21.71				
10	16QAM	25	12	21.70	21.73	21.65				
10	16QAM	25	25	21.63	21.77	21.66	23.5	2		
10	16QAM	50	0	21.58	21.71	21.57				
10	64QAM	1	0	21.65	21.79	21.73				
10	64QAM	1	25	21.59	21.73	21.69	23.5	2		
10	64QAM	1	49	21.65	21.69	21.64				
10	64QAM	25	0	20.90	20.95	20.88				
10	64QAM	25	12	20.82	20.86	20.76	22.5	3		
10	64QAM	25	25	20.81	20.91	20.84				
10	64QAM	50	0	20.68	20.83	20.72				
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	23.62	23.67	23.58	25.5	0		
5	QPSK	1	12	23.57	23.58	23.58				
5	QPSK	1	24	23.57	23.55	23.52				
5	QPSK	12	0	22.55	22.67	22.54	24.5	1		
5	QPSK	12	7	22.51	22.64	22.59				
5	QPSK	12	13	22.51	22.52	22.52				
5	QPSK	25	0	22.55	22.67	22.53	24.5	1		
5	16QAM	1	0	22.57	22.55	22.58				
5	16QAM	1	12	22.51	22.55	22.59				
5	16QAM	1	24	22.59	22.54	22.55	23.5	2		
5	16QAM	12	0	21.65	21.74	21.63				
5	16QAM	12	7	21.61	21.63	21.59				
5	16QAM	12	13	21.53	21.66	21.59	23.5	2		
5	16QAM	25	0	21.53	21.58	21.51				
5	64QAM	1	0	21.54	21.71	21.58				
5	64QAM	1	12	21.55	21.64	21.64	23.5	2		
5	64QAM	1	24	21.51	21.61	21.56				
5	64QAM	12	0	20.77	20.90	20.83				
5	64QAM	12	7	20.69	20.79	20.65	22.5	3		
5	64QAM	12	13	20.67	20.85	20.72				
5	64QAM	25	0	20.56	20.80	20.60				
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	23.54	23.63	23.60	25.5	0		
3	QPSK	1	8	23.57	23.56	23.58				
3	QPSK	1	14	23.53	23.57	23.59				
3	QPSK	8	0	22.52	22.66	22.52	24.5	1		
3	QPSK	8	4	22.58	22.57	22.51				
3	QPSK	8	7	22.56	22.54	22.55				
3	QPSK	15	0	22.50	22.58	22.57	24.5	1		
3	16QAM	1	0	22.59	22.54	22.59				
3	16QAM	1	8	22.58	22.51	22.80				
3	16QAM	1	14	22.53	22.59	22.51	23.5	2		
3	16QAM	8	0	21.59	21.75	21.65				
3	16QAM	8	4	21.58	21.67	21.61				
3	16QAM	8	7	21.56	21.72	21.55	23.5	2		
3	16QAM	15	0	21.55	21.63	21.54				
3	64QAM	1	0	21.60	21.72	21.63				
3	64QAM	1	8	21.56	21.64	21.60	23.5	2		
3	64QAM	1	14	21.59	21.64	21.57				
3	64QAM	8	0	20.79	20.86	20.79				
3	64QAM	8	4	20.77	20.71	20.72	22.5	3		
3	64QAM	8	7	20.74	20.79	20.73				
3	64QAM	15	0	20.63	20.75	20.61				
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	23.64	23.65	23.58	25.5	0		
1.4	QPSK	1	3	23.52	23.51	23.55				
1.4	QPSK	1	5	23.56	23.70	23.65				
1.4	QPSK	3	0	23.55	23.63	23.59				
1.4	QPSK	3	1	23.56	23.58	23.59				
1.4	QPSK	3	3	23.52	23.52	23.54				
1.4	QPSK	6	0	22.58	22.72	22.61	24.5	1		
1.4	16QAM	1	0	22.52	22.58	22.50				
1.4	16QAM	1	3	22.54	22.51	22.57				
1.4	16QAM	1	5	22.54	22.60	22.53	24.5	1		
1.4	16QAM	3	0	22.54	22.57	22.51				
1.4	16QAM	3	1	22.51	22.57	22.50				
1.4	16QAM	3	3	22.58	22.52	22.56	23.5	2		
1.4	16QAM	6	0	21.66	21.75	21.56				
1.4	64QAM	1	0	21.59	21.59	21.52				
1.4	64QAM	1	3	21.59	21.67	21.52	23.5	2		
1.4	64QAM	1	5	21.54	21.58	21.52				
1.4	64QAM	3	0	21.55	21.71	21.60				
1.4	64QAM	3	1	21.50	21.68	21.63	22.5	3		
1.4	64QAM	3	3	21.53	21.58	21.53				
1.4	64QAM	6	0	20.74	20.82	20.66				

Band 17 Other PA Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23780	23790	23800				
Frequency (MHz)				709	710	711				
10	QPSK	1	0	23.57	23.70	23.59	25.5	0		
10	QPSK	1	25	23.54	23.59	23.51				
10	QPSK	1	49	23.55	23.59	23.51				
10	QPSK	25	0	22.60	22.66	22.58	24.5	1		
10	QPSK	25	12	22.53	22.59	22.55				
10	QPSK	25	25	22.53	22.58	22.56				
10	QPSK	50	0	22.57	22.61	22.54	24.5	1		
10	16QAM	1	0	22.50	22.56	22.59				
10	16QAM	1	25	22.57	22.53	22.51				
10	16QAM	1	49	22.53	22.59	22.52	23.5	2		
10	16QAM	25	0	21.61	21.71	21.66				
10	16QAM	25	12	21.61	21.58	21.56				
10	16QAM	25	25	21.51	21.72	21.52	23.5	2		
10	16QAM	50	0	21.57	21.60	21.58				
10	64QAM	1	0	21.50	21.74	21.63				
10	64QAM	1	25	21.58	21.59	21.63	23.5	2		
10	64QAM	1	49	21.54	21.66	21.60				
10	64QAM	25	0	20.86	20.87	20.85				
10	64QAM	25	12	20.77	20.81	20.69	22.5	3		
10	64QAM	25	25	20.71	20.78	20.76				
10	64QAM	50	0	20.53	20.73	20.63				
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	23.51	23.65	23.54	25.5	0		
5	QPSK	1	12	23.53	23.55	23.57				
5	QPSK	1	24	23.54	23.64	23.56				
5	QPSK	12	0	22.72	22.83	22.67	24.5	1		
5	QPSK	12	7	22.52	22.74	22.68				
5	QPSK	12	13	22.58	22.72	22.56				
5	QPSK	25	0	22.63	22.72	22.64	24.5	1		
5	16QAM	1	0	22.67	22.62	22.56				
5	16QAM	1	12	22.55	22.66	22.57				
5	16QAM	1	24	22.51	22.59	22.58	23.5	2		
5	16QAM	12	0	21.75	21.84	21.73				
5	16QAM	12	7	21.72	21.67	21.61				
5	16QAM	12	13	21.61	21.85	21.66	23.5	2		
5	16QAM	25	0	21.58	21.69	21.56				
5	64QAM	1	0	21.59	21.72	21.67				
5	64QAM	1	12	21.54	21.62	21.60	23.5	2		
5	64QAM	1	24	21.51	21.61	21.62				
5	64QAM	12	0	20.92	20.90	20.85				
5	64QAM	12	7	20.83	20.76	20.65	22.5	3		
5	64QAM	12	13	20.73	20.76	20.74				
5	64QAM	25	0	20.55	20.69	20.59				



Reduced Power Mode for Other PA DSI0

Band 12 Other PA Ant0 DSI0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23050	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	24.50	24.56	24.44	25.5	0		
10	QPSK	1	25	24.37	24.44	24.40				
10	QPSK	1	49	24.40	24.50	24.45				
10	QPSK	25	0	23.70	23.74	23.63	24.5	1		
10	QPSK	25	12	23.63	23.67	23.61				
10	QPSK	25	25	23.49	23.64	23.58				
10	QPSK	50	0	23.55	23.68	23.55	24.5	1		
10	16QAM	1	0	23.47	23.62	23.56				
10	16QAM	1	25	23.59	23.68	23.62				
10	16QAM	1	49	23.54	23.57	23.48	23.5	2		
10	16QAM	25	0	22.55	22.65	22.62				
10	16QAM	25	12	22.61	22.66	22.52				
10	16QAM	25	25	22.44	22.51	22.44	22.5	3		
10	16QAM	50	0	22.64	22.91	22.66				
10	64QAM	1	0	22.54	22.66	22.54				
10	64QAM	1	25	22.60	22.68	22.54	22.5	2		
10	64QAM	1	49	22.70	22.76	22.61				
10	64QAM	25	0	21.48	21.59	21.55				
10	64QAM	25	12	21.81	21.96	21.84	22.5	3		
10	64QAM	25	25	21.60	21.75	21.65				
10	64QAM	50	0	21.90	22.04	21.82				
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	24.42	24.45	24.36	25.5	0		
5	QPSK	1	12	24.34	24.34	24.33				
5	QPSK	1	24	24.27	24.38	24.37				
5	QPSK	12	0	23.57	23.65	23.55	24.5	1		
5	QPSK	12	7	23.51	23.63	23.54				
5	QPSK	12	13	23.39	23.55	23.50				
5	QPSK	25	0	23.44	23.56	23.40	24.5	1		
5	16QAM	1	0	23.36	23.53	23.49				
5	16QAM	1	12	23.47	23.61	23.58				
5	16QAM	1	24	23.39	23.51	23.36	23.5	2		
5	16QAM	12	0	22.48	22.54	22.55				
5	16QAM	12	7	22.49	22.51	22.46				
5	16QAM	12	13	22.31	22.48	22.41	22.5	3		
5	16QAM	25	0	22.74	22.85	22.73				
5	64QAM	1	0	22.45	22.62	22.41				
5	64QAM	1	12	22.50	22.65	22.48	22.5	2		
5	64QAM	1	24	22.60	22.63	22.54				
5	64QAM	12	0	21.42	21.55	21.41				
5	64QAM	12	7	21.71	21.80	21.79	22.5	3		
5	64QAM	12	13	21.53	21.68	21.51				
5	64QAM	25	0	21.65	21.97	21.77				
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	24.40	24.52	24.41	25.5	0		
3	QPSK	1	8	24.34	24.34	24.34				
3	QPSK	1	14	24.36	24.40	24.36				
3	QPSK	8	0	23.66	23.65	23.49	24.5	1		
3	QPSK	8	4	23.55	23.59	23.58				
3	QPSK	8	7	23.39	23.52	23.53				
3	QPSK	15	0	23.50	23.62	23.48	24.5	1		
3	16QAM	1	0	23.38	23.49	23.49				
3	16QAM	1	8	23.47	23.53	23.55				
3	16QAM	1	14	23.45	23.43	23.35	23.5	2		
3	16QAM	8	0	22.45	22.58	22.59				
3	16QAM	8	4	22.47	22.59	22.48				
3	16QAM	8	7	22.38	22.40	22.40	23.5	2		
3	16QAM	15	0	22.77	22.77	22.79				
3	64QAM	1	0	22.44	22.57	22.41				
3	64QAM	1	8	22.56	22.58	22.39	22.5	3		
3	64QAM	1	14	22.59	22.73	22.52				
3	64QAM	8	0	21.44	21.55	21.43				
3	64QAM	8	4	21.77	21.83	21.78	22.5	3		
3	64QAM	8	7	21.49	21.61	21.52				
3	64QAM	15	0	21.79	22.00	21.83				
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	24.41	24.49	24.33	25.5	0		
1.4	QPSK	1	3	24.34	24.38	24.25				
1.4	QPSK	1	5	24.35	24.41	24.38				
1.4	QPSK	3	0	24.40	24.44	24.36	24.5	1		
1.4	QPSK	3	1	24.25	24.35	24.30				
1.4	QPSK	3	3	24.30	24.41	24.32				
1.4	QPSK	6	0	23.58	23.69	23.54	24.5	1		
1.4	16QAM	1	0	23.51	23.54	23.53				
1.4	16QAM	1	3	23.39	23.52	23.52				
1.4	16QAM	1	5	23.46	23.59	23.47	23.5	2		
1.4	16QAM	3	0	23.42	23.48	23.47				
1.4	16QAM	3	1	23.50	23.59	23.56				
1.4	16QAM	3	3	23.44	23.48	23.35	23.5	2		
1.4	16QAM	6	0	22.51	22.61	22.47				
1.4	64QAM	1	0	22.49	22.54	22.44				
1.4	64QAM	1	3	22.40	22.43	22.36	23.5	2		
1.4	64QAM	1	5	22.45	22.50	22.42				
1.4	64QAM	3	0	22.47	22.59	22.47				
1.4	64QAM	3	1	22.50	22.60	22.47	22.5	3		
1.4	64QAM	3	3	22.59	22.62	22.55				
1.4	64QAM	6	0	21.58	21.62	21.59				

Band 17 Other PA Ant0 DSI0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23760	23790	23800				
Frequency (MHz)				709	710	711				
10	QPSK	1	0	24.43	24.51	24.46	25.5	0		
10	QPSK	1	25	24.31	24.40	24.36				
10	QPSK	1	49	24.38	24.47	24.33				
10	QPSK	25	0	23.64	23.68	23.57	24.5	1		
10	QPSK	25	12	23.45	23.59	23.46				
10	QPSK	25	25	23.34	23.46	23.34				
10	QPSK	50	0	23.46	23.58	23.46	24.5	1		
10	16QAM	1	0	23.46	23.50	23.42				
10	16QAM	1	25	23.29	23.42	23.32				
10	16QAM	1	49	23.21	23.34	23.26	23.5	2		
10	16QAM	25	0	22.58	22.73	22.62				
10	16QAM	25	12	22.69	22.72	22.58				
10	16QAM	25	25	22.65	22.73	22.62	22.5	3		
10	16QAM	50	0	22.67	22.79	22.73				
10	64QAM	1	0	22.43	22.50	22.41				
10	64QAM	1	25	22.50	22.54	22.48	22.5	2		
10	64QAM	1	49	22.26	22.32	22.21				
10	64QAM	25	0	21.59	21.66	21.59				
10	64QAM	25	12	21.68	21.77	21.66	22.5	3		
10	64QAM	25	25	21.50	21.56	21.49				
10	64QAM	50	0	21.59	21.66	21.62				
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	24.39	24.45	24.43	25.5	0		
5	QPSK	1	12	24.24	24.35	24.25				
5	QPSK	1	24	24.35	24.35	24.22				
5	QPSK	12	0	23.59	23.61	23.49	24.5	1		
5	QPSK	12	7	23.40	23.47	23.39				
5	QPSK	12	13	23.28	23.42	23.25				
5	QPSK	25	0	23.44	23.55	23.39	24.5	1		
5	16QAM	1	0	23.32	23.45	23.31				
5	16QAM	1	12	23.20	23.32	23.26				
5	16QAM	1	24	23.07	23.29	23.22	23.5	2		
5	16QAM	12	0	22.54	22.61	22.51				
5	16QAM	12	7	22.66	22.59	22.54				
5	16QAM	12	13	22.58	22.59	22.51	23.5	2		
5	16QAM	25	0	22.57	22.67	22.63				
5	64QAM	1	0	22.38	22.37	22.37				
5	64QAM	1	12	22.41	22.46	22.37	22.5	3		
5	64QAM	1	24	22.22	22.27	22.16				
5	64QAM	12	0	21.44	21.58	21.53				
5	64QAM	12	7	21.60	21.70	21.54	22.5	3		
5	64QAM	12	13	21.37	21.51	21.39				
5	64QAM	25	0	21.44	21.57	21.49				



Band 12 Other PA Ant1 DSI0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.69	23.74	23.67	25.5	0
10	QPSK	1	25	23.59	23.66	23.61		
10	QPSK	1	49	23.57	23.61	23.52		
10	QPSK	25	0	22.66	22.76	22.67	24.5	1
10	QPSK	25	12	22.56	22.70	22.59		
10	QPSK	25	25	22.55	22.65	22.60		
10	QPSK	50	0	22.59	22.72	22.67		
10	16QAM	1	0	22.58	22.67	22.55	24.5	1
10	16QAM	1	25	22.53	22.61	22.56		
10	16QAM	1	49	22.54	22.57	22.53		
10	16QAM	25	0	21.73	21.81	21.71	23.5	2
10	16QAM	25	12	21.70	21.73	21.65		
10	16QAM	25	25	21.63	21.77	21.66		
10	16QAM	50	0	21.58	21.71	21.57		
10	64QAM	1	0	21.65	21.79	21.73	23.5	2
10	64QAM	1	25	21.59	21.73	21.69		
10	64QAM	1	49	21.65	21.69	21.64		
10	64QAM	25	0	20.90	20.95	20.86	22.5	3
10	64QAM	25	12	20.82	20.86	20.76		
10	64QAM	25	25	20.81	20.91	20.84		
10	64QAM	50	0	20.68	20.83	20.72		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.62	23.67	23.58	25.5	0
5	QPSK	1	12	23.57	23.58	23.58		
5	QPSK	1	24	23.57	23.55	23.52		
5	QPSK	12	0	22.55	22.67	22.54	24.5	1
5	QPSK	12	7	22.51	22.64	22.59		
5	QPSK	12	13	22.51	22.52	22.52		
5	QPSK	25	0	22.55	22.67	22.53	24.5	1
5	16QAM	1	0	22.57	22.55	22.58		
5	16QAM	1	12	22.51	22.55	22.58		
5	16QAM	1	24	22.59	22.54	22.55		
5	16QAM	12	0	21.65	21.74	21.63	23.5	2
5	16QAM	12	7	21.61	21.63	21.59		
5	16QAM	12	13	21.53	21.66	21.59		
5	16QAM	25	0	21.53	21.58	21.51	23.5	2
5	64QAM	1	0	21.54	21.71	21.58		
5	64QAM	1	12	21.55	21.64	21.64	23.5	2
5	64QAM	1	24	21.51	21.61	21.56		
5	64QAM	12	0	20.77	20.90	20.83	22.5	3
5	64QAM	12	7	20.69	20.79	20.65		
5	64QAM	12	13	20.67	20.65	20.72		
5	64QAM	25	0	20.56	20.90	20.60		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.54	23.63	23.60	25.5	0
3	QPSK	1	8	23.57	23.56	23.58		
3	QPSK	1	14	23.53	23.57	23.59		
3	QPSK	8	0	22.52	22.66	22.52	24.5	1
3	QPSK	8	4	22.58	22.57	22.51		
3	QPSK	8	7	22.56	22.54	22.55		
3	QPSK	15	0	22.50	22.58	22.57		
3	16QAM	1	0	22.59	22.54	22.59	24.5	1
3	16QAM	1	8	22.58	22.51	22.60		
3	16QAM	1	14	22.53	22.59	22.51		
3	16QAM	8	0	21.59	21.75	21.66	23.5	2
3	16QAM	8	4	21.58	21.67	21.61		
3	16QAM	8	7	21.56	21.72	21.55		
3	16QAM	15	0	21.55	21.63	21.64	23.5	2
3	64QAM	1	0	21.60	21.72	21.63		
3	64QAM	1	8	21.56	21.64	21.60		
3	64QAM	1	14	21.59	21.64	21.57	22.5	3
3	64QAM	8	0	20.79	20.96	20.79		
3	64QAM	8	4	20.77	20.71	20.72		
3	64QAM	8	7	20.74	20.79	20.73		
3	64QAM	15	0	20.63	20.75	20.61		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	23.64	23.65	23.58	25.5	0
1.4	QPSK	1	3	23.52	23.51	23.55		
1.4	QPSK	1	5	23.56	23.70	23.65		
1.4	QPSK	3	0	23.55	23.63	23.59	24.5	1
1.4	QPSK	3	1	23.56	23.58	23.59		
1.4	QPSK	3	3	23.52	23.52	23.54		
1.4	QPSK	6	0	22.58	22.72	22.61	24.5	1
1.4	16QAM	1	0	22.52	22.58	22.50		
1.4	16QAM	1	3	22.54	22.51	22.57		
1.4	16QAM	1	5	22.54	22.60	22.53	23.5	2
1.4	16QAM	3	0	22.54	22.57	22.51		
1.4	16QAM	3	1	22.51	22.57	22.50		
1.4	16QAM	3	3	22.58	22.52	22.56		
1.4	16QAM	6	0	21.66	21.75	21.56	23.5	2
1.4	64QAM	1	0	21.59	21.59	21.52		
1.4	64QAM	1	3	21.59	21.67	21.52	23.5	2
1.4	64QAM	1	5	21.64	21.58	21.52		
1.4	64QAM	3	0	21.55	21.71	21.60		
1.4	64QAM	3	1	21.50	21.68	21.63		
1.4	64QAM	3	3	21.53	21.58	21.53	22.5	3
1.4	64QAM	6	0	20.74	20.82	20.66		

Band 17 Other PA Ant1 DSI0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23760	23790	23850		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.57	23.70	23.59	25.5	0
10	QPSK	1	25	23.54	23.59	23.51		
10	QPSK	1	49	23.55	23.59	23.51		
10	QPSK	25	0	22.60	22.66	22.58	24.5	1
10	QPSK	25	12	22.53	22.59	22.55		
10	QPSK	25	25	22.53	22.58	22.56		
10	QPSK	50	0	22.57	22.61	22.54		
10	16QAM	1	0	22.50	22.56	22.59	24.5	1
10	16QAM	1	25	22.57	22.53	22.51		
10	16QAM	1	49	22.53	22.59	22.52		
10	16QAM	25	0	21.61	21.71	21.66	23.5	2
10	16QAM	25	12	21.61	21.58	21.56		
10	16QAM	25	25	21.51	21.72	21.52		
10	16QAM	50	0	21.57	21.60	21.58		
10	64QAM	1	0	21.50	21.74	21.63	23.5	2
10	64QAM	1	25	21.58	21.59	21.63		
10	64QAM	1	49	21.54	21.66	21.60		
10	64QAM	25	0	20.86	20.87	20.85	22.5	3
10	64QAM	25	12	20.77	20.81	20.69		
10	64QAM	25	25	20.71	20.76	20.76		
10	64QAM	50	0	20.63	20.73	20.63		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.51	23.65	23.54	25.5	0
5	QPSK	1	12	23.53	23.55	23.57		
5	QPSK	1	24	23.54	23.64	23.56		
5	QPSK	12	0	22.72	22.83	22.67	24.5	1
5	QPSK	12	7	22.52	22.74	22.68		
5	QPSK	12	13	22.58	22.72	22.56		
5	QPSK	25	0	22.63	22.72	22.64	24.5	1
5	16QAM	1	0	22.67	22.62	22.56		
5	16QAM	1	12	22.55	22.66	22.57		
5	16QAM	1	24	22.51	22.59	22.58		
5	16QAM	12	0	21.75	21.84	21.73	23.5	2
5	16QAM	12	7	21.72	21.67	21.61		
5	16QAM	12	13	21.61	21.65	21.66		
5	16QAM	25	0	21.58	21.59	21.56	23.5	2
5	64QAM	1	0	21.59	21.72	21.67		
5	64QAM	1	12	21.54	21.62	21.60	22.5	3
5	64QAM	1	24	21.51	21.61	21.62		
5	64QAM	12	0	20.92	20.90	20.85		
5	64QAM	12	7	20.83	20.76	20.65		
5	64QAM	12	13	20.73	20.76	20.74		
5	64QAM	25	0	20.65	20.69	20.69		



Reduced Power Mode for Other PA DSI1

Band 12 Other PA Ant0 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)	
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.			
Channel				23050	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.50	24.56	24.44	25.5	0	
10	QPSK	1	25	24.37	24.44	24.40			
10	QPSK	1	49	24.40	24.50	24.45			
10	QPSK	25	0	23.70	23.74	23.63	24.5	1	
10	QPSK	25	12	23.63	23.67	23.61			
10	QPSK	25	25	23.49	23.64	23.59			
10	QPSK	50	0	23.55	23.69	23.55	24.5	1	
10	16QAM	1	0	23.47	23.62	23.56			
10	16QAM	1	25	23.59	23.68	23.62			
10	16QAM	1	49	23.54	23.57	23.48	23.5	2	
10	16QAM	25	0	22.55	22.65	22.62			
10	16QAM	25	12	22.61	22.66	22.52			
10	16QAM	25	25	22.44	22.51	22.44	23.5	2	
10	16QAM	50	0	22.64	22.91	22.86			
10	64QAM	1	0	22.54	22.66	22.54			
10	64QAM	1	25	22.60	22.68	22.54	23.5	2	
10	64QAM	1	49	22.70	22.76	22.61			
10	64QAM	25	0	21.48	21.59	21.55			
10	64QAM	25	12	21.81	21.96	21.84	22.5	3	
10	64QAM	25	25	21.60	21.75	21.65			
10	64QAM	50	0	21.90	22.04	21.82			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.42	24.45	24.36	25.5	0	
5	QPSK	1	12	24.34	24.34	24.33			
5	QPSK	1	24	24.27	24.38	24.37			
5	QPSK	12	0	23.57	23.65	23.55	24.5	1	
5	QPSK	12	7	23.51	23.63	23.54			
5	QPSK	12	13	23.39	23.55	23.50			
5	QPSK	25	0	23.44	23.56	23.40	24.5	1	
5	16QAM	1	0	23.36	23.53	23.49			
5	16QAM	1	12	23.47	23.61	23.58			
5	16QAM	1	24	23.39	23.51	23.36	23.5	2	
5	16QAM	12	0	22.48	22.54	22.55			
5	16QAM	12	7	22.49	22.51	22.46			
5	16QAM	12	13	22.31	22.48	22.41	23.5	2	
5	16QAM	25	0	22.74	22.85	22.73			
5	64QAM	1	0	22.45	22.62	22.41			
5	64QAM	1	12	22.50	22.65	22.48	23.5	2	
5	64QAM	1	24	22.60	22.63	22.54			
5	64QAM	12	0	21.42	21.55	21.41			
5	64QAM	12	7	21.71	21.80	21.79	22.5	3	
5	64QAM	12	13	21.53	21.68	21.51			
5	64QAM	25	0	21.65	21.97	21.77			
Channel				23055	23095	23155			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.40	24.52	24.41	25.5	0	
3	QPSK	1	8	24.34	24.34	24.34			
3	QPSK	1	14	24.36	24.40	24.36			
3	QPSK	8	0	23.66	23.65	23.49	24.5	1	
3	QPSK	8	4	23.55	23.59	23.58			
3	QPSK	8	7	23.39	23.52	23.53			
3	QPSK	15	0	23.50	23.62	23.48	24.5	1	
3	16QAM	1	0	23.38	23.49	23.49			
3	16QAM	1	8	23.47	23.53	23.55			
3	16QAM	1	14	23.45	23.43	23.35	23.5	2	
3	16QAM	8	0	22.45	22.58	22.59			
3	16QAM	8	4	22.47	22.59	22.48			
3	16QAM	8	7	22.39	22.40	22.40	23.5	2	
3	16QAM	15	0	22.77	22.77	22.79			
3	64QAM	1	0	22.44	22.57	22.41			
3	64QAM	1	8	22.56	22.58	22.39	23.5	2	
3	64QAM	1	14	22.59	22.73	22.52			
3	64QAM	8	0	21.44	21.55	21.43			
3	64QAM	8	4	21.77	21.83	21.78	22.5	3	
3	64QAM	8	7	21.49	21.61	21.52			
3	64QAM	15	0	21.79	22.00	21.83			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.41	24.49	24.33	25.5	0	
1.4	QPSK	1	3	24.34	24.38	24.25			
1.4	QPSK	1	5	24.35	24.41	24.38			
1.4	QPSK	3	0	24.40	24.44	24.36	24.5	1	
1.4	QPSK	3	1	24.25	24.35	24.30			
1.4	QPSK	3	3	24.30	24.41	24.32			
1.4	16QAM	1	0	23.58	23.69	23.54	24.5	1	
1.4	16QAM	1	0	23.51	23.54	23.53			
1.4	16QAM	1	3	23.39	23.52	23.52			
1.4	16QAM	1	5	23.46	23.59	23.47	23.5	2	
1.4	16QAM	3	0	23.42	23.48	23.47			
1.4	16QAM	3	1	23.50	23.59	23.56			
1.4	16QAM	3	3	23.44	23.48	23.35	23.5	2	
1.4	16QAM	6	0	22.51	22.61	22.47			
1.4	64QAM	1	0	22.49	22.54	22.44			
1.4	64QAM	1	3	22.40	22.43	22.36	23.5	2	
1.4	64QAM	1	5	22.45	22.50	22.42			
1.4	64QAM	3	0	22.47	22.59	22.47			
1.4	64QAM	3	1	22.50	22.60	22.47	22.5	3	
1.4	64QAM	3	3	22.59	22.62	22.55			
1.4	64QAM	6	0	21.58	21.62	21.59			

Band 17 Other PA Ant0 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)	
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.			
Channel				23760	23790	23800			
Frequency (MHz)				729	710	711			
10	QPSK	1	0	24.43	24.51	24.46	25.5	0	
10	QPSK	1	25	24.31	24.40	24.36			
10	QPSK	1	49	24.38	24.47	24.33			
10	QPSK	25	0	23.64	23.68	23.57	24.5	1	
10	QPSK	25	12	23.45	23.59	23.46			
10	QPSK	25	25	23.34	23.46	23.34			
10	QPSK	50	0	23.65	23.69	23.65	24.5	1	
10	16QAM	1	0	23.46	23.50	23.42			
10	16QAM	1	25	23.29	23.42	23.32			
10	16QAM	1	49	23.21	23.34	23.26	23.5	2	
10	16QAM	25	0	22.58	22.73	22.62			
10	16QAM	25	12	22.69	22.72	22.58			
10	16QAM	25	25	22.65	22.73	22.62	22.5	3	
10	16QAM	50	0	22.67	22.79	22.73			
10	64QAM	1	0	22.43	22.50	22.41			
10	64QAM	1	25	22.50	22.54	22.48	23.5	2	
10	64QAM	1	49	22.26	22.32	22.21			
10	64QAM	25	0	21.59	21.66	21.59			
10	64QAM	25	12	21.68	21.77	21.66	22.5	3	
10	64QAM	25	25	21.50	21.56	21.49			
10	64QAM	50	0	21.59	21.66	21.62			
Channel				23755	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.39	24.45	24.43	25.5	0	
5	QPSK	1	12	24.24	24.35	24.25			
5	QPSK	1	24	24.35	24.35	24.22			
5	QPSK	12	0	23.59	23.61	23.69	24.5	1	
5	QPSK	12	7	23.40	23.47	23.39			
5	QPSK	12	13	23.38	23.42	23.25			
5	QPSK	25	0	23.44	23.55	23.39	24.5	1	
5	16QAM	1	0	23.32	23.45	23.31			
5	16QAM	1	12	23.20	23.32	23.26			
5	16QAM	1	24	23.07	23.29	23.22	23.5	2	
5	16QAM	12	0	22.54	22.61	22.51			
5	16QAM	12	7	22.66	22.59	22.54			
5	16QAM	12	13	22.58	22.59	22.51	23.5	2	
5	16QAM	25	0	22.57	22.67	22.63			
5	64QAM	1	0	22.38	22.37	22.37			
5	64QAM	1	12	22.41	22.46	22.37	22.5	3	
5	64QAM	1	24	22.22	22.27	22.16			
5	64QAM	12	0	21.44	21.58	21.53			
5	64QAM	12	7	21.60	21.70	21.54	22.5	3	
5	64QAM	12	13	21.37	21.51	21.39			
5	64QAM	25	0	21.44	21.57	21.49			



Band 12 Other PA Ant1 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.69	23.74	23.67		
10	QPSK	1	25	23.59	23.66	23.61	25.5	0
10	QPSK	1	49	23.57	23.61	23.52		
10	QPSK	25	0	22.66	22.76	22.67		
10	QPSK	25	12	22.56	22.70	22.59	24.5	1
10	QPSK	25	25	22.55	22.65	22.60		
10	QPSK	50	0	22.59	22.72	22.67		
10	16QAM	1	0	22.58	22.67	22.55		
10	16QAM	1	25	22.53	22.61	22.56	24.5	1
10	16QAM	1	49	22.54	22.57	22.53		
10	16QAM	25	0	21.73	21.81	21.71		
10	16QAM	25	12	21.70	21.73	21.65		
10	16QAM	25	25	21.63	21.77	21.66	23.5	2
10	16QAM	50	0	21.58	21.71	21.57		
10	64QAM	1	0	21.65	21.79	21.73		
10	64QAM	1	25	21.59	21.73	21.69	23.5	2
10	64QAM	1	49	21.65	21.69	21.64		
10	64QAM	25	0	20.90	20.95	20.86		
10	64QAM	25	12	20.82	20.86	20.76		
10	64QAM	25	25	20.81	20.91	20.84	22.5	3
10	64QAM	50	0	20.68	20.83	20.72		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.62	23.67	23.58		
5	QPSK	1	12	23.57	23.58	23.58	25.5	0
5	QPSK	1	24	23.57	23.55	23.52		
5	QPSK	12	0	22.55	22.67	22.54		
5	QPSK	12	7	22.51	22.64	22.59	24.5	1
5	QPSK	12	13	22.51	22.52	22.52		
5	QPSK	25	0	22.55	22.67	22.53		
5	16QAM	1	0	22.57	22.55	22.58	24.5	1
5	16QAM	1	12	22.51	22.55	22.58		
5	16QAM	1	24	22.59	22.54	22.55		
5	16QAM	12	0	21.65	21.74	21.63		
5	16QAM	12	7	21.61	21.63	21.59	23.5	2
5	16QAM	12	13	21.53	21.66	21.59		
5	16QAM	25	0	21.53	21.58	21.51		
5	64QAM	1	0	21.54	21.71	21.58	23.5	2
5	64QAM	1	12	21.55	21.64	21.64		
5	64QAM	1	24	21.51	21.61	21.56		
5	64QAM	12	0	20.77	20.90	20.83		
5	64QAM	12	7	20.69	20.79	20.65	22.5	3
5	64QAM	12	13	20.67	20.85	20.72		
5	64QAM	25	0	20.56	20.90	20.69		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.54	23.63	23.60		
3	QPSK	1	8	23.57	23.56	23.58	25.5	0
3	QPSK	1	14	23.53	23.57	23.59		
3	QPSK	8	0	22.52	22.66	22.52		
3	QPSK	8	4	22.58	22.57	22.51	24.5	1
3	QPSK	8	7	22.56	22.54	22.55		
3	QPSK	15	0	22.50	22.58	22.57		
3	16QAM	1	0	22.59	22.54	22.59		
3	16QAM	1	8	22.58	22.51	22.60	24.5	1
3	16QAM	1	14	22.53	22.59	22.51		
3	16QAM	8	0	21.59	21.75	21.65		
3	16QAM	8	4	21.58	21.67	21.61	23.5	2
3	16QAM	8	7	21.56	21.72	21.55		
3	16QAM	15	0	21.55	21.63	21.54		
3	64QAM	1	0	21.60	21.72	21.63	23.5	2
3	64QAM	1	8	21.56	21.64	21.60		
3	64QAM	1	14	21.59	21.64	21.57		
3	64QAM	8	0	20.79	20.86	20.79		
3	64QAM	8	4	20.77	20.71	20.72	22.5	3
3	64QAM	8	7	20.74	20.79	20.73		
3	64QAM	15	0	20.63	20.75	20.61		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	23.64	23.65	23.58		
1.4	QPSK	1	3	23.52	23.51	23.55	25.5	0
1.4	QPSK	1	5	23.56	23.70	23.65		
1.4	QPSK	3	0	23.55	23.63	23.59		
1.4	QPSK	3	1	23.56	23.58	23.59		
1.4	QPSK	3	3	23.52	23.52	23.54		
1.4	QPSK	6	0	22.58	22.72	22.61	24.5	1
1.4	16QAM	1	0	22.52	22.58	22.50		
1.4	16QAM	1	3	22.54	22.51	22.57	24.5	1
1.4	16QAM	1	5	22.54	22.60	22.53		
1.4	16QAM	3	0	22.54	22.57	22.51		
1.4	16QAM	3	1	22.51	22.57	22.50		
1.4	16QAM	3	3	22.58	22.52	22.56		
1.4	16QAM	6	0	21.66	21.75	21.56	23.5	2
1.4	64QAM	1	0	21.59	21.59	21.52		
1.4	64QAM	1	3	21.59	21.67	21.52		
1.4	64QAM	1	5	21.64	21.58	21.52	23.5	2
1.4	64QAM	3	0	21.55	21.71	21.60		
1.4	64QAM	3	1	21.50	21.68	21.63		
1.4	64QAM	3	3	21.53	21.58	21.53		
1.4	64QAM	6	0	20.74	20.82	20.66	22.5	3

Band 17 Other PA Ant1 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23760	23790	23850		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.57	23.70	23.59		
10	QPSK	1	25	23.54	23.59	23.51	25.5	0
10	QPSK	1	49	23.55	23.59	23.51		
10	QPSK	25	0	22.60	22.68	22.58		
10	QPSK	25	12	22.53	22.59	22.55	24.5	1
10	QPSK	25	25	22.53	22.58	22.56		
10	QPSK	50	0	22.57	22.61	22.54		
10	16QAM	1	0	22.50	22.56	22.59		
10	16QAM	1	25	22.57	22.53	22.51	24.5	1
10	16QAM	1	49	22.53	22.59	22.52		
10	16QAM	25	0	21.61	21.71	21.66		
10	16QAM	25	12	21.61	21.58	21.56	23.5	2
10	16QAM	25	25	21.51	21.72	21.52		
10	16QAM	50	0	21.57	21.60	21.58		
10	64QAM	1	0	21.50	21.74	21.63		
10	64QAM	1	25	21.58	21.59	21.63	23.5	2
10	64QAM	1	49	21.54	21.66	21.60		
10	64QAM	25	0	20.86	20.87	20.85		
10	64QAM	25	12	20.77	20.81	20.69		
10	64QAM	25	25	20.71	20.76	20.76	22.5	3
10	64QAM	50	0	20.63	20.73	20.63		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.51	23.65	23.54		
5	QPSK	1	12	23.33	23.35	23.37	25.5	0
5	QPSK	1	24	23.34	23.64	23.36		
5	QPSK	12	0	22.72	22.83	22.67		
5	QPSK	12	7	22.52	22.74	22.68	24.5	1
5	QPSK	12	13	22.58	22.72	22.52		
5	QPSK	25	0	22.63	22.72	22.64		
5	16QAM	1	0	22.67	22.62	22.56	24.5	1
5	16QAM	1	12	22.55	22.66	22.57		
5	16QAM	1	24	22.51	22.59	22.58		
5	16QAM	12	0	21.75	21.84	21.73		
5	16QAM	12	7	21.72	21.67	21.61	23.5	2
5	16QAM	12	13	21.61	21.85	21.66		
5	16QAM	25	0	21.58	21.59	21.58		
5	64QAM	1	0	21.59	21.72	21.67	23.5	2
5	64QAM	1	12	21.54	21.62	21.60		
5	64QAM	1	24	21.51	21.61	21.62		
5	64QAM	12	0	20.92	20.90	20.85		
5	64QAM	12	7	20.83	20.76	20.65	22.5	3
5	64QAM	12	13	20.73	20.76	20.74		
5	64QAM	25	0	20.65	20.69	20.69		



Reduced Power Mode for Other PA DSI3

Band 12 Other PA Ant0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.50	24.56	24.44	25.5	0	
10	QPSK	1	25	24.37	24.44	24.40			
10	QPSK	1	49	24.40	24.50	24.45			
10	QPSK	25	0	23.70	23.74	23.63	24.5	1	
10	QPSK	25	12	23.63	23.67	23.61			
10	QPSK	25	25	23.49	23.64	23.58			
10	QPSK	50	0	23.55	23.68	23.55	24.5	1	
10	16QAM	1	0	23.47	23.62	23.56			
10	16QAM	1	25	23.59	23.68	23.62			
10	16QAM	1	49	23.54	23.57	23.48	23.5	2	
10	16QAM	25	0	22.55	22.65	22.62			
10	16QAM	25	12	22.61	22.66	22.52			
10	16QAM	25	25	22.44	22.51	22.44	22.5	3	
10	16QAM	50	0	22.64	22.91	22.66			
10	16QAM	1	0	22.54	22.66	22.54			
10	16QAM	1	25	22.60	22.68	22.54	22.5	2	
10	16QAM	1	49	22.70	22.76	22.61			
10	16QAM	25	0	21.48	21.59	21.55			
10	16QAM	25	12	21.81	21.86	21.84	22.5	3	
10	16QAM	25	25	21.60	21.75	21.65			
10	16QAM	50	0	21.90	22.04	21.82			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.42	24.45	24.36	25.5	0	
5	QPSK	1	12	24.34	24.34	24.33			
5	QPSK	1	24	24.27	24.38	24.37			
5	QPSK	12	0	23.57	23.65	23.55	24.5	1	
5	QPSK	12	7	23.51	23.63	23.54			
5	QPSK	12	13	23.39	23.55	23.50			
5	QPSK	25	0	23.44	23.56	23.40	24.5	1	
5	16QAM	1	0	23.36	23.53	23.49			
5	16QAM	1	12	23.47	23.61	23.58			
5	16QAM	1	24	23.39	23.51	23.36	23.5	2	
5	16QAM	12	0	22.48	22.54	22.55			
5	16QAM	12	7	22.49	22.51	22.46			
5	16QAM	12	13	22.31	22.48	22.41	23.5	2	
5	16QAM	25	0	22.74	22.85	22.73			
5	16QAM	1	0	22.45	22.62	22.41			
5	16QAM	1	12	22.50	22.65	22.48	22.5	3	
5	16QAM	1	24	22.60	22.63	22.54			
5	16QAM	12	0	21.42	21.55	21.41			
5	16QAM	12	7	21.71	21.80	21.79	22.5	3	
5	16QAM	12	13	21.53	21.68	21.51			
5	16QAM	25	0	21.65	21.97	21.77			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.40	24.52	24.41	25.5	0	
3	QPSK	1	8	24.34	24.34	24.34			
3	QPSK	1	14	24.36	24.40	24.36			
3	QPSK	8	0	23.66	23.65	23.49	24.5	1	
3	QPSK	8	4	23.55	23.59	23.58			
3	QPSK	8	7	23.39	23.52	23.53			
3	QPSK	15	0	23.50	23.62	23.48	24.5	1	
3	16QAM	1	0	23.38	23.49	23.49			
3	16QAM	1	8	23.47	23.53	23.55			
3	16QAM	1	14	23.45	23.43	23.35	23.5	2	
3	16QAM	8	0	22.45	22.58	22.59			
3	16QAM	8	4	22.47	22.59	22.48			
3	16QAM	8	7	22.38	22.40	22.40	23.5	2	
3	16QAM	15	0	22.77	22.77	22.79			
3	16QAM	1	0	22.44	22.57	22.41			
3	16QAM	1	8	22.56	22.58	22.39	22.5	3	
3	16QAM	1	14	22.59	22.73	22.52			
3	16QAM	8	0	21.44	21.55	21.43			
3	16QAM	8	4	21.77	21.83	21.78	22.5	3	
3	16QAM	8	7	21.49	21.61	21.52			
3	16QAM	15	0	21.79	22.00	21.83			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.41	24.49	24.33	25.5	0	
1.4	QPSK	1	3	24.34	24.38	24.25			
1.4	QPSK	1	5	24.35	24.41	24.38			
1.4	QPSK	3	0	24.40	24.44	24.36	24.5	1	
1.4	QPSK	3	1	24.25	24.35	24.30			
1.4	QPSK	3	3	24.30	24.41	24.32			
1.4	16QAM	1	0	23.58	23.69	23.54	24.5	1	
1.4	16QAM	1	0	23.51	23.54	23.53			
1.4	16QAM	1	3	23.39	23.52	23.52			
1.4	16QAM	1	5	23.46	23.59	23.47	23.5	2	
1.4	16QAM	3	0	23.42	23.48	23.47			
1.4	16QAM	3	1	23.50	23.59	23.56			
1.4	16QAM	3	3	23.44	23.48	23.35	23.5	2	
1.4	16QAM	6	0	22.51	22.61	22.47			
1.4	16QAM	1	0	22.49	22.54	22.44			
1.4	16QAM	1	3	22.40	22.43	22.36	23.5	2	
1.4	16QAM	1	5	22.45	22.50	22.42			
1.4	16QAM	3	0	22.47	22.59	22.47			
1.4	16QAM	3	1	22.50	22.60	22.47	22.5	3	
1.4	16QAM	3	3	22.59	22.62	22.55			
1.4	16QAM	6	0	21.58	21.62	21.59			

Band 17 Other PA Ant0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23760	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.43	24.51	24.46	25.5	0	
10	QPSK	1	25	24.31	24.40	24.36			
10	QPSK	1	49	24.38	24.47	24.33			
10	QPSK	25	0	23.64	23.68	23.57	24.5	1	
10	QPSK	25	12	23.45	23.59	23.46			
10	QPSK	25	25	23.34	23.46	23.34			
10	QPSK	50	0	23.65	23.68	23.65	24.5	1	
10	16QAM	1	0	23.46	23.50	23.42			
10	16QAM	1	25	23.29	23.42	23.32			
10	16QAM	1	49	23.21	23.34	23.26	23.5	2	
10	16QAM	25	0	22.58	22.73	22.62			
10	16QAM	25	12	22.69	22.72	22.58			
10	16QAM	25	25	22.65	22.73	22.62	22.5	3	
10	16QAM	50	0	22.67	22.79	22.73			
10	16QAM	1	0	22.43	22.50	22.41			
10	16QAM	1	25	22.50	22.54	22.48	23.5	2	
10	16QAM	1	49	22.28	22.32	22.21			
10	16QAM	25	0	21.59	21.68	21.59			
10	16QAM	25	12	21.68	21.77	21.66	22.5	3	
10	16QAM	25	25	21.50	21.56	21.49			
10	16QAM	50	0	21.59	21.66	21.62			
Channel				23755	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.39	24.45	24.43	25.5	0	
5	QPSK	1	12	24.24	24.35	24.25			
5	QPSK	1	24	24.35	24.35	24.22			
5	QPSK	12	0	23.59	23.61	23.49	24.5	1	
5	QPSK	12	7	23.40	23.47	23.39			
5	QPSK	12	13	23.38	23.42	23.25			
5	QPSK	25	0	23.44	23.55	23.39	24.5	1	
5	16QAM	1	0	23.32	23.45	23.31			
5	16QAM	1	12	23.20	23.32	23.26			
5	16QAM	1	24	23.07	23.29	23.22	23.5	2	
5	16QAM	12	0	22.54	22.61	22.51			
5	16QAM	12	7	22.66	22.59	22.54			
5	16QAM	12	13	22.58	22.59	22.51	23.5	2	
5	16QAM	25	0	22.57	22.67	22.63			
5	16QAM	1	0	22.38	22.37	22.37			
5	16QAM	1	12	22.41	22.46	22.37	22.5	3	
5	16QAM	1	24	22.22	22.27	22.16			
5	16QAM	12	0	21.44	21.58	21.53			
5	16QAM	12	7	21.60	21.70	21.54	22.5	3	
5	16QAM	12	13	21.37	21.51	21.39			
5	16QAM	25	0	21.44	21.57	21.49			



Band 12 Other PA Ant1 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.69	23.74	23.67		
10	QPSK	1	25	23.59	23.66	23.61	25.5	0
10	QPSK	1	49	23.57	23.61	23.52		
10	QPSK	25	0	22.66	22.76	22.67		
10	QPSK	25	12	22.56	22.70	22.59	24.5	1
10	QPSK	25	25	22.55	22.65	22.60		
10	QPSK	50	0	22.59	22.72	22.67		
10	16QAM	1	0	22.58	22.67	22.55		
10	16QAM	1	25	22.53	22.61	22.56	24.5	1
10	16QAM	1	49	22.54	22.57	22.53		
10	16QAM	25	0	21.73	21.81	21.71		
10	16QAM	25	12	21.70	21.73	21.65		
10	16QAM	25	25	21.63	21.77	21.66	23.5	2
10	16QAM	50	0	21.58	21.71	21.57		
10	64QAM	1	0	21.65	21.79	21.73		
10	64QAM	1	25	21.59	21.73	21.69	23.5	2
10	64QAM	1	49	21.65	21.69	21.64		
10	64QAM	25	0	20.90	20.95	20.86		
10	64QAM	25	12	20.82	20.86	20.76		
10	64QAM	25	25	20.81	20.91	20.84	22.5	3
10	64QAM	50	0	20.68	20.83	20.72		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.62	23.67	23.58		
5	QPSK	1	12	23.57	23.58	23.58	25.5	0
5	QPSK	1	24	23.57	23.55	23.52		
5	QPSK	12	0	22.55	22.67	22.54		
5	QPSK	12	7	22.51	22.64	22.59	24.5	1
5	QPSK	12	13	22.51	22.52	22.52		
5	QPSK	25	0	22.55	22.67	22.53		
5	16QAM	1	0	22.57	22.55	22.58	24.5	1
5	16QAM	1	12	22.51	22.55	22.58		
5	16QAM	1	24	22.59	22.54	22.55		
5	16QAM	12	0	21.65	21.74	21.63		
5	16QAM	12	7	21.61	21.63	21.59	23.5	2
5	16QAM	12	13	21.53	21.66	21.59		
5	16QAM	25	0	21.53	21.58	21.51		
5	64QAM	1	0	21.54	21.71	21.58	23.5	2
5	64QAM	1	12	21.55	21.64	21.64		
5	64QAM	1	24	21.51	21.61	21.56		
5	64QAM	12	0	20.77	20.90	20.83		
5	64QAM	12	7	20.69	20.79	20.65	22.5	3
5	64QAM	12	13	20.67	20.85	20.72		
5	64QAM	25	0	20.56	20.90	20.60		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.54	23.63	23.60		
3	QPSK	1	8	23.57	23.56	23.58	25.5	0
3	QPSK	1	14	23.53	23.57	23.59		
3	QPSK	8	0	22.52	22.66	22.52		
3	QPSK	8	4	22.58	22.57	22.51	24.5	1
3	QPSK	8	7	22.56	22.54	22.55		
3	QPSK	15	0	22.50	22.58	22.57		
3	16QAM	1	0	22.59	22.54	22.59		
3	16QAM	1	8	22.58	22.51	22.60	24.5	1
3	16QAM	1	14	22.53	22.59	22.51		
3	16QAM	8	0	21.59	21.75	21.65		
3	16QAM	8	4	21.58	21.67	21.61	23.5	2
3	16QAM	8	7	21.56	21.72	21.55		
3	16QAM	15	0	21.55	21.63	21.64		
3	64QAM	1	0	21.60	21.72	21.63	23.5	2
3	64QAM	1	8	21.56	21.64	21.60		
3	64QAM	1	14	21.59	21.64	21.57		
3	64QAM	8	0	20.79	20.96	20.79		
3	64QAM	8	4	20.77	20.71	20.72	22.5	3
3	64QAM	8	7	20.74	20.79	20.73		
3	64QAM	15	0	20.63	20.75	20.61		
Channel				23017	23095	23173		
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	23.64	23.65	23.58		
1.4	QPSK	1	3	23.52	23.51	23.55	25.5	0
1.4	QPSK	1	5	23.56	23.70	23.65		
1.4	QPSK	3	0	23.55	23.63	23.59		
1.4	QPSK	3	1	23.56	23.58	23.59		
1.4	QPSK	3	3	23.52	23.52	23.54		
1.4	QPSK	6	0	22.58	22.72	22.61	24.5	1
1.4	16QAM	1	0	22.52	22.58	22.50		
1.4	16QAM	1	3	22.54	22.51	22.57	24.5	1
1.4	16QAM	1	5	22.54	22.60	22.53		
1.4	16QAM	3	0	22.54	22.57	22.51		
1.4	16QAM	3	1	22.51	22.57	22.50		
1.4	16QAM	3	3	22.58	22.52	22.56		
1.4	16QAM	6	0	21.66	21.75	21.56	23.5	2
1.4	64QAM	1	0	21.59	21.59	21.52		
1.4	64QAM	1	3	21.59	21.67	21.52		
1.4	64QAM	1	5	21.64	21.58	21.52	23.5	2
1.4	64QAM	3	0	21.55	21.71	21.60		
1.4	64QAM	3	1	21.50	21.68	21.63		
1.4	64QAM	3	3	21.53	21.58	21.53		
1.4	64QAM	6	0	20.74	20.82	20.66	22.5	3

Band 17 Other PA Ant1 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23760	23790	23850		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.57	23.70	23.59		
10	QPSK	1	25	23.54	23.59	23.51	25.5	0
10	QPSK	1	49	23.55	23.59	23.51		
10	QPSK	25	0	22.60	22.66	22.58		
10	QPSK	25	12	22.53	22.59	22.55	24.5	1
10	QPSK	25	25	22.53	22.58	22.56		
10	QPSK	50	0	22.57	22.61	22.54		
10	16QAM	1	0	22.50	22.56	22.59		
10	16QAM	1	25	22.57	22.53	22.51	24.5	1
10	16QAM	1	49	22.53	22.59	22.52		
10	16QAM	25	0	21.61	21.71	21.66		
10	16QAM	25	12	21.61	21.58	21.56	23.5	2
10	16QAM	25	25	21.51	21.72	21.52		
10	16QAM	50	0	21.57	21.60	21.58		
10	64QAM	1	0	21.50	21.74	21.63		
10	64QAM	1	25	21.58	21.59	21.63	23.5	2
10	64QAM	1	49	21.54	21.66	21.60		
10	64QAM	25	0	20.86	20.87	20.85		
10	64QAM	25	12	20.77	20.81	20.69	22.5	3
10	64QAM	25	25	20.71	20.76	20.76		
10	64QAM	50	0	20.63	20.73	20.63		
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.51	23.65	23.54		
5	QPSK	1	12	23.53	23.55	23.57	25.5	0
5	QPSK	1	24	23.54	23.64	23.56		
5	QPSK	12	0	22.72	22.83	22.67		
5	QPSK	12	7	22.52	22.74	22.68	24.5	1
5	QPSK	12	13	22.58	22.72	22.52		
5	QPSK	25	0	22.63	22.72	22.64		
5	16QAM	1	0	22.67	22.62	22.56	24.5	1
5	16QAM	1	12	22.55	22.66	22.57		
5	16QAM	1	24	22.51	22.59	22.58		
5	16QAM	12	0	21.75	21.84	21.73		
5	16QAM	12	7	21.72	21.67	21.61	23.5	2
5	16QAM	12	13	21.61	21.65	21.66		
5	16QAM	25	0	21.58	21.59	21.56		
5	64QAM	1	0	21.59	21.72	21.67	23.5	2
5	64QAM	1	12	21.54	21.62	21.60		
5	64QAM	1	24	21.51	21.61	21.62		
5	64QAM	12	0	20.92	20.90	20.85		
5	64QAM	12	7	20.83	20.76	20.65	22.5	3
5	64QAM	12	13	20.73	20.76	20.74		
5	64QAM	25	0	20.65	20.69	20.69		



Reduced Power Mode for Other PA DSI4

Band 12 Other PA Ant0 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23050	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.50	24.56	24.44	25.5	0	
10	QPSK	1	25	24.37	24.44	24.40			
10	QPSK	1	49	24.40	24.50	24.45			
10	QPSK	25	0	23.70	23.74	23.63			
10	QPSK	25	12	23.63	23.67	23.61	24.5	1	
10	QPSK	25	25	23.49	23.64	23.58			
10	QPSK	50	0	23.55	23.68	23.55			
10	16QAM	1	0	23.47	23.62	23.56	24.5	1	
10	16QAM	1	25	23.59	23.68	23.62			
10	16QAM	1	49	23.54	23.57	23.48			
10	16QAM	25	0	22.55	22.65	22.62			
10	16QAM	25	12	22.61	22.66	22.52	23.5	2	
10	16QAM	25	25	22.44	22.51	22.44			
10	16QAM	50	0	22.64	22.91	22.66			
10	64QAM	1	0	22.54	22.66	22.54	23.5	2	
10	64QAM	1	25	22.60	22.68	22.54			
10	64QAM	1	49	22.70	22.76	22.61			
10	64QAM	25	0	21.48	21.59	21.55	22.5	3	
10	64QAM	25	12	21.81	21.86	21.84			
10	64QAM	25	25	21.60	21.75	21.65			
10	64QAM	50	0	21.90	22.04	21.82			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.42	24.45	24.36	25.5	0	
5	QPSK	1	12	24.34	24.34	24.33			
5	QPSK	1	24	24.27	24.38	24.37			
5	QPSK	12	0	23.57	23.65	23.55	24.5	1	
5	QPSK	12	7	23.51	23.63	23.54			
5	QPSK	12	13	23.39	23.55	23.50			
5	QPSK	25	0	23.44	23.56	23.40	24.5	1	
5	16QAM	1	0	23.36	23.53	23.49	24.5	1	
5	16QAM	1	12	23.47	23.61	23.58			
5	16QAM	1	24	23.39	23.51	23.36			
5	16QAM	12	0	22.48	22.54	22.55	23.5	2	
5	16QAM	12	7	22.49	22.51	22.46			
5	16QAM	12	13	22.31	22.48	22.41			
5	16QAM	25	0	22.74	22.85	22.73	23.5	2	
5	64QAM	1	0	22.45	22.62	22.41	22.5	2	
5	64QAM	1	12	22.50	22.65	22.48			
5	64QAM	1	24	22.60	22.63	22.54			
5	64QAM	12	0	21.42	21.55	21.41	22.5	3	
5	64QAM	12	7	21.71	21.80	21.79			
5	64QAM	12	13	21.53	21.68	21.51			
5	64QAM	25	0	21.65	21.97	21.77			
Channel				23055	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.40	24.52	24.41	25.5	0	
3	QPSK	1	8	24.34	24.34	24.34			
3	QPSK	1	14	24.36	24.40	24.36			
3	QPSK	8	0	23.66	23.65	23.49	24.5	1	
3	QPSK	8	4	23.55	23.59	23.58			
3	QPSK	8	7	23.39	23.52	23.53			
3	QPSK	15	0	23.50	23.62	23.48	24.5	1	
3	16QAM	1	0	23.38	23.49	23.49	23.5	1	
3	16QAM	1	8	23.47	23.53	23.55			
3	16QAM	1	14	23.45	23.43	23.35	23.5	2	
3	16QAM	8	0	22.45	22.58	22.59			
3	16QAM	8	4	22.47	22.59	22.48			
3	16QAM	8	7	22.39	22.40	22.40			
3	16QAM	15	0	22.77	22.77	22.79	23.5	2	
3	64QAM	1	0	22.44	22.57	22.41	22.5	2	
3	64QAM	1	8	22.56	22.58	22.39			
3	64QAM	1	14	22.59	22.73	22.52			
3	64QAM	8	0	21.44	21.55	21.43	22.5	3	
3	64QAM	8	4	21.77	21.83	21.78			
3	64QAM	8	7	21.49	21.61	21.52			
3	64QAM	15	0	21.79	22.00	21.83			
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.41	24.49	24.33	25.5	0	
1.4	QPSK	1	3	24.34	24.38	24.25			
1.4	QPSK	1	5	24.35	24.41	24.38			
1.4	QPSK	3	0	24.40	24.44	24.36	24.5	1	
1.4	QPSK	3	1	24.25	24.35	24.30			
1.4	QPSK	3	3	24.30	24.41	24.32			
1.4	QPSK	6	0	23.58	23.69	23.54	24.5	1	
1.4	16QAM	1	0	23.51	23.54	23.53	24.5	1	
1.4	16QAM	1	3	23.39	23.52	23.52			
1.4	16QAM	1	5	23.46	23.59	23.47			
1.4	16QAM	3	0	23.42	23.48	23.47	23.5	2	
1.4	16QAM	3	1	23.50	23.59	23.56			
1.4	16QAM	3	3	23.44	23.48	23.35			
1.4	16QAM	6	0	22.51	22.61	22.47	23.5	2	
1.4	64QAM	1	0	22.49	22.54	22.44	23.5	2	
1.4	64QAM	1	3	22.40	22.43	22.36			
1.4	64QAM	1	5	22.45	22.50	22.42			
1.4	64QAM	3	0	22.47	22.59	22.47			
1.4	64QAM	3	1	22.50	22.60	22.47			
1.4	64QAM	3	3	22.59	22.62	22.55	22.5	3	
1.4	64QAM	6	0	21.58	21.62	21.59			

Band 17 Other PA Ant0 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.43	24.51	24.46	25.5	0	
10	QPSK	1	25	24.31	24.40	24.36			
10	QPSK	1	49	24.38	24.47	24.33			
10	QPSK	25	0	23.64	23.68	23.57	24.5	1	
10	QPSK	25	12	23.45	23.59	23.46			
10	QPSK	25	25	23.34	23.46	23.34	23.5	2	
10	QPSK	50	0	23.65	23.68	23.65			
10	16QAM	1	0	23.46	23.50	23.42	24.5	1	
10	16QAM	1	25	23.29	23.42	23.32			
10	16QAM	1	49	23.21	23.34	23.26			
10	16QAM	25	0	22.58	22.73	22.62	23.5	2	
10	16QAM	25	12	22.69	22.72	22.58			
10	16QAM	25	25	22.65	22.73	22.62			
10	16QAM	50	0	22.67	22.79	22.73	22.5	3	
10	64QAM	1	0	22.43	22.50	22.41	23.5	2	
10	64QAM	1	25	22.50	22.54	22.48			
10	64QAM	1	49	22.26	22.32	22.21			
10	64QAM	25	0	21.59	21.66	21.59	22.5	3	
10	64QAM	25	12	21.68	21.77	21.66			
10	64QAM	25	25	21.50	21.56	21.49			
10	64QAM	50	0	21.59	21.66	21.62			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.39	24.45	24.43	25.5	0	
5	QPSK	1	12	24.24	24.35	24.25			
5	QPSK	1	24	24.35	24.35	24.22			
5	QPSK	12	0	23.59	23.61	23.49	24.5	1	
5	QPSK	12	7	23.40	23.47	23.39			
5	QPSK	12	13	23.38	23.42	23.25			
5	QPSK	25	0	23.44	23.55	23.39	24.5	1	
5	16QAM	1	0	23.32	23.45	23.31	24.5	1	
5	16QAM	1	12	23.20	23.32	23.26			
5	16QAM	1	24	23.07	23.29	23.22			
5	16QAM	12	0	22.54	22.61	22.51	23.5	2	
5	16QAM	12	7	22.66	22.59	22.54			
5	16QAM	12	13	22.58	22.59	22.51			
5	16QAM	25	0	22.57	22.67	22.63	23.5	2	
5	64QAM	1	0	22.38	22.37	22.37	22.5	2	
5	64QAM	1	12	22.41	22.46	22.37			
5	64QAM	1	24	22.22	22.27	22.16			
5	64QAM	12	0	21.44	21.58	21.53	22.5	3	
5	64QAM	12	7	21.60	21.70	21.54		</	



Band 12 Other PA Ant1 DSI4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	23.69	23.74	23.67				
10	QPSK	1	25	23.59	23.66	23.61	25.5	0		
10	QPSK	1	49	23.57	23.61	23.52				
10	QPSK	25	0	22.66	22.76	22.67				
10	QPSK	25	12	22.56	22.70	22.59	24.5	1		
10	QPSK	25	25	22.55	22.65	22.60				
10	QPSK	50	0	22.59	22.72	22.67				
10	16QAM	1	0	22.58	22.67	22.55				
10	16QAM	1	25	22.53	22.61	22.56	24.5	1		
10	16QAM	1	49	22.54	22.57	22.53				
10	16QAM	25	0	21.73	21.81	21.71				
10	16QAM	25	12	21.70	21.73	21.65				
10	16QAM	25	25	21.63	21.77	21.66	23.5	2		
10	16QAM	50	0	21.58	21.71	21.57				
10	64QAM	1	0	21.65	21.79	21.73				
10	64QAM	1	25	21.59	21.73	21.69	23.5	2		
10	64QAM	1	49	21.65	21.69	21.64				
10	64QAM	25	0	20.90	20.95	20.88				
10	64QAM	25	12	20.82	20.86	20.76	22.5	3		
10	64QAM	25	25	20.81	20.91	20.84				
10	64QAM	50	0	20.68	20.83	20.72				
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	23.62	23.67	23.58				
5	QPSK	1	12	23.57	23.59	23.58	25.5	0		
5	QPSK	1	24	23.57	23.55	23.52				
5	QPSK	12	0	22.85	22.67	22.54				
5	QPSK	12	7	22.51	22.64	22.59	24.5	1		
5	QPSK	12	13	22.51	22.52	22.52				
5	QPSK	25	0	22.55	22.67	22.53				
5	16QAM	1	0	22.57	22.55	22.58				
5	16QAM	1	12	22.51	22.55	22.59	24.5	1		
5	16QAM	1	24	22.59	22.54	22.55				
5	16QAM	12	0	21.65	21.74	21.63				
5	16QAM	12	7	21.61	21.63	21.59	23.5	2		
5	16QAM	12	13	21.53	21.66	21.59				
5	16QAM	25	0	21.53	21.58	21.51				
5	64QAM	1	0	21.54	21.71	21.58	23.5	2		
5	64QAM	1	12	21.55	21.64	21.64				
5	64QAM	1	24	21.51	21.61	21.56				
5	64QAM	12	0	20.77	20.90	20.83				
5	64QAM	12	7	20.69	20.79	20.65	22.5	3		
5	64QAM	12	13	20.67	20.85	20.72				
5	64QAM	25	0	20.56	20.80	20.60				
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	23.64	23.63	23.60				
3	QPSK	1	8	23.57	23.56	23.58	25.5	0		
3	QPSK	1	14	23.53	23.57	23.59				
3	QPSK	8	0	22.52	22.66	22.52				
3	QPSK	8	4	22.58	22.57	22.51	24.5	1		
3	QPSK	8	7	22.56	22.54	22.55				
3	QPSK	15	0	22.50	22.58	22.57				
3	16QAM	1	0	22.59	22.54	22.59				
3	16QAM	1	8	22.58	22.51	22.80	24.5	1		
3	16QAM	1	14	22.53	22.59	22.51				
3	16QAM	8	0	21.59	21.75	21.65				
3	16QAM	8	4	21.58	21.67	21.61	23.5	2		
3	16QAM	8	7	21.56	21.72	21.55				
3	16QAM	15	0	21.55	21.63	21.54				
3	64QAM	1	0	21.60	21.72	21.63	23.5	2		
3	64QAM	1	8	21.56	21.64	21.60				
3	64QAM	1	14	21.59	21.64	21.57				
3	64QAM	8	0	20.79	20.86	20.79	22.5	3		
3	64QAM	8	4	20.77	20.71	20.72				
3	64QAM	8	7	20.74	20.79	20.73				
3	64QAM	15	0	20.63	20.75	20.61				
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	23.64	23.65	23.58				
1.4	QPSK	1	3	23.52	23.51	23.55	25.5	0		
1.4	QPSK	1	5	23.56	23.70	23.65				
1.4	QPSK	3	0	23.55	23.63	23.59				
1.4	QPSK	3	1	23.56	23.58	23.59	24.5	1		
1.4	QPSK	3	3	23.52	23.52	23.54				
1.4	QPSK	6	0	22.58	22.72	22.61				
1.4	16QAM	1	0	22.52	22.58	22.50	24.5	1		
1.4	16QAM	1	3	22.54	22.51	22.57				
1.4	16QAM	1	5	22.54	22.60	22.53				
1.4	16QAM	3	0	22.54	22.57	22.51				
1.4	16QAM	3	1	22.51	22.57	22.50				
1.4	16QAM	3	3	22.58	22.52	22.56				
1.4	16QAM	6	0	21.66	21.75	21.56	23.5	2		
1.4	64QAM	1	0	21.59	21.59	21.52				
1.4	64QAM	1	3	21.59	21.67	21.52	23.5	2		
1.4	64QAM	1	5	21.54	21.58	21.52				
1.4	64QAM	3	0	21.55	21.71	21.60				
1.4	64QAM	3	1	21.50	21.68	21.63				
1.4	64QAM	3	3	21.53	21.58	21.53	22.5	3		
1.4	64QAM	6	0	20.74	20.82	20.66				

Band 17 Other PA Ant1 DSI4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23760	23790	23800				
Frequency (MHz)				709	710	711				
10	QPSK	1	0	23.57	23.70	23.59				
10	QPSK	1	25	23.54	23.59	23.51	25.5	0		
10	QPSK	1	49	23.55	23.59	23.51				
10	QPSK	25	0	22.60	22.66	22.58				
10	QPSK	25	12	22.53	22.59	22.55	24.5	1		
10	QPSK	25	25	22.53	22.58	22.50				
10	QPSK	50	0	22.57	22.61	22.54				
10	16QAM	1	0	22.50	22.56	22.59				
10	16QAM	1	25	22.57	22.53	22.51	24.5	1		
10	16QAM	1	49	22.53	22.59	22.52				
10	16QAM	25	0	21.61	21.71	21.66				
10	16QAM	25	12	21.61	21.58	21.56	23.5	2		
10	16QAM	25	25	21.51	21.72	21.52				
10	16QAM	50	0	21.57	21.60	21.58				
10	64QAM	1	0	21.50	21.74	21.63				
10	64QAM	1	25	21.58	21.59	21.63	23.5	2		
10	64QAM	1	49	21.54	21.66	21.60				
10	64QAM	25	0	20.86	20.87	20.85	22.5	3		
10	64QAM	25	12	20.77	20.81	20.89				
10	64QAM	25	25	20.71	20.78	20.76				
10	64QAM	50	0	20.53	20.73	20.63				
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	23.51	23.65	23.54				
5	QPSK	1	12	23.53	23.55	23.57	25.5	0		
5	QPSK	1	24	23.54	23.64	23.56				
5	QPSK	12	0	22.72	22.83	22.67				
5	QPSK	12	7	22.62	22.74	22.68	24.5	1		
5	QPSK	12	13	22.58	22.72	22.56				
5	QPSK	25	0	22.63	22.72	22.64				
5	16QAM	1	0	22.67	22.62	22.56	24.5	1		
5	16QAM	1	12	22.65	22.66	22.67				
5	16QAM	1	24	22.51	22.59	22.58				
5	16QAM	12	0	21.75	21.84	21.73				
5	16QAM	12	7	21.72	21.67	21.61	23.5	2		
5	16QAM	12	13	21.61	21.85	21.66				
5	16QAM	25	0	21.58	21.69	21.56				
5	64QAM	1	0	21.59	21.72	21.67	23.5	2		
5	64QAM	1	12	21.54	21.					



DL CA Power

2CA DL

CA List	PCC										SCC				Power		R17.0.25dB的 修正值
	LTE Band	BW Ant	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	ULF RB	LL RB	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)	
											LTE	BW	DL	DL	DL Antenna Configuration	With CA	
CA_41A-42A	Band 41	Ant1	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	23.77	23.81	0.04
	Band 41	Ant2	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	25.33	25.38	0.05
	Band 41	Ant3	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	23.12	23.25	0.13
	Band 41	Ant4	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	25.26	25.31	0.05
	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	23.40	23.46	0.06
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	24.97	25.05	0.08
	Band 42	Ant6	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	24.69	24.77	0.08
	Band 42	Ant7	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	23.47	23.55	0.08

3CA DL

CA_41A-42C	Band 41	Ant1	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	23.77	23.81	0.04
	Band 41	Ant2	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	25.24	25.38	0.14
	Band 41	Ant3	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	23.12	23.25	0.13
	Band 41	Ant4	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	25.28	25.31	0.03
	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	23.36	23.46	0.10
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	24.97	25.05	0.08
	Band 42	Ant6	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	24.67	24.77	0.10
	Band 42	Ant7	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	23.47	23.55	0.08
	Band 41	Ant1	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	23.74	23.81	0.07
	Band 41	Ant2	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	25.24	25.38	0.14
CA_41C-42A	Band 41	Ant3	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	23.12	23.25	0.13
	Band 41	Ant4	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	25.22	25.31	0.09
	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	23.34	23.46	0.12
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	24.96	25.05	0.09
	Band 42	Ant6	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	24.59	24.77	0.18
	Band 42	Ant7	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	23.37	23.55	0.18

4CA DL

CA_41C-42C	Band 41	Ant1	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	23.85	23.81	-0.04
	Band 41	Ant2	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	25.38	25.38	0.00
	Band 41	Ant3	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	23.03	23.25	0.22
	Band 41	Ant4	20M	2953	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	25.32	25.31	-0.01
	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	23.39	23.46	0.07
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	24.95	25.05	0.10
	Band 42	Ant6	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	24.65	24.77	0.12
	Band 42	Ant7	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2953	40620	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	23.41	23.55	0.14



Default Uplink CA Power

CA_41C Ant4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	24.8	25.70		
40165	40363	QPSK	1	99	1	0	24.77	25.70		
40580	40810	QPSK	1	99	1	0	24.85	25.70		
41055	41253	QPSK	1	99	1	0	24.79	25.70		
41490	41292	QPSK	1	0	1	99	24.76	25.70		

CA_41C Ant2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	24.75	25.50		
40165	40363	QPSK	1	99	1	0	24.62	25.50		
40580	40810	QPSK	1	99	1	0	24.91	25.50		
41055	41253	QPSK	1	99	1	0	24.79	25.50		
41490	41292	QPSK	1	0	1	99	24.88	25.50		

CA_41C Ant1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.32	24.50		
40165	40363	QPSK	1	99	1	0	23.36	24.50		
40580	40810	QPSK	1	99	1	0	23.45	24.50		
41055	41253	QPSK	1	99	1	0	23.41	24.50		
41490	41292	QPSK	1	0	1	99	23.34	24.50		

CA_41C Ant3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.57	24.50		
40165	40363	QPSK	1	99	1	0	22.64	24.50		
40580	40810	QPSK	1	99	1	0	22.67	24.50		
41055	41253	QPSK	1	99	1	0	22.62	24.50		
41490	41292	QPSK	1	0	1	99	22.59	24.50		

CA_42C Ant5										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	24.03	25.50		
42590	42788	QPSK	1	99	1	0	24.12	25.50		
42950	42792	QPSK	1	0	1	99	24.09	25.50		

CA_42C Ant1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	22.69	24.50		
42590	42788	QPSK	1	99	1	0	22.74	24.50		
42950	42792	QPSK	1	0	1	99	22.62	24.50		

CA_42C Ant6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	23.82	25.00		
42590	42788	QPSK	1	99	1	0	23.94	25.00		
42950	42792	QPSK	1	0	1	99	23.91	25.00		

CA_42C Ant7										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	22.76	24.00		
42590	42788	QPSK	1	99	1	0	22.84	24.00		
42950	42792	QPSK	1	0	1	99	22.81	24.00		



DSIO Uplink CA Power

CA_41C Ant4 DSIO										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.71	22.70		
40165	40363	QPSK	1	99	1	0	21.67	22.70		
40580	40810	QPSK	1	99	1	0	21.8	22.70		
41055	41253	QPSK	1	99	1	0	21.74	22.70		
41490	41292	QPSK	1	0	1	99	21.69	22.70		

CA_41C Ant2 DSIO										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	24.75	25.50		
40165	40363	QPSK	1	99	1	0	24.62	25.50		
40580	40810	QPSK	1	99	1	0	24.91	25.50		
41055	41253	QPSK	1	99	1	0	24.79	25.50		
41490	41292	QPSK	1	0	1	99	24.88	25.50		

CA_41C Ant1 DSIO										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.13	20.50		
40165	40363	QPSK	1	99	1	0	19.16	20.50		
40580	40810	QPSK	1	99	1	0	19.22	20.50		
41055	41253	QPSK	1	99	1	0	19.16	20.50		
41490	41292	QPSK	1	0	1	99	19.09	20.50		

CA_41C Ant3 DSIO										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	20.03	22.00		
40165	40363	QPSK	1	99	1	0	20.16	22.00		
40580	40810	QPSK	1	99	1	0	20.11	22.00		
41055	41253	QPSK	1	99	1	0	20.09	22.00		
41490	41292	QPSK	1	0	1	99	20.05	22.00		

CA_42C Ant5 DSIO										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	18.92	20.50		
42590	42788	QPSK	1	99	1	0	19.05	20.50		
42950	42792	QPSK	1	0	1	99	18.97	20.50		

CA_42C Ant1 DSIO										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	18.56	20.50		
42590	42788	QPSK	1	99	1	0	18.61	20.50		
42950	42792	QPSK	1	0	1	99	18.54	20.50		

CA_42C Ant6 DSIO										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	16.63	18.00		
42590	42788	QPSK	1	99	1	0	16.72	18.00		
42950	42792	QPSK	1	0	1	99	16.66	18.00		

CA_42C Ant7 DSIO										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	22.76	24.00		
42590	42788	QPSK	1	99	1	0	22.84	24.00		
42950	42792	QPSK	1	0	1	99	22.81	24.00		



DS11 Uplink CA Power

CA_41C Ant4 DS11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	24.2	25.20		
40165	40363	QPSK	1	99	1	0	24.29	25.20		
40580	40810	QPSK	1	99	1	0	24.34	25.20		
41055	41253	QPSK	1	99	1	0	24.31	25.20		
41490	41292	QPSK	1	0	1	99	24.22	25.20		

CA_41C Ant2 DS11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.67	23.50		
40165	40363	QPSK	1	99	1	0	22.71	23.50		
40580	40810	QPSK	1	99	1	0	22.74	23.50		
41055	41253	QPSK	1	99	1	0	22.66	23.50		
41490	41292	QPSK	1	0	1	99	22.63	23.50		

CA_41C Ant1 DS11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.22	22.50		
40165	40363	QPSK	1	99	1	0	21.25	22.50		
40580	40810	QPSK	1	99	1	0	21.33	22.50		
41055	41253	QPSK	1	99	1	0	21.21	22.50		
41490	41292	QPSK	1	0	1	99	21.27	22.50		

CA_41C Ant3 DS11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.57	24.50		
40165	40363	QPSK	1	99	1	0	22.64	24.50		
40580	40810	QPSK	1	99	1	0	22.67	24.50		
41055	41253	QPSK	1	99	1	0	22.62	24.50		
41490	41292	QPSK	1	0	1	99	22.59	24.50		

CA_42C Ant5 DS11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	20.87	22.50		
42590	42788	QPSK	1	99	1	0	20.98	22.50		
42990	42792	QPSK	1	0	1	99	20.92	22.50		

CA_42C Ant1 DS11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	19.06	21.00		
42590	42788	QPSK	1	99	1	0	19.11	21.00		
42990	42792	QPSK	1	0	1	99	19.03	21.00		

CA_42C Ant6 DS11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	20.18	21.50		
42590	42788	QPSK	1	99	1	0	20.28	21.50		
42990	42792	QPSK	1	0	1	99	20.21	21.50		

CA_42C Ant7 DS11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	18.05	19.50		
42590	42788	QPSK	1	99	1	0	18.18	19.50		
42990	42792	QPSK	1	0	1	99	18.11	19.50		



DSI3 Uplink CA Power

CA_41C Ant4 DSI3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	24.2	25.20		
40165	40363	QPSK	1	99	1	0	24.29	25.20		
40580	40810	QPSK	1	99	1	0	24.34	25.20		
41055	41253	QPSK	1	99	1	0	24.31	25.20		
41490	41292	QPSK	1	0	1	99	24.22	25.20		

CA_41C Ant2 DSI3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	24.75	25.50		
40165	40363	QPSK	1	99	1	0	24.62	25.50		
40580	40810	QPSK	1	99	1	0	24.91	25.50		
41055	41253	QPSK	1	99	1	0	24.79	25.50		
41490	41292	QPSK	1	0	1	99	24.88	25.50		

CA_41C Ant1 DSI3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.32	24.50		
40165	40363	QPSK	1	99	1	0	23.36	24.50		
40580	40810	QPSK	1	99	1	0	23.45	24.50		
41055	41253	QPSK	1	99	1	0	23.41	24.50		
41490	41292	QPSK	1	0	1	99	23.34	24.50		

CA_41C Ant3 DSI3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.57	24.50		
40165	40363	QPSK	1	99	1	0	22.64	24.50		
40580	40810	QPSK	1	99	1	0	22.67	24.50		
41055	41253	QPSK	1	99	1	0	22.62	24.50		
41490	41292	QPSK	1	0	1	99	22.59	24.50		

CA_42C Ant5 DSI3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	20.87	22.50		
42590	42788	QPSK	1	99	1	0	20.98	22.50		
42950	42792	QPSK	1	0	1	99	20.92	22.50		

CA_42C Ant1 DSI3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	21.55	23.00		
42590	42788	QPSK	1	99	1	0	21.59	23.00		
42950	42792	QPSK	1	0	1	99	21.52	23.00		

CA_42C Ant6 DSI3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	20.18	21.50		
42590	42788	QPSK	1	99	1	0	20.28	21.50		
42950	42792	QPSK	1	0	1	99	20.21	21.50		

CA_42C Ant7 DSI3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42150	42388	QPSK	1	99	1	0	22.76	24.00		
42590	42788	QPSK	1	99	1	0	22.84	24.00		
42950	42792	QPSK	1	0	1	99	22.81	24.00		



DSI4 Uplink CA Power

CA_41C Ant4 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.71	22.70		
40165	40363	QPSK	1	99	1	0	21.67	22.70		
40580	40810	QPSK	1	99	1	0	21.8	22.70		
41055	41253	QPSK	1	99	1	0	21.74	22.70		
41490	41292	QPSK	1	0	1	99	21.69	22.70		

CA_41C Ant2 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.67	23.50		
40165	40363	QPSK	1	99	1	0	22.71	23.50		
40580	40810	QPSK	1	99	1	0	22.74	23.50		
41055	41253	QPSK	1	99	1	0	22.66	23.50		
41490	41292	QPSK	1	0	1	99	22.63	23.50		

CA_41C Ant1 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.13	20.50		
40165	40363	QPSK	1	99	1	0	19.16	20.50		
40580	40810	QPSK	1	99	1	0	19.22	20.50		
41055	41253	QPSK	1	99	1	0	19.16	20.50		
41490	41292	QPSK	1	0	1	99	19.09	20.50		

CA_41C Ant3 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	20.03	22.00		
40165	40363	QPSK	1	99	1	0	20.16	22.00		
40580	40810	QPSK	1	99	1	0	20.11	22.00		
41055	41253	QPSK	1	99	1	0	20.09	22.00		
41490	41292	QPSK	1	0	1	99	20.05	22.00		

CA_42C Ant5 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	18.92	20.50		
42590	42788	QPSK	1	99	1	0	19.05	20.50		
42990	42792	QPSK	1	0	1	99	18.97	20.50		

CA_42C Ant1 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	18.96	20.50		
42590	42788	QPSK	1	99	1	0	18.61	20.50		
42990	42792	QPSK	1	0	1	99	18.64	20.50		

CA_42C Ant6 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure d Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	16.63	18.00		
42590	42788	QPSK	1	99	1	0	16.72	18.00		
42990	42792	QPSK	1	0	1	99	16.66	18.00		



CA_42C Ant7 DS4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measure of Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	17.21	18.50
42590	42788	QPSK	1	99	1	0	17.28	18.50
42990	42792	QPSK	1	0	1	99	17.17	18.50



Default Power for FR1 Main PA

n41 Main PA 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				505202	518598	526000		
Frequency (MHz)				2548.01	2592.99	2640		
100	QPSK	1	1	23.93	23.98	23.89		
100	QPSK	1	137	23.84	23.93	23.87	25.0	0.0
100	QPSK	1	271	23.75	23.88	23.75		
100	QPSK	135	0	22.87	22.98	22.87	24.0	1.0
100	QPSK	135	69	23.78	23.92	23.85	25.0	0.0
100	QPSK	135	138	22.88	22.97	22.90	24.0	1.0
100	QPSK	270	0	22.94	23.07	23.01		
100	16QAM	1	1	22.80	22.95	22.91	24.0	1.0
100	64QAM	1	1	21.28	21.34	21.30	22.5	2.5
100	256QAM	1	1	19.43	19.55	19.49	20.5	4.5
Channel				508200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2941	2992.99	3044.98		
90	QPSK	1	1	23.82	23.92	23.80	25.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2936.02	2992.99	3040.99		
80	QPSK	1	1	23.84	23.95	23.79	25.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2926	2992.99	3059.98		
60	QPSK	1	1	23.91	23.98	23.82	25.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2921.02	2992.99	3064.99		
50	QPSK	1	1	23.80	23.85	23.81	25.0	0.0
Channel				502202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2916.01	2992.99	3070		
40	QPSK	1	1	23.86	23.92	23.75	25.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2911	2992.99	3074.98		
30	QPSK	1	1	23.81	23.90	23.84	25.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2906.02	2992.99	3079.99		
20	QPSK	1	1	23.81	23.86	23.83	25.0	0.0

Part270 n77 Main PA 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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	23.21	23.31	23.26		
100	QPSK	1	137	23.12	23.22	23.20	25.0	0.0
100	QPSK	1	271	23.09	23.20	23.07		
100	QPSK	135	0	22.11	22.37	22.14	24.0	1.0
100	QPSK	135	69	23.11	23.27	23.14	25.0	0.0
100	QPSK	135	138	22.17	22.26	22.19	24.0	1.0
100	QPSK	270	0	22.25	22.30	22.22		
100	16QAM	1	1	22.12	22.21	22.21	24.0	1.0
100	64QAM	1	1	20.59	20.64	20.58	22.5	2.5
100	256QAM	1	1	18.76	18.92	18.71	20.5	4.5
Channel				648668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.15	23.20	23.20	25.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	23.10	23.19	23.15	25.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	23.10	23.20	23.15	25.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	23.13	23.21	23.18	25.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.14	23.24	23.16	25.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	23.14	23.24	23.14	25.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.16	23.26	23.15	25.0	0.0



Part27Q n77 Main PA 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				633334				
Frequency (MHz)				3500.01				
100	QPSK	1	1	23.33			25.0	0.0
100	QPSK	1	137	23.26				
100	QPSK	1	271	23.12				
100	QPSK	135	0	22.52			24.0	1.0
100	QPSK	135	69	23.31			25.0	0.0
100	QPSK	135	138	22.26			24.0	1.0
100	QPSK	270	0	22.39			24.0	1.0
100	16QAM	1	1	22.19			24.0	1.0
100	64QAM	1	1	20.65			22.5	2.5
100	256QAM	1	1	19.87			20.5	4.5
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	23.20	23.25	23.13	25.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	23.13	23.19	23.03	25.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	23.14	23.16	23.08	25.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	23.08	23.16	22.99	25.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	23.10	23.17	23.05	25.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	23.10	23.20	23.10	25.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	23.16	23.11	23.08	25.0	0.0

Part27O n78 Main PA 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				650000				
Frequency (MHz)				3750				
100	QPSK	1	1	23.35			25.0	0.0
100	QPSK	1	137	23.19				
100	QPSK	1	271	23.06				
100	QPSK	135	0	22.18			24.0	1.0
100	QPSK	135	69	23.31			25.0	0.0
100	QPSK	135	138	22.19			24.0	1.0
100	QPSK	270	0	22.30			24.0	1.0
100	16QAM	1	1	22.16			24.0	1.0
100	64QAM	1	1	20.61			22.5	2.5
100	256QAM	1	1	19.77			20.5	4.5
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	23.07	23.18	23.11	25.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	23.05	23.22	23.15	25.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	23.09	23.22	23.15	25.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	23.03	23.11	23.02	25.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	23.05	23.07	23.01	25.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3765.01	(dBm)	(dB)
30	QPSK	1	1	23.04	23.11	23.03	25.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	23.02	23.10	23.06	25.0	0.0



Part27Q n78 Main PA 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				633334				
Frequency (MHz)				3500.01				
100	QPSK	1	1		23.41			
100	QPSK	1	137		23.34		25.0	0.0
100	QPSK	1	271		23.23			
100	QPSK	135	0		22.46		24.0	1.0
100	QPSK	135	89		23.34		25.0	0.0
100	QPSK	135	138		22.36		24.0	1.0
100	QPSK	270	0		22.41			
100	16QAM	1	1		22.25		24.0	1.0
100	64QAM	1	1		20.80		22.5	2.5
100	256QAM	1	1		19.01		20.5	4.5
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	23.21	23.35	23.28	25.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	23.15	23.22	23.25	25.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	23.19	23.32	23.15	25.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	23.19	23.32	23.15	25.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	23.18	23.30	23.20	25.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	23.18	23.24	23.15	25.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	23.13	23.33	23.21	25.0	0.0



n41 Main PA 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				508202	518598	535300		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	25.27	25.38	25.36		
100	QPSK	1	137	25.24	25.37	25.28	25.7	0.0
100	QPSK	1	271	25.18	25.26	25.18		
100	QPSK	135	0	24.46	24.43	24.41	24.7	1.0
100	QPSK	135	69	25.20	25.35	25.22	25.7	0.0
100	QPSK	135	138	24.37	24.30	24.21	24.7	1.0
100	QPSK	270	0	24.42	24.46	24.44		
100	16QAM	1	1	24.21	24.31	24.14	24.7	1.0
100	64QAM	1	1	22.64	22.80	22.72	23.2	2.5
100	256QAM	1	1	20.80	21.00	20.83	21.2	4.5
Channel				508200	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.17	25.28	25.29	25.7	0.0
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.24	25.30	25.25	25.7	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538	2592.99	2658.99		
60	QPSK	1	1	25.18	25.25	25.28	25.7	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.21	25.25	25.33	25.7	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2630		
40	QPSK	1	1	25.23	25.25	25.22	25.7	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.14	25.25	25.32	25.7	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2678.99		
20	QPSK	1	1	25.22	25.31	25.29	25.7	0.0



n41 Main PA 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				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	23.14	23.19	23.08		
100	QPSK	1	137	23.09	23.14	23.04	24.5	0.0
100	QPSK	1	271	23.00	23.10	23.05		
100	QPSK	135	0	22.23	22.28	22.13	23.5	1.0
100	QPSK	135	69	22.99	23.14	23.09	24.5	0.0
100	QPSK	135	138	21.95	22.09	21.92	23.5	1.0
100	QPSK	270	0	22.10	22.21	21.98		
100	16QAM	1	1	22.03	22.17	22.05	23.5	1.0
100	64QAM	1	1	20.50	20.58	20.55	22.0	2.5
100	256QAM	1	1	18.79	18.86	18.80	20.0	4.5
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	23.04	23.14	23.02	24.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.09	23.06	23.02	24.5	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.99		
60	QPSK	1	1	23.10	23.17	23.02	24.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.03	23.06	22.97	24.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.00	23.08	22.98	24.5	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.11	23.16	23.01	24.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2678.99		
20	QPSK	1	1	23.10	23.11	23.02	24.5	0.0



n41 Main PA Ant4 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				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	25.42	25.54	25.47		
100	QPSK	1	137	25.36	25.51	25.40	25.7	0.0
100	QPSK	1	271	25.28	25.43	25.26		
100	QPSK	135	0	24.47	24.55	24.43	24.7	1.0
100	QPSK	135	69	25.36	25.47	25.31	25.7	0.0
100	QPSK	135	138	24.36	24.50	24.31	24.7	1.0
100	QPSK	270	0	24.39	24.52	24.30		
100	16QAM	1	1	24.42	24.41	24.33	24.7	1.0
100	64QAM	1	1	22.75	22.89	22.81	23.2	2.5
100	256QAM	1	1	21.03	21.09	21.01	21.2	4.5
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	25.35	25.49	25.40	25.7	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.35	25.52	25.36	25.7	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538	2592.99	2659.99		
60	QPSK	1	1	25.36	25.46	25.40	25.7	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.35	25.50	25.36	25.7	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	25.33	25.39	25.37	25.7	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.34	25.49	25.36	25.7	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.36	25.45	25.35	25.7	0.0



Part270 n77 Main PA Ant5 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				656000	656000	656000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	24.72	24.77	24.70		
100	QPSK	1	137	24.65	24.62	24.65	25.5	0.0
100	QPSK	1	271	24.50	24.62	24.46		
100	QPSK	135	0	23.52	23.74	23.60	24.5	1.0
100	QPSK	135	69	24.56	24.72	24.52	25.5	0.0
100	QPSK	135	138	23.53	23.62	23.57	24.5	1.0
100	QPSK	270	0	23.64	23.67	23.60		
100	16QAM	1	1	23.47	23.62	23.63	24.5	1.0
100	64QAM	1	1	22.05	22.10	21.94	23.0	2.5
100	256QAM	1	1	20.20	20.38	20.10	21.0	4.5
Channel				642668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	24.40	24.65	24.46	25.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	24.64	24.68	24.58	25.5	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01		
60	QPSK	1	1	24.64	24.70	24.65	25.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	24.46	24.60	24.39	25.5	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3960		
40	QPSK	1	1	24.71	24.68	24.67	25.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	24.68	24.66	24.56	25.5	0.0
Channel				647334	650000	656668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	24.71	24.71	24.60	25.5	0.0

Part27Q n77 Main PA Ant5 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	633334		
Frequency (MHz)				3500.01				
100	QPSK	1	1	24.72				
100	QPSK	1	137	24.53			25.5	0.0
100	QPSK	1	271	24.55				
100	QPSK	135	0	23.65			24.5	1.0
100	QPSK	135	69	24.66			25.5	0.0
100	QPSK	135	138	23.49			24.5	1.0
100	QPSK	270	0	23.63				
100	16QAM	1	1	23.48			24.5	1.0
100	64QAM	1	1	21.96			23.0	2.5
100	256QAM	1	1	20.28			21.0	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	24.41	24.65	24.45	25.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.53	24.69	24.52	25.5	0.0
Channel				632000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3500.02		
60	QPSK	1	1	24.53	24.57	24.54	25.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	24.48	24.60	24.44	25.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.61	24.66	24.48	25.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.55	24.59	24.57	25.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.61	24.62	24.54	25.5	0.0



Part270 n78 Main PA Ant5 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				650050	650050	650050		
Frequency (MHz)				3740	3750	3760		
100	QPSK	1	1		24.80			
100	QPSK	1	137		24.54		25.5	0.0
100	QPSK	1	271		24.84			
100	QPSK	135	0		23.76		24.5	1.0
100	QPSK	135	69		24.73		25.5	0.0
100	QPSK	135	138		23.51		24.5	1.0
100	QPSK	270	0		23.65			
100	16QAM	1	1		23.59		24.5	1.0
100	64QAM	1	1		22.01		23.0	2.5
100	256QAM	1	1		20.34		21.0	4.5
Channel				649688	650000	650384	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	24.60	24.68	23.61	25.5	0.0
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.61	24.73	23.62	25.5	0.0
Channel				648968	650000	651384	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735.02	3750	3770.01		
60	QPSK	1	1	24.61	24.86	23.57	25.5	0.0
Channel				648334	650000	651688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	24.63	24.72	23.64	25.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.60	24.70	23.63	25.5	0.0
Channel				647688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	24.66	24.64	23.61	25.5	0.0
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	24.59	24.67	23.64	25.5	0.0

Part27Q n78 Main PA Ant5 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					633334			
Frequency (MHz)					3500.01			
100	QPSK	1	1		24.74			
100	QPSK	1	137		24.44		25.5	0.0
100	QPSK	1	271		24.57			
100	QPSK	135	0		23.87		24.5	1.0
100	QPSK	135	69		24.66		25.5	0.0
100	QPSK	135	138		23.46		24.5	1.0
100	QPSK	270	0		23.51			
100	16QAM	1	1		23.47		24.5	1.0
100	64QAM	1	1		21.94		23.0	2.5
100	256QAM	1	1		20.21		21.0	4.5
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	24.58	24.66	24.58	25.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.57	24.60	24.62	25.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3520.02		
60	QPSK	1	1	24.65	24.65	24.59	25.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	24.65	24.70	24.61	25.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.62	24.69	24.63	25.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.62	24.67	24.59	25.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.63	24.62	24.62	25.5	0.0



Part270 n77 Main PA 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				656000	656000	656000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	24.39	24.47	24.34		
100	QPSK	1	137	24.23	24.34	24.27	26.0	0.0
100	QPSK	1	271	24.24	24.33	24.19		
100	QPSK	135	0	23.21	23.54	23.28	25.0	1.0
100	QPSK	135	69	24.16	24.35	24.24	26.0	0.0
100	QPSK	135	138	23.24	23.29	23.20	25.0	1.0
100	QPSK	270	0	23.30	23.37	23.28		
100	16QAM	1	1	23.18	23.31	23.34	25.0	1.0
100	64QAM	1	1	21.75	21.73	21.68	23.5	2.5
100	256QAM	1	1	19.88	20.06	19.77	21.5	4.5
Channel				649688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	24.19	24.29	24.11	26.0	0.0
Channel				649334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	24.28	24.34	24.25	26.0	0.0
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	24.26	24.43	24.23	26.0	0.0
Channel				648334	650000	653688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	24.15	24.30	24.19	26.0	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01		
40	QPSK	1	1	24.35	24.44	24.20	26.0	0.0
Channel				647688	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	24.31	24.38	24.21	26.0	0.0
Channel				647334	650000	654688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	24.35	24.40	24.26	26.0	0.0

Part27Q n77 Main PA 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					633334	633334		
Frequency (MHz)					3500.01			
100	QPSK	1	1		24.65			
100	QPSK	1	137		24.46		26.0	0.0
100	QPSK	1	271		24.48			
100	QPSK	135	0		23.66		25.0	1.0
100	QPSK	135	69		24.56		26.0	0.0
100	QPSK	135	138		23.45		25.0	1.0
100	QPSK	270	0		23.54			
100	16QAM	1	1		23.38		25.0	1.0
100	64QAM	1	1		21.81		23.5	2.5
100	256QAM	1	1		20.23		21.5	4.5
Channel				633000	633334	633688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	24.22	24.26	24.15	26.0	0.0
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.54	24.57	24.50	26.0	0.0
Channel				632000	633334	634688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3500.02		
60	QPSK	1	1	24.59	24.59	24.48	26.0	0.0
Channel				631688	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	24.15	24.21	24.14	26.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.49	24.55	24.42	26.0	0.0
Channel				631000	633334	635688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.48	24.52	24.51	26.0	0.0
Channel				630688	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.59	24.58	24.52	26.0	0.0



Part270 n78 Main PA 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				650050	650050	650050		
Frequency (MHz)				3760	3750	3750		
100	QPSK	1	1		24.57			
100	QPSK	1	137		24.46		26.0	0.0
100	QPSK	1	271		24.45			
100	QPSK	135	0		23.80		25.0	1.0
100	QPSK	135	69		24.46		26.0	0.0
100	QPSK	135	138		23.35			
100	QPSK	270	0		23.46		25.0	1.0
100	16QAM	1	1		23.44		25.0	1.0
100	64QAM	1	1		21.84		23.5	2.5
100	256QAM	1	1		20.15		21.5	4.5
Channel				649688	650000	650384	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	24.44	24.47	24.40	26.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.51	24.54	24.39	26.0	0.0
Channel				648968	650000	651384	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735.02	3750	3770.01		
60	QPSK	1	1	24.40	24.53	24.44	26.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	24.41	24.49	24.44	26.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.51	24.45	24.38	26.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	24.42	24.44	24.39	26.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	24.47	24.51	24.42	26.0	0.0

Part27Q n78 Main PA 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					633334			
Frequency (MHz)					3500.01			
100	QPSK	1	1		24.74			
100	QPSK	1	137		24.54		26.0	0.0
100	QPSK	1	271		24.58			
100	QPSK	135	0		23.79		25.0	1.0
100	QPSK	135	69		24.68		26.0	0.0
100	QPSK	135	138		23.57			
100	QPSK	270	0		23.69		25.0	1.0
100	16QAM	1	1		23.47		25.0	1.0
100	64QAM	1	1		21.91		23.5	2.5
100	256QAM	1	1		20.32		21.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	24.54	24.61	24.57	26.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.56	24.62	24.56	26.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3520.02		
60	QPSK	1	1	24.63	24.59	24.56	26.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	24.59	24.65	24.52	26.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.55	24.66	24.58	26.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.57	24.63	24.54	26.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.59	24.69	24.48	26.0	0.0



Part27O n77 Main PA Ant7 Default

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	650000	650000	652000		
Frequency (MHz)	3750	3840	3930		
100 QPSK	1	1	23.21	23.28	23.19
100 QPSK	1	137	23.09	23.18	23.15
100 QPSK	1	271	23.05	23.09	23.04
100 QPSK	135	0	22.04	22.32	22.11
100 QPSK	135	69	23.06	23.14	23.10
100 QPSK	135	138	22.08	22.16	22.07
100 QPSK	270	0	22.12	22.19	22.08
100 16QAM	1	1	22.09	22.11	22.16
100 64QAM	1	1	20.55	20.61	20.67
100 256QAM	1	1	18.88	18.82	18.72
Channel	648688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3745.02	3840	3935.01		
90 QPSK	1	1	23.25	23.14	23.11
Channel	649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3740.01	3840	3940.02		
80 QPSK	1	1	23.12	23.18	23.08
Channel	648688	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3730.02	3840	3950.01		
60 QPSK	1	1	23.16	23.16	23.05
Channel	648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3725.01	3840	3955.02		
50 QPSK	1	1	23.23	23.16	23.18
Channel	648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3720	3840	3960		
40 QPSK	1	1	23.16	23.24	23.13
Channel	647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3715.02	3840	3965.01		
30 QPSK	1	1	23.13	23.22	23.07
Channel	647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3710.01	3840	3970.02		
20 QPSK	1	1	23.15	23.14	23.11

Part27Q n77 Main PA Ant7 Default

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	633334	633334	635000		
Frequency (MHz)	3500.01				
100 QPSK	1	1	23.60		
100 QPSK	1	137	23.45	25.0	0.0
100 QPSK	1	271	23.38		
100 QPSK	135	0	22.63	24.0	1.0
100 QPSK	135	69	23.56	25.0	0.0
100 QPSK	135	138	22.42	24.0	1.0
100 QPSK	270	0	22.50		
100 16QAM	1	1	22.45	24.0	1.0
100 64QAM	1	1	20.93	22.5	2.5
100 256QAM	1	1	18.10	20.5	4.5
Channel	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3495	3500.01	3505.02		
90 QPSK	1	1	23.41	23.43	23.32
Channel	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3490.02	3500.01	3510		
80 QPSK	1	1	23.34	23.43	23.27
Channel	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3485	3500.01	3510.02		
60 QPSK	1	1	23.42	23.42	23.32
Channel	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3475.02	3500.01	3525		
50 QPSK	1	1	23.38	23.37	23.30
Channel	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3470.01	3500.01	3530.01		
40 QPSK	1	1	23.42	23.42	23.32
Channel	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3465	3500.01	3535.02		
30 QPSK	1	1	23.36	23.42	23.28
Channel	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3460.02	3500.01	3540		
20 QPSK	1	1	23.38	23.43	23.32



Part270 n78 Main PA Ant7 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)				3740	3750	3760			
100	QPSK	1	1		23.39				
100	QPSK	1	137		23.23		25.0	0.0	
100	QPSK	1	271		23.14				
100	QPSK	135	0		22.44		24.0	1.0	
100	QPSK	135	69		23.32		25.0	0.0	
100	QPSK	135	138		22.29				
100	QPSK	270	0		22.31		24.0	1.0	
100	16QAM	1	1		22.26		24.0	1.0	
100	64QAM	1	1		20.67		22.5	2.5	
100	256QAM	1	1		18.90		20.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		23.14	23.26	23.13	25.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		23.18	23.30	23.17	25.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3733.02	3750	3770.01			
60	QPSK	1	1		23.11	23.33	23.22	25.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		23.20	23.31	23.22	25.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.16	23.27	23.20	25.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		23.15	23.25	23.15	25.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		23.11	23.36	23.20	25.0	0.0

Part27Q n78 Main PA Ant7 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					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		23.56				
100	QPSK	1	137		23.34		25.0	0.0	
100	QPSK	1	271		23.25				
100	QPSK	135	0		22.53		24.0	1.0	
100	QPSK	135	69		23.48		25.0	0.0	
100	QPSK	135	138		22.34				
100	QPSK	270	0		22.37		24.0	1.0	
100	16QAM	1	1		22.31		24.0	1.0	
100	64QAM	1	1		20.84		22.5	2.5	
100	256QAM	1	1		18.88		20.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		23.42	23.47	23.52	25.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		23.50	23.44	23.51	25.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		23.42	23.51	23.43	25.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		23.42	23.43	23.53	25.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		23.40	23.50	23.42	25.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		23.39	23.48	23.43	25.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		23.46	23.47	23.51	25.0	0.0



DSI 0 Power for FR1 Main PA

n41 Main PA Ant1 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 509202	Power Middle Ch. / Freq. 518598	Power High Ch. / Freq. 528000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2692.99	2640			
Frequency (MHz)									
100	QPSK	1	1	17.91	17.97	17.70			
100	QPSK	1	137	17.78	17.88	17.67	19.0	0.0	
100	QPSK	1	271	17.70	17.86	17.86			
100	QPSK	135	0	17.82	17.83	17.84	19.0	0.0	
100	QPSK	135	89	17.77	17.93	17.76	19.0	0.0	
100	QPSK	135	138	17.79	17.74	17.85	19.0	0.0	
100	QPSK	270	0	17.80	17.86	17.78			
100	16QAM	1	1	17.69	17.88	17.83	19.0	0.0	
100	64QAM	1	1	17.82	17.72	17.58	19.0	0.0	
100	256QAM	1	1	17.85	17.80	17.89	19.0	0.0	
Channel				508200	518598	528000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2692.99	2644.98			
90	QPSK	1	1	17.35	17.52	17.19	19.0	0.0	
Channel				507204	518598	529598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2692.99	2640.99			
80	QPSK	1	1	17.44	17.49	17.17	19.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2692.99	2659.98			
60	QPSK	1	1	17.45	17.43	17.16	19.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2692.99	2644.99			
90	QPSK	1	1	17.48	17.51	17.21	19.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2692.99	2670			
40	QPSK	1	1	17.42	17.51	17.24	19.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2692.99	2674.98			
30	QPSK	1	1	17.41	17.42	17.24	19.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2692.99	2679.99			
20	QPSK	1	1	17.44	17.50	17.19	19.0	0.0	



Part270 n78 Main PA Ant1 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	QPSK	1	1		16.81			
100	QPSK	1	137		16.61		18.5	0.0
100	QPSK	1	271		16.51			
100	QPSK	135	0		16.61		18.5	0.0
100	QPSK	135	69		16.74		18.5	0.0
100	QPSK	135	138		16.59			
100	QPSK	270	0		16.70		18.5	0.0
100	16QAM	1	1		16.59		18.5	0.0
100	64QAM	1	1		16.75		18.5	0.0
100	256QAM	1	1		16.59		18.5	0.0
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	16.56	16.77	16.76	18.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	16.73	16.73	16.75	18.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
80	QPSK	1	1	16.55	16.78	16.58	18.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3765.02	(dBm)	(dB)
50	QPSK	1	1	16.73	16.70	16.57	18.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	16.59	16.69	16.51	18.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	16.59	16.78	16.51	18.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	16.75	16.73	16.54	18.5	0.0



Part27Q n78 Main PA Ant1 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3800.01				
100	QPSK	1	1		16.93				
100	QPSK	1	137		16.65		18.5	0.0	
100	QPSK	1	271		16.99				
100	QPSK	135	0		16.74		18.5	0.0	
100	QPSK	135	69		16.87		18.5	0.0	
100	QPSK	135	138		16.83		18.5	0.0	
100	QPSK	270	0		16.74		18.5	0.0	
100	16QAM	1	1		16.68		18.5	0.0	
100	64QAM	1	1		16.84		18.5	0.0	
100	256QAM	1	1		16.64		18.5	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3800.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1		16.66	16.90	16.87	18.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3480.02	3800.01	3510	(dBm)	(dB)	
80	QPSK	1	1		16.61	16.84	16.85	18.5	0.0
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3800.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1		16.66	16.80	16.88	18.5	0.0
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3472.02	3800.01	3525	(dBm)	(dB)	
50	QPSK	1	1		16.58	16.85	16.79	18.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3800.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1		16.59	16.89	16.81	18.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3800.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1		16.67	16.86	16.82	18.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3800.01	3540	(dBm)	(dB)	
20	QPSK	1	1		16.64	16.80	16.87	18.5	0.0



n41 Main PA Ant2 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				508200	518598	530000		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	25.27	25.38	25.36		
100	QPSK	1	137	25.24	25.37	25.28	25.7	0.0
100	QPSK	1	271	25.18	25.26	25.18		
100	QPSK	135	0	24.46	24.43	24.41	24.7	1.0
100	QPSK	135	69	25.20	25.35	25.22	25.7	0.0
100	QPSK	135	139	24.37	24.39	24.21	24.7	1.0
100	QPSK	270	0	24.42	24.48	24.44		
100	16QAM	1	1	24.21	24.31	24.14	24.7	1.0
100	64QAM	1	1	22.64	22.80	22.72	23.2	2.5
100	256QAM	1	1	20.80	21.00	20.83	21.2	4.5
Channel				508200	518598	530000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.17	25.28	25.29	25.7	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.24	25.30	25.25	25.7	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	25.18	25.25	25.28	25.7	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.21	25.25	25.33	25.7	0.0
Channel				502200	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.23	25.25	25.22	25.7	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.14	25.25	25.32	25.7	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.22	25.31	25.29	25.7	0.0



n41 Main PA Ant3 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	17.70	18.07	17.86	19.5	0.0
100	QPSK	1	137	17.71	17.78	17.76		
100	QPSK	1	271	17.70	17.81	17.79		
100	QPSK	135	0	17.70	17.93	17.70	19.5	0.0
100	QPSK	135	69	17.91	17.94	17.75	19.5	0.0
100	QPSK	135	138	17.89	17.76	17.59	19.5	0.0
100	QPSK	270	0	17.69	17.87	17.71		
100	16QAM	1	1	17.59	17.98	17.86	19.5	0.0
100	64QAM	1	1	17.74	17.82	17.80	19.5	0.0
100	256QAM	1	1	17.75	17.95	17.99	19.5	0.0
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	17.52	17.90	17.88	19.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.64	17.96	17.76	19.5	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528	2592.99	2628.99		
60	QPSK	1	1	17.64	17.93	17.82	19.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.52	17.93	17.81	19.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2630		
40	QPSK	1	1	17.56	17.89	17.80	19.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.59	17.94	17.66	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2678.99		
20	QPSK	1	1	17.60	18.01	17.77	19.5	0.0



n41 Main PA Ant4 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	19.37	19.49	19.24		
100	QPSK	1	137	19.36	19.28	19.24	19.7	0.0
100	QPSK	1	271	19.19	19.32	19.11		
100	QPSK	135	0	19.23	19.28	19.26	19.7	0.0
100	QPSK	135	69	19.25	19.46	19.15	19.7	0.0
100	QPSK	135	138	19.18	19.35	19.22	19.7	0.0
100	QPSK	270	0	19.28	19.36	19.30		
100	16QAM	1	1	19.33	19.23	19.17	19.7	0.0
100	64QAM	1	1	19.11	19.35	19.23	19.7	0.0
100	256QAM	1	1	19.36	19.34	19.29	19.7	0.0
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	19.37	19.39	19.20	19.7	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.34	19.29	19.19	19.7	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538	2592.99	2628.99		
60	QPSK	1	1	19.32	19.34	19.15	19.7	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.38	19.36	19.12	19.7	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2610		
40	QPSK	1	1	19.40	19.32	19.19	19.7	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.30	19.32	19.12	19.7	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2678.99		
20	QPSK	1	1	19.37	19.36	19.17	19.7	0.0



Part270 n77 Main PA Ant5 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	652000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	17.72	17.78	17.72		
100	QPSK	1	137	17.82	17.57	17.82	18.5	0.0
100	QPSK	1	271	17.51	17.57	17.43		
100	QPSK	135	0	17.83	17.45	17.60	18.5	0.0
100	QPSK	135	69	17.58	17.68	17.55	18.5	0.0
100	QPSK	135	138	17.49	17.47	17.33	18.5	0.0
100	QPSK	270	0	17.63	17.65	17.81		
100	16QAM	1	1	17.83	17.89	17.87	18.5	0.0
100	64QAM	1	1	17.58	17.46	17.58	18.5	0.0
100	256QAM	1	1	17.40	17.46	17.33	18.5	0.0
Channel				642688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.54	17.59	17.54	18.5	0.0
Channel				649334	656000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.60	17.67	17.61	18.5	0.0
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.50	17.54	17.53	0.0	0.0
Channel				648334	656000	653688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.62	17.69	17.63	18.5	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.01	3840	3960		
40	QPSK	1	1	17.86	17.72	17.88	18.5	0.0
Channel				647688	656000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.62	17.74	17.66	18.5	0.0
Channel				647334	650000	654688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.66	17.64	17.66	18.5	0.0

Part27Q n77 Main PA Ant5 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334			
Frequency (MHz)				3500.01				
100	QPSK	1	1	17.76				
100	QPSK	1	137		17.47		18.5	0.0
100	QPSK	1	271		17.47			
100	QPSK	135	0		17.44		18.5	0.0
100	QPSK	135	69		17.59		18.5	0.0
100	QPSK	135	138		17.33		18.5	0.0
100	QPSK	270	0		17.55			
100	16QAM	1	1		17.81		18.5	0.0
100	64QAM	1	1		17.36		18.5	0.0
100	256QAM	1	1		17.34		18.5	0.0
Channel				633000	633334	633688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.49	17.45	17.45	18.5	0.0
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.54	17.54	17.55	18.5	0.0
Channel				632000	633334	633688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
60	QPSK	1	1	17.48	17.58	17.54	18.5	0.0
Channel				631688	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.41	17.47	17.47	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.49	17.62	17.49	18.5	0.0
Channel				631000	633334	635688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.49	17.64	17.56	18.5	0.0
Channel				630688	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.52	17.64	17.48	18.5	0.0



Part27O n78 Main PA Ant5 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3750			
100	QPSK	1	1		17.34				
100	QPSK	1	137		17.05		18.0	0.0	
100	QPSK	1	271		17.04				
100	QPSK	135	0		17.06		18.0	0.0	
100	QPSK	135	69		17.23		18.0	0.0	
100	QPSK	135	138		16.99		18.0	0.0	
100	QPSK	270	0		17.18		18.0	0.0	
100	16QAM	1	1		17.17		18.0	0.0	
100	64QAM	1	1		16.99		18.0	0.0	
100	256QAM	1	1		16.96		18.0	0.0	
Channel				649688	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3753.01	18.0	0.0	
90	QPSK	1	1		17.20	17.09	17.17	18.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	18.0	0.0	
80	QPSK	1	1		17.26	17.13	17.10	18.0	0.0
Channel				649688	650000	651384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	18.0	0.0	
60	QPSK	1	1		17.21	17.10	17.14	18.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	18.0	0.0	
50	QPSK	1	1		17.19	17.19	17.12	18.0	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	18.0	0.0	
40	QPSK	1	1		17.22	17.11	17.16	18.0	0.0
Channel				647988	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	18.0	0.0	
30	QPSK	1	1		17.19	17.17	17.12	18.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	18.0	0.0	
20	QPSK	1	1		17.24	17.11	17.07	18.0	0.0

Part27Q n78 Main PA Ant5 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		17.26				
100	QPSK	1	137		16.83		18.0	0.0	
100	QPSK	1	271		16.89				
100	QPSK	135	0		16.91		18.0	0.0	
100	QPSK	135	69		17.18		18.0	0.0	
100	QPSK	135	138		16.91		18.0	0.0	
100	QPSK	270	0		17.05		18.0	0.0	
100	16QAM	1	1		17.05		18.0	0.0	
100	64QAM	1	1		16.85		18.0	0.0	
100	256QAM	1	1		16.80		18.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	18.0	0.0	
90	QPSK	1	1		17.06	16.98	17.10	18.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	18.0	0.0	
80	QPSK	1	1		17.15	16.98	17.04	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02	18.0	0.0	
60	QPSK	1	1		17.10	16.93	17.07	18.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	18.0	0.0	
50	QPSK	1	1		17.14	17.03	17.09	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	18.0	0.0	
40	QPSK	1	1		17.05	17.01	17.10	18.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	18.0	0.0	
30	QPSK	1	1		17.04	16.97	17.03	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	18.0	0.0	
20	QPSK	1	1		17.13	17.02	17.07	18.0	0.0



Part270 n77 Main PA Ant6 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				656000	660000	662000		
Frequency (MHz)				3760	3840	3920		
100	QPSK	1	1	15.92	16.02	15.92		
100	QPSK	1	137	15.84	15.77	15.92	17.5	0.0
100	QPSK	1	271	15.78	15.79	15.88		
100	QPSK	135	0	15.84	15.68	15.85	17.5	0.0
100	QPSK	135	69	15.80	15.98	15.79	17.5	0.0
100	QPSK	135	138	15.73	15.74	15.55	17.5	0.0
100	QPSK	270	0	15.86	15.89	15.81		
100	16QAM	1	1	15.84	15.90	15.92	17.5	0.0
100	64QAM	1	1	15.82	15.73	15.79	17.5	0.0
100	256QAM	1	1	15.66	15.74	15.63	17.5	0.0
Channel				648688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	15.76	15.81	15.73	17.5	0.0
Channel				649334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.83	15.93	15.79	17.5	0.0
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.80	15.96	15.78	17.5	0.0
Channel				648334	650000	653688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.75	15.87	15.73	17.5	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.85	15.98	15.84	17.5	0.0
Channel				647688	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.80	15.88	15.89	17.5	0.0
Channel				647334	650000	654688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.78	15.87	15.84	17.5	0.0

Part27Q n77 Main PA Ant6 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334				
Frequency (MHz)				3500.01					
100	QPSK	1	1		16.28				
100	QPSK	1	137		16.03		17.5	0.0	
100	QPSK	1	271		15.97				
100	QPSK	135	0		15.83		17.5	0.0	
100	QPSK	135	69		16.21		17.5	0.0	
100	QPSK	135	138		15.88		17.5	0.0	
100	QPSK	270	0		16.06				
100	16QAM	1	1		16.10		17.5	0.0	
100	64QAM	1	1		15.89		17.5	0.0	
100	256QAM	1	1		15.94		17.5	0.0	
Channel				633000	633334	633688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		15.77	15.85	15.75	17.5	0.0
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		15.92	16.08	15.87	17.5	0.0
Channel				632000	633334	634688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3530.02			
60	QPSK	1	1		15.99	16.01	15.86	17.5	0.0
Channel				631688	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		15.70	15.90	15.72	17.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		15.87	15.97	15.84	17.5	0.0
Channel				631000	633334	635688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		15.87	15.97	15.84	17.5	0.0
Channel				630688	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		15.92	16.08	15.88	17.5	0.0



Part27O n78 Main PA Ant6 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3750			
100	QPSK	1	1		16.73				
100	QPSK	1	137		16.42		18.0	0.0	
100	QPSK	1	271		16.42				
100	QPSK	135	0		16.25		18.0	0.0	
100	QPSK	135	69		16.55		18.0	0.0	
100	QPSK	135	138		16.30				
100	QPSK	270	0		16.41		18.0	0.0	
100	16QAM	1	1		16.46		18.0	0.0	
100	64QAM	1	1		16.31		18.0	0.0	
100	256QAM	1	1		16.37		18.0	0.0	
Channel				649688	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3753.01			
90	QPSK	1	1		16.47	16.57	16.34	18.0	0.0
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		16.43	16.59	16.36	18.0	0.0
Channel				648988	650000	651384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		16.43	16.63	16.34	18.0	0.0
Channel				648334	650000	651688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		16.39	16.56	16.36	18.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		16.38	16.81	16.38	18.0	0.0
Channel				647688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		16.47	16.80	16.42	18.0	0.0
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		16.38	16.54	16.37	18.0	0.0

Part27Q n78 Main PA Ant6 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		16.93				
100	QPSK	1	137		16.66		18.0	0.0	
100	QPSK	1	271		16.66				
100	QPSK	135	0		16.49		18.0	0.0	
100	QPSK	135	69		16.88		18.0	0.0	
100	QPSK	135	138		16.55				
100	QPSK	270	0		16.62		18.0	0.0	
100	16QAM	1	1		16.81		18.0	0.0	
100	64QAM	1	1		16.52		18.0	0.0	
100	256QAM	1	1		16.57		18.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		16.65	16.82	16.52	18.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.68	16.74	16.51	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		16.68	16.81	16.49	18.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		16.69	16.76	16.50	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		16.63	16.80	16.59	18.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		16.68	16.83	16.57	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		16.70	16.72	16.49	18.0	0.0



Part270 n77 Main PA Ant7 DSI0

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	650000	650000	652000					
Frequency (MHz)	3750	3840	3930					
100	QPSK	1	1	23.21	23.28	23.19		
100	QPSK	1	137	23.09	23.18	23.15	25.0	0.0
100	QPSK	1	271	23.05	23.09	23.04		
100	QPSK	135	0	22.04	22.32	22.11	24.0	1.0
100	QPSK	135	69	23.06	23.14	23.10	25.0	0.0
100	QPSK	135	138	22.08	22.16	22.07	24.0	1.0
100	QPSK	270	0	22.12	22.19	22.08		
100	16QAM	1	1	22.09	22.11	22.16	24.0	1.0
100	64QAM	1	1	20.55	20.61	20.67	22.5	2.5
100	256QAM	1	1	18.88	18.82	18.72	20.5	4.5
Channel	648688	650000	652334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3745.02	3840	3935.01					
90	QPSK	1	1	23.25	23.14	23.11	25.0	0.0
Channel	649334	650000	652668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3740.01	3840	3940.02					
80	QPSK	1	1	23.12	23.18	23.08	25.0	0.0
Channel	648688	650000	653334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3720.02	3840	3950.01					
60	QPSK	1	1	23.16	23.16	23.05	25.0	0.0
Channel	648334	650000	653668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3725.01	3840	3955.02					
50	QPSK	1	1	23.23	23.16	23.18	25.0	0.0
Channel	648000	650000	654000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3720	3840	3950					
40	QPSK	1	1	23.16	23.24	23.13	25.0	0.0
Channel	647668	650000	654334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3715.02	3840	3965.01					
30	QPSK	1	1	23.13	23.22	23.07	25.0	0.0
Channel	647334	650000	654668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3710.01	3840	3970.02					
20	QPSK	1	1	23.15	23.14	23.11	25.0	0.0

Part27Q n77 Main PA Ant7 DSI0

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	633334	633334	635000					
Frequency (MHz)	3500.01							
100	QPSK	1	1	23.60				
100	QPSK	1	137	23.45			25.0	0.0
100	QPSK	1	271	23.38				
100	QPSK	135	0	22.63			24.0	1.0
100	QPSK	135	69	23.36			25.0	0.0
100	QPSK	135	138	22.42			24.0	1.0
100	QPSK	270	0	22.50				
100	16QAM	1	1	22.45			24.0	1.0
100	64QAM	1	1	20.93			22.5	2.5
100	256QAM	1	1	18.10			20.5	4.5
Channel	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3495	3500.01	3505.02					
90	QPSK	1	1	23.41	23.43	23.32	25.0	0.0
Channel	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3490.02	3500.01	3510					
80	QPSK	1	1	23.34	23.43	23.27	25.0	0.0
Channel	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3485	3500.01	3505.02					
60	QPSK	1	1	23.42	23.42	23.32	25.0	0.0
Channel	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3475.02	3500.01	3525					
50	QPSK	1	1	23.38	23.37	23.30	25.0	0.0
Channel	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3470.01	3500.01	3530.01					
40	QPSK	1	1	23.42	23.42	23.32	25.0	0.0
Channel	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3465	3500.01	3535.02					
30	QPSK	1	1	23.36	23.42	23.28	25.0	0.0
Channel	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	3460.02	3500.01	3540					
20	QPSK	1	1	23.38	23.43	23.32	25.0	0.0



DSI 0 Power for FR1 Main PA

Part270 n77 Main PA Ant1 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 662000		
Channel				3750	3840	3930		
Frequency (MHz)								
100	QPSK	1	1	17.12	17.28	17.20		
100	QPSK	1	137	17.05	17.07	17.10	19.0	0.0
100	QPSK	1	271	17.02	17.01	17.04		
100	QPSK	135	0	17.08	17.04	17.01	19.0	0.0
100	QPSK	135	69	17.05	17.20	17.03	19.0	0.0
100	QPSK	135	138	17.02	17.05	17.02	19.0	0.0
100	QPSK	270	0	17.03	17.12	17.09		
100	16QAM	1	1	17.08	17.10	17.15	19.0	0.0
100	64QAM	1	1	17.04	17.04	17.05	19.0	0.0
100	256QAM	1	1	17.07	17.03	17.03	19.0	0.0
Channel				648668	650000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	17.01	17.16	17.10	19.0	0.0
Channel				648334	650000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	17.05	17.10	17.14	19.0	0.0
Channel				648668	650000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	17.07	17.22	17.13	19.0	0.0
Channel				648334	650000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	17.08	17.10	17.09	19.0	0.0
Channel				648000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	17.09	17.16	17.08	19.0	0.0
Channel				647668	650000	664334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	17.01	17.17	17.09	19.0	0.0
Channel				647334	650000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	17.09	17.19	17.08	19.0	0.0



Part27Q n77 Main PA Ant1 DS10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	QPSK	1	1		17.34			
100	QPSK	1	137		17.18		19.0	0.0
100	QPSK	1	271		17.07			
100	QPSK	135	0		17.13		19.0	0.0
100	QPSK	135	89		17.27		19.0	0.0
100	QPSK	135	138		17.17		19.0	0.0
100	QPSK	270	0		17.16			
100	16QAM	1	1		17.16		19.0	0.0
100	64QAM	1	1		17.11		19.0	0.0
100	256QAM	1	1		17.10		19.0	0.0
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	17.12	17.26	17.20	19.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3495.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	17.03	17.18	17.09	19.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	17.08	17.16	17.10	19.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	17.01	17.23	17.16	19.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	17.08	17.22	17.09	19.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	17.04	17.20	17.17	19.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	17.01	17.14	17.11	19.0	0.0



Part270 n78 Main PA Ant7 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3740	3750	3760			
100	QPSK	1	1		19.51				
100	QPSK	1	137		19.31		21.0	0.0	
100	QPSK	1	271		19.13				
100	QPSK	135	0		19.13		21.0	0.0	
100	QPSK	135	69		19.37		21.0	0.0	
100	QPSK	135	138		19.20				
100	QPSK	270	0		19.26		21.0	0.0	
100	16QAM	1	1		19.37		21.0	0.0	
100	64QAM	1	1		19.10		21.0	0.0	
100	256QAM	1	1		18.90		20.5	0.5	
Channel				649868	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.13	19.16	19.07	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.20	19.18	19.13	21.0	0.0
Channel				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3733.02	3750	3770.01			
60	QPSK	1	1		19.11	19.14	19.15	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.16	19.13	19.60	21.0	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.11	19.19	19.11	21.0	0.0
Channel				647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		19.13	19.17	19.14	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.13	19.16	19.17	21.0	0.0

Part27Q n78 Main PA Ant7 DSI0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		19.57				
100	QPSK	1	137		19.05		21.0	0.0	
100	QPSK	1	271		19.06				
100	QPSK	135	0		19.08		21.0	0.0	
100	QPSK	135	69		19.45		21.0	0.0	
100	QPSK	135	138		19.01				
100	QPSK	270	0		19.37		21.0	0.0	
100	16QAM	1	1		19.15		21.0	0.0	
100	64QAM	1	1		19.11		21.0	0.0	
100	256QAM	1	1		18.88		20.5	0.5	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		19.17	19.32	19.03	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		19.25	19.35	19.06	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		19.14	19.31	19.04	21.0	0.0
Channel				631667	633333	634999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.0119	3500.0019	3524.9919			
50	QPSK	1	1		19.18	19.36	19.01	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		19.15	19.32	19.05	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		19.22	19.27	19.01	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		19.16	19.26	19.03	21.0	0.0



DSI 1 Power for FR1 Main PA

n41 Main PA Ant1 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	QPSK	1	1	19.81	19.96	19.76	21.0	0.0	
100	QPSK	1	137	19.81	19.88	19.72			
100	QPSK	1	271	19.74	19.81	19.59			
100	QPSK	135	0	19.81	19.87	19.63	21.0	0.0	
100	QPSK	135	69	19.79	19.94	19.74	21.0	0.0	
100	QPSK	135	138	19.86	19.76	19.87	21.0	0.0	
100	QPSK	270	0	19.78	19.90	19.72	21.0	0.0	
100	16QAM	1	1	19.71	19.88	19.90	21.0	0.0	
100	64QAM	1	1	19.82	19.74	19.52	21.0	0.0	
100	256QAM	1	1	19.43	19.56	19.49	20.5	0.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.88	19.86	19.52	21.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.69	19.91	19.65	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.76	19.90	19.67	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.71	19.89	19.67	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.72	19.90	19.54	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.83	19.84	19.54	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.82	19.87	19.69	21.0	0.0	

Part270 n77 Main PA Ant1 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	QPSK	1	1	18.17	18.33	18.25	20.0	0.0	
100	QPSK	1	137	18.03	18.12	18.15			
100	QPSK	1	271	18.03	18.02	18.05			
100	QPSK	135	0	18.11	18.05	18.06	20.0	0.0	
100	QPSK	135	69	18.10	18.25	18.08	20.0	0.0	
100	QPSK	135	138	18.03	18.10	18.03	20.0	0.0	
100	QPSK	270	0	18.08	18.17	18.14	20.0	0.0	
100	16QAM	1	1	18.13	18.15	18.20	20.0	0.0	
100	64QAM	1	1	18.09	18.05	18.10	20.0	0.0	
100	256QAM	1	1	18.12	18.08	18.08	20.0	0.0	
Channel				648968	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.06	18.21	18.15	20.0	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.10	18.23	18.19	20.0	0.0	
Channel				648968	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.12	18.27	18.18	20.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.11	18.23	18.14	20.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.14	18.21	18.13	20.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.04	18.22	18.14	20.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.14	18.24	18.13	20.0	0.0	



Part27Q n77 Main PA Ant1 DS11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	QPSK	1	1	18.39			20.0	0.0
100	QPSK	1	137	18.23				
100	QPSK	1	271	18.12				
100	QPSK	135	0	18.18			20.0	0.0
100	QPSK	135	69	18.32			20.0	0.0
100	QPSK	135	138	18.22			20.0	0.0
100	QPSK	270	0	18.21			20.0	0.0
100	16QAM	1	1	18.21			20.0	0.0
100	64QAM	1	1	18.16			20.0	0.0
100	256QAM	1	1	18.15			20.0	0.0
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	18.17	18.31	18.25	20.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	18.08	18.23	18.13	20.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	18.13	18.21	18.15	20.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	18.08	18.23	18.21	20.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	18.13	18.27	18.14	20.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	18.09	18.25	18.22	20.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	18.03	18.19	18.16	20.0	0.0

Part27O n78 Main PA Ant1 DS11

BW [MHz]	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				
Frequency (MHz)				3750				
100	QPSK	1	1	17.61			19.5	0.0
100	QPSK	1	137	17.61				
100	QPSK	1	271	17.51				
100	QPSK	135	0	17.61			19.5	0.0
100	QPSK	135	69	17.74			19.5	0.0
100	QPSK	135	138	17.59			19.5	0.0
100	QPSK	270	0	17.70			19.5	0.0
100	16QAM	1	1	17.59			19.5	0.0
100	64QAM	1	1	17.75			19.5	0.0
100	256QAM	1	1	17.58			19.5	0.0
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	17.65	17.69	17.71	19.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	17.51	17.69	17.57	19.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	17.65	17.72	17.61	19.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	17.65	17.67	17.66	19.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	17.65	17.72	17.62	19.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	17.51	17.64	17.71	19.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	17.65	17.73	17.68	19.5	0.0



Part27Q n78 Main PA Ant1 DS1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3800.01			
100	QPSK	1	1		17.93			
100	QPSK	1	137		17.65		19.5	0.0
100	QPSK	1	271		17.99			
100	QPSK	135	0		17.74		19.5	0.0
100	QPSK	135	69		17.87		19.5	0.0
100	QPSK	135	138		17.63		19.5	0.0
100	QPSK	270	0		17.74			
100	16QAM	1	1		17.68		19.5	0.0
100	64QAM	1	1		17.84		19.5	0.0
100	256QAM	1	1		17.64		19.5	0.0
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3800.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	17.56	17.68	17.66	19.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3480.02	3800.01	3510	(dBm)	(dB)
80	QPSK	1	1	17.68	17.71	17.67	19.5	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3800.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	17.66	17.67	17.71	19.5	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3800.01	3525	(dBm)	(dB)
50	QPSK	1	1	17.68	17.65	17.70	19.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3800.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	17.56	17.72	17.69	19.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3800.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	17.58	17.63	17.65	19.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3800.01	3540	(dBm)	(dB)
20	QPSK	1	1	17.66	17.69	17.62	19.5	0.0



n41 Main PA Ant2 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				508202	518598	535300		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	21.68	21.77	21.74		
100	QPSK	1	137	21.58	21.85	21.62	22.2	0.0
100	QPSK	1	271	21.62	21.65	21.60		
100	QPSK	135	0	21.54	21.72	21.61	22.2	0.0
100	QPSK	135	69	21.60	21.67	21.61	22.2	0.0
100	QPSK	135	138	21.59	21.64	21.61	22.2	0.0
100	QPSK	270	0	21.55	21.69	21.59		
100	16QAM	1	1	21.57	21.66	21.66	22.2	0.0
100	64QAM	1	1	21.58	21.67	21.65	22.2	0.0
100	256QAM	1	1	20.69	20.79	20.70	21.2	1.0
Channel				508200	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.51	21.62	21.69	22.2	0.0
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.61	21.57	21.59	22.2	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538	2592.99	2628.99		
60	QPSK	1	1	21.54	21.65	21.61	22.2	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.56	21.68	21.61	22.2	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2630		
40	QPSK	1	1	21.60	21.72	21.63	22.2	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.51	21.68	21.60	22.2	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2674.99		
20	QPSK	1	1	21.53	21.61	21.62	22.2	0.0



n41 Main PA Ant3 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	21.36	21.68	21.41	23.0	0.0
100	QPSK	1	137	21.34	21.40	21.29		
100	QPSK	1	271	21.38	21.42	21.37		
100	QPSK	135	0	21.19	21.45	21.37	23.0	0.0
100	QPSK	135	69	21.43	21.47	21.44	23.0	0.0
100	QPSK	135	138	21.41	21.44	21.24	23.0	0.0
100	QPSK	270	0	21.33	21.50	21.23		
100	16QAM	1	1	21.22	21.67	21.50	23.0	0.0
100	64QAM	1	1	20.50	20.58	20.65	22.0	1.0
100	256QAM	1	1	18.79	18.86	18.80	20.0	3.0
Channel				508200	518598	529998		
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	21.14	21.54	21.20	23.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.19	21.42	21.37	23.0	0.0
Channel				508200	518598	531998		
Frequency (MHz)				2536	2592.99	2659.99		
60	QPSK	1	1	21.27	21.61	21.24	23.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.12	21.65	21.26	23.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	21.10	21.62	21.19	23.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.30	21.44	21.38	23.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2508.02	2592.99	2678.99		
20	QPSK	1	1	21.18	21.43	21.16	23.0	0.0



n41 Main PA Ant4 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	22.69	22.76	22.71	23.2	0.0
100	QPSK	1	137	22.60	22.63	22.56		
100	QPSK	1	271	22.56	22.62	22.63		
100	QPSK	135	0	22.63	22.64	22.70	23.2	0.0
100	QPSK	135	69	22.62	22.74	22.56	23.2	0.0
100	QPSK	135	138	22.67	22.69	22.68	23.2	0.0
100	QPSK	270	0	22.67	22.70	22.63		
100	16QAM	1	1	22.81	22.65	22.65	23.2	0.0
100	64QAM	1	1	22.65	22.63	22.68	23.2	0.0
100	256QAM	1	1	20.70	20.73	20.81	21.2	2.0
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	22.45	22.63	22.55	23.2	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.47	22.66	22.61	23.2	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536	2592.99	2659.99		
60	QPSK	1	1	22.46	22.57	22.55	23.2	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.61	22.73	22.45	23.2	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	22.42	22.60	22.84	23.2	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.49	22.60	22.57	23.2	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.57	22.63	22.53	23.2	0.0



Part270 n77 Main PA Ant5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				656000	656000	656000			
Frequency (MHz)				3750	3840	3930			
100	QPSK	1	1	17.72	17.78	17.72			
100	QPSK	1	137	17.82	17.57	17.82	18.5	0.0	
100	QPSK	1	271	17.51	17.57	17.43			
100	QPSK	135	0	17.83	17.45	17.60	18.5	0.0	
100	QPSK	135	69	17.58	17.68	17.55	18.5	0.0	
100	QPSK	135	138	17.49	17.47	17.33	18.5	0.0	
100	QPSK	270	0	17.63	17.65	17.81			
100	16QAM	1	1	17.83	17.69	17.67	18.5	0.0	
100	64QAM	1	1	17.58	17.46	17.58	18.5	0.0	
100	256QAM	1	1	17.40	17.46	17.33	18.5	0.0	
Channel				649688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.47	17.47	17.50	18.5	0.0	
Channel				649334	650000	652688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.60	17.67	17.61	18.5	0.0	
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.62	17.69	17.63	18.5	0.0	
Channel				648334	650000	653688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.47	17.44	17.49	18.5	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3960.01			
40	QPSK	1	1	17.66	17.72	17.68	18.5	0.0	
Channel				647688	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.62	17.74	17.66	18.5	0.0	
Channel				647334	650000	654688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.66	17.64	17.66	18.5	0.0	

Part27Q n77 Main PA Ant5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334				
Frequency (MHz)				3500.01					
100	QPSK	1	1	17.76					
100	QPSK	1	137	17.47			18.5	0.0	
100	QPSK	1	271	17.47					
100	QPSK	135	0	17.44			18.5	0.0	
100	QPSK	135	69	17.59			18.5	0.0	
100	QPSK	135	138	17.33			18.5	0.0	
100	QPSK	270	0	17.55					
100	16QAM	1	1	17.81			18.5	0.0	
100	64QAM	1	1	17.36			18.5	0.0	
100	256QAM	1	1	17.34			18.5	0.0	
Channel				633000	633334	633688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	17.49	17.48	17.50	18.5	0.0	
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	17.54	17.54	17.55	18.5	0.0	
Channel				632000	633334	633688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
60	QPSK	1	1	17.48	17.58	17.54	18.5	0.0	
Channel				631688	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	17.42	17.42	17.45	18.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.49	17.62	17.49	18.5	0.0	
Channel				631000	633334	635688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	17.49	17.64	17.56	18.5	0.0	
Channel				630688	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.52	17.64	17.48	18.5	0.0	



Part27O n78 Main PA Ant5 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3750			
100	QPSK	1	1		18.84				
100	QPSK	1	137		18.55		19.5	0.0	
100	QPSK	1	271		18.54				
100	QPSK	135	0		18.56		19.5	0.0	
100	QPSK	135	69		18.73		19.5	0.0	
100	QPSK	135	138		18.49		19.5	0.0	
100	QPSK	270	0		18.68		19.5	0.0	
100	16QAM	1	1		18.67		19.5	0.0	
100	64QAM	1	1		18.49		19.5	0.0	
100	256QAM	1	1		18.46		19.5	0.0	
Channel				649868	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3753.01			
90	QPSK	1	1		18.61	18.49	18.67	19.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.59	18.56	18.66	19.5	0.0
Channel				648968	650000	651384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		18.61	18.54	18.63	19.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		18.64	18.48	18.59	19.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.60	18.57	18.65	19.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		18.63	18.51	18.59	19.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		18.64	18.52	18.65	19.5	0.0

Part27Q n78 Main PA Ant5 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	633334			
Frequency (MHz)				3500.01					
100	QPSK	1	1		18.76				
100	QPSK	1	137		18.43		19.5	0.0	
100	QPSK	1	271		18.39				
100	QPSK	135	0		18.41		19.5	0.0	
100	QPSK	135	69		18.68		19.5	0.0	
100	QPSK	135	138		18.41		19.5	0.0	
100	QPSK	270	0		18.55		19.5	0.0	
100	16QAM	1	1		18.55		19.5	0.0	
100	64QAM	1	1		18.35		19.5	0.0	
100	256QAM	1	1		18.30		19.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3506.02			
90	QPSK	1	1		18.46	18.46	18.60	19.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		18.51	18.41	18.51	19.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		18.46	18.48	18.57	19.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		18.55	18.48	18.53	19.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		18.53	18.49	18.57	19.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3536.02			
30	QPSK	1	1		18.54	18.42	18.50	19.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		18.45	18.47	18.59	19.5	0.0



Part270 n77 Main PA Ant6 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				656000	656000	656000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	18.94	19.08	18.84		
100	QPSK	1	137	18.73	18.83	18.83	20.5	0.0
100	QPSK	1	271	18.66	18.72	18.64		
100	QPSK	135	0	18.92	18.63	18.90	20.5	0.0
100	QPSK	135	69	18.77	19.07	18.70	20.5	0.0
100	QPSK	135	138	18.76	18.64	18.61	20.5	0.0
100	QPSK	270	0	18.85	18.98	18.90		
100	16QAM	1	1	18.73	18.87	19.00	20.5	0.0
100	64QAM	1	1	18.90	18.73	18.80	20.5	0.0
100	256QAM	1	1	18.68	18.77	18.64	20.5	0.0
Channel				642668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.90	18.94	18.91	20.5	0.0
Channel				649334	656000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.72	18.83	18.74	20.5	0.0
Channel				646668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.84	19.00	18.81	20.5	0.0
Channel				648334	656000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.82	18.98	18.90	20.5	0.0
Channel				646000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.83	18.83	18.89	20.5	0.0
Channel				647668	656000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.87	19.01	18.75	20.5	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.84	18.82	18.83	20.5	0.0

Part27Q n77 Main PA Ant6 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334	633334			
Frequency (MHz)					3500.01				
100	QPSK	1	1		19.18				
100	QPSK	1	137		18.87		20.5	0.0	
100	QPSK	1	271		18.88				
100	QPSK	135	0		18.63		20.5	0.0	
100	QPSK	135	69		18.14		20.5	0.0	
100	QPSK	135	138		18.69		20.5	0.0	
100	QPSK	270	0		18.88				
100	16QAM	1	1		19.06		20.5	0.0	
100	64QAM	1	1		18.70		20.5	0.0	
100	256QAM	1	1		18.89		20.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		18.83	18.96	18.81	20.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		18.94	19.05	18.95	20.5	0.0
Channel				632000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
60	QPSK	1	1		18.81	18.81	18.80	20.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		18.83	18.99	18.91	20.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		18.72	18.99	18.84	20.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		18.85	18.79	18.82	20.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		18.81	18.93	18.86	20.5	0.0



Part27O n78 Main PA Ant6 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3750			
100	QPSK	1	1		18.80				
100	QPSK	1	137		18.40		20.0	0.0	
100	QPSK	1	271		18.39				
100	QPSK	135	0		18.32		20.0	0.0	
100	QPSK	135	69		18.52		20.0	0.0	
100	QPSK	135	138		18.25		20.0	0.0	
100	QPSK	270	0		18.43		20.0	0.0	
100	16QAM	1	1		18.42		20.0	0.0	
100	64QAM	1	1		18.36		20.0	0.0	
100	256QAM	1	1		18.37		20.0	0.0	
Channel				649868	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3753.01			
90	QPSK	1	1		18.44	18.46	18.31	20.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.39	18.26	18.17	20.0	0.0
Channel				648968	650000	651384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		18.20	18.32	18.24	20.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		18.33	18.25	18.06	20.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.18	18.42	18.05	20.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		18.22	18.31	18.07	20.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		18.20	18.32	18.25	20.0	0.0

Part27Q n78 Main PA Ant6 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	633334			
Frequency (MHz)				3500.01					
100	QPSK	1	1		18.96				
100	QPSK	1	137		18.59		20.0	0.0	
100	QPSK	1	271		18.78				
100	QPSK	135	0		18.55		20.0	0.0	
100	QPSK	135	69		18.92		20.0	0.0	
100	QPSK	135	138		18.55		20.0	0.0	
100	QPSK	270	0		18.73		20.0	0.0	
100	16QAM	1	1		18.61		20.0	0.0	
100	64QAM	1	1		18.44		20.0	0.0	
100	256QAM	1	1		18.57		20.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		18.55	18.90	18.61	20.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		18.38	18.66	18.56	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		18.50	18.79	18.51	20.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		18.31	18.67	18.43	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		18.46	18.82	18.56	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		18.32	18.79	18.44	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		18.33	18.75	18.46	20.0	0.0



Part270 n77 Main PA Ant7 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	652000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	16.85	16.88	16.79		
100	QPSK	1	137	16.70	16.81	16.72	18.5	0.0
100	QPSK	1	271	16.75	16.68	16.80		
100	QPSK	135	0	16.68	16.63	16.64	18.5	0.0
100	QPSK	135	69	16.96	16.77	16.71	18.5	0.0
100	QPSK	135	138	16.70	16.67	16.73	18.5	0.0
100	QPSK	270	0	16.64	16.74	16.68		
100	16QAM	1	1	16.57	16.70	16.58	18.5	0.0
100	64QAM	1	1	16.58	16.67	16.59	18.5	0.0
100	256QAM	1	1	16.55	16.67	16.56	18.5	0.0
Channel				648668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.50	16.57	16.46	18.5	0.0
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.62	16.63	16.54	18.5	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.55	16.71	16.66	18.5	0.0
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.55	16.71	16.66	18.5	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3960		
40	QPSK	1	1	16.58	16.69	16.66	18.5	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.55	16.74	16.67	18.5	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.56	16.63	16.67	18.5	0.0

Part27Q n77 Main PA Ant7 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3500.01			
100	QPSK	1	1		17.08			
100	QPSK	1	137		16.84		18.5	0.0
100	QPSK	1	271		16.74			
100	QPSK	135	0		16.74		18.5	0.0
100	QPSK	135	69		16.94		18.5	0.0
100	QPSK	135	138		16.67		18.5	0.0
100	QPSK	270	0		16.88			
100	16QAM	1	1		16.91		18.5	0.0
100	64QAM	1	1		16.70		18.5	0.0
100	256QAM	1	1		16.61		18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.52	16.52	16.46	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.83	16.74	16.77	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3510.02		
60	QPSK	1	1	16.84	16.76	16.71	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.59	16.60	16.45	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.81	16.82	16.68	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.77	16.79	16.70	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.77	16.75	16.76	18.5	0.0



Part270 n78 Main PA Ant7 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3740	3750	3760			
100	QPSK	1	1		16.96				
100	QPSK	1	137		16.71		18.5	0.0	
100	QPSK	1	271		16.86				
100	QPSK	135	0		16.57		18.5	0.0	
100	QPSK	135	69		16.76		18.5	0.0	
100	QPSK	135	138		16.70				
100	QPSK	270	0		16.86		18.5	0.0	
100	16QAM	1	1		16.73		18.5	0.0	
100	64QAM	1	1		16.54		18.5	0.0	
100	256QAM	1	1		16.54		18.5	0.0	
Channel				649668	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		16.63	16.57	16.61	18.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		16.60	16.57	16.53	18.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3733.02	3750	3770.01			
60	QPSK	1	1		16.75	16.85	16.59	18.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		16.74	16.69	16.63	18.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		16.54	16.58	16.55	18.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		16.63	16.68	16.61	18.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		16.67	16.76	16.60	18.5	0.0

Part27Q n78 Main PA Ant7 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		17.07				
100	QPSK	1	137		16.61		18.5	0.0	
100	QPSK	1	271		16.65				
100	QPSK	135	0		16.60		18.5	0.0	
100	QPSK	135	69		17.03		18.5	0.0	
100	QPSK	135	138		16.55				
100	QPSK	270	0		16.84		18.5	0.0	
100	16QAM	1	1		16.74		18.5	0.0	
100	64QAM	1	1		16.51		18.5	0.0	
100	256QAM	1	1		16.73		18.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		16.68	16.69	16.69	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.71	16.66	16.51	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		16.76	16.67	16.54	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		16.74	16.68	16.68	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		16.86	16.96	16.55	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		16.73	16.63	16.68	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		16.76	16.82	16.53	18.5	0.0



DSI 3 Power for FR1 Main PA

n41 Main PA Ant1 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640			
Frequency (MHz)				19.81	19.96	19.76			
100	QPSK	1	1	19.81	19.96	19.76	21.0	0.0	
100	QPSK	1	137	19.81	19.88	19.72			
100	QPSK	1	271	19.74	19.81	19.59			
100	QPSK	135	0	19.81	19.87	19.63	21.0	0.0	
100	QPSK	135	69	19.79	19.94	19.74	21.0	0.0	
100	QPSK	135	138	19.86	19.76	19.87	21.0	0.0	
100	QPSK	270	0	19.78	19.90	19.72			
100	16QAM	1	1	19.71	19.88	19.90	21.0	0.0	
100	64QAM	1	1	19.82	19.74	19.52	21.0	0.0	
100	256QAM	1	1	19.43	19.56	19.49	20.5	0.5	
Channel				503000	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.88	19.86	19.52	21.0	0.0	
Channel				507204	518598	529596	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.69	19.91	19.65	21.0	0.0	
Channel				505000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.76	19.90	19.67	21.0	0.0	
Channel				504204	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.71	19.89	19.67	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.72	19.90	19.54	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.83	19.84	19.54	21.0	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.82	19.87	19.69	21.0	0.0	

Part270 n77 Main PA Ant1 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	QPSK	1	1	23.21	23.31	23.26			
100	QPSK	1	137	23.12	23.22	23.20	25.0	0.0	
100	QPSK	1	271	23.09	23.20	23.07			
100	QPSK	135	0	22.11	22.37	22.14	24.0	1.0	
100	QPSK	135	69	23.11	23.27	23.14	25.0	0.0	
100	QPSK	135	138	22.17	22.26	22.19	24.0	1.0	
100	QPSK	270	0	22.25	22.30	22.22			
100	16QAM	1	1	22.12	22.21	22.21	24.0	1.0	
100	64QAM	1	1	20.99	20.84	20.88	22.5	2.5	
100	256QAM	1	1	18.76	18.89	18.71	20.5	4.5	
Channel				648968	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.15	23.20	23.20	25.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.10	23.19	23.15	25.0	0.0	
Channel				648968	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.10	23.20	23.15	25.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.13	23.21	23.18	25.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.14	23.24	23.16	25.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.14	23.24	23.14	25.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.16	23.26	23.15	25.0	0.0	



Part27Q n77 Main PA Ant1 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	QPSK	1	1	23.33	23.33		25.0	0.0
100	QPSK	1	137	23.26	23.26			
100	QPSK	1	271	23.12	23.12		24.0	1.0
100	QPSK	135	0	22.52	22.52		25.0	0.0
100	QPSK	135	69	23.31	23.31		24.0	1.0
100	QPSK	135	138	22.26	22.26		24.0	1.0
100	QPSK	270	0	22.39	22.39		24.0	1.0
100	16QAM	1	1	22.19	22.19		22.5	2.5
100	64QAM	1	1	20.65	20.65		19.57	20.5
100	256QAM	1	1	19.57	19.57		18.77	18.77
Channel				633000				
Frequency (MHz)				3495				
90	QPSK	1	1	23.20	23.25	23.13	25.0	0.0
Channel				632668				
Frequency (MHz)				3490.02				
80	QPSK	1	1	23.13	23.19	23.03	25.0	0.0
Channel				632000				
Frequency (MHz)				3480				
60	QPSK	1	1	23.14	23.16	23.08	25.0	0.0
Channel				631668				
Frequency (MHz)				3472.02				
50	QPSK	1	1	23.08	23.16	22.99	25.0	0.0
Channel				631334				
Frequency (MHz)				3470.01				
40	QPSK	1	1	23.10	23.17	23.05	25.0	0.0
Channel				631000				
Frequency (MHz)				3465				
30	QPSK	1	1	23.10	23.20	23.10	25.0	0.0
Channel				630668				
Frequency (MHz)				3460.02				
20	QPSK	1	1	23.16	23.11	23.08	25.0	0.0

Part27O n78 Main PA Ant1 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	QPSK	1	1	23.35	23.35		25.0	0.0
100	QPSK	1	137	23.19	23.19		24.0	1.0
100	QPSK	1	271	23.06	23.06		25.0	0.0
100	QPSK	135	0	22.18	22.18		24.0	1.0
100	QPSK	135	69	23.31	23.31		24.0	1.0
100	QPSK	135	138	22.19	22.19		24.0	1.0
100	QPSK	270	0	22.30	22.30		24.0	1.0
100	16QAM	1	1	22.16	22.16		22.5	2.5
100	64QAM	1	1	20.61	20.61		18.77	18.77
100	256QAM	1	1	18.77	18.77		18.77	18.77
Channel				649668				
Frequency (MHz)				3745.02				
90	QPSK	1	1	23.07	23.18	23.11	25.0	0.0
Channel				649334				
Frequency (MHz)				3740.01				
80	QPSK	1	1	23.05	23.22	23.15	25.0	0.0
Channel				648968				
Frequency (MHz)				3730.02				
60	QPSK	1	1	23.09	23.22	23.15	25.0	0.0
Channel				648334				
Frequency (MHz)				3725.01				
50	QPSK	1	1	23.03	23.11	23.02	25.0	0.0
Channel				648000				
Frequency (MHz)				3720				
40	QPSK	1	1	23.05	23.07	23.01	25.0	0.0
Channel				647668				
Frequency (MHz)				3715.02				
30	QPSK	1	1	23.04	23.11	23.03	25.0	0.0
Channel				647334				
Frequency (MHz)				3710.01				
20	QPSK	1	1	23.02	23.10	23.06	25.0	0.0



Part27Q n78 Main PA Ant1 DS13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3800.01				
100	QPSK	1	1		23.41				
100	QPSK	1	137		23.34		25.0	0.0	
100	QPSK	1	271		23.23				
100	QPSK	135	0		22.46		24.0	1.0	
100	QPSK	135	69		23.34		25.0	0.0	
100	QPSK	135	138		22.36		24.0	1.0	
100	QPSK	270	0		22.41				
100	16QAM	1	1		22.25		24.0	1.0	
100	64QAM	1	1		20.80		22.5	2.5	
100	256QAM	1	1		19.01		20.5	4.5	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3800.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1		23.21	23.35	23.28	25.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3480.02	3800.01	3510	(dBm)	(dB)	
80	QPSK	1	1		23.15	23.22	23.25	25.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3800.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1		23.19	23.32	23.15	25.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3800.01	3525	(dBm)	(dB)	
50	QPSK	1	1		23.19	23.32	23.16	25.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3800.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1		23.18	23.30	23.20	25.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3800.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1		23.18	23.34	23.18	25.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3800.01	3540	(dBm)	(dB)	
20	QPSK	1	1		23.13	23.33	23.21	25.0	0.0



n41 Main PA Ant2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				508202	518598	535900		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	25.27	25.38	25.36		
100	QPSK	1	137	25.24	25.37	25.28	25.7	0.0
100	QPSK	1	271	25.18	25.26	25.18		
100	QPSK	135	0	24.46	24.43	24.41	24.7	1.0
100	QPSK	135	69	25.20	25.35	25.22	25.7	0.0
100	QPSK	135	138	24.37	24.39	24.21	24.7	1.0
100	QPSK	270	0	24.42	24.46	24.44		
100	16QAM	1	1	24.21	24.31	24.14	24.7	1.0
100	64QAM	1	1	22.64	22.80	22.72	23.2	2.5
100	256QAM	1	1	20.80	21.00	20.83	21.2	4.5
Channel				508200	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.17	25.28	25.29	25.7	0.0
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.24	25.30	25.25	25.7	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538	2592.99	2658.99		
60	QPSK	1	1	25.18	25.25	25.28	25.7	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.21	25.25	25.33	25.7	0.0
Channel				508202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2610		
40	QPSK	1	1	25.23	25.25	25.22	25.7	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.14	25.25	25.32	25.7	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2678.99		
20	QPSK	1	1	25.22	25.31	25.29	25.7	0.0



n41 Main PA Ant3 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	23.14	23.19	23.08	24.5	0.0
100	QPSK	1	137	23.09	23.14	23.04		
100	QPSK	1	271	23.00	23.10	23.05		
100	QPSK	135	0	22.23	22.28	22.13	23.5	1.0
100	QPSK	135	69	22.99	23.14	23.09	24.5	0.0
100	QPSK	135	138	21.95	22.09	21.92	23.5	1.0
100	QPSK	270	0	22.10	22.21	21.98		
100	16QAM	1	1	22.03	22.17	22.05	23.5	1.0
100	64QAM	1	1	20.50	20.58	20.65	22.0	2.5
100	256QAM	1	1	18.79	18.86	18.80	20.0	4.5
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	23.04	23.14	23.02	24.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.09	23.06	23.02	24.5	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.99		
60	QPSK	1	1	23.10	23.17	23.02	24.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.03	23.06	22.97	24.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.00	23.08	22.98	24.5	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.11	23.16	23.01	24.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2678.99		
20	QPSK	1	1	23.10	23.11	23.02	24.5	0.0



n41 Main PA Ant4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	22.69	22.76	22.71	23.2	0.0
100	QPSK	1	137	22.60	22.63	22.56		
100	QPSK	1	271	22.56	22.62	22.63		
100	QPSK	135	0	22.63	22.64	22.70	23.2	0.0
100	QPSK	135	69	22.62	22.74	22.56	23.2	0.0
100	QPSK	135	138	22.67	22.69	22.68	23.2	0.0
100	QPSK	270	0	22.67	22.70	22.63		
100	16QAM	1	1	22.81	22.65	22.65	23.2	0.0
100	64QAM	1	1	22.65	22.63	22.68	23.2	0.0
100	256QAM	1	1	20.70	20.73	20.81	21.2	2.0
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	22.45	22.63	22.55	23.2	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.47	22.66	22.61	23.2	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536	2592.99	2659.99		
60	QPSK	1	1	22.46	22.57	22.55	23.2	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.61	22.73	22.45	23.2	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.42	22.60	22.84	23.2	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.49	22.60	22.57	23.2	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.57	22.63	22.53	23.2	0.0



Part270 n77 Main PA Ant5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				656000	656000	656200			
Frequency (MHz)				3750	3840	3930			
100	QPSK	1	1	17.72	17.78	17.72			
100	QPSK	1	137	17.82	17.57	17.82	18.5	0.0	
100	QPSK	1	271	17.51	17.57	17.43			
100	QPSK	135	0	17.83	17.45	17.60	18.5	0.0	
100	QPSK	135	69	17.58	17.68	17.55	18.5	0.0	
100	QPSK	135	138	17.49	17.47	17.33	18.5	0.0	
100	QPSK	270	0	17.63	17.65	17.81			
100	16QAM	1	1	17.83	17.69	17.67	18.5	0.0	
100	64QAM	1	1	17.58	17.46	17.58	18.5	0.0	
100	256QAM	1	1	17.40	17.46	17.33	18.5	0.0	
Channel				642688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.47	17.47	17.50	18.5	0.0	
Channel				649334	656000	652688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.60	17.67	17.61	18.5	0.0	
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.82	17.69	17.83	18.5	0.0	
Channel				648334	656000	653688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.47	17.44	17.49	18.5	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.01	3840	3960			
40	QPSK	1	1	17.86	17.72	17.88	18.5	0.0	
Channel				647688	656000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.62	17.74	17.66	18.5	0.0	
Channel				647334	650000	654688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.86	17.64	17.86	18.5	0.0	

Part27Q n77 Main PA Ant5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334				
Frequency (MHz)				3500.01					
100	QPSK	1	1	17.76					
100	QPSK	1	137	17.47			18.5	0.0	
100	QPSK	1	271	17.47					
100	QPSK	135	0	17.44			18.5	0.0	
100	QPSK	135	69	17.59			18.5	0.0	
100	QPSK	135	138	17.33			18.5	0.0	
100	QPSK	270	0	17.55					
100	16QAM	1	1	17.81			18.5	0.0	
100	64QAM	1	1	17.36			18.5	0.0	
100	256QAM	1	1	17.34			18.5	0.0	
Channel				633000	633334	633688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	17.49	17.48	17.50	18.5	0.0	
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	17.54	17.54	17.55	18.5	0.0	
Channel				632000	633334	633688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3500.02			
60	QPSK	1	1	17.48	17.58	17.54	18.5	0.0	
Channel				631688	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	17.42	17.42	17.45	18.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.49	17.82	17.49	18.5	0.0	
Channel				631000	633334	635688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	17.49	17.64	17.56	18.5	0.0	
Channel				630688	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.52	17.64	17.48	18.5	0.0	



Part27O n78 Main PA Ant5 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3750			
100	QPSK	1	1		18.84				
100	QPSK	1	137		18.55		19.5	0.0	
100	QPSK	1	271		18.54				
100	QPSK	135	0		18.56		19.5	0.0	
100	QPSK	135	69		18.73		19.5	0.0	
100	QPSK	135	138		18.49		19.5	0.0	
100	QPSK	270	0		18.68		19.5	0.0	
100	16QAM	1	1		18.67		19.5	0.0	
100	64QAM	1	1		18.49		19.5	0.0	
100	256QAM	1	1		18.46		19.5	0.0	
Channel				649868	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3753.01			
90	QPSK	1	1		18.61	18.49	18.67	19.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.59	18.56	18.66	19.5	0.0
Channel				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		18.61	18.54	18.63	19.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		18.64	18.48	18.59	19.5	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.60	18.57	18.65	19.5	0.0
Channel				647988	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		18.63	18.51	18.59	19.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		18.64	18.52	18.65	19.5	0.0

Part27Q n78 Main PA Ant5 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633668			
Frequency (MHz)				3500.01					
100	QPSK	1	1		18.76				
100	QPSK	1	137		18.43		19.5	0.0	
100	QPSK	1	271		18.39				
100	QPSK	135	0		18.41		19.5	0.0	
100	QPSK	135	69		18.68		19.5	0.0	
100	QPSK	135	138		18.41		19.5	0.0	
100	QPSK	270	0		18.55		19.5	0.0	
100	16QAM	1	1		18.55		19.5	0.0	
100	64QAM	1	1		18.35		19.5	0.0	
100	256QAM	1	1		18.30		19.5	0.0	
Channel				632000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3506.02			
90	QPSK	1	1		18.46	18.46	18.60	19.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		18.51	18.41	18.51	19.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		18.46	18.48	18.57	19.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		18.55	18.48	18.53	19.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		18.53	18.49	18.57	19.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3536.02			
30	QPSK	1	1		18.54	18.42	18.50	19.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		18.45	18.47	18.59	19.5	0.0



Part270 n77 Main PA Ant6 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				656000	656000	656000		
Frequency (MHz)				3760	3840	3920		
100	QPSK	1	1	18.94	19.08	18.84		
100	QPSK	1	137	18.73	18.83	18.83	20.5	0.0
100	QPSK	1	271	18.66	18.72	18.64		
100	QPSK	135	0	18.92	18.63	18.90	20.5	0.0
100	QPSK	135	69	18.77	19.07	18.70	20.5	0.0
100	QPSK	135	138	18.76	18.64	18.61	20.5	0.0
100	QPSK	270	0	18.85	18.98	18.90		
100	16QAM	1	1	18.73	18.87	19.00	20.5	0.0
100	64QAM	1	1	18.90	18.73	18.80	20.5	0.0
100	256QAM	1	1	18.68	18.77	18.64	20.5	0.0
Channel				642668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	18.90	18.94	18.91	20.5	0.0
Channel				649334	656000	652968	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	18.72	18.83	18.74	20.5	0.0
Channel				646668	650000	653334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	18.94	19.00	18.81	20.5	0.0
Channel				648334	656000	653668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	18.82	18.98	18.90	20.5	0.0
Channel				646000	650000	654000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	18.83	18.83	18.89	20.5	0.0
Channel				647668	656000	654334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	18.87	19.01	18.75	20.5	0.0
Channel				647334	650000	654668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	18.94	18.82	18.83	20.5	0.0

Part27Q n77 Main PA Ant6 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633334		
Frequency (MHz)				3500.01				
100	QPSK	1	1	19.18				
100	QPSK	1	137	18.87			20.5	0.0
100	QPSK	1	271	18.88				
100	QPSK	135	0	18.63			20.5	0.0
100	QPSK	135	69	18.14			20.5	0.0
100	QPSK	135	138	18.69			20.5	0.0
100	QPSK	270	0	18.88				
100	16QAM	1	1	19.06			20.5	0.0
100	64QAM	1	1	18.70			20.5	0.0
100	256QAM	1	1	18.89			20.5	0.0
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	18.83	18.96	18.81	20.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	18.94	19.05	18.95	20.5	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3485	3500.01	3505.02	(dBm)	(dB)
60	QPSK	1	1	18.81	18.81	18.80	20.5	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	18.83	18.99	18.91	20.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	18.72	18.99	18.84	20.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	18.85	18.79	18.82	20.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	18.81	18.93	18.86	20.5	0.0



Part27O n78 Main PA Ant6 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3750			
100	QPSK	1	1		18.80				
100	QPSK	1	137		18.40		20.0	0.0	
100	QPSK	1	271		18.39				
100	QPSK	135	0		18.32		20.0	0.0	
100	QPSK	135	69		18.52		20.0	0.0	
100	QPSK	135	138		18.25		20.0	0.0	
100	QPSK	270	0		18.43		20.0	0.0	
100	16QAM	1	1		18.42		20.0	0.0	
100	64QAM	1	1		18.36		20.0	0.0	
100	256QAM	1	1		18.37		20.0	0.0	
Channel				649868	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3753.01			
90	QPSK	1	1		18.44	18.46	18.31	20.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.39	18.26	18.17	20.0	0.0
Channel				649668	650000	651384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		18.20	18.32	18.24	20.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		18.33	18.25	18.06	20.0	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.18	18.42	18.05	20.0	0.0
Channel				647968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		18.22	18.31	18.07	20.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		18.20	18.32	18.25	20.0	0.0

Part27Q n78 Main PA Ant6 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	633334			
Frequency (MHz)				3500.01					
100	QPSK	1	1		18.96				
100	QPSK	1	137		18.59		20.0	0.0	
100	QPSK	1	271		18.78				
100	QPSK	135	0		18.55		20.0	0.0	
100	QPSK	135	69		18.92		20.0	0.0	
100	QPSK	135	138		18.55		20.0	0.0	
100	QPSK	270	0		18.73		20.0	0.0	
100	16QAM	1	1		18.61		20.0	0.0	
100	64QAM	1	1		18.44		20.0	0.0	
100	256QAM	1	1		18.57		20.0	0.0	
Channel				632000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3506.02			
90	QPSK	1	1		18.55	18.90	18.61	20.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		18.38	18.66	18.56	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		18.50	18.79	18.51	20.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		18.31	18.67	18.43	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		18.46	18.82	18.56	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3536.02			
30	QPSK	1	1		18.32	18.79	18.44	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		18.33	18.75	18.46	20.0	0.0



Part270 n77 Main PA Ant7 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	22.23	22.34	22.22		
100	QPSK	1	137	22.04	22.19	22.13	24.0	0.0
100	QPSK	1	271	22.02	22.04	22.05		
100	QPSK	135	0	22.04	22.32	22.11	24.0	0.0
100	QPSK	135	69	22.16	22.33	22.11	24.0	0.0
100	QPSK	135	138	22.08	22.16	22.07	24.0	0.0
100	QPSK	270	0	22.12	22.19	22.08		
100	16QAM	1	1	22.09	22.11	22.16	24.0	0.0
100	64QAM	1	1	20.55	20.61	20.67	22.5	1.5
100	256QAM	1	1	18.88	18.82	18.72	20.5	3.5
Channel				648688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.06	22.14	22.11	24.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.19	22.27	22.19	24.0	0.0
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01		
60	QPSK	1	1	22.12	22.29	22.10	24.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.07	22.24	22.16	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.14	22.26	22.10	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.09	22.23	22.17	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.21	22.23	22.10	24.0	0.0

Part27Q n77 Main PA Ant7 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3500.01			
100	QPSK	1	1		22.67			
100	QPSK	1	137		22.51		24.0	0.0
100	QPSK	1	271		22.40			
100	QPSK	135	0		22.64		24.0	0.0
100	QPSK	135	69		22.85		24.0	0.0
100	QPSK	135	138		22.57		24.0	0.0
100	QPSK	270	0		22.56			
100	16QAM	1	1		22.42		24.0	0.0
100	64QAM	1	1		20.93		22.5	1.5
100	256QAM	1	1		18.10		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	22.07	22.26	22.13	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	22.37	22.45	22.38	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3500.02		
60	QPSK	1	1	22.39	22.46	22.32	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.06	22.15	22.07	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	22.38	22.42	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	22.30	22.43	22.36	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	22.37	22.45	22.33	24.0	0.0



Part270 n78 Main PA Ant7 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3740	3750	3760			
100	QPSK	1	1		21.91				
100	QPSK	1	137		21.66		23.5	0.0	
100	QPSK	1	271		21.82				
100	QPSK	135	0		21.57		23.5	0.0	
100	QPSK	135	69		21.86		23.5	0.0	
100	QPSK	135	138		21.59		23.5	0.0	
100	QPSK	270	0		21.85		23.5	0.0	
100	16QAM	1	1		21.77		23.5	0.0	
100	64QAM	1	1		20.87		22.5	1.0	
100	256QAM	1	1		18.90		20.5	3.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		21.85	21.76	21.61	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		21.55	21.66	21.59	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3733.02	3750	3770.01			
60	QPSK	1	1		21.58	21.82	21.52	23.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		21.54	21.68	21.52	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		21.58	21.71	21.56	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		21.59	21.57	21.51	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		21.59	21.63	21.54	23.5	0.0

Part27Q n78 Main PA Ant7 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		22.11				
100	QPSK	1	137		21.59		23.5	0.0	
100	QPSK	1	271		21.73				
100	QPSK	135	0		21.53		23.5	0.0	
100	QPSK	135	69		22.10		23.5	0.0	
100	QPSK	135	138		21.59		23.5	0.0	
100	QPSK	270	0		21.94		23.5	0.0	
100	16QAM	1	1		21.85		23.5	0.0	
100	64QAM	1	1		20.84		22.5	1.0	
100	256QAM	1	1		18.88		20.5	3.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		21.68	22.00	21.81	23.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		21.54	21.83	21.56	23.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		21.60	21.77	21.54	23.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		21.60	21.87	21.56	23.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		21.53	21.89	21.59	23.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		21.56	21.96	21.58	23.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		21.54	21.85	21.58	23.5	0.0



DSI 4 Power for FR1 Main PA

n41 Main PA Ant1 DSI4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPS (dB)
				569202	518998	538000	
				2648.02	2692.00	2648.00	
				17.93	17.97	17.90	
100	QPSK	1	1	17.78	17.88	17.87	19.0
100	QPSK	1	271	17.70	17.69	17.66	19.0
100	QPSK	156	0	17.82	17.83	17.84	19.0
100	QPSK	156	89	17.77	17.81	17.76	19.0
100	QPSK	156	138	17.92	17.94	17.85	19.0
100	QPSK	270	0	17.80	17.85	17.78	19.0
100	64QAM	1	1	17.90	17.88	17.80	19.0
100	64QAM	1	1	17.82	17.72	17.82	19.0
100	256QAM	1	1	17.85	17.80	17.89	19.0
				530003	518008	530000	
				2541	2522.00	2541.00	
				17.85	17.82	17.82	19.0
90	QPSK	1	1	2520.04	518098	530098	19.0
				2538.02	2522.00	2538.00	
				17.84	17.82	17.80	19.0
				530000	518098	531998	
				2538	2522.00	2538.00	
90	QPSK	1	1	17.85	17.83	17.76	19.0
				534004	518098	533098	
				2648.02	2692.00	2648.00	
				17.46	17.51	17.21	19.0
				530002	518098	534000	
				2648.02	2692.00	2630.00	
				17.42	17.51	17.24	19.0
				302000	318098	318000	
				2511	2522.00	2574.00	
30	QPSK	1	1	17.41	17.42	17.24	19.0
				2600	2600.00	2600.00	
				2568.02	2692.00	2679.00	
				17.44	17.50	17.19	19.0



Part270 n78 Main PA Ant1 DS14

EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	Take-up time (dB)	MPR (dB)
Channel				84888	85000	85000		
Frequency (MHz)				3750	3750	3750		
100	DPSK	1	1	18.51			18.5	0.0
100	DPSK	1	137	18.41				
100	DPSK	1	271	18.51				
100	DPSK	135	0	18.41			18.5	0.0
100	DPSK	135	65	18.51				
100	DPSK	135	138	18.50			18.5	0.0
100	DPSK	270	0	18.51				
100	16QAM	1	1	18.50			18.5	0.0
100	16QAM	1	1	18.51			18.5	0.0
100	16QAM	1	1	18.50			18.5	0.0
Channel				84888	85000	85000	Take-up time (dB)	MPR (dB)
Frequency (MHz)				3750.00	3750	3750.00		
90	DPSK	1	1	18.58	18.71	18.75	18.5	0.0
Channel				84834	85000	85088	Take-up time (dB)	MPR (dB)
Frequency (MHz)				3748.01	3750	3750.02		
80	DPSK	1	1	18.75	18.73	18.75	18.5	0.0
Channel				84888	85000	85184	Take-up time (dB)	MPR (dB)
Frequency (MHz)				3749.02	3750	3750.01		
80	DPSK	1	1	18.59	18.73	18.58	18.5	0.0
Channel				84784	85000	84980	Take-up time (dB)	MPR (dB)
Frequency (MHz)				3745.01	3750	3750.02		
50	DPSK	1	1	18.75	18.70	18.57	18.5	0.0
Channel				84700	85000	85100	Take-up time (dB)	MPR (dB)
Frequency (MHz)				3750	3750	3750		
40	DPSK	1	1	18.59	18.40	18.51	18.5	0.0
Channel				84780	85000	84940	Take-up time (dB)	MPR (dB)
Frequency (MHz)				3742.02	3750	3745.01		
30	DPSK	1	1	18.59	18.70	18.51	18.5	0.0
Channel				84784	85000	84988	Take-up time (dB)	MPR (dB)
Frequency (MHz)				3742.01	3750	3745.02		
20	DPSK	1	1	18.73	18.73	18.44	18.5	0.0



Part27Q n78 Main PA Ant1 DSI4								
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up (ms) (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	DPSK	1	1	18.53				0.0
100	DPSK	1	137	18.45			18.5	0.0
100	DPSK	1	271	18.50				0.0
100	DPSK	136	0	18.74			18.5	0.0
100	DPSK	136	69	18.87			18.5	0.0
100	DPSK	136	138	18.63			18.5	0.0
100	DPSK	270	0	18.74				0.0
100	16QAM	1	1	18.68			18.5	0.0
100	16QAM	1	1	18.84			18.5	0.0
100	16QAM	1	1	18.84			18.5	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
90	DPSK	1	1	18.88	18.50	18.97	18.5	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
85	DPSK	1	1	18.81	18.84	18.85	18.5	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
80	DPSK	1	1	18.88	18.80	18.88	18.5	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
50	DPSK	1	1	18.58	18.80	18.78	18.5	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
40	DPSK	1	1	18.59	18.80	18.81	18.5	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
30	DPSK	1	1	18.77	18.80	18.82	18.5	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
20	DPSK	1	1	18.14	18.80	18.87	18.5	0.0



n41 Main PA Ant2 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				508202	518598	535300		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	21.68	21.77	21.74	22.2	0.0
100	QPSK	1	137	21.58	21.65	21.62		
100	QPSK	1	271	21.62	21.65	21.60		
100	QPSK	135	0	21.54	21.72	21.61	22.2	0.0
100	QPSK	135	69	21.60	21.67	21.61	22.2	0.0
100	QPSK	135	138	21.59	21.64	21.61	22.2	0.0
100	QPSK	270	0	21.55	21.69	21.59		
100	16QAM	1	1	21.57	21.66	21.66	22.2	0.0
100	64QAM	1	1	21.58	21.67	21.65	22.2	0.0
100	256QAM	1	1	20.69	20.79	20.70	21.2	1.0
Channel				508200	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2544	2592.99	2644.98		
90	QPSK	1	1	21.51	21.62	21.69	22.2	0.0
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.61	21.57	21.59	22.2	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2548	2592.99	2628.99		
60	QPSK	1	1	21.54	21.68	21.61	22.2	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.56	21.68	21.61	22.2	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2630		
40	QPSK	1	1	21.60	21.72	21.63	22.2	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.51	21.68	21.60	22.2	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2678.99		
20	QPSK	1	1	21.53	21.61	21.62	22.2	0.0



n41 Main PA Ant3 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
100	QPSK	1	1	17.70	18.07	17.86	19.5	0.0
100	QPSK	1	137	17.71	17.78	17.76		
100	QPSK	1	271	17.70	17.81	17.79		
100	QPSK	135	0	17.70	17.93	17.70	19.5	0.0
100	QPSK	135	69	17.91	17.94	17.75	19.5	0.0
100	QPSK	135	138	17.89	17.76	17.59	19.5	0.0
100	QPSK	270	0	17.69	17.87	17.71		
100	16QAM	1	1	17.59	17.98	17.86	19.5	0.0
100	64QAM	1	1	17.74	17.82	17.80	19.5	0.0
100	256QAM	1	1	17.75	17.95	17.99	19.5	0.0
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	17.52	17.90	17.88	19.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.64	17.96	17.76	19.5	0.0
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528	2592.99	2658.99		
60	QPSK	1	1	17.64	17.93	17.82	19.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.52	17.93	17.81	19.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	17.56	17.89	17.80	19.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.59	17.94	17.66	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2678.99		
20	QPSK	1	1	17.60	18.01	17.77	19.5	0.0



Part270 n77 Main PA Ant5 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				656000	656000	656000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	17.72	17.78	17.72		
100	QPSK	1	137	17.82	17.57	17.82	18.5	0.0
100	QPSK	1	271	17.51	17.57	17.43		
100	QPSK	135	0	17.83	17.45	17.60	18.5	0.0
100	QPSK	135	69	17.58	17.68	17.55	18.5	0.0
100	QPSK	135	138	17.49	17.47	17.33	18.5	0.0
100	QPSK	270	0	17.63	17.65	17.61		
100	16QAM	1	1	17.83	17.69	17.67	18.5	0.0
100	64QAM	1	1	17.58	17.46	17.58	18.5	0.0
100	256QAM	1	1	17.40	17.46	17.33	18.5	0.0
Channel				649688	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	17.54	17.59	17.54	18.5	0.0
Channel				649334	650000	652688	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	17.60	17.67	17.61	18.5	0.0
Channel				648688	650000	653334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	17.62	17.69	17.63	18.5	0.0
Channel				648334	650000	653688	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	17.62	17.69	17.63	18.5	0.0
Channel				648000	650000	654000	Tune-up limit	MPR
Frequency (MHz)				3720.02	3840	3950	(dBm)	(dB)
40	QPSK	1	1	17.66	17.72	17.68	18.5	0.0
Channel				647688	650000	654334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	17.62	17.74	17.66	18.5	0.0
Channel				647334	650000	654688	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	17.66	17.64	17.66	18.5	0.0

Part27Q n77 Main PA Ant5 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334			
Frequency (MHz)				3500.01	3500.01			
100	QPSK	1	1	17.76				
100	QPSK	1	137	17.47			18.5	0.0
100	QPSK	1	271	17.47				
100	QPSK	135	0	17.44			18.5	0.0
100	QPSK	135	69	17.59			18.5	0.0
100	QPSK	135	138	17.33			18.5	0.0
100	QPSK	270	0	17.55				
100	16QAM	1	1	17.81			18.5	0.0
100	64QAM	1	1	17.36			18.5	0.0
100	256QAM	1	1	17.34			18.5	0.0
Channel				633000	633334	633688	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	17.49	17.45	17.45	18.5	0.0
Channel				632688	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	17.54	17.54	17.55	18.5	0.0
Channel				632000	633334	634688	Tune-up limit	MPR
Frequency (MHz)				3485	3500.01	3505.02	(dBm)	(dB)
60	QPSK	1	1	17.48	17.58	17.54	18.5	0.0
Channel				631688	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	17.41	17.47	17.47	18.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	17.49	17.62	17.49	18.5	0.0
Channel				631000	633334	635688	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	17.49	17.64	17.56	18.5	0.0
Channel				630688	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	17.52	17.64	17.48	18.5	0.0



Part270 n78 Main PA Ant5 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3750			
100	QPSK	1	1		17.34				
100	QPSK	1	137		17.05		18.0	0.0	
100	QPSK	1	271		17.04				
100	QPSK	135	0		17.06		18.0	0.0	
100	QPSK	135	69		17.23		18.0	0.0	
100	QPSK	135	138		16.99		18.0	0.0	
100	QPSK	270	0		17.18		18.0	0.0	
100	16QAM	1	1		17.17		18.0	0.0	
100	64QAM	1	1		16.99		18.0	0.0	
100	256QAM	1	1		16.96		18.0	0.0	
Channel				649688	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3753.01			
90	QPSK	1	1		17.20	17.09	17.17	18.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		17.26	17.13	17.10	18.0	0.0
Channel				648988	650000	651384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		17.21	17.10	17.14	18.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		17.19	17.19	17.12	18.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		17.22	17.11	17.16	18.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		17.19	17.17	17.12	18.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		17.24	17.11	17.07	18.0	0.0

Part27Q n78 Main PA Ant5 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		17.26				
100	QPSK	1	137		16.83		18.0	0.0	
100	QPSK	1	271		16.89				
100	QPSK	135	0		16.91		18.0	0.0	
100	QPSK	135	69		17.18		18.0	0.0	
100	QPSK	135	138		16.91		18.0	0.0	
100	QPSK	270	0		17.05		18.0	0.0	
100	16QAM	1	1		17.05		18.0	0.0	
100	64QAM	1	1		16.85		18.0	0.0	
100	256QAM	1	1		16.80		18.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		17.06	16.98	17.10	18.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		17.15	16.98	17.04	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
60	QPSK	1	1		17.10	16.93	17.07	18.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		17.14	17.03	17.09	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		17.05	17.01	17.10	18.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		17.04	16.97	17.03	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		17.13	17.02	17.07	18.0	0.0



Part270 n77 Main PA Ant6 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	652000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	15.92	16.02	15.92		
100	QPSK	1	137	15.84	15.77	15.92	17.5	0.0
100	QPSK	1	271	15.78	15.79	15.88		
100	QPSK	135	0	15.84	15.68	15.85	17.5	0.0
100	QPSK	135	69	15.90	15.98	15.79	17.5	0.0
100	QPSK	135	138	15.73	15.74	15.55	17.5	0.0
100	QPSK	270	0	15.86	15.89	15.81		
100	16QAM	1	1	15.84	15.90	15.92	17.5	0.0
100	64QAM	1	1	15.82	15.73	15.79	17.5	0.0
100	256QAM	1	1	15.86	15.74	15.83	17.5	0.0
Channel				649688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	15.76	15.81	15.73	17.5	0.0
Channel				649334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.83	15.93	15.79	17.5	0.0
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.80	15.96	15.78	17.5	0.0
Channel				648334	650000	653688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.75	15.87	15.73	17.5	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3950		
40	QPSK	1	1	15.85	15.98	15.84	17.5	0.0
Channel				647688	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.80	15.88	15.89	17.5	0.0
Channel				647334	650000	654688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.78	15.97	15.84	17.5	0.0

Part27Q n77 Main PA Ant6 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334				
Frequency (MHz)				3500.01	3500.01				
100	QPSK	1	1		16.28				
100	QPSK	1	137		16.03		17.5	0.0	
100	QPSK	1	271		15.97				
100	QPSK	135	0		15.83		17.5	0.0	
100	QPSK	135	69		16.21		17.5	0.0	
100	QPSK	135	138		15.88		17.5	0.0	
100	QPSK	270	0		16.06				
100	16QAM	1	1		16.10		17.5	0.0	
100	64QAM	1	1		15.89		17.5	0.0	
100	256QAM	1	1		15.94		17.5	0.0	
Channel				633000	633334	633688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		15.77	15.85	15.75	17.5	0.0
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		15.92	16.08	15.87	17.5	0.0
Channel				632000	633334	634688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3530.02			
60	QPSK	1	1		15.99	16.01	15.86	17.5	0.0
Channel				631688	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		15.70	15.90	15.72	17.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		15.87	15.97	15.84	17.5	0.0
Channel				631000	633334	635688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		15.87	15.97	15.84	17.5	0.0
Channel				630688	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		15.92	16.08	15.88	17.5	0.0



Part27O n78 Main PA Ant6 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3750			
100	QPSK	1	1		16.73				
100	QPSK	1	137		16.42		18.0	0.0	
100	QPSK	1	271		16.42				
100	QPSK	135	0		16.25		18.0	0.0	
100	QPSK	135	69		16.55		18.0	0.0	
100	QPSK	135	138		16.30				
100	QPSK	270	0		16.41		18.0	0.0	
100	16QAM	1	1		16.46		18.0	0.0	
100	64QAM	1	1		16.31		18.0	0.0	
100	256QAM	1	1		16.37		18.0	0.0	
Channel				649688	650000	650384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3753.01			
90	QPSK	1	1		16.47	16.57	16.34	18.0	0.0
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		16.43	16.59	16.36	18.0	0.0
Channel				648988	650000	651384	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		16.43	16.63	16.34	18.0	0.0
Channel				648334	650000	651688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		16.39	16.56	16.36	18.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		16.38	16.81	16.38	18.0	0.0
Channel				647688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		16.47	16.80	16.42	18.0	0.0
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		16.38	16.54	16.37	18.0	0.0

Part27Q n78 Main PA Ant6 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		16.93				
100	QPSK	1	137		16.66		18.0	0.0	
100	QPSK	1	271		16.66				
100	QPSK	135	0		16.49		18.0	0.0	
100	QPSK	135	69		16.88		18.0	0.0	
100	QPSK	135	138		16.55				
100	QPSK	270	0		16.62		18.0	0.0	
100	16QAM	1	1		16.81		18.0	0.0	
100	64QAM	1	1		16.52		18.0	0.0	
100	256QAM	1	1		16.57		18.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		16.65	16.82	16.52	18.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.68	16.74	16.51	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1		16.68	16.81	16.49	18.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		16.69	16.76	16.50	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		16.63	16.80	16.59	18.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		16.68	16.83	16.57	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		16.70	16.72	16.49	18.0	0.0



Part270 n77 Main PA Ant7 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	652000		
Frequency (MHz)				3750	3840	3930		
100	QPSK	1	1	16.85	16.88	16.79		
100	QPSK	1	137	16.70	16.81	16.72	18.5	0.0
100	QPSK	1	271	16.75	16.68	16.80		
100	QPSK	135	0	16.68	16.63	16.64	18.5	0.0
100	QPSK	135	69	16.96	16.77	16.71	18.5	0.0
100	QPSK	135	138	16.70	16.67	16.73	18.5	0.0
100	QPSK	270	0	16.64	16.74	16.68		
100	16QAM	1	1	16.57	16.70	16.58	18.5	0.0
100	64QAM	1	1	16.58	16.67	16.59	18.5	0.0
100	256QAM	1	1	16.55	16.67	16.56	18.5	0.0
Channel				642668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.50	16.57	16.46	18.5	0.0
Channel				649334	656000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.62	16.63	16.54	18.5	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.54	16.54	16.48	0.0	0.0
Channel				648334	656000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.55	16.71	16.66	18.5	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3960		
40	QPSK	1	1	16.58	16.69	16.66	18.5	0.0
Channel				647668	656000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.55	16.74	16.67	18.5	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.56	16.63	16.67	18.5	0.0

Part27Q n77 Main PA Ant7 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334				
Frequency (MHz)				3500.01	3500.01				
100	QPSK	1	1		17.08				
100	QPSK	1	137		16.84		18.5	0.0	
100	QPSK	1	271		16.74				
100	QPSK	135	0		16.74		18.5	0.0	
100	QPSK	135	69		16.94		18.5	0.0	
100	QPSK	135	138		16.67		18.5	0.0	
100	QPSK	270	0		16.69				
100	16QAM	1	1		16.91		18.5	0.0	
100	64QAM	1	1		16.70		18.5	0.0	
100	256QAM	1	1		16.61		18.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		16.52	16.52	16.46	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.83	16.74	16.77	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		16.84	16.78	16.71	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		16.59	16.60	16.45	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		16.81	16.82	16.65	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		16.77	16.79	16.70	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		16.77	16.75	16.76	18.5	0.0



Part27O n78 Main PA Ant7 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650050	650050	650050			
Frequency (MHz)				3740	3750	3760			
100	QPSK	1	1		16.96				
100	QPSK	1	137		16.71		18.5	0.0	
100	QPSK	1	271		16.86				
100	QPSK	135	0		16.57		18.5	0.0	
100	QPSK	135	69		16.76		18.5	0.0	
100	QPSK	135	138		16.70		18.5	0.0	
100	QPSK	270	0		16.85		18.5	0.0	
100	16QAM	1	1		16.73		18.5	0.0	
100	64QAM	1	1		16.54		18.5	0.0	
100	256QAM	1	1		16.54		18.5	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		16.63	16.57	16.61	18.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		16.60	16.57	16.53	18.5	0.0
Channel				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		16.75	16.85	16.59	18.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		16.74	16.69	16.63	18.5	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		16.54	16.58	16.55	18.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		16.63	16.68	16.61	18.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		16.67	16.76	16.60	18.5	0.0

Part27Q n78 Main PA Ant7 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	QPSK	1	1		17.07				
100	QPSK	1	137		16.81		18.5	0.0	
100	QPSK	1	271		16.65				
100	QPSK	135	0		16.60		18.5	0.0	
100	QPSK	135	69		17.03		18.5	0.0	
100	QPSK	135	138		16.55		18.5	0.0	
100	QPSK	270	0		16.84		18.5	0.0	
100	16QAM	1	1		16.74		18.5	0.0	
100	64QAM	1	1		16.51		18.5	0.0	
100	256QAM	1	1		16.73		18.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		16.68	16.69	16.69	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.71	16.66	16.51	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02			
60	QPSK	1	1		16.76	16.67	16.54	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		16.74	16.68	16.68	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		16.86	16.96	16.55	18.5	0.0
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		16.73	16.63	16.68	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		16.76	16.82	16.53	18.5	0.0



DSI 4 Power for FR1 Main PA

Part270 n77 Main PA Ant1 DSI4									
SR (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	Take-up (m)	MPR (dB)	
Channel				86800	86800	86800			
Frequency (MHz)				3760	3840	3900			
100	DPSK	1	1	17.15	17.20	17.20			
100	DPSK	1	137	17.05	17.07	17.10	19.0	0.0	
100	DPSK	1	271	17.02	17.01	17.04			
100	DPSK	136	0	17.08	17.04	17.01	19.0	0.0	
100	DPSK	136	69	17.05	17.05	17.05	19.0	0.0	
100	DPSK	136	138	17.02	17.05	17.02			
100	DPSK	270	0	17.03	17.03	17.00	19.0	0.0	
100	16QAM	1	1	17.08	17.10	17.10	19.0	0.0	
100	16QAM	1	1	17.04	17.04	17.05	19.0	0.0	
100	16QAM	1	1	17.07	17.03	17.03	19.0	0.0	
Channel				84868	85800	86234	Take-up (m)	MPR	
Frequency (MHz)				3740	3840	3900	(dB)	(dB)	
90	DPSK	1	1	17.01	17.10	17.10	19.0	0.0	
Channel				84034	85800	86268	Take-up (m)	MPR	
Frequency (MHz)				3740	3840	3900	(dB)	(dB)	
85	DPSK	1	1	17.05	17.18	17.14	19.0	0.0	
Channel				84868	85800	86334	Take-up (m)	MPR	
Frequency (MHz)				3738.02	3840	3900.02	(dB)	(dB)	
85	DPSK	1	1	17.07	17.22	17.13	19.0	0.0	
Channel				84868	85800	86368	Take-up (m)	MPR	
Frequency (MHz)				3726.01	3840	3900.02	(dB)	(dB)	
50	DPSK	1	1	17.08	17.10	17.09	19.0	0.0	
Channel				84000	85800	86300	Take-up (m)	MPR	
Frequency (MHz)				3720	3840	3900	(dB)	(dB)	
40	DPSK	1	1	17.09	17.05	17.08	19.0	0.0	
Channel				84868	85800	86334	Take-up (m)	MPR	
Frequency (MHz)				3710.02	3840	3900.02	(dB)	(dB)	
30	DPSK	1	1	17.01	17.03	17.00	19.0	0.0	
Channel				84734	85800	86468	Take-up (m)	MPR	
Frequency (MHz)				3710.01	3840	3900.02	(dB)	(dB)	
20	DPSK	1	1	17.09	17.10	17.08	19.0	0.0	



Part27Q n77 Main PA Ant1 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
					83334	3500101			
	Channel								
	Frequency (MHz)				17.24				
100	QPSK	1	1		17.24		19.0	0.0	
100	QPSK	1	137		17.28				
100	QPSK	1	271		17.07				
100	QPSK	135	0		17.33		19.0	0.0	
100	QPSK	135	66		17.27		19.0	0.0	
100	QPSK	135	138		17.37		19.0	0.0	
100	QPSK	270	0		17.28				
100	16QAM	1	1		17.26		19.0	0.0	
100	16QAM	1	1		17.31		19.0	0.0	
100	16QAM	1	1		17.39		19.0	0.0	
	Channel			83500	83334	83368	Tune-up limit (dBm)	MPR	
	Frequency (MHz)			836	83611	83646		0.0	
90	QPSK	1	1		17.12	17.20	19.0	0.0	
	Channel			83688	83334	83400	Tune-up limit (dBm)	MPR	
	Frequency (MHz)			840102	3500101	3500101		0.0	
80	QPSK	1	1		17.03	17.16	17.08	19.0	0.0
	Channel			83500	83334	83488	Tune-up limit (dBm)	MPR	
	Frequency (MHz)			840	3500101	3500101		0.0	
80	QPSK	1	1		17.08	17.19	17.10	19.0	0.0
	Channel			83688	83334	83696	Tune-up limit (dBm)	MPR	
	Frequency (MHz)			3495102	3500101	3500101		0.0	
50	QPSK	1	1		17.01	17.23	17.16	19.0	0.0
	Channel			13115	83334	83334	Tune-up limit (dBm)	MPR	
	Frequency (MHz)			3470101	3500101	3500101		0.0	
40	QPSK	1	1		17.08	17.22	17.09	19.0	0.0
	Channel			83500	83334	83596	Tune-up limit (dBm)	MPR	
	Frequency (MHz)			1483	3500101	3500101		0.0	
30	QPSK	1	1		17.54	17.20	17.27	19.0	0.0
	Channel			83688	83334	83696	Tune-up limit (dBm)	MPR	
	Frequency (MHz)			3491102	3500101	3500101		0.0	
20	QPSK	1	1		17.05	17.14	17.11	19.0	0.0



Mode	Channel	Frequency (MHz)	Full Power		Sidelobe not CDS for Head		Sidelobe CDS only for Head		Sidelobe not CDS for Head		Sidelobe not CDS for Head		Sidelobe CDS for Body worn		Duty Cycle %	
			Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit		
802.11a WLAN	802.11a WLAN	1	2412	20.81	22.00	18.88	20.00	17.41	18.00	16.42	17.00	15.40	16.00	15.00	86.47	
		5	2437	20.67	22.00	18.77	20.00	17.28	18.00	16.29	17.00	15.20	16.00	15.00		
		11	2462	20.71	22.00	18.82	20.00	17.34	18.00	16.34	17.00	15.20	16.00	15.00		
	802.11g WLAN	6	2437	20.61	22.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00	85.53	
		11	2462	20.61	22.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00		
		16	2487	20.11	21.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00	85.30	
	802.11n WLAN MCS9	3	2432	19.41	20.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00	82.86	
		5	2437	19.72	21.00	Not Required	20.00	Not Required	18.00	Not Required	16.00	Not Required	14.00	Not Required	15.00	
		9	2452	19.51	19.50	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00		
		11	2457	19.28	21.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00		
		16	2482	19.05	21.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00		
		17	2487	19.41	20.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00		
802.11n WLAN MCS8	3	2432	19.51	20.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00	81.53		
	5	2437	19.28	21.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00			
	9	2452	19.51	20.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00			
	11	2457	19.28	21.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00			
	16	2482	19.05	21.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00			
	17	2487	19.41	20.00	20.00	20.00	18.00	18.00	16.00	16.00	14.00	14.00	13.00			

Mode	Channel	Frequency (MHz)	Full Power		Sidelobe not CDS for Head		Sidelobe CDS only for Head		Sidelobe not CDS for Head		Sidelobe not CDS for Head		Sidelobe CDS for Body worn		Duty Cycle %
			Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a WLAN	802.11a WLAN	36	5180	20.30	22.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	85.50	
		44	5205	20.30	22.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		48	5230	20.45	22.00	Not Required	18.00	Not Required	16.00	Not Required	14.00	Not Required	12.00	Not Required	
	802.11n WLAN MCS9	36	5180	19.88	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	85.50	
		44	5205	20.54	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		48	5230	19.88	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
	802.11n WLAN MCS8	36	5180	19.16	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	81.43	
		48	5230	20.70	21.00	18.02	18.00	16.04	16.00	14.02	14.00	12.04	12.00		
		36	5180	19.77	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		44	5205	19.93	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		48	5230	19.91	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		36	5180	19.91	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	82.86	
802.11n WLAN MCS9	42	5210	19.14	18.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	84.21		
	36	5180	20.03	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
	44	5205	20.04	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
	48	5230	20.02	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
	36	5180	19.08	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	81.38		
	48	5230	20.21	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
802.11n WLAN MCS8	42	5210	19.51	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	82.86		

Mode	Channel	Frequency (MHz)	Full Power		Sidelobe not CDS for Head		Sidelobe CDS only for Head		Sidelobe not CDS for Head		Sidelobe not CDS for Head		Sidelobe CDS for Body worn		Duty Cycle %
			Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a WLAN	802.11a WLAN	52	5380	19.87	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	85.50	
		60	5380	20.27	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		64	5380	19.79	21.00	Not Required	18.00	Not Required	16.00	Not Required	14.00	Not Required	12.00	Not Required	
	802.11n WLAN MCS9	52	5380	20.38	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	85.56	
		60	5380	20.22	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		64	5380	19.83	20.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
	802.11n WLAN MCS8	54	5375	19.22	21.00	17.11	18.00	15.88	16.00	14.02	14.00	12.00	12.00	81.43	
		62	5375	19.22	21.00	16.43	18.00	15.16	16.00	13.94	14.00	12.00	12.00		
		52	5380	20.28	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		60	5380	20.10	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
		64	5380	19.72	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	82.86	
		64	5380	20.24	20.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00		
802.11n WLAN MCS9	62	5375	19.40	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	82.86		
	52	5380	19.34	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	84.21		
	52	5380	20.02	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
	60	5380	20.08	21.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
	64	5380	19.08	20.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
	64	5380	20.61	22.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	81.38		
802.11n WLAN MCS8	62	5375	19.73	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	82.86		
	60	5380	19.91	20.00	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
	52	5380	19.43	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	82.86		
	60	5380	19.43	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00			
	64	5380	19.51	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	82.86		
	64	5380	19.51	19.50	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	82.86		

Mode	Channel	Frequency (MHz)	Full Power		Sidelobe not CDS for Head		Duty Cycle %
			Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a WLAN	802.11a WLAN	100	5780	19.44	19.50	12.00	85.50
		110	5780	19.54	19.50	12.00	
		140	5780	19.80	19.50	12.00	
	802.11n WLAN MCS9	100	5780	19.83	19.50	12.00	85.50
		110	5780	19.91	19.50	12.00	
		140	5780	19.86	19.50	12.00	
	802.11n WLAN MCS8	100	5780	19.50	19.50	12.00	81.43
		102	5780	19.51	17.00	11.11	12.00
		110	5780	19.61	17.00	11.08	12.00
		134	5770	19.44	17.00	11.21	12.00
		142	5770	19.41	17.00	11.09	12.00
		100	5780	19.51	19.50	12.00	
802.11n WLAN MCS9	116	5780	19.40	19.50	12.00	85.30	
	140	5780	19.99	19.50	12.00		
	144	5780	19.39	19.50	12.00		
	102	5780	19.35	19.50	12.00		
	110	5780	19.45	19.50	12.00	82.86	
	142	5770	19.28	19.50	12.00		
802.11n WLAN MCS8	106	5780	19.28	19.50	12.00	84.21	
	122	5760	19.65	19.50	12.00		
	108	5780	19.20	19.50	12.00		
	114	5780	19.69	19.50	12.00	75.00	
	100	5780	19.77	19.50	12.00		
	116	5780	19.66	19.50	12.00	81.38	
802.11n WLAN MCS9	140	5780	19.61	19.50	12.00		
	144	5780	19.80	19.50	12.00		
	102	5780	19.70	19.50	12.00		
	110	5780	19.82	19.50	12.00	81.38	
	134	5770</					



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

BLE_1M ANT17

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

BLE_2M

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

BLE-125K

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

BLE-500K

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.58
	CH 19	2440	6.89
	CH 39	2480	6.84
Tune-up Limit			8.00

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

BLE_1M

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

BLE_2M

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

BLE-125K

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

BLE-500K

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