

Full Power

Tx Channel	Base Average Power (dBm)			Tx Channel	Frame Average Power (dBm)		
	824.2	832.4	848.8		824.2	832.4	848.8
Frequency (MHz)	824.2	832.4	848.8	824.2	832.4	848.8	848.8
CDMA1 TX 1W	20.11	20.46	20.46	20.00	20.11	20.46	20.46
CDMA1 TX 1W	20.08	20.46	20.35	20.00	20.08	20.46	20.35
CDMA1 TX 1W	20.02	20.04	20.15	20.00	20.02	20.04	20.15
CDMA1 TX 1W	20.03	20.03	20.05	20.00	20.03	20.03	20.05
CDMA1 TX 1W	20.05	20.05	20.05	20.00	20.05	20.05	20.05
EDGE 1 TX 1W	20.06	20.13	20.04	20.00	20.06	20.13	20.04
EDGE 2 TX 1W	20.07	20.03	20.42	20.00	20.07	20.03	20.42
EDGE 3 TX 1W	20.44	20.04	20.09	20.00	20.44	20.04	20.09
EDGE 4 TX 1W	20.03	20.00	20.04	20.00	20.03	20.00	20.04

Tx Channel	Base Average Power (dBm)			Tx Channel	Frame Average Power (dBm)		
	1850.2	1850	1869.8		1850.2	1850	1869.8
Frequency (MHz)	1850.2	1850	1869.8	1850.2	1850	1869.8	1869.8
CDMA1 TX 1W	20.31	20.00	20.49	20.00	20.31	20.00	20.49
CDMA1 TX 1W	20.27	20.47	20.47	20.00	20.27	20.47	20.47
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
EDGE 1 TX 1W	20.41	20.00	20.00	20.00	20.41	20.00	20.00
EDGE 2 TX 1W	20.41	20.00	20.00	20.00	20.41	20.00	20.00
EDGE 3 TX 1W	20.76	20.00	20.04	20.00	20.76	20.00	20.04
EDGE 4 TX 1W	20.51	20.00	20.01	20.00	20.51	20.00	20.01
EDGE 5 TX 1W	20.01	20.00	20.00	20.00	20.01	20.00	20.00

Tx Channel	Base Average Power (dBm)			Tx Channel	Frame Average Power (dBm)		
	1850.2	1850	1869.8		1850.2	1850	1869.8
Frequency (MHz)	1850.2	1850	1869.8	1850.2	1850	1869.8	1869.8
CDMA1 TX 1W	20.31	20.00	20.49	20.00	20.31	20.00	20.49
CDMA1 TX 1W	20.27	20.47	20.47	20.00	20.27	20.47	20.47
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
EDGE 1 TX 1W	20.41	20.00	20.00	20.00	20.41	20.00	20.00
EDGE 2 TX 1W	20.41	20.00	20.00	20.00	20.41	20.00	20.00
EDGE 3 TX 1W	20.76	20.00	20.04	20.00	20.76	20.00	20.04
EDGE 4 TX 1W	20.51	20.00	20.01	20.00	20.51	20.00	20.01
EDGE 5 TX 1W	20.01	20.00	20.00	20.00	20.01	20.00	20.00

Tx Channel	Base Average Power (dBm)			Tx Channel	Frame Average Power (dBm)		
	1850.2	1850	1869.8		1850.2	1850	1869.8
Frequency (MHz)	1850.2	1850	1869.8	1850.2	1850	1869.8	1869.8
CDMA1 TX 1W	20.31	20.00	20.49	20.00	20.31	20.00	20.49
CDMA1 TX 1W	20.27	20.47	20.47	20.00	20.27	20.47	20.47
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
CDMA1 TX 1W	20.71	20.04	20.01	20.00	20.71	20.04	20.01
EDGE 1 TX 1W	20.41	20.00	20.00	20.00	20.41	20.00	20.00
EDGE 2 TX 1W	20.41	20.00	20.00	20.00	20.41	20.00	20.00
EDGE 3 TX 1W	20.76	20.00	20.04	20.00	20.76	20.00	20.04
EDGE 4 TX 1W	20.51	20.00	20.01	20.00	20.51	20.00	20.01
EDGE 5 TX 1W	20.01	20.00	20.00	20.00	20.01	20.00	20.00



GSM450 Airt 1		Ratet Average Power (dBm)			Turn-up		Power Average Power (dBm)			Turn-up	
TX Channel		128	160	201	Limit		128	160	201	Limit	
Frequency (MHz)		834.2	836.4	840.8	(dBm)		834.2	836.4	840.8	(dBm)	
GSM 1 Tx limit		33.53	33.28	33.76	32.00		33.53	33.28	33.76	32.00	
GPRS 1 Tx limit		30.48	30.71	30.73	32.00		31.48	31.71	31.73	33.00	
GPRS 2 Tx limit		27.47	27.65	27.57	29.00		27.47	27.65	27.57	29.00	
GPRS 3 Tx limit		25.52	25.53	25.73	27.00		25.52	25.57	25.67	27.00	
GPRS 4 Tx limit		24.42	24.48	24.73	26.00		24.42	24.48	24.73	26.00	
EDGE 1 Tx limit		24.60	24.00	24.07	25.00		24.60	24.00	24.07	25.00	
EDGE 2 Tx limit		22.01	21.84	22.07	23.00		22.01	21.84	22.07	23.00	
EDGE 3 Tx limit		19.80	19.34	19.27	21.00		19.80	19.34	19.27	21.00	
EDGE 4 Tx limit		18.35	18.34	18.47	19.00		18.35	18.34	18.47	19.00	

Band		WCDMA V Airt 1			Turn-up	
TX Channel		4152	4182	4233	Limit	
Frequency (MHz)		836.4	836.4	840.8	(dBm)	
SCPP Rel99		AMR 12.2Kbps	23.65	23.67	25.00	
SCPP Rel99		AMR 12.2Kbps	23.65	23.67	25.00	
SCPP Rel6		HSDPA Subclass-1	22.77	22.76	24.00	
SCPP Rel6		HSDPA Subclass-2	22.77	22.69	24.00	
SCPP Rel6		HSDPA Subclass-3	22.77	22.69	24.00	
SCPP Rel6		HSDPA Subclass-4	22.26	22.50	23.00	
SCPP Rel6		HSDPA Subclass-5	22.64	22.35	24.00	
SCPP Rel6		HSPA Subclass-2	20.98	20.75	22.00	
SCPP Rel6		HSPA Subclass-3	21.76	21.68	23.00	
SCPP Rel6		HSPA Subclass-4	20.60	20.72	22.00	
SCPP Rel6		HSPA Subclass-5	20.75	20.66	24.00	



DSO&DS5&DS1	DSO&DS5
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Band 7 Ant 6 DS13&DS15 For ENDC									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Total up limit (dBm)	MPE (dB)	
Channel				2065.0	2110.0	2137.5			
Frequency (MHz)				2010	2030	2050			
20	QPSK	1	0	20.89	21.08	21.00	22.5	0	
20	QPSK	1	49	20.71	20.91	20.82			
20	QPSK	1	99	20.84	21.01	20.87			
20	QPSK	50	0	20.84	21.04	20.84	22.5	0	
20	QPSK	50	24	20.86	21.02	20.86			
20	QPSK	50	50	20.77	20.93	20.86			
20	QPSK	100	0	20.74	21.01	20.82	22.5	0	
20	16QAM	1	0	20.81	20.90	20.82			
20	16QAM	1	49	20.86	21.03	20.84			
20	16QAM	1	99	20.80	20.97	20.89	22	0.5	
20	16QAM	50	0	20.19	20.97	20.12			
20	16QAM	50	24	20.19	20.28	20.12			
20	16QAM	50	50	20.24	20.29	20.16	22	0.5	
20	16QAM	100	0	20.12	20.25	20.08			
20	16QAM	1	0	20.17	20.27	20.10			
20	16QAM	1	49	20.69	20.24	20.26	21	1.5	
20	16QAM	1	99	20.07	20.24	20.25			
20	16QAM	50	0	19.23	19.41	19.23			
20	16QAM	50	24	19.33	19.23	19.20	19	3.5	
20	16QAM	50	50	19.29	19.29	19.31			
20	16QAM	100	0	19.38	19.23	19.26			
20	256QAM	1	0	17.35	17.35	17.24	19	3.5	
20	256QAM	1	49	17.38	17.35	17.31			
20	256QAM	1	99	17.29	17.30	17.34			
20	256QAM	50	0	17.41	17.25	17.28	19	3.5	
20	256QAM	50	24	17.26	17.43	17.43			
20	256QAM	50	50	17.42	17.41	17.33			
20	256QAM	100	0	17.23	17.37	17.33			
Channel				2065.5	2110.0	2137.5			
Frequency (MHz)				2007.5	2035	2062.5			
15	QPSK	1	0	20.81	20.91	20.86	22.5	0	
15	QPSK	1	37	20.68	20.78	20.66			
15	QPSK	1	74	20.75	20.91	20.83			
15	QPSK	36	0	20.78	21.03	20.69	22.5	0	
15	QPSK	36	20	20.69	20.88	20.69			
15	QPSK	36	36	20.75	20.89	20.89			
15	QPSK	75	0	20.64	20.89	20.76	22.5	0	
15	16QAM	1	0	20.71	20.88	20.82			
15	16QAM	1	37	20.78	20.94	20.71			
15	16QAM	1	74	20.68	20.95	20.89	22	0.5	
15	16QAM	36	0	20.02	20.22	20.31			
15	16QAM	36	20	20.18	20.22	20.67			
15	16QAM	36	36	20.08	20.12	20.21	22	0.5	
15	16QAM	75	0	20.19	20.03	20.20			
15	16QAM	1	0	20.10	20.09	20.08			
15	16QAM	1	37	20.20	20.16	20.07	21	1.5	
15	16QAM	1	74	20.09	20.17	20.05			
15	16QAM	36	0	19.37	19.34	19.23			
15	16QAM	36	20	19.08	19.14	19.23	19	3.5	
15	16QAM	36	36	19.13	19.11	19.23			
15	16QAM	75	0	19.06	19.04	19.21			
15	256QAM	1	0	17.40	17.52	17.39	19	3.5	
15	256QAM	1	37	17.36	17.17	17.18			
15	256QAM	1	74	17.24	17.20	17.31			
15	256QAM	36	0	17.21	17.21	17.21	19	3.5	
15	256QAM	36	20	17.42	17.40	17.44			
15	256QAM	36	36	17.31	17.41	17.37			
15	256QAM	75	0	17.26	17.21	17.34			
Channel				2080.0	2110.0	2148.0			
Frequency (MHz)				2055	2035	2055			
10	QPSK	1	0	20.74	21.03	20.87	22.5	0	
10	QPSK	1	25	20.64	20.89	20.78			
10	QPSK	1	49	20.72	20.85	20.88			
10	QPSK	25	0	20.66	20.94	20.83	22.5	0	
10	QPSK	25	12	20.77	21.01	20.82			
10	QPSK	25	25	20.82	20.80	20.88			
10	QPSK	50	0	20.71	20.91	20.73	22.5	0	
10	16QAM	1	0	20.69	20.81	20.50			
10	16QAM	1	25	20.73	20.97	20.74			
10	16QAM	1	49	20.83	20.91	20.75	22	0.5	
10	16QAM	25	0	20.09	20.20	20.08			
10	16QAM	25	12	20.21	20.08	20.14			
10	16QAM	25	25	20.26	20.19	20.16	22	0.5	
10	16QAM	50	0	20.21	20.12	20.12			
10	16QAM	1	0	20.24	20.10	20.12			
10	16QAM	1	25	20.13	20.04	20.05	21	1.5	
10	16QAM	1	49	20.18	20.09	20.13			
10	16QAM	25	0	19.25	19.43	19.41			
10	16QAM	25	12	19.05	19.13	19.11	19	3.5	
10	16QAM	25	25	19.30	19.27	19.29			
10	16QAM	50	0	19.10	19.17	19.25			
10	256QAM	1	0	17.24	17.22	17.25	19	3.5	
10	256QAM	1	25	17.23	17.28	17.23			
10	256QAM	1	49	17.26	17.09	17.26			
10	256QAM	25	0	17.23	17.03	17.16	19	3.5	
10	256QAM	25	12	17.27	17.42	17.38			
10	256QAM	25	25	17.27	17.21	17.22			
10	256QAM	50	0	17.26	17.24	17.32			
Channel				2077.5	2110.0	2148.5			
Frequency (MHz)				2052.5	2035	2057.5			
5	QPSK	1	0	20.78	21.03	20.70	22.5	0	
5	QPSK	1	12	20.55	20.89	20.70			
5	QPSK	1	24	20.72	20.99	20.81			
5	QPSK	12	0	20.79	21.02	20.76	22.5	0	
5	QPSK	12	7	20.82	20.93	20.77			
5	QPSK	12	13	20.71	20.88	20.79			
5	QPSK	25	0	20.59	20.87	20.77	22.5	0	
5	16QAM	1	0	20.74	20.73	20.86			
5	16QAM	1	12	20.71	20.88	20.73			
5	16QAM	1	24	20.73	20.96	20.72	22	0.5	
5	16QAM	12	0	20.02	20.06	20.09			
5	16QAM	12	7	20.19	20.06	20.22			
5	16QAM	12	13	20.09	20.15	20.16	21	1.5	
5	16QAM	12	13	19.27	19.29	19.11			
5	16QAM	25	0	19.03	19.03	19.02			
5	256QAM	1	0	17.40	17.41	17.33	19	3.5	
5	256QAM	1	12	17.14	17.31	17.37			
5	256QAM	1	24	17.11	17.27	17.23			
5	256QAM	12	0	17.25	17.18	17.14	19	3.5	
5	256QAM	12	7	17.23	17.35	17.24			
5	256QAM	12	13	17.21	17.20	17.46			
5	256QAM	25	0	17.37	17.32	17.17			

DL CA Power

2CA DL																			
CA List	PCC										SCC					Power			
	LTE	BW	BW	UL	UL	UL#	UL	UL#	UL	DL Antenna Configuratio	LTE	BW	DL	DL	DL Antenna Configuratio	With CA		Without CA	
	Band	Ant	Freq. (MHz)	Channel	Mod.	RB	RB Offset	RB	RB Offset	n	Band	(MHz)	Freq. (MHz)	Channel	n	Tx. Power (dBm)	Tx. Power (dBm)	Tx. Power (dBm)	Tx. Power (dBm)
CA_2C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	0	4x4MIMO	Band 2	20M	1880	1098	4x4MIMO	23.05	23.19		
CA_2A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.99	23.19		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.95	23.18		
CA_2A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	0	4x4MIMO	Band 12	10M	737.5	5095		23.10	23.19		
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	0		Band 2	20M	1960	900	4x4MIMO	23.64	23.73		
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0	0		Band 2	20M	1960	900	4x4MIMO	22.76	22.95		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	0	4x4MIMO	Band 13	10M	751	5230		22.94	23.18		
CA_2A-13A	Band 13	Ant0	10M	782	23230	QPSK	1	0	0		Band 2	20M	1960	900	4x4MIMO	23.46	23.61		
	Band 13	Ant1	10M	782	23230	QPSK	1	0	0		Band 2	20M	1960	900	4x4MIMO	22.58	22.76		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.01	23.18		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.48	22.61		
CA_4A-7A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.14	22.33		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.30	22.45		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	21.16	21.36		
	Band 4	Ant0	10M	1732.5	20175	QPSK	1	0	0	4x4MIMO	Band 17	10M	740	5790		23.07	23.18		
CA_4A-17A	Band 17	Ant0	10M	710	23790	QPSK	1	0	0		Band 4	10M	2133	2175	4x4MIMO	23.43	23.64		
	Band 17	Ant1	10M	710	23790	QPSK	1	0	0		Band 4	10M	2133	2175	4x4MIMO	22.64	22.81		
CA_5B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	0		Band 5	5M	888.7	2597		23.58	23.62		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	0		Band 5	5M	888.7	2597		22.88	23.18		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	0		Band 7	20M	2655	3100	4x4MIMO	23.44	23.62		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	0		Band 7	20M	2655	3100	4x4MIMO	22.95	23.18		
CA_5A-7A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 5	10M	881.5	2525		22.46	22.61		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 5	10M	881.5	2525		22.16	22.33		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 5	10M	881.5	2525		22.33	22.45		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 5	10M	881.5	2525		21.33	21.36		
CA_5A-38A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	0		Band 38	20M	2595	38000	4x4MIMO	23.57	23.62		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	0		Band 38	20M	2595	38000	4x4MIMO	22.94	23.18		
	Band 38	Ant0	20M	2595	38000	QPSK	1	0	0	4x4MIMO	Band 5	10M	881.5	2525		22.63	22.87		
	Band 38	Ant0	20M	2595	38000	QPSK	1	0	0	4x4MIMO	Band 5	10M	881.5	2525		22.58	22.66		
	Band 38	Ant0	20M	2595	38000	QPSK	1	0	0	4x4MIMO	Band 5	10M	881.5	2525		22.28	22.35		
	Band 38	Ant1	20M	2595	38000	QPSK	1	0	0	4x4MIMO	Band 5	10M	881.5	2525		21.58	21.66		
CA_7C	Band 7	Ant0	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.56	22.61		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.10	22.33		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.35	22.45		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	21.25	21.36		
CA_12B	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	0		Band 12	5M	743.5	5155		23.55	23.73		
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0	0		Band 12	5M	743.5	5155		22.70	22.95		
	Band 38	Ant0	20M	2580	37850	QPSK	1	0	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	22.65	22.87		
	Band 38	Ant0	20M	2580	37850	QPSK	1	0	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	22.60	22.66		
CA_38C	Band 38	Ant0	20M	2580	37850	QPSK	1	0	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	22.20	22.35		
	Band 38	Ant1	20M	2580	37850	QPSK	1	0	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	21.58	21.66		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.87	22.95		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.53	22.71		
CA_41C	Band 41	Ant0	20M	2593	40620	QPSK	1	0	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.35	22.59		
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	21.60	21.70		
CA_48C	Band 48	Ant0	20M	3609	55830	QPSK	1	0	0		Band 48	20M	3629	56028		23.57	23.62		
	Band 48	Ant1	20M	3609	55830	QPSK	1	0	0		Band 48	20M	3609	55830		23.01	23.20		
CA_48A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	0	4x4MIMO	Band 48	20M	3609	55830		23.01	23.20		
CA_98B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	0	4x4MIMO	Band 66	5M	2164	66979	4x4MIMO	23.12	23.20		
CA_98C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	0	4x4MIMO	Band 66	20M	2175	67064	4x4MIMO	22.96	23.20		

3CA DL

3CA List	PCC									SCC1					SCC2				Power		
	LTE	BW	BW	UL	UL		ULF	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-5A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.06	23.19
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.47	23.62
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.05	23.18
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.06	23.20
CA_2A-7A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.12	23.19
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.07	23.20
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.44	22.61
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.30	22.33
	Band 7	Ant6	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.34	22.45
	Band 7	Ant7	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.15	21.36
	Band 7	Ant7	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.15	21.36



Full Power

n2 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				370000	38000	39000	24.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	23.10	23.22	23.15		
20	PI2 BPSK	1	53	23.04	23.17	23.12		
20	PI2 BPSK	1	104	23.04	23.13	23.04		
20	PI2 BPSK	50	0	22.58	22.70	22.66	23.5	0.5
20	PI2 BPSK	50	28	23.10	23.16	23.05	24.0	0.0
20	PI2 BPSK	50	56	22.47	22.62	22.54	23.5	0.5
20	PI2 BPSK	100	0	22.61	22.65	22.56		
20	QPSK	1	1	23.20	23.26	23.23		
20	QPSK	1	53	23.19	23.24	23.13		
20	QPSK	1	104	23.06	23.20	23.14		
20	QPSK	50	0	22.20	22.31	22.27	23.0	1.0
20	QPSK	50	28	23.10	23.22	23.12	24.0	0.0
20	QPSK	50	56	22.19	22.22	22.10	23.0	1.0
20	QPSK	100	0	22.23	22.27	22.17		
20	16QAM	1	1	22.23	22.31	22.19	23.0	1.0
20	64QAM	1	1	20.68	20.61	20.76	21.5	2.5
20	256QAM	1	1	18.75	18.66	18.74	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1872.5	1860	1902.5	(dBm)	(dB)
15	QPSK	1	1	23.14	23.21	23.12	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1860	1905	(dBm)	(dB)
10	QPSK	1	1	23.14	23.18	23.18	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5	(dBm)	(dB)
5	QPSK	1	1	23.05	23.25	23.12	24.0	0.0

n5 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	840		
20	PI2 BPSK	1	1	22.92	22.92	22.90		
20	PI2 BPSK	1	53	22.91	22.97	22.92		
20	PI2 BPSK	1	104	22.86	22.93	22.79	23.5	0.5
20	PI2 BPSK	50	0	22.41	22.49	22.42		
20	PI2 BPSK	50	28	22.86	22.96	22.82		
20	PI2 BPSK	50	56	22.30	22.36	22.30		
20	PI2 BPSK	100	0	22.29	22.39	22.27	24.0	0.0
20	QPSK	1	1	23.03	23.08	23.00		
20	QPSK	1	53	22.91	23.04	22.90		
20	QPSK	1	104	22.92	23.00	22.95		
20	QPSK	50	0	21.95	22.01	21.87	23.0	1.0
20	QPSK	50	28	22.94	23.02	22.94	24.0	0.0
20	QPSK	50	56	21.79	21.92	21.84	23.0	1.0
20	QPSK	100	0	21.85	21.97	21.90	23.0	1.0
20	16QAM	1	1	22.03	22.13	22.08		
20	64QAM	1	1	20.59	20.67	20.59		
20	256QAM	1	1	18.66	18.72	18.68		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.91	23.01	22.86	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.90	22.94	22.86	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR
Frequency (MHz)				826.5	836.5	844.5	(dBm)	(dB)
5	QPSK	1	1	22.91	22.95	22.94	24.0	0.0

n12 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700	24.0	0.0
Frequency (MHz)				704.5	707.5	710.5		
15	PI2 BPSK	1	1	22.39	22.45	22.33		
15	PI2 BPSK	1	40	22.25	22.38	22.33		
15	PI2 BPSK	1	77	22.32	22.41	22.27	23.5	0.5
15	PI2 BPSK	36	0	21.78	21.84	21.72		
15	PI2 BPSK	36	22	22.26	22.39	22.24		
15	PI2 BPSK	36	43	21.75	21.83	21.78		
15	PI2 BPSK	75	0	21.99	21.81	21.67	24.0	0.0
15	QPSK	1	1	22.32	22.47	22.36		
15	QPSK	1	40	22.23	22.35	22.28		
15	QPSK	1	77	22.36	22.43	22.36		
15	QPSK	36	0	21.24	21.35	21.22	23.0	1.0
15	QPSK	36	22	22.31	22.42	22.28	24.0	0.0
15	QPSK	36	43	21.25	21.31	21.17	23.0	1.0
15	QPSK	75	0	21.28	21.39	21.25		
15	16QAM	1	1	21.43	21.56	21.43		
15	64QAM	1	1	19.87	20.00	19.89		
15	256QAM	1	1	17.99	18.04	17.93	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.14	22.21	22.13	24.0	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	22.11	22.25	22.13	24.0	0.0

n14 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158100	158600			
Frequency (MHz)				733				
10	PI2 BPSK	1	1	22.93			24.0	0.0
10	PI2 BPSK	1	26	22.91				
10	PI2 BPSK	1	50	22.85				
10	PI2 BPSK	25	0	22.26			23.5	0.5
10	PI2 BPSK	25	14	22.95			24.0	0.0
10	PI2 BPSK	25	27	22.26			23.5	0.5
10	PI2 BPSK	50	0	22.18				
10	QPSK	1	1	23.01				
10	QPSK	1	26	22.91			24.0	0.0
10	QPSK	1	50	22.84				
10	QPSK	25	0	21.90			23.0	1.0
10	QPSK	25	14	22.95			24.0	0.0
10	QPSK	25	27	21.80			23.0	1.0
10	QPSK	50	0	21.95				
10	16QAM	1	1	21.84			23.0	1.0
10	64QAM	1	1	20.44			21.5	2.5
10	256QAM	1	1	18.32			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				730.5	733	735.5		
5	QPSK	1	1	22.93	22.99	22.86	24.0	0.0

n66 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				343000	343000	343000		
Frequency (MHz)				1720	1725	1730		
20	PI2 BPSK	1	1	22.49	22.59	22.44	24.0	0.0
20	PI2 BPSK	1	53	22.48	22.53	22.46		
20	PI2 BPSK	1	104	22.35	22.49	22.42		
20	PI2 BPSK	50	0	21.85	21.98	21.84	23.5	0.5
20	PI2 BPSK	50	28	22.39	22.52	22.39	24.0	0.0
20	PI2 BPSK	50	56	21.78	21.95	21.80	23.5	0.5
20	PI2 BPSK	100	0	21.83	21.77	21.93		
20	QPSK	1	1	22.55	22.64	22.51		
20	QPSK	1	53	22.46	22.60	22.52	24.0	0.0
20	QPSK	1	104	22.46	22.56	22.53		
20	QPSK	50	0	21.45	21.58	21.52	23.0	1.0
20	QPSK	50	28	22.54	22.59	22.47	24.0	0.0
20	QPSK	50	56	21.37	21.46	21.32	23.0	1.0
20	QPSK	100	0	21.47	21.51	21.43		
20	16QAM	1	1	21.51	21.58	21.48	23.0	1.0
20	64QAM	1	1	20.13	20.16	20.04	21.5	2.5
20	256QAM	1	1	17.84	18.12	18.01	19.5	4.5
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.46	22.52	22.39	24.0	0.0
Channel				345000	350000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.50	22.58	22.38	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.45	22.56	22.45	24.0	0.0

n5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	838.5	839			
20	PI2 BPSK	1	1	22.34	22.40	22.33	24.0	0.0	
20	PI2 BPSK	1	53	22.28	22.35	22.28			
20	PI2 BPSK	1	104	22.18	22.31	22.26			
20	PI2 BPSK	50	0	21.62	21.76	21.65		23.5	
20	PI2 BPSK	50	28	22.19	22.34	22.25	24.0	0.0	
20	PI2 BPSK	50	56	21.61	21.68	21.64	23.5	0.5	
20	PI2 BPSK	100	0	21.62	21.69	21.59	24.0	0.0	
20	QPSK	1	1	22.36	22.46	22.39			
20	QPSK	1	53	22.31	22.42	22.37			
20	QPSK	1	104	22.28	22.38	22.32			
20	QPSK	50	0	21.29	21.39	21.28	23.0	1.0	
20	QPSK	50	28	22.27	22.40	22.27	24.0	0.0	
20	QPSK	50	56	21.13	21.26	21.13	23.0	1.0	
20	QPSK	100	0	21.24	21.31	21.25	23.0	1.0	
20	16QAM	1	1	21.40	21.51	21.48			
20	64QAM	1	1	19.92	19.96	19.82			
20	256QAM	1	1	17.91	17.95	17.81		19.5	
Channel				165800	167300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	838.5	841.5	24.0 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	22.28	22.35	22.30	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	24.0 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	22.31	22.39	22.32	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.0 <td colspan="2">0.0</td>	0.0	
5	QPSK	1	1	22.23	22.40	22.32	24.0	0.0	

n7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000	24.0	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	22.42	22.57	22.46	24.0	0.0	
20	PI/2 BPSK	1	53	22.42	22.52	22.44			
20	PI/2 BPSK	1	104	22.41	22.48	22.36		23.5	
20	PI/2 BPSK	50	0	21.77	21.87	21.77		23.5	
20	PI/2 BPSK	50	28	22.40	22.51	22.43	24.0	0.0	
20	PI/2 BPSK	50	56	21.72	21.76	21.65	23.5	0.5	
20	PI/2 BPSK	100	0	21.66	21.79	21.71	24.0	0.0	
20	QPSK	1	1	22.57	22.63	22.51			
20	QPSK	1	53	22.45	22.59	22.55			
20	QPSK	1	104	22.46	22.55	22.45			
20	QPSK	50	0	21.36	21.49	21.45	23.0	1.0	
20	QPSK	50	28	22.42	22.57	22.51	24.0	0.0	
20	QPSK	50	56	21.26	21.36	21.30	23.0	1.0	
20	QPSK	100	0	21.25	21.41	21.32	23.0	1.0	
20	16QAM	1	1	21.48	21.52	21.39			
20	64QAM	1	1	19.92	20.05	20.01		21.5	
20	256QAM	1	1	17.89	17.95	17.84		19.5	
Channel				507000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.0 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	22.51	22.53	22.43	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.0 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	22.40	22.54	22.44	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.0 <td colspan="2">0.0</td>	0.0	
5	QPSK	1	1	22.45	22.54	22.44	24.0	0.0	

n12 Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				141300	141500	141700	24.0	0.0			
Frequency (MHz)				706.5	707.5	708.5					
15	PI2 BPSK	1	1	22.88	22.95	22.86	24.0	0.0			
15	PI2 BPSK	1	40	22.76	22.88	22.79					
15	PI2 BPSK	1	77	22.77	22.91	22.84	23.5	0.5			
15	PI2 BPSK	36	0	22.23	22.33	22.27					
15	PI2 BPSK	36	22	22.76	22.81	22.73	24.0	0.0			
15	PI2 BPSK	36	43	22.19	22.31	22.17		23.5			
15	PI2 BPSK	75	0	22.30	22.39	22.25	24.0	0.0			
15	QPSK	1	1	22.90	22.98	22.89					
15	QPSK	1	40	22.77	22.87	22.82	24.0	0.0			
15	QPSK	1	77	22.83	22.91	22.79					
15	QPSK	36	0	21.79	21.88	21.76	23.0	1.0			
15	QPSK	36	22	22.89	22.84	22.72					
15	QPSK	36	43	21.73	21.85	21.77	23.0	1.0			
15	QPSK	75	0	21.73	21.87	21.81					
15	16QAM	1	1	21.96	22.11	22.05	23.0	1.0			
15	64QAM	1	1	20.52	20.59	20.44		21.5			
15	256QAM	1	1	18.43	18.56	18.43	19.5	4.5			
Channel				140300	141500	142700					
Frequency (MHz)				704	707.5	711	Tune-up limit (dBm)				
10	QPSK	1	1	22.27	22.38	22.29	24.0				
Channel				140300	141500	142700	Tune-up limit (dBm)				
Frequency (MHz)				701.5	707.5	713.5	MPR (dB)				
5	QPSK	1	1	22.28	22.38	22.36	24.0				

n14 Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				158100	158300		24.0	0.0			
Frequency (MHz)				793							
10	PI2 BPSK	1	1		22.66		24.0	0.0			
10	PI2 BPSK	1	26		22.62						
10	PI2 BPSK	1	50		22.56		23.5	0.5			
10	PI2 BPSK	25	0		22.11						
10	PI2 BPSK	25	14		22.62		24.0	0.0			
10	PI2 BPSK	25	27		22.09			23.5			
10	PI2 BPSK	50	0		22.07		24.0	0.0			
10	QPSK	1	1		22.69						
10	QPSK	1	26		22.61		23.0	1.0			
10	QPSK	1	50		22.58						
10	QPSK	25	0		21.60		24.0	0.0			
10	QPSK	25	14		22.55			23.0			
10	QPSK	25	27		21.51		23.0	1.0			
10	QPSK	50	0		21.55						
10	16QAM	1	1		21.83		23.0	1.0			
10	64QAM	1	1		20.28			21.5			
10	256QAM	1	1		18.19		19.5	4.5			
Channel				158100	158300	158500					
Frequency (MHz)				790.5	793	795.5	Tune-up limit (dBm)				
5	QPSK	1	1	22.06	22.09	22.13	24.0				



n2 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	23.15	23.22	23.10	24.0	0.0	
20	PI2 BPSK	1	53	23.12	23.17	23.12			
20	PI2 BPSK	1	104	23.06	23.13	23.10			
20	PI2 BPSK	50	0	22.63	22.70	22.59	23.5	0.5	
20	PI2 BPSK	50	28	23.08	23.16	23.04	24.0	0.0	
20	PI2 BPSK	50	56	22.51	22.62	22.56	23.5	0.5	
20	PI2 BPSK	100	0	22.53	22.66	22.51	24.0	0.0	
20	QPSK	1	1	23.19	23.26	23.15			
20	QPSK	1	53	23.17	23.24	23.14			
20	QPSK	1	104	23.07	23.20	23.05	23.0	1.0	
20	QPSK	50	0	22.10	22.21	22.16			
20	QPSK	50	28	23.16	23.22	23.15			
20	QPSK	50	56	21.98	22.13	22.05	23.0	1.0	
20	QPSK	100	0	22.15	22.18	22.10	23.0	1.0	
20	16QAM	1	1	22.12	22.23	22.11			
20	64QAM	1	1	20.70	20.75	20.69	21.5	2.5	
20	256QAM	1	1	18.82	18.87	18.82	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	23.10	23.20	23.06			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	24.0	0.0	
10	QPSK	1	1	23.10	23.17	23.08			
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1907.5	24.0	0.0	
5	QPSK	1	1	23.09	23.16	23.01			

n7 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000	24.0	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	22.64	22.79	22.76	24.0	0.0	
20	PI2 BPSK	1	53	22.59	22.74	22.61			
20	PI2 BPSK	1	104	22.53	22.70	22.66			
20	PI2 BPSK	50	0	21.87	22.01	21.91	23.5	0.5	
20	PI2 BPSK	50	28	22.61	22.73	22.60	24.0	0.0	
20	PI2 BPSK	50	56	21.78	21.92	21.79	23.5	0.5	
20	PI2 BPSK	100	0	21.82	21.95	21.89	24.0	0.0	
20	QPSK	1	1	22.68	22.85	22.83			
20	QPSK	1	53	22.62	22.81	22.67			
20	QPSK	1	104	22.63	22.77	22.69	23.0	1.0	
20	QPSK	50	0	21.57	21.66	21.61			
20	QPSK	50	28	22.61	22.79	22.68			
20	QPSK	50	56	21.40	21.57	21.54	23.0	1.0	
20	QPSK	100	0	21.43	21.62	21.59	23.0	1.0	
20	16QAM	1	1	21.66	21.74	21.61			
20	64QAM	1	1	20.18	20.27	20.16	21.5	2.5	
20	256QAM	1	1	18.02	18.13	18.09	19.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0	
15	QPSK	1	1	22.61	22.75	22.68			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.0	0.0	
10	QPSK	1	1	22.54	22.76	22.72			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0	
5	QPSK	1	1	22.58	22.74	22.69			

n66 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				343500	349000	354500	24.0	0.0	
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	22.81	22.86	22.82	24.0	0.0	
20	PI2 BPSK	1	53	22.68	22.81	22.70			
20	PI2 BPSK	1	104	22.68	22.77	22.71			
20	PI2 BPSK	50	0	22.15	22.27	22.16	23.5	0.5	
20	PI2 BPSK	50	28	22.70	22.80	22.71	24.0	0.0	
20	PI2 BPSK	50	56	22.03	22.18	22.14	23.5	0.5	
20	PI2 BPSK	100	0	22.08	22.21	22.11	24.0	0.0	
20	QPSK	1	1	22.84	22.92	22.86			
20	QPSK	1	53	22.80	22.88	22.77			
20	QPSK	1	104	22.71	22.84	22.71	23.0	1.0	
20	QPSK	50	0	21.70	21.78	21.65			
20	QPSK	50	28	22.73	22.86	22.78			
20	QPSK	50	56	21.56	21.66	21.59	23.0	1.0	
20	QPSK	100	0	21.57	21.71	21.65	23.0	1.0	
20	16QAM	1	1	21.79	21.84	21.70			
20	64QAM	1	1	20.28	20.32	20.26	21.5	2.5	
20	256QAM	1	1	18.35	18.47	18.38	19.5	4.5	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5 <td data-kind="parent" data-rs="2">24.0</td> <td data-cs="2" data-kind="parent" data-rs="2">0.0</td> <td data-kind="ghost"></td>	24.0	0.0	
15	QPSK	1	1	22.77	22.82	22.78	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775 <td data-kind="parent" data-rs="2">24.0</td> <td data-cs="2" data-kind="parent" data-rs="2">0.0</td> <td data-kind="ghost"></td>	24.0	0.0	
10	QPSK	1	1	22.72	22.86	22.74	0.0		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5 <td data-kind="parent" data-rs="2">24.0</td> <td data-cs="2" data-kind="parent" data-rs="2">0.0</td> <td data-kind="ghost"></td>	24.0	0.0	
5	QPSK	1	1	22.72	22.85	22.76	0.0		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				638000	641666	645333	24.0	0.0
Frequency (MHz)				3670	3624.99	3679.98		
40	PI2 BPSK	1	1	22.83	23.00	22.90		
40	PI2 BPSK	1	53	22.79	22.93	22.92		
40	PI2 BPSK	1	164	22.99	22.98	22.97	23.5	0.5
40	PI2 BPSK	50	0	22.16	22.30	22.24		
40	PI2 BPSK	50	28	22.60	22.82	22.78	24.0	0.0
40	PI2 BPSK	50	56	22.22	22.28	22.11		
40	PI2 BPSK	100	0	22.29	22.33	22.31	23.5	0.5
40	QPSK	1	1	22.97	23.08	22.92		
40	QPSK	1	53	22.83	23.02	22.83	24.0	0.0
40	QPSK	1	104	22.84	22.98	22.86		
40	QPSK	50	0	21.77	21.85	21.82	23.0	1.0
40	QPSK	50	28	22.89	22.93	22.85		
40	QPSK	50	56	21.62	21.75	21.64	23.0	1.0
40	QPSK	100	0	21.76	21.82	21.73		
40	16QAM	1	1	22.00	22.08	21.96	23.0	1.0
40	64QAM	1	1	20.58	20.63	20.47		
40	256QAM	1	1	18.38	18.52	18.46	10.5	4.5
Channel				637333	641666	645000	24.0	0.0
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	22.99	22.94	22.91	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.57	22.70	22.63		
100	PI2 BPSK	1	137	22.60	22.70	22.65		
100	PI2 BPSK	1	271	22.52	22.57	22.48	23.5	0.5
100	PI2 BPSK	135	0	22.51	22.64	22.59		
100	PI2 BPSK	135	69	22.63	22.69	22.62	24.0	0.0
100	PI2 BPSK	135	138	22.56	22.61	22.56		
100	PI2 BPSK	270	0	22.51	22.55	22.43	23.5	0.5
100	QPSK	1	1	22.66	22.77	22.66		
100	QPSK	1	137	22.58	22.68	22.58	24.0	0.0
100	QPSK	1	271	22.56	22.69	22.59		
100	QPSK	135	0	22.47	22.60	22.47	23.0	1.0
100	QPSK	135	69	22.65	22.71	22.66		
100	QPSK	135	138	21.66	21.76	21.69	23.0	1.0
100	QPSK	270	0	21.74	21.85	21.75		
100	16QAM	1	1	22.61	22.67	22.55	23.0	1.0
100	64QAM	1	1	21.03	21.16	21.03		
100	256QAM	1	1	19.09	19.12	19.09	19.5	4.5
Channel				643334	650000	656666	24.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.35	22.44	22.42	24.0	0.0
Channel				648668	650000	663334		
Frequency (MHz)				3740.02	3840	3950.01	24.0	0.0
60	QPSK	1	1	22.38	22.45	22.39		
Channel				648000	650000	664000	24.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.38	22.54	22.41	24.0	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.02	3840	3965.01	24.0	0.0
30	QPSK	1	1	22.38	22.49	22.34		
Channel				647334	650000	664668	24.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.34	22.50	22.35	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	27.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.75	25.81	25.68		
100	PI2 BPSK	1	137	25.68	25.74	25.66		
100	PI2 BPSK	1	271	25.60	25.72	25.58	26.5	0.5
100	PI2 BPSK	135	0	25.71	25.75	25.70		
100	PI2 BPSK	135	69	25.66	25.78	25.72	27.0	0.0
100	PI2 BPSK	135	138	25.60	25.64	25.51		
100	PI2 BPSK	270	0	25.64	25.71	25.55	26.5	0.5
100	QPSK	1	1	25.76	25.83	25.73		
100	QPSK	1	137	25.53	25.41	25.39	27.0	0.0
100	QPSK	1	271	25.42	25.48	25.50		
100	QPSK	135	0	24.37	24.41	24.31	26.0	1.0
100	QPSK	135	69	25.47	25.53	25.45		
100	QPSK	135	138	24.33	24.44	24.36	26.0	1.0
100	QPSK	270	0	24.46	24.58	24.56		
100	16QAM	1	1	24.89	24.96	24.92	26.0	1.0
100	64QAM	1	1	23.15	23.20	23.09		
100	256QAM	1	1	21.88	21.98	21.95	22.5	4.5
Channel				648334	650000	662000	27.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.40	25.45	25.35	27.0	0.0
Channel				648668	650000	663334		
Frequency (MHz)				3740.02	3840	3950.01	27.0	0.0
60	QPSK	1	1	25.41	25.49	25.37		
Channel				648000	650000	664000	27.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.44	25.43	25.42	27.0	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.02	3840	3965.01	27.0	0.0
30	QPSK	1	1	25.43	25.52	25.44		
Channel				647334	650000	664668	27.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.41	25.53	25.44	27.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		22.82		24.0	0.0	
100	PI2 BPSK	1	137		22.76				
100	PI2 BPSK	1	271		22.71				
100	PI2 BPSK	135	0		22.54		23.5	0.5	
100	PI2 BPSK	135	69		22.61		24.0	0.0	
100	PI2 BPSK	135	138		22.54		23.5	0.5	
100	PI2 BPSK	270	0		22.44				
100	QPSK	1	1		22.90				
100	QPSK	1	137		22.83		24.0	0.0	
100	QPSK	1	271		22.76				
100	QPSK	135	0		22.49		23.0	1.0	
100	QPSK	135	69		22.65		24.0	0.0	
100	QPSK	135	138		22.44		23.0	1.0	
100	QPSK	270	0		22.54				
100	16QAM	1	1		22.77		23.0	1.0	
100	64QAM	1	1		21.19		21.5	2.5	
100	256QAM	1	1		19.18		19.5	4.5	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		22.57	22.52	22.44	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490	3500.01	3520.02			
60	QPSK	1	1		22.54	22.51	22.45	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		22.57	22.57	22.46	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		22.56	22.55	22.51	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		22.55	22.58	22.51	24.0	0.0

Part27Q n77 HPUE Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		25.90		27.0	0.0	
100	PI2 BPSK	1	137		25.88				
100	PI2 BPSK	1	271		25.94				
100	PI2 BPSK	135	0		25.89		26.5	0.5	
100	PI2 BPSK	135	69		25.95		27.0	0.0	
100	PI2 BPSK	135	138		25.97		26.5	0.5	
100	PI2 BPSK	270	0		25.95				
100	QPSK	1	1		26.02				
100	QPSK	1	137		25.67		27.0	0.0	
100	QPSK	1	271		25.68				
100	QPSK	135	0		24.82		26.0	1.0	
100	QPSK	135	69		25.58		27.0	0.0	
100	QPSK	135	138		24.45		26.0	1.0	
100	QPSK	270	0		24.50				
100	16QAM	1	1		24.61		26.0	1.0	
100	64QAM	1	1		22.85		24.5	2.5	
100	256QAM	1	1		21.39		22.5	4.5	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		25.49	25.75	25.56	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02			
60	QPSK	1	1		25.73	25.70	25.49	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		25.57	25.73	25.69	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		25.59	25.57	25.59	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		25.71	25.59	25.66	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel							24.0	0.0
Frequency (MHz)								
100	PI2 BPSK	1	1		3750			
100	PI2 BPSK	1	137		22.62			
100	PI2 BPSK	1	271		22.60			
100	PI2 BPSK	135	0		22.50		23.5	0.5
100	PI2 BPSK	135	69		22.47		24.0	0.0
100	PI2 BPSK	135	138		22.45		23.5	0.5
100	PI2 BPSK	270	0		22.48			
100	QPSK	1	1		22.69			
100	QPSK	1	137		22.48		24.0	0.0
100	QPSK	1	271		22.23			
100	QPSK	135	0		21.78		23.0	1.0
100	QPSK	135	69		22.65		24.0	0.0
100	QPSK	135	138		21.53		23.0	1.0
100	QPSK	270	0		21.62			
100	16QAM	1	1		22.56		23.0	1.0
100	64QAM	1	1		21.05		21.5	2.5
100	256QAM	1	1		19.11		19.5	4.5
Channel							24.0	0.0
Frequency (MHz)								
90	QPSK	1	1		649668	650000	650334	MPR
Frequency (MHz)								
90	QPSK	1	1		3745.02	3750	3755.01	0.0
Channel							24.0	0.0
Frequency (MHz)								
80	QPSK	1	1		649334	650000	650668	MPR
Frequency (MHz)								
80	QPSK	1	1		3740.01	3750	3760.02	0.0
Channel							24.0	0.0
Frequency (MHz)								
70	QPSK	1	1		648668	650000	651334	MPR
Frequency (MHz)								
70	QPSK	1	1		3735.02	3750	3760.01	0.0
Channel							24.0	0.0
Frequency (MHz)								
60	QPSK	1	1		648334	650000	651668	MPR
Frequency (MHz)								
60	QPSK	1	1		3730.02	3750	3760.01	0.0
Channel							24.0	0.0
Frequency (MHz)								
50	QPSK	1	1		648000	650000	652000	MPR
Frequency (MHz)								
50	QPSK	1	1		3725.01	3750	3775.02	0.0
Channel							24.0	0.0
Frequency (MHz)								
40	QPSK	1	1		647668	650000	652334	MPR
Frequency (MHz)								
40	QPSK	1	1		3715.02	3750	3765.01	0.0
Channel							24.0	0.0
Frequency (MHz)								
30	QPSK	1	1		647334	650000	652668	MPR
Frequency (MHz)								
30	QPSK	1	1		3710.01	3750	3790.02	0.0
Channel							24.0	0.0
Frequency (MHz)								
20	QPSK	1	1		647000	650000	653000	MPR
Frequency (MHz)								
20	QPSK	1	1		3705.00	3750	3800.00	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50200	50700	51200		
Frequency (MHz)				2610	2635	2660		
20	PI2 BPSK	1	1	22.62	22.70	22.64	24.0	0.0
20	PI2 BPSK	1	53	22.61	22.65	22.58		
20	PI2 BPSK	1	104	22.49	22.61	22.49	23.5	0.5
20	PI2 BPSK	50	0	21.93	22.01	21.88		
20	PI2 BPSK	50	28	22.58	22.64	22.51	24.0	0.0
20	PI2 BPSK	50	56	21.86	21.92	21.79	23.5	0.5
20	PI2 BPSK	100	0	21.89	21.95	21.84		
20	QPSK	1	1	22.68	22.76	22.71	24.0	0.0
20	QPSK	1	53	22.58	22.72	22.58		
20	QPSK	1	104	22.57	22.68	22.64	23.0	1.0
20	QPSK	50	0	21.58	21.65	21.61		
20	QPSK	50	28	22.64	22.70	22.64	24.0	0.0
20	QPSK	50	56	21.42	21.49	21.46	23.0	1.0
20	QPSK	100	0	21.43	21.54	21.43		
20	16QAM	1	1	21.50	21.65	21.56	23.0	1.0
20	64QAM	1	1	20.24	20.29	20.19	21.5	2.5
20	256QAM	1	1	18.06	18.09	17.86	19.5	4.5
Channel				50150	50700	51250	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2635	2562.5		
15	QPSK	1	1	22.61	22.69	22.59	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2635	2505		
10	QPSK	1	1	22.59	22.71	22.61	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2635	2567.5		
5	QPSK	1	1	22.55	22.65	22.58	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	24.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	22.45	22.56	22.46		
40	PI2 BPSK	1	53	22.40	22.51	22.45		
40	PI2 BPSK	1	104	22.35	22.47	22.43	23.5	0.5
40	PI2 BPSK	50	0	21.85	21.95	21.83		
40	PI2 BPSK	50	28	22.43	22.50	22.45	24.0	0.0
40	PI2 BPSK	50	56	21.73	21.85	21.77	23.5	0.5
40	PI2 BPSK	100	0	21.77	21.88	21.81		
40	QPSK	1	1	22.58	22.62	22.54	24.0	0.0
40	QPSK	1	53	22.52	22.58	22.50		
40	QPSK	1	104	22.48	22.54	22.44		
40	QPSK	50	0	21.32	21.44	21.32		
40	QPSK	50	28	22.47	22.56	22.52	24.0	0.0
40	QPSK	50	56	21.22	21.34	21.26	23.0	1.0
40	QPSK	100	0	21.25	21.35	21.36		
40	16QAM	1	1	21.40	21.52	21.48	23.0	1.0
40	64QAM	1	1	20.16	20.23	20.15	21.5	2.5
40	256QAM	1	1	18.14	18.24	18.19	19.5	4.5
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR
30	QPSK	1	1	22.43	22.57	22.39	24.0	0.0
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR
20	QPSK	1	1	22.49	22.55	22.39	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505002	518598	529500	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.46	22.50	22.28		
100	PI2 BPSK	1	137	22.42	22.48	22.16		
100	PI2 BPSK	1	271	22.49	22.55	22.30	23.5	0.5
100	PI2 BPSK	135	0	22.06	22.16	21.89		
100	PI2 BPSK	135	69	22.47	22.45	22.29	24.0	0.0
100	PI2 BPSK	135	138	22.20	22.06	21.88	23.5	0.5
100	PI2 BPSK	270	0	22.20	22.16	21.78		
100	QPSK	1	1	22.58	22.67	22.37	24.0	0.0
100	QPSK	1	137	22.66	22.51	22.10		
100	QPSK	1	271	22.42	22.07	22.30		
100	QPSK	135	0	21.53	21.67	21.40		
100	QPSK	135	69	22.30	22.53	22.40	24.0	0.0
100	QPSK	135	138	21.69	21.62	21.45	23.0	1.0
100	QPSK	270	0	21.70	21.72	21.66		
100	16QAM	1	1	21.48	21.73	21.26	23.0	1.0
100	64QAM	1	1	20.09	20.28	19.84	21.5	2.5
100	256QAM	1	1	17.99	18.20	17.89	19.5	4.5
Channel				504204	518598	529502	Tune-up limit (dBm)	MPR
90	QPSK	1	1	22.26	22.20	22.26	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	22.13	22.33	22.31	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	22.25	22.25	22.03	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	22.32	22.27	22.26	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	22.16	22.35	22.27	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	22.29	22.40	22.14	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	22.16	22.33	22.30	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	22.29	22.27	22.13	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505002	518598	529500	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	24.03	24.54	24.30		
100	PI2 BPSK	1	137	24.04	24.54	24.37		
100	PI2 BPSK	1	271	24.48	24.57	24.48	25.5	0.5
100	PI2 BPSK	135	0	24.18	24.22	23.88		
100	PI2 BPSK	135	69	24.46	24.61	24.28	26.0	0.0
100	PI2 BPSK	135	138	24.29	24.06	24.09	25.5	0.5
100	PI2 BPSK	270	0	24.24	24.10	23.91		
100	QPSK	1	1	24.67	24.68	24.48	26.0	0.0
100	QPSK	1	137	24.66	24.46	24.11		
100	QPSK	1	271	24.53	24.11	24.23		
100	QPSK	135	0	23.84	23.63	23.40		
100	QPSK	135	69	24.39	24.55	24.23	26.0	0.0
100	QPSK	135	138	23.62	23.76	23.40	25.0	1.0
100	QPSK	270	0	23.34	23.57	23.30		
100	16QAM	1	1	23.71	23.62	23.45	25.0	1.0
100	64QAM	1	1	22.13	22.08	21.93	23.5	2.5
100	256QAM	1	1	20.10	20.21	20.03	21.5	4.5
Channel				504204	518598	529502	Tune-up limit (dBm)	MPR
90	QPSK	1	1	24.35	24.27	24.21	26.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	24.31	24.42	24.13	26.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	24.36	24.26	24.13	26.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	24.24	24.22	24.24	26.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	24.31	24.26	24.09	26.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	24.42	24.28	24.15	26.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	24.35	24.41	24.04	26.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	24.37	24.27	24.06	26.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.80	22.88	22.71	23.5	0.5
100	PI2 BPSK	1	137	22.71	22.78	22.64		
100	PI2 BPSK	1	271	22.77	22.80	22.65	24.0	0.0
100	PI2 BPSK	135	0	22.18	22.21	22.18		
100	PI2 BPSK	135	69	22.68	22.67	22.69	23.5	0.5
100	PI2 BPSK	135	138	22.08	22.22	22.18		
100	PI2 BPSK	270	0	22.17	22.35	22.16	24.0	0.0
100	QPSK	1	1	22.92	22.85	22.76		
100	QPSK	1	137	22.70	22.83	22.75	23.0	1.0
100	QPSK	1	271	22.64	22.77	22.70		
100	QPSK	135	0	21.57	21.65	21.55	23.0	1.0
100	QPSK	135	69	22.72	22.89	22.71		
100	QPSK	135	138	21.55	21.63	21.59	23.0	1.0
100	QPSK	270	0	21.58	21.64	21.57		
100	16QAM	1	1	21.65	21.73	21.61	23.0	1.0
100	64QAM	1	1	20.26	20.37	20.23		
100	256QAM	1	1	18.28	18.34	18.23	19.5	4.5
Channel				643334	650000	650000		
Frequency (MHz)				3740.01	3840	3940.02	24.0	0.0
80	PI2 BPSK	1	1	22.71	22.77	22.66		
Channel				648668	656000	663334	24.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	PI2 BPSK	1	1	22.72	22.80	22.68	24.0	0.0
Channel				648000	656000	664000		
Frequency (MHz)				3720	3840	3960	24.0	0.0
40	PI2 BPSK	1	1	22.76	22.78	22.63		
Channel				647668	656000	664334	24.0	0.0
Frequency (MHz)				3715.02	3840	3960.01		
30	PI2 BPSK	1	1	22.70	22.79	22.73	24.0	0.0
Channel				647334	656000	664668		
Frequency (MHz)				3710.01	3840	3970.02	24.0	0.0
20	PI2 BPSK	1	1	22.70	22.82	22.69		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	26.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.45	25.55	25.51	25.5	0.5
100	PI2 BPSK	1	137	25.23	25.29	25.26		
100	PI2 BPSK	1	271	25.17	25.21	25.14	26.0	0.0
100	PI2 BPSK	135	0	24.81	24.84	24.69		
100	PI2 BPSK	135	69	25.25	25.28	25.10	25.5	0.5
100	PI2 BPSK	135	138	24.41	24.63	24.54		
100	PI2 BPSK	270	0	24.52	24.68	24.51	25.0	1.0
100	QPSK	1	1	24.57	24.63	24.48		
100	QPSK	1	137	24.31	24.34	24.22	24.0	2.0
100	QPSK	1	271	24.14	24.27	24.12		
100	QPSK	135	0	23.37	23.47	23.37	25.0	1.0
100	QPSK	135	69	24.17	24.30	24.22		
100	QPSK	135	138	23.14	23.18	23.19	24.0	2.0
100	QPSK	270	0	23.20	23.34	23.21		
100	16QAM	1	1	24.29	24.30	24.14	25.0	1.0
100	64QAM	1	1	22.20	22.33	22.14		
100	256QAM	1	1	20.68	20.88	20.81	21.5	4.5
Channel				643334	650000	650000		
Frequency (MHz)				3740.01	3840	3940.02	26.0	0.0
80	PI2 BPSK	1	1	25.26	25.54	25.45		
Channel				648668	656000	663334	26.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	PI2 BPSK	1	1	25.28	25.45	25.32	26.0	0.0
Channel				648000	656000	664000		
Frequency (MHz)				3720	3840	3960	26.0	0.0
40	PI2 BPSK	1	1	25.44	25.38	25.42		
Channel				647668	656000	664334	26.0	0.0
Frequency (MHz)				3715.02	3840	3960.01		
30	PI2 BPSK	1	1	25.46	25.41	25.48	26.0	0.0
Channel				647334	656000	664668		
Frequency (MHz)				3710.01	3840	3970.02	26.0	0.0
20	PI2 BPSK	1	1	25.42	25.52	25.47		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		22.57		23.0	1.0
100	PI2 BPSK	1	137		22.44			
100	PI2 BPSK	1	271		22.29		24.0	0.0
100	PI2 BPSK	135	0		21.95			
100	PI2 BPSK	135	69		22.52		23.0	1.0
100	PI2 BPSK	135	138		21.83			
100	PI2 BPSK	270	0		21.88		23.0	1.0
100	QPSK	1	1		21.74			
100	QPSK	1	137		21.43		21.5	2.5
100	QPSK	1	271		21.39			
100	QPSK	135	0		20.55		20.5	3.5
100	QPSK	135	69		22.11			
100	QPSK	135	138		20.40		22.0	2.0
100	QPSK	270	0		20.45			
100	16QAM	1	1		20.83		19.0	5.0
100	64QAM	1	1		19.32			
100	256QAM	1	1		17.89		3500.02	3510
Channel				630868	633334	634000		
Frequency (MHz)				3480.02	3500.01	3510	24.0	0.0
80	PI2 BPSK	1	1	22.26	22.34	22.30		
Channel				632000	633334	634668	24.0	0.0
Frequency (MHz)				3470	3500.01	3520.02		
60	PI2 BPSK	1	1	22.19	22.29	22.10	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0
40	PI2 BPSK	1	1	22.16	22.34	22.13		
Channel				631000	633334	635668	22.25	22.36
Frequency (MHz)				3465	3500.01	3535.02		
30	PI2 BPSK	1	1	22.25	22.36	22.28	24.0	0.0
Channel				630868	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0
20	PI2 BPSK	1	1	22.17	22.29	22.12		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				633334		3500.01					
Frequency (MHz)						3500.01					
100	PI2 BPSK	1	1		22.55		24.0	0.0			
100	PI2 BPSK	1	137		22.39						
100	PI2 BPSK	1	271		22.50						
100	PI2 BPSK	135	0		22.37						
100	PI2 BPSK	135	69		22.42		24.0	0.0			
100	PI2 BPSK	135	138		22.35		23.5	0.5			
100	PI2 BPSK	270	0		22.15						
100	QPSK	1	1		22.32		23.5	0.5			
100	QPSK	1	137		22.34						
100	QPSK	1	271		22.08		22.5	1.5			
100	QPSK	135	0		21.30						
100	QPSK	135	69		22.21		23.5	0.5			
100	QPSK	135	138		21.14		22.5	1.5			
100	QPSK	270	0		21.23						
100	16QAM	1	1		21.70		23.0	1.0			
100	64QAM	1	1		20.21		21.5	2.5			
100	256QAM	1	1		18.71		20.0	4.0			
Channel				633000	633334	633668	Tune-up limit (dBm)				
Frequency (MHz)				3495	3500.01	3505.02	MPR (dB)				
90	PI2 BPSK	1	1	22.30	22.20	22.18	24.0	0.0			
Channel				632668	633334	634000	Tune-up limit (dBm)				
Frequency (MHz)				3490.02	3500.01	3510	MPR (dB)				
80	PI2 BPSK	1	1	22.18	22.27	22.17	24.0	0.0			
Channel				632334	633334	634334	Tune-up limit (dBm)				
Frequency (MHz)				3485.01	3500.01	3515.01	MPR (dB)				
70	PI2 BPSK	1	1	22.15	22.26	22.20	24.0	0.0			
Channel				632000	633334	634668	Tune-up limit (dBm)				
Frequency (MHz)				3480	3500.01	3520.02	MPR (dB)				
60	PI2 BPSK	1	1	22.18	22.20	22.28	24.0	0.0			
Channel				631668	633334	635000	Tune-up limit (dBm)				
Frequency (MHz)				3475.02	3500.01	3505	MPR (dB)				
50	PI2 BPSK	1	1	22.26	22.23	22.24	24.0	0.0			
Channel				631334	633334	635334	Tune-up limit (dBm)				
Frequency (MHz)				3470.01	3500.01	3530.01	MPR (dB)				
40	PI2 BPSK	1	1	22.22	22.27	22.20	24.0	0.0			
Channel				631000	633334	635668	Tune-up limit (dBm)				
Frequency (MHz)				3465	3500.01	3535.02	MPR (dB)				
30	PI2 BPSK	1	1	22.20	22.25	22.16	24.0	0.0			
Channel				630668	633334	636000	Tune-up limit (dBm)				
Frequency (MHz)				3460.02	3500.01	3540	MPR (dB)				
20	PI2 BPSK	1	1	22.31	22.21	22.16	24.0	0.0			

Part27Q n78 HPUE Ant 6											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (db)			
Channel				633334		3500.01					
Frequency (MHz)						3500.01					
100	PI2 BPSK	1	1		24.60		26.0	0.0			
100	PI2 BPSK	1	137		24.49						
100	PI2 BPSK	1	271		24.38						
100	PI2 BPSK	135	0		24.02						
100	PI2 BPSK	135	69		24.46		25.5	0.5			
100	PI2 BPSK	135	138		23.84		25.5	0.5			
100	PI2 BPSK	270	0		23.97						
100	QPSK	1	1		23.66		25.0	1.0			
100	QPSK	1	137		23.70						
100	QPSK	1	271		23.33		24.0	2.0			
100	QPSK	135	0		22.49						
100	QPSK	135	69		23.39		25.0	1.0			
100	QPSK	135	138		22.38		24.0	2.0			
100	QPSK	270	0		22.46						
100	16QAM	1	1		22.76		24.0	2.0			
100	64QAM	1	1		21.62		23.0	3.0			
100	256QAM	1	1		19.81		21.0	5.0			
Channel				633000	633334	633668	Tune-up limit (dBm)				
Frequency (MHz)				3495	3500.01	3505.02	MPR (db)				
90	PI2 BPSK	1	1	24.42	24.33	24.41	26.0	0.0			
Channel				632668	633334	634000	Tune-up limit (dBm)				
Frequency (MHz)				3490.02	3500.01	3510	MPR (db)				
80	PI2 BPSK	1	1	24.45	24.40	24.50	26.0	0.0			
Channel				632334	633334	634334	Tune-up limit (dBm)				
Frequency (MHz)				3485.01	3500.01	3515.01	MPR (db)				
70	PI2 BPSK	1	1	24.45	24.32	24.38	26.0	0.0			
Channel				632000	633334	634668	Tune-up limit (dBm)				
Frequency (MHz)				3480	3500.01	3520.02	MPR (db)				
60	PI2 BPSK	1	1	24.41	24.32	24.42	26.0	0.0			
Channel				631668	633334	635000	Tune-up limit (dBm)				
Frequency (MHz)				3475.02	3500.01	3505	MPR (db)				
50	PI2 BPSK	1	1	24.44	24.32	24.39	26.0	0.0			
Channel				631334	633334	635334	Tune-up limit (dBm)				
Frequency (MHz)				3470.01	3500.01	3530.01	MPR (db)				
40	PI2 BPSK	1	1	24.42	24.35	24.52	26.0	0.0			
Channel				631000	633334	635668	Tune-up limit (dBm)				
Frequency (MHz)				3465	3500.01	3535.02	MPR (db)				
30	PI2 BPSK	1	1	24.50	24.27	24.41	26.0	0.0			
Channel				630668	633334	636000	Tune-up limit (dBm)				
Frequency (MHz)				3460.02	3500.01	3540	MPR (db)				
20	PI2 BPSK	1	1	24.46	24.39	24.35	26.0	0.0			

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	21.82	21.93	21.89	23.0	0.0
20	PI2 BPSK	1	53	21.74	21.88	21.73		
20	PI2 BPSK	1	104	21.72	21.84	21.77	22.5	0.5
20	PI2 BPSK	50	0	21.23	21.31	21.23		
20	PI2 BPSK	50	28	21.77	21.87	21.82	23.0	0.0
20	PI2 BPSK	50	56	21.08	21.22	21.13	22.5	0.5
20	PI2 BPSK	100	0	21.10	21.25	21.19		
20	QPSK	1	1	21.91	21.99	21.93	23.0	0.0
20	QPSK	1	53	21.82	21.95	21.90		
20	QPSK	1	104	21.85	21.91	21.81	22.0	1.0
20	QPSK	50	0	20.76	20.81	20.77		
20	QPSK	50	28	21.81	21.93	21.79	23.0	0.0
20	QPSK	50	56	20.53	20.64	20.51	22.0	1.0
20	QPSK	100	0	20.83	20.89	20.82		
20	16QAM	1	1	20.80	20.91	20.83	22.0	1.0
20	64QAM	1	1	19.40	19.47	19.42	20.5	2.5
20	256QAM	1	1	17.19	17.32	17.17	18.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.82	21.92	21.87	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.80	21.89	21.84	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.79	21.82	21.84	23.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645333	23.0	0.0	
Frequency (MHz)				3670	3624.99	3679.98			
40	PV2 BPSK	1	1	22.04	22.12	21.94			
40	PV2 BPSK	1	53	21.88	22.08	22.06	22.5	0.5	
40	PV2 BPSK	1	104	22.09	22.08	22.00			
40	PV2 BPSK	50	0	22.04	22.03	21.90			
40	PV2 BPSK	50	28	21.90	22.08	21.87	23.0	0.0	
40	PV2 BPSK	50	56	21.47	21.58	21.45			
40	PV2 BPSK	100	0	21.85	21.67	21.51			
40	QPSK	1	1	21.09	21.26	21.29	22.5	0.5	
40	QPSK	1	53	21.19	21.22	21.17			
40	QPSK	1	104	21.11	21.12	21.03			
40	QPSK	50	0	20.45	20.55	20.50	21.5	1.5	
40	QPSK	50	28	21.02	21.20	21.14			
40	QPSK	50	56	20.04	20.07	20.06			
40	QPSK	100	0	20.43	20.45	20.23	21.5	1.5	
40	16QAM	1	1	20.36	20.37	20.17			
40	16QAM	1	1	18.68	18.85	18.73		20.0	
40	256QAM	1	1	17.19	17.32	17.30	18.5		4.5
Channel				637334	641666	645333	23.0	0.0	
Frequency (MHz)				3560.01	3624.99	3690			
20	PV2 BPSK	1	1	21.97	22.05	21.73			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000	24.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	22.57	22.65	22.51			
100	PV2 BPSK	1	137	22.52	22.57	22.37	23.5	0.5	
100	PV2 BPSK	1	271	22.47	22.52	22.44			
100	PV2 BPSK	135	0	22.49	22.48	22.48			
100	PV2 BPSK	135	69	22.59	22.61	22.51	24.0	0.0	
100	PV2 BPSK	135	138	22.38	22.42	22.36			
100	PV2 BPSK	270	0	22.40	22.42	22.35			
100	QPSK	1	1	22.62	22.63	22.58	24.0	0.0	
100	QPSK	1	137	22.18	22.18	22.07			
100	QPSK	1	271	22.13	22.14	22.05			
100	QPSK	135	0	21.30	21.38	21.18	23.0	1.0	
100	QPSK	135	69	22.10	22.23	22.13			
100	QPSK	135	138	21.11	21.25	21.14			
100	QPSK	270	0	21.14	21.33	21.27	23.0	1.0	
100	16QAM	1	1	22.13	22.17	22.12			
100	64QAM	1	1	20.60	20.65	20.55		21.5	
100	256QAM	1	1	19.00	19.14	19.15	19.5		4.5
Channel				646334	650000	653666	24.0	0.0	
Frequency (MHz)				3740.01	3840	3940.02			
80	PV2 BPSK	1	1	22.53	22.50	22.27			
Channel				648668	656000	663334	24.0	0.0	
Frequency (MHz)				3720.02	3840	3950.01			
60	PV2 BPSK	1	1	22.61	22.44	22.21			
Channel				648000	656000	664000	24.0	0.0	
Frequency (MHz)				3720	3840	3960			
40	PV2 BPSK	1	1	22.57	22.46	22.41			
Channel				647668	656000	664334	24.0	0.0	
Frequency (MHz)				3715.02	3840	3965.01			
30	PV2 BPSK	1	1	22.53	22.61	22.27			
Channel				647334	656000	664668	24.0	0.0	
Frequency (MHz)				3710.01	3840	3970.02			
20	PV2 BPSK	1	1	22.59	22.54	22.21			

Part270 n77 HPUE Ant 8									
BW [MHz]	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	27.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	25.49	25.59	25.56			
100	PV2 BPSK	1	137	25.37	25.53	25.47	26.5	0.5	
100	PV2 BPSK	1	271	25.34	25.47	25.36			
100	PV2 BPSK	135	0	25.40	25.40	25.36			
100	PV2 BPSK	135	69	25.26	25.42	25.29	27.0	0.0	
100	PV2 BPSK	135	138	24.87	24.97	24.75			
100	PV2 BPSK	270	0	24.88	25.04	24.99			
100	QPSK	1	1	24.54	24.73	24.53	26.0	1.0	
100	QPSK	1	137	24.48	24.52	24.37			
100	QPSK	1	271	24.29	24.37	24.27			
100	QPSK	135	0	23.95	24.00	23.81	25.5	1.5	
100	QPSK	135	69	24.35	24.52	24.40			
100	QPSK	135	138	23.99	23.90	23.60			
100	QPSK	270	0	23.80	23.67	23.63	25.5	1.5	
100	16QAM	1	1	23.83	23.96	23.82			
100	64QAM	1	1	22.35	22.46	22.44		24.0	
100	256QAM	1	1	20.63	20.73	20.66	22.5		4.5
Channel				646334	650000	653666	27.0	0.0	
Frequency (MHz)				3740.01	3840	3940.02			
80	PV2 BPSK	1	1	25.29	25.57	25.49			
Channel				648668	656000	663334	27.0	0.0	
Frequency (MHz)				3720.02	3840	3950.01			
60	PV2 BPSK	1	1	25.31	25.47	25.41			
Channel				648000	656000	664000	27.0	0.0	
Frequency (MHz)				3720	3840	3960			
40	PV2 BPSK	1	1	25.39	25.54	25.52			
Channel				647668	656000	664334	27.0	0.0	
Frequency (MHz)				3715.02	3840	3965.01			
30	PV2 BPSK	1	1	25.41	25.37	25.49			
Channel				647334	656000	664668	27.0	0.0	
Frequency (MHz)				3710.01	3840	3970.02			
20	PV2 BPSK	1	1	25.44	25.50	25.44			



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	PI2 BPSK	1	1		22.96		24.0	0.0	
100	PI2 BPSK	1	137		22.89				
100	PI2 BPSK	1	271		22.83				
100	PI2 BPSK	135	0		22.83				
100	PI2 BPSK	135	69		22.92				
100	PI2 BPSK	135	138		22.85				
100	PI2 BPSK	270	0		22.98		24.0	0.0	
100	QPSK	1	1		22.89		24.0	0.0	
100	QPSK	1	137		22.89				
100	QPSK	1	271		22.81				
100	QPSK	135	0		22.16				
100	QPSK	135	69		22.85		23.0	0.0	
100	QPSK	135	138		22.12		23.0	1.0	
100	QPSK	270	0		22.19				
100	16QAM	1	1		22.77		23.5	0.5	
100	64QAM	1	1		21.18		22.0	2.0	
100	256QAM	1	1		19.52		20.5	3.5	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI2 BPSK	1	1		22.85	22.67	22.53	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490	3500.01	3520.02			
80	PI2 BPSK	1	1		22.56	22.74	22.66	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1		22.77	22.61	22.75	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460	3500.01	3535.02			
30	PI2 BPSK	1	1		22.86	22.69	22.74	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1		22.68	22.72	22.70	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	PI2 BPSK	1	1		25.81		27.0	0.0	
100	PI2 BPSK	1	137		25.60				
100	PI2 BPSK	1	271		25.57				
100	PI2 BPSK	135	0		25.44				
100	PI2 BPSK	135	69		25.45		26.5	0.5	
100	PI2 BPSK	135	138		25.13		26.5	0.5	
100	PI2 BPSK	270	0		25.07				
100	QPSK	1	1		24.79		26.0	1.0	
100	QPSK	1	137		24.69				
100	QPSK	1	271		24.58				
100	QPSK	135	0		24.07				
100	QPSK	135	69		24.73		25.5	1.0	
100	QPSK	135	138		23.65		25.5	1.5	
100	QPSK	270	0		23.69				
100	16QAM	1	1		23.85		25.5	1.5	
100	64QAM	1	1		22.28		24.0	3.0	
100	256QAM	1	1		20.52		22.0	5.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI2 BPSK	1	1		25.58	25.65	25.56	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02			
80	PI2 BPSK	1	1		23.70	25.07	25.07	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1		25.60	25.75	25.74	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460	3500.01	3535.02			
30	PI2 BPSK	1	1		25.75	25.60	25.58	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1		25.63	25.73	25.75	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	3750		24.0	0.0	
Frequency (MHz)									
100	PI2 BPSK	1	1		22.48				
100	PI2 BPSK	1	137		22.45				
100	PI2 BPSK	1	271		22.33		23.5	0.5	
100	PI2 BPSK	135	0		22.17				
100	PI2 BPSK	135	69		22.42		24.0	0.0	
100	PI2 BPSK	135	138		22.08		23.5	0.5	
100	PI2 BPSK	270	0		22.04				
100	QPSK	1	1		21.56		23.0	1.0	
100	QPSK	1	137		21.44				
100	QPSK	1	271		21.41				
100	QPSK	135	0		20.85		22.0	2.0	
100	QPSK	135	69		21.53		23.0	1.0	
100	QPSK	135	138		20.42		22.0	2.0	
100	QPSK	270	0		20.80				
100	16QAM	1	1		20.64		22.0	2.0	
100	64QAM	1	1		19.13		21.0	3.0	
100	256QAM	1	1		17.62		19.0	5.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	PI2 BPSK	1	1		22.38	22.35	22.27	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	PI2 BPSK	1	1		22.22	22.44	22.42	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	PI2 BPSK	1	1		22.38	22.38	22.27	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	PI2 BPSK	1	1		22.42	22.36	22.36	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	PI2 BPSK	1	1		22.21	22.31	22.30	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	PI2 BPSK	1	1		22.29	22.42	22.23	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	PI2 BPSK	1	1		22.34	22.41	22.29	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	PI2 BPSK	1	1		22.40	22.32	22.26	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930		
Frequency (MHz)				650000	659000	662000		
100	PI2 BPSK	1	1	23.34	23.46	23.42	24.0	0.0
100	PI2 BPSK	1	137	23.25	23.17	23.20		
100	PI2 BPSK	1	271	23.05	23.26	23.12		
100	PI2 BPSK	135	0	23.09	23.19	23.09	23.5	0.5
100	PI2 BPSK	135	69	23.18	23.39	23.25	24.0	0.0
100	PI2 BPSK	135	138	22.98	23.16	23.03	23.5	0.5
100	PI2 BPSK	270	0	22.84	22.89	22.82	24.0	0.0
100	QPSK	1	1	22.49	22.65	22.53		
100	QPSK	1	137	22.33	22.27	22.25		
100	QPSK	1	271	22.39	22.46	22.23	23.0	1.0
100	QPSK	135	0	21.58	21.77	21.73		
100	QPSK	135	69	22.29	22.29	22.14		
100	QPSK	135	138	21.26	21.39	21.26	23.0	1.0
100	QPSK	270	0	21.25	21.42	21.31	23.0	1.0
100	16QAM	1	1	21.67	21.89	21.80		
100	64QAM	1	1	20.12	20.19	20.04		
100	256QAM	1	1	18.57	18.71	18.70	19.5	4.5
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3840	3940.02		
80	PI2 BPSK	1	1	23.30	23.39	23.30	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3840	3950.01		
80	PI2 BPSK	1	1	23.33	23.41	23.40	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	23.34	23.37	23.42	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	PI2 BPSK	1	1	23.26	23.40	23.35	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	PI2 BPSK	1	1	23.32	23.45	23.27	24.0	0.0

Part27O n77 HPUE Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930		
Frequency (MHz)				650000	659000	662000		
100	PI2 BPSK	1	1	25.52	25.62	25.58	26.5	0.0
100	PI2 BPSK	1	137	25.21	25.27	25.17		
100	PI2 BPSK	1	271	24.99	25.00	24.83		
100	PI2 BPSK	135	0	24.74	24.91	24.76	26.0	0.5
100	PI2 BPSK	135	69	24.73	24.94	24.77	26.5	0.0
100	PI2 BPSK	135	138	24.53	24.59	24.48	26.0	0.5
100	PI2 BPSK	270	0	24.49	24.51	24.47	25.5	1.0
100	QPSK	1	1	24.58	24.69	24.52		
100	QPSK	1	137	24.17	24.22	24.13		
100	QPSK	1	271	24.10	24.27	24.06	24.5	2.0
100	QPSK	135	0	23.56	23.57	23.38		
100	QPSK	135	69	24.05	24.13	24.08		
100	QPSK	135	138	23.08	23.15	23.11	24.5	2.0
100	QPSK	270	0	23.09	23.21	23.10	24.5	2.0
100	16QAM	1	1	23.05	23.09	23.02		
100	64QAM	1	1	21.51	21.65	21.58		
100	256QAM	1	1	19.54	19.71	19.54	21.5	5.0
Channel				643334	650000	657000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3840	3940.02		
80	PI2 BPSK	1	1	25.40	25.59	25.58	26.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3840	3950.01		
80	PI2 BPSK	1	1	25.43	25.55	25.57	26.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	25.37	25.48	25.38	26.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	PI2 BPSK	1	1	25.41	25.45	25.49	26.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	PI2 BPSK	1	1	25.45	25.53	25.52	26.5	0.0

Part27Q n77 Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3500.01	633334			
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		23.47		24.0	0.0
100	PI2 BPSK	1	137		23.05			
100	PI2 BPSK	1	271		23.06			
100	PI2 BPSK	135	0		23.08		23.5	0.5
100	PI2 BPSK	135	69		23.30		24.0	0.0
100	PI2 BPSK	135	138		23.04		23.5	0.5
100	PI2 BPSK	270	0		22.88		23.0	1.0
100	QPSK	1	1		22.53			
100	QPSK	1	137		22.14			
100	QPSK	1	271		22.28		22.0	2.0
100	QPSK	135	0		21.77			
100	QPSK	135	69		22.29			
100	QPSK	135	138		21.24		22.0	2.0
100	QPSK	270	0		21.31		22.0	2.0
100	16QAM	1	1		21.42			
100	64QAM	1	1		19.88			
100	256QAM	1	1		18.33		19.0	5.0
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	PI2 BPSK	1	1	23.31	23.30	23.22	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490	3500.01	3520.02		
80	PI2 BPSK	1	1	23.21	23.40	23.34	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3479.01	3500.01	3530.01		
40	PI2 BPSK	1	1	23.35	23.37	23.32	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3465	3500.01	3535.02		
30	PI2 BPSK	1	1	23.34	23.42	23.24	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3450.02	3500.01	3540		
20	PI2 BPSK	1	1	23.44	23.36	23.30	24.0	0.0

Part27Q n78 Ant 9										
BW [MHz]	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			24.0	0.0		
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1		22.30					
100	PI2 BPSK	1	137		22.25					
100	PI2 BPSK	1	271		22.16		23.5	0.5		
100	PI2 BPSK	135	0		21.99					
100	PI2 BPSK	135	69		22.21					
100	PI2 BPSK	135	138		21.82					
100	PI2 BPSK	270	0		21.69		23.5	0.5		
100	QPSK	1	1		21.24					
100	QPSK	1	137		21.07					
100	QPSK	1	271		21.04					
100	QPSK	135	0		20.56		22.0	2.0		
100	QPSK	135	69		21.19					
100	QPSK	135	138		20.20					
100	QPSK	270	0		20.38					
100	16QAM	1	1		20.37		22.0	2.0		
100	64QAM	1	1		18.83					
100	256QAM	1	1		17.94					
Channel				633000	633334	633668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	24.0		0.0	
90	PI2 BPSK	1	1		22.17	22.16	22.04	24.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	24.0		0.0	
80	PI2 BPSK	1	1		22.08	22.29	22.09	24.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	24.0		0.0	
70	PI2 BPSK	1	1		22.16	22.12	22.06	24.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	24.0		0.0	
60	PI2 BPSK	1	1		22.17	22.25	22.05	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	24.0		0.0	
50	PI2 BPSK	1	1		22.22	22.19	22.06	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	24.0		0.0	
40	PI2 BPSK	1	1		22.04	22.18	21.97	24.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	24.0		0.0	
30	PI2 BPSK	1	1		22.16	22.26	22.09	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	24.0		0.0	
20	PI2 BPSK	1	1		22.03	22.14	22.21	24.0	0.0	

Part27Q n78 HPUE Ant 9										
BW [MHz]	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			25.0	0.0		
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1		24.07					
100	PI2 BPSK	1	137		23.81					
100	PI2 BPSK	1	271		23.70		25.0	0.5		
100	PI2 BPSK	135	0		23.39					
100	PI2 BPSK	135	69		23.84					
100	PI2 BPSK	135	138		23.47					
100	PI2 BPSK	270	0		23.36		24.5	1.0		
100	QPSK	1	1		23.10					
100	QPSK	1	137		23.05					
100	QPSK	1	271		23.02					
100	QPSK	135	0		22.59		24.0	1.5		
100	QPSK	135	69		23.06					
100	QPSK	135	138		22.16					
100	QPSK	270	0		22.23					
100	16QAM	1	1		22.15		24.0	1.5		
100	64QAM	1	1		20.63					
100	256QAM	1	1		19.13					
Channel				633000	633334	633668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	24.0		0.0	
90	PI2 BPSK	1	1		23.97	23.92	24.01	25.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	24.0		0.0	
80	PI2 BPSK	1	1		24.03	24.01	23.79	25.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	24.0		0.0	
70	PI2 BPSK	1	1		23.86	23.95	23.88	25.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	24.0		0.0	
60	PI2 BPSK	1	1		23.98	23.98	23.79	25.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	24.0		0.0	
50	PI2 BPSK	1	1		23.99	24.02	23.84	25.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	24.0		0.0	
40	PI2 BPSK	1	1		23.87	23.97	23.97	25.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	24.0		0.0	
30	PI2 BPSK	1	1		23.85	23.89	23.89	25.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	24.0		0.0	
20	PI2 BPSK	1	1		24.01	23.99	23.78	25.5	0.0	



Reduced Power Mode for Down Power

n41 Ant 5 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.83	22.14	21.35	23.0	0.0	
100	PI2 BPSK	1	137	21.83	22.17	21.37			
100	PI2 BPSK	1	271	21.78	22.14	21.41			
100	PI2 BPSK	135	0	21.80	22.16	21.40	23.0	0.0	
100	PI2 BPSK	135	69	21.80	22.17	21.37	23.0	0.0	
100	PI2 BPSK	135	138	21.82	22.15	21.36	23.0	0.0	
100	PI2 BPSK	270	0	21.79	22.15	21.41			
100	QPSK	1	1	21.91	22.25	21.48	23.0	0.0	
100	QPSK	1	137	21.82	22.12	21.36			
100	QPSK	1	271	21.97	21.94	22.15			
100	QPSK	135	0	21.43	21.75	21.07	22.5	0.5	
100	QPSK	135	69	21.83	22.17	21.37	23.0	0.0	
100	QPSK	135	138	21.48	21.91	20.93	22.5	0.5	
100	QPSK	270	0	21.94	21.98	21.87	22.5	0.5	
100	16QAM	1	1	21.34	21.86	20.99			
100	64QAM	1	1	19.95	20.25	19.62			
100	256QAM	1	1	17.97	18.42	17.41	19.0	4.0	
Channel				506200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	23.0 <td>0.0</td> <td></td>	0.0	
90	QPSK	1	1	21.82	22.17	21.39	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	23.0 <td>0.0</td> <td></td>	0.0	
80	QPSK	1	1	21.82	22.18	21.37	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	23.0 <td>0.0</td> <td></td>	0.0	
70	QPSK	1	1	21.79	22.15	21.39	23.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.98	23.0 <td>0.0</td> <td></td>	0.0	
60	QPSK	1	1	21.82	22.15	21.36	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2644.99	23.0 <td>0.0</td> <td></td>	0.0	
50	QPSK	1	1	21.80	22.14	21.40	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	23.0 <td>0.0</td> <td></td>	0.0	
40	QPSK	1	1	21.81	22.12	21.40	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	23.0 <td>0.0</td> <td></td>	0.0	
30	QPSK	1	1	21.80	22.17	21.36	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	23.0 <td>0.0</td> <td></td>	0.0	
20	QPSK	1	1	21.79	22.15	21.37	23.0	0.0	

n41 HPUE Ant 5 DS15 ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.81	24.00	23.33	25.0	0.0	
100	PI2 BPSK	1	137	23.78	24.02	23.35			
100	PI2 BPSK	1	271	23.81	23.97	23.34			
100	PI2 BPSK	135	0	23.78	24.00	23.34	25.0	0.0	
100	PI2 BPSK	135	69	23.78	24.00	23.32	25.0	0.0	
100	PI2 BPSK	135	138	23.81	24.02	23.34	25.0	0.0	
100	PI2 BPSK	270	0	23.81	23.98	23.33			
100	QPSK	1	1	23.90	24.10	23.44	25.0	0.0	
100	QPSK	1	137	23.80	24.02	23.36			
100	QPSK	1	271	23.78	24.02	23.33			
100	QPSK	135	0	23.32	23.68	22.88	24.5	0.5	
100	QPSK	135	69	23.93	24.04	23.86	25.0	0.0	
100	QPSK	135	138	23.34	23.40	23.01	24.5	0.5	
100	QPSK	270	0	22.94	23.26	22.83	24.5	0.5	
100	16QAM	1	1	23.53	23.67	23.05			
100	64QAM	1	1	21.94	22.13	21.55			
100	256QAM	1	1	19.95	20.18	19.58	21.0	4.0	
Channel				506200	518598	528996 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541 <td>2592.99</td> <td>2644.98</td> <td>25.0</td> <td>0.0</td> <td></td>	2592.99	2644.98	25.0	0.0	
90	QPSK	1	1	23.78	23.99	23.35	25.0	0.0	
Channel				507204	518598	529998 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02 <td>2592.99</td> <td>2649.99</td> <td>25.0</td> <td>0.0</td> <td></td>	2592.99	2649.99	25.0	0.0	
80	QPSK	1	1	23.77	23.97	23.35	25.0	0.0	
Channel				506202	518598	531000 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01 <td>2592.99</td> <td>2655</td> <td>25.0</td> <td>0.0</td> <td></td>	2592.99	2655	25.0	0.0	
70	QPSK	1	1	23.79	23.99	23.33	25.0	0.0	
Channel				505200	518598	531996 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528 <td>2592.99</td> <td>2659.98</td> <td>25.0</td> <td>0.0</td> <td></td>	2592.99	2659.98	25.0	0.0	
60	QPSK	1	1	23.80	24.00	23.35	25.0	0.0	
Channel				504204	518598	532998 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02 <td>2592.99</td> <td>2644.99</td> <td>25.0</td> <td>0.0</td> <td></td>	2592.99	2644.99	25.0	0.0	
50	QPSK	1	1	23.80	24.03	23.31	25.0	0.0	
Channel				503202	518598	534000 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01 <td>2592.99</td> <td>2670</td> <td>25.0</td> <td>0.0</td> <td></td>	2592.99	2670	25.0	0.0	
40	QPSK	1	1	23.81	23.98	23.35	25.0	0.0	
Channel				502200	518598	534996 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511 <td>2592.99</td> <td>2674.98</td> <td>25.0</td> <td>0.0</td> <td></td>	2592.99	2674.98	25.0	0.0	
30	QPSK	1	1	23.81	24.02	23.32	25.0	0.0	
Channel				501204	518598	535998 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02 <td>2592.99</td> <td>2679.99</td> <td>25.0</td> <td>0.0</td> <td></td>	2592.99	2679.99	25.0	0.0	
20	QPSK	1	1	23.77	24.02	23.34	25.0	0.0	



n48 Part96 Ant 8 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				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PV2 BPSK	1	1	20.57	20.62	20.38	22.0	0.0	
40	PV2 BPSK	1	53	20.46	20.57	20.44			
40	PV2 BPSK	1	104	20.61	20.60	20.37			
40	PV2 BPSK	50	0	20.57	20.51	20.46	22.0	0.0	
40	PV2 BPSK	50	28	20.53	20.59	20.48	22.0	0.0	
40	PV2 BPSK	50	56	20.53	20.55	20.44	22.0	0.0	
40	PV2 BPSK	100	0	20.51	20.58	20.50	22.0	0.0	
40	QPSK	1	1	20.47	20.54	20.39			
40	QPSK	1	53	20.52	20.58	20.46			
40	QPSK	1	104	20.52	20.57	20.42	21.5	0.5	
40	QPSK	50	0	20.45	20.55	20.50			
40	QPSK	50	28	20.58	20.56	20.50			
40	QPSK	50	56	20.04	20.07	20.06	21.5	0.5	
40	QPSK	100	0	20.43	20.45	20.23	21.5	0.5	
40	16QAM	1	1	20.36	20.37	20.17			
40	64QAM	1	1	18.68	18.65	18.73			
40	256QAM	1	1	17.19	17.32	17.30	18.5	3.5	
Channel				637334	641000	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	PV2 BPSK	1	1	20.57	20.58	20.38	22.0	0.0	

n48 Part96 Ant 8 DSI1 For END C									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PV2 BPSK	1	1	17.55	17.66	17.37	19.0	0.0	
40	PV2 BPSK	1	53	17.38	17.49	17.39			
40	PV2 BPSK	1	104	17.62	17.60	17.45			
40	PV2 BPSK	50	0	17.49	17.56	17.50	19.0	0.0	
40	PV2 BPSK	50	28	17.50	17.64	17.48	19.0	0.0	
40	PV2 BPSK	50	56	17.54	17.51	17.51	19.0	0.0	
40	PV2 BPSK	100	0	17.51	17.63	17.48	19.0	0.0	
40	QPSK	1	1	17.38	17.54	17.32			
40	QPSK	1	53	17.31	17.40	17.29			
40	QPSK	1	104	17.47	17.53	17.26	19.0	0.0	
40	QPSK	50	0	17.51	17.39	17.38			
40	QPSK	50	28	17.51	17.42	17.32			
40	QPSK	50	56	17.40	17.41	17.31	19.0	0.0	
40	QPSK	100	0	17.44	17.46	17.34	19.0	0.0	
40	16QAM	1	1	17.41	17.60	17.37			
40	64QAM	1	1	17.37	17.54	17.38			
40	256QAM	1	1	17.19	17.32	17.30	18.5	0.5	
Channel				637334	641000	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	PV2 BPSK	1	1	17.48	17.50	17.42	19.0	0.0	

n48 Part96 Ant 8 DSI2&DSI5 For END C									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PV2 BPSK	1	1	21.53	21.66	21.58	22.5	0.0	
40	PV2 BPSK	1	53	21.45	21.54	21.48			
40	PV2 BPSK	1	104	21.45	21.53	21.45			
40	PV2 BPSK	50	0	21.45	21.54	21.47	22.5	0.0	
40	PV2 BPSK	50	28	21.40	21.55	21.46	22.5	0.0	
40	PV2 BPSK	50	56	21.47	21.50	21.45	22.5	0.0	
40	PV2 BPSK	100	0	21.41	21.54	21.48	22.5	0.0	
40	QPSK	1	1	21.39	21.29	21.29			
40	QPSK	1	53	21.19	21.22	21.17			
40	QPSK	1	104	21.11	21.12	21.03	21.5	1.0	
40	QPSK	50	0	20.45	20.55	20.50			
40	QPSK	50	28	21.02	21.20	21.14			
40	QPSK	50	56	20.04	20.07	20.06	21.5	1.0	
40	QPSK	100	0	20.43	20.45	20.23	21.5	1.0	
40	16QAM	1	1	20.36	20.37	20.17			
40	64QAM	1	1	18.68	18.65	18.73			
40	256QAM	1	1	17.19	17.32	17.30	18.5	4.0	
Channel				637334	641000	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	PV2 BPSK	1	1	19.57	19.58	19.38	22.5	0.0	



Part270 n77 Ant 8 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	660000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	20.08	20.17	20.07	21.5	0.0
100	PI2 BPSK	1	137	20.00	20.13	20.03		
100	PI2 BPSK	1	271	19.99	20.16	19.98	21.5	0.0
100	PI2 BPSK	135	0	20.06	20.09	20.03		
100	PI2 BPSK	135	69	20.07	20.11	19.99	21.5	0.0
100	PI2 BPSK	135	138	20.00	20.05	19.98	21.5	0.0
100	PI2 BPSK	270	0	19.99	20.02	19.96	21.5	0.0
100	QPSK	1	1	20.00	20.16	20.01		
100	QPSK	1	137	19.99	20.12	20.02	21.5	0.0
100	QPSK	1	271	20.05	20.16	20.07		
100	QPSK	135	0	20.07	20.11	19.97	21.5	0.0
100	QPSK	135	69	20.00	20.12	20.03	21.5	0.0
100	QPSK	135	138	20.00	20.06	20.01	21.5	0.0
100	QPSK	270	0	20.00	20.04	20.02		
100	16QAM	1	1	20.04	20.13	20.05	21.5	0.0
100	64QAM	1	1	19.98	20.13	20.05	21.5	0.0
100	256QAM	1	1	19.00	19.14	19.15	19.5	2.0
Channel				649334	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	PI2 BPSK	1	1	19.57	19.64	19.56	21.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01		
60	PI2 BPSK	1	1	19.55	19.62	19.54	21.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	19.54	19.58	19.52	21.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	PI2 BPSK	1	1	19.52	19.63	19.51	21.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	PI2 BPSK	1	1	19.53	19.59	19.48	21.5	0.0

Part270 n77 Ant 8 DSI1 For ENDC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	660000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.82	16.95	16.78	18.5	0.0
100	PI2 BPSK	1	137	16.85	16.81	16.84		
100	PI2 BPSK	1	271	16.77	16.93	16.78	18.5	0.0
100	PI2 BPSK	135	0	16.79	16.76	16.84		
100	PI2 BPSK	135	69	16.86	16.93	16.86	18.5	0.0
100	PI2 BPSK	135	138	16.85	16.85	16.72	18.5	0.0
100	PI2 BPSK	270	0	16.70	16.94	16.68	18.5	0.0
100	QPSK	1	1	16.69	16.81	16.65		
100	QPSK	1	137	16.70	16.79	16.73	18.5	0.0
100	QPSK	1	271	16.82	16.78	16.65		
100	QPSK	135	0	16.73	16.83	16.65	18.5	0.0
100	QPSK	135	69	16.75	16.89	16.68	18.5	0.0
100	QPSK	135	138	16.75	16.87	16.75	18.5	0.0
100	QPSK	270	0	16.82	16.91	16.74		
100	16QAM	1	1	16.84	16.78	16.65	18.5	0.0
100	64QAM	1	1	16.84	16.80	16.76	18.5	0.0
100	256QAM	1	1	16.82	16.80	16.74	18.5	0.0
Channel				649324	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	PI2 BPSK	1	1	16.40	16.40	16.39	18.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01		
60	PI2 BPSK	1	1	16.35	16.50	16.37	18.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	16.38	16.45	16.27	18.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	PI2 BPSK	1	1	16.33	16.52	16.31	18.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	PI2 BPSK	1	1	16.40	16.36	16.33	18.5	0.0

Part270 n77 Ant 8 DSI2&DSI5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	660000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.08	22.12	21.97	23.5	0.0
100	PI2 BPSK	1	137	21.98	22.08	21.83		
100	PI2 BPSK	1	271	21.94	21.98	21.90	23.5	0.0
100	PI2 BPSK	135	0	22.00	22.03	21.93		
100	PI2 BPSK	135	69	22.03	22.06	21.88	23.5	0.0
100	PI2 BPSK	135	138	21.94	22.00	21.92	23.5	0.0
100	PI2 BPSK	270	0	22.00	22.01	21.90	23.5	0.0
100	QPSK	1	1	22.02	22.07	21.83		
100	QPSK	1	137	21.93	22.03	21.85	23.5	0.0
100	QPSK	1	271	21.99	21.97	21.89		
100	QPSK	135	0	21.30	21.38	21.18	23.0	0.5
100	QPSK	135	69	21.92	21.97	21.91	23.5	0.0
100	QPSK	135	138	21.11	21.25	21.14	23.0	0.5
100	QPSK	270	0	21.14	21.33	21.27		
100	16QAM	1	1	22.07	22.11	22.10	23.0	0.5
100	64QAM	1	1	20.60	20.65	20.55	21.5	2.0
100	256QAM	1	1	19.00	19.14	19.15	19.5	4.0
Channel				649334	656000	660000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	PI2 BPSK	1	1	21.01	21.27	21.15	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01		
60	PI2 BPSK	1	1	21.09	21.22	21.21	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	21.02	21.25	21.21	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	PI2 BPSK	1	1	21.07	21.22	21.22	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	PI2 BPSK	1	1	20.98	21.23	21.21	23.5	0.0



Part27Q n77 Ant 8 DS1 For ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334		3500.01		
Frequency (MHz)								
100	PI2 BPSK	1	1		17.16		18.5	0.0
100	PI2 BPSK	1	137		17.14			
100	PI2 BPSK	1	271		16.97		18.5	0.0
100	PI2 BPSK	135	0		17.10			
100	PI2 BPSK	135	69		17.14		18.5	0.0
100	PI2 BPSK	135	138		17.09		18.5	0.0
100	PI2 BPSK	270	0		17.08		18.5	0.0
100	QPSK	1	1		17.03			
100	QPSK	1	137		16.97		18.5	0.0
100	QPSK	1	271		17.14			
100	QPSK	135	0		17.09		18.5	0.0
100	QPSK	135	69		17.07		18.5	0.0
100	QPSK	135	138		17.11		18.5	0.0
100	QPSK	270	0		17.14			
100	16QAM	1	1		16.96		18.5	0.0
100	64QAM	1	1		17.08		18.5	0.0
100	256QAM	1	1		17.01		18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	PI2 BPSK	1	1	16.53	16.53	16.48	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3520.02		
60	PI2 BPSK	1	1	16.62	16.51	16.46	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	PI2 BPSK	1	1	16.61	16.54	16.44	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460	3500.01	3535.02		
30	PI2 BPSK	1	1	16.54	16.50	16.45	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	PI2 BPSK	1	1	16.62	16.53	16.48	18.5	0.0

Part27Q n77 Ant 8 DS1&5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334		3500.01		
Frequency (MHz)								
100	PI2 BPSK	1	1		22.49		23.5	0.0
100	PI2 BPSK	1	137		22.42			
100	PI2 BPSK	1	271		22.41		23.5	0.0
100	PI2 BPSK	135	0		22.37			
100	PI2 BPSK	135	69		22.39		23.5	0.0
100	PI2 BPSK	135	138		22.37		23.5	0.0
100	PI2 BPSK	270	0		22.35		23.5	0.0
100	QPSK	1	1		22.37			
100	QPSK	1	137		22.44		23.5	0.0
100	QPSK	1	271		22.39			
100	QPSK	135	0		22.16		23.0	0.5
100	QPSK	135	69		22.34		23.5	0.0
100	QPSK	135	138		22.12		23.0	0.5
100	QPSK	270	0		22.19			
100	16QAM	1	1		22.39		23.5	0.0
100	64QAM	1	1		21.18		22.0	1.5
100	256QAM	1	1		19.52		20.5	3.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	PI2 BPSK	1	1	22.11	22.06	22.03	23.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	PI2 BPSK	1	1	22.16	22.04	22.00	23.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	PI2 BPSK	1	1	22.11	21.99	22.04	23.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	PI2 BPSK	1	1	22.16	21.98	22.08	23.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	PI2 BPSK	1	1	22.07	21.95	22.05	23.5	0.0

Part27Q n77 Ant 8 DS1&5 For ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334		3500.01		
Frequency (MHz)								
100	PI2 BPSK	1	1		19.12		20.5	0.0
100	PI2 BPSK	1	137		19.02			
100	PI2 BPSK	1	271		19.02		20.5	0.0
100	PI2 BPSK	135	0		19.09			
100	PI2 BPSK	135	69		19.11		20.5	0.0
100	PI2 BPSK	135	138		19.02		20.5	0.0
100	PI2 BPSK	270	0		19.10		20.5	0.0
100	QPSK	1	1		19.10			
100	QPSK	1	137		19.06		20.5	0.0
100	QPSK	1	271		19.10			
100	QPSK	135	0		19.07		20.5	0.0
100	QPSK	135	69		19.08		20.5	0.0
100	QPSK	135	138		19.06		20.5	0.0
100	QPSK	270	0		19.03			
100	16QAM	1	1		19.03		20.5	0.0
100	64QAM	1	1		19.09		20.5	0.0
100	256QAM	1	1		19.03		20.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	PI2 BPSK	1	1	18.82	18.61	18.51	20.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	PI2 BPSK	1	1	18.87	18.60	18.47	20.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	PI2 BPSK	1	1	18.71	18.69	18.51	20.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	PI2 BPSK	1	1	18.61	18.62	18.51	20.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	PI2 BPSK	1	1	18.72	18.64	18.58	20.5	0.0



Part27Q n77 HPUE Ant 8 DS12&DS15 For ENDC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				3500.01			23.5	0.0
Frequency (MHz)				6333.34				
100	PI2 BPSK	1	1		22.18			
100	PI2 BPSK	1	137		22.00			
100	PI2 BPSK	1	271		21.95			
100	PI2 BPSK	135	0		22.04			
100	PI2 BPSK	135	69		22.12			
100	PI2 BPSK	135	138		21.84			
100	PI2 BPSK	270	0		22.09			
100	QPSK	1	1		21.92			
100	QPSK	1	137		21.92			
100	QPSK	1	271		22.08			
100	QPSK	135	0		21.94			
100	QPSK	135	69		21.84			
100	QPSK	135	138		22.10			
100	QPSK	270	0		21.91			
100	16QAM	1	1		21.96			
100	64QAM	1	1		21.88			
100	256QAM	1	1		20.52			
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	PI2 BPSK	1	1	21.45	21.64	21.55	23.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490	3500.01	3520.02		
60	PI2 BPSK	1	1	21.57	21.60	21.44	23.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	PI2 BPSK	1	1	21.44	21.62	21.48	23.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460	3500.01	3535.02		
30	PI2 BPSK	1	1	21.56	21.63	21.51	23.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	PI2 BPSK	1	1	21.53	21.59	21.54	23.5	0.0

Part27O n78 Ant 8 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				3750			21.5	0.0
Frequency (MHz)				650000				
100	PI2 BPSK	1	1		20.01			
100	PI2 BPSK	1	137		19.84			
100	PI2 BPSK	1	271		19.82			
100	PI2 BPSK	135	0		19.98			
100	PI2 BPSK	135	69		20.00			
100	PI2 BPSK	135	138		19.98			
100	PI2 BPSK	270	0		19.97			
100	QPSK	1	1		19.92			
100	QPSK	1	137		19.81			
100	QPSK	1	271		19.94			
100	QPSK	135	0		19.96			
100	QPSK	135	69		19.97			
100	QPSK	135	138		19.87			
100	QPSK	270	0		19.95			
100	16QAM	1	1		19.87			
100	64QAM	1	1		19.33			
100	256QAM	1	1		17.62			
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	PI2 BPSK	1	1	18.95	19.07	19.01	21.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	PI2 BPSK	1	1	18.92	19.05	19.12	21.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		
70	PI2 BPSK	1	1	18.83	19.12	19.12	21.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	PI2 BPSK	1	1	18.97	19.06	18.98	21.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	PI2 BPSK	1	1	18.91	19.00	19.11	21.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		
40	PI2 BPSK	1	1	18.88	19.10	18.96	21.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750	3795.01		
30	PI2 BPSK	1	1	18.97	19.00	18.99	21.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	PI2 BPSK	1	1	18.82	19.06	18.97	21.5	0.0

Part27O n78 Ant 8 DS11 For ENDC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				3750			18.5	0.0
Frequency (MHz)				650000				
100	PI2 BPSK	1	1		16.79			
100	PI2 BPSK	1	137		16.59			
100	PI2 BPSK	1	271		16.72			
100	PI2 BPSK	135	0		16.66			
100	PI2 BPSK	135	69		16.71			
100	PI2 BPSK	135	138		16.62			
100	PI2 BPSK	270	0		16.68			
100	QPSK	1	1		16.58			
100	QPSK	1	137		16.55			
100	QPSK	1	271		16.66			
100	QPSK	135	0		16.59			
100	QPSK	135	69		16.64			
100	QPSK	135	138		16.66			
100	QPSK	270	0		16.65			
100	16QAM	1	1		16.57			
100	64QAM	1	1		16.59			
100	256QAM	1	1		16.65			
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	PI2 BPSK	1	1	16.36	16.37	16.27	18.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	PI2 BPSK	1	1	16.31	16.23	16.26	18.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		
70	PI2 BPSK	1	1	16.21	16.36	16.36	18.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	PI2 BPSK	1	1	16.30	16.35	16.21	18.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	PI2 BPSK	1	1	16.38	16.37	16.22	18.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		
40	PI2 BPSK	1	1	16.36	16.31	16.25	18.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750	3795.01		
30	PI2 BPSK	1	1	16.25	16.36	16.24	18.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	PI2 BPSK	1	1	16.31	16.38	16.26	18.5	0.0

Part27Q n78 HPUE Ant 8 DS1&DS15									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1		24.88				
100	PV2 BPSK	1	137		24.79		26.0	0.0	
100	PV2 BPSK	1	271		24.67				
100	PV2 BPSK	135	0		24.40		25.5	0.5	
100	PV2 BPSK	135	69		24.82		26.0	0.0	
100	PV2 BPSK	135	138		24.14		25.5	0.5	
100	PV2 BPSK	270	0		24.21				
100	QPSK	1	1		23.83				
100	QPSK	1	137		23.83		25.0	1.0	
100	QPSK	1	271		23.70				
100	QPSK	135	0		22.91		24.5	1.5	
100	QPSK	135	69		23.40		25.0	1.0	
100	QPSK	135	138		22.54		24.5	1.5	
100	QPSK	270	0		22.82				
100	16QAM	1	1		22.92		24.5	1.5	
100	64QAM	1	1		21.37		23.0	3.0	
100	256QAM	1	1		19.61		21.5	4.5	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	PV2 BPSK	1	1		24.66	24.74	24.66	26.0	0.0
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	PV2 BPSK	1	1		24.77	24.70	24.77	26.0	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PV2 BPSK	1	1		24.83	24.67	24.79	26.0	0.0
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	PV2 BPSK	1	1		24.70	24.67	24.78	26.0	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	PV2 BPSK	1	1		24.73	24.81	24.57	26.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PV2 BPSK	1	1		24.82	24.77	24.60	26.0	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	PV2 BPSK	1	1		24.83	24.83	24.69	26.0	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	PV2 BPSK	1	1		24.77	24.80	24.61	26.0	0.0

Part27Q n78 HPUE Ant 8 DS1&DS15 For END									
BW [MHz]	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	PV2 BPSK	1	1		22.03				
100	PV2 BPSK	1	137		21.82		23.5	0.0	
100	PV2 BPSK	1	271		21.74				
100	PV2 BPSK	135	0		21.90		23.5	0.0	
100	PV2 BPSK	135	69		21.92		23.5	0.0	
100	PV2 BPSK	135	138		21.63		23.5	0.0	
100	PV2 BPSK	270	0		21.85				
100	QPSK	1	1		21.79				
100	QPSK	1	137		21.78		23.5	0.0	
100	QPSK	1	271		21.86				
100	QPSK	135	0		21.77		23.5	0.0	
100	QPSK	135	69		21.71		23.5	0.0	
100	QPSK	135	138		21.86		23.5	0.0	
100	QPSK	270	0		21.68				
100	16QAM	1	1		21.71		23.5	0.0	
100	64QAM	1	1		21.37		23.0	0.5	
100	256QAM	1	1		19.81		21.5	2.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	PV2 BPSK	1	1		21.27	21.51	21.49	23.5	0.0
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	PV2 BPSK	1	1		21.59	21.52	21.42	23.5	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PV2 BPSK	1	1		21.28	21.45	21.41	23.5	0.0
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	PV2 BPSK	1	1		21.30	21.48	21.37	23.5	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	PV2 BPSK	1	1		21.31	21.50	21.38	23.5	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PV2 BPSK	1	1		21.34	21.53	21.51	23.5	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	PV2 BPSK	1	1		21.28	21.56	21.40	23.5	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	PV2 BPSK	1	1		21.36	21.55	21.41	23.5	0.0



2.4GHz WLAN				Art 4 Head DBS only		Art 2+4 Head DBS only		Art 2 Head DBS simultaneous		Art 4 Head DBS simultaneous		Art 2+4 Head DBS simultaneous		Art 2 Body-worn&Htspot non DBS Body-worn&Htspot DBS simultaneous Extremely non DBS simultaneous Extremely DBS simultaneous		Art 4 Body-worn&Htspot non DBS simultaneous Body-worn&Htspot DBS simultaneous Extremely non DBS simultaneous Extremely DBS simultaneous		Art 2+4 Body-worn&Htspot non DBS simultaneous Body-worn&Htspot DBS simultaneous Extremely non DBS simultaneous Extremely DBS simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	12.99	14.00	17.56	18.50	9.66	11.00	6.94	8.00	11.52	12.50	14.38	15.50	11.85	12.50	16.31	17.00	100
		6	2437	12.97	14.00	17.17	18.50	9.15	11.00	6.50	8.00	11.03	12.50	14.06	15.50	11.55	12.50	16.01	17.00	
		11	2462	12.19	14.00	16.85	18.50	9.04	11.00	6.18	8.00	10.85	12.50	13.81	15.50	11.06	12.50	15.66	17.00	
	802.11g 6Mbps	1	2412		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	99.31
		6	2437		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
		11	2462		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
	802.11n-HT20 MCS0	1	2412		13.00		17.50		11.00		8.00		12.50		15.50		12.50		17.00	100
		6	2437		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
		11	2462		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
	802.11n-HT40 MCS0	3	2422		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	100
		6	2437	Not Required		Not Required		Not Required		Not Required		Not Required		Not Required		Not Required		Not Required		
		9	2452		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
	802.11ax-HE20 MCS0	1	2412		13.50		17.50		11.00		8.00		12.50		15.50		12.50		17.00	100
		6	2437		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
		11	2462		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
	802.11ax-HE40 MCS0	3	2422		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	100
		6	2437		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
		9	2452		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	



5.8GHz WLAN				Art 4 Hotspot non DBS simultaneous		Art 3+4 Hotspot non DBS simultaneous		Art 3 Head non DBS simultaneous		Art 4 Head non DBS simultaneous		Art 3+4 Head non DBS simultaneous		Art 3 Body-worn non DBS simultaneous Extremely non DBS simultaneous		Art 4 Body-worn non DBS simultaneous Extremely non DBS simultaneous		Art 3+4 Body-worn non DBS simultaneous Extremely non DBS simultaneous		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	149	5745		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	99.32
		157	5785		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
		165	5825		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
	802.11a-HT20 MCS0	149	5745		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	100
		157	5785		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
		165	5825		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
	802.11a-HT40 MCS0	151	5755	Not Required	10.00	Not Required	16.50	Not Required	15.50	Not Required	10.00	Not Required	17.00	Not Required	17.00	Not Required	12.00	Not Required	18.50	100
		159	5795		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
		149	5745		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
	802.11ac-VHT20 MCS0	157	5785		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	100
		165	5825		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
		151	5755		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
	802.11ac-VHT40 MCS0	159	5795		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	100
		155	5775	8.99	10.00	15.08	16.50	14.15	15.50	8.98	10.00	14.85	17.00	15.25	17.00	10.34	12.00	16.09	18.50	
		149	5745		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
	802.11ax-HE20 MCS0	157	5785		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	100
		165	5825		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
		151	5755	Not Required	10.00	Not Required	16.50	Not Required	15.50	Not Required	10.00	Not Required	17.00	Not Required	17.00	Not Required	12.00	Not Required	18.50	
	802.11ax-HE40 MCS0	159	5795		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	100
		155	5775		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	
		149	5745		10.00		16.50		15.50		10.00		17.00		17.00		12.00		18.50	