



Full Power Mode

GSM850 Amd							
TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)		
	128	189	251		128	189	251
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6
GSM 1 Tx slot	32.47	32.49	32.40	33.50	23.47	23.49	23.40
GPRS 1 Tx slot	32.38	32.41	32.35	33.50	23.38	23.41	23.35
GPRS 2 Tx slots	31.25	31.28	31.23	32.50	25.25	25.28	25.23
GPRS 3 Tx slots	29.92	29.98	29.92	31.00	25.66	25.70	25.66
GPRS 4 Tx slots	28.90	28.94	28.86	30.00	25.90	25.94	25.86
EDGE 1 Tx slot	27.21	27.22	27.35	28.50	18.21	18.22	18.35
EDGE 2 Tx slots	26.25	26.26	26.38	27.50	20.25	20.26	20.38
EDGE 3 Tx slots	24.15	24.17	24.32	25.50	19.89	19.91	20.06
EDGE 4 Tx slots	23.00	22.94	23.33	24.00	20.00	19.94	20.33

GSM1900 Amd							
TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)		
	512	661	810		512	661	810
Frequency (MHz)	1852.2	1870	1897.8		1852.2	1870	1897.8
GSM 1 Tx slot	29.10	29.38	29.35	30.50	20.10	20.38	20.35
GPRS 1 Tx slot	29.01	29.30	29.28	30.50	20.01	20.30	20.28
GPRS 2 Tx slots	27.95	28.27	28.23	29.50	21.95	22.27	22.23
GPRS 3 Tx slots	26.47	26.81	26.79	28.00	22.21	22.55	22.53
GPRS 4 Tx slots	25.48	25.84	25.82	27.00	22.48	22.84	22.82
EDGE 1 Tx slot	25.71	25.73	25.57	27.00	16.71	16.73	16.57
EDGE 2 Tx slots	24.84	24.89	24.72	26.00	18.84	18.89	18.72
EDGE 3 Tx slots	23.10	23.21	22.98	24.50	18.94	19.95	18.70
EDGE 4 Tx slots	22.18	22.23	21.98	23.50	19.16	19.23	18.98

WCDMA II Amd				WCDMA IV Amd			WCDMA V Amd			
Band	TX Channel	WCDMA II		Tune-up Limit (dBm)	WCDMA IV		Tune-up Limit (dBm)	WCDMA V		
		9262	9500		9538	1312		1413	1513	4192
	Rx Channel	8662	8800	8938	1537	1638	1738	4357	4407	4458
	Frequency (MHz)	1822.4	1870	1927.8	1722.4	1722.2	1722.6	3204	3204	3204
3GPP Rel 99	AMR 12.2kbps	22.23	22.43	22.34	24.00	22.47	22.53	22.51	24.00	22.62
3GPP Rel 99	RMC 12.2kbps	22.30	22.51	22.42	24.00	22.50	22.66	22.59	24.00	22.77
3GPP Rel 8	HSDPA Subtest-1	21.45	21.39	21.31	23.00	21.68	21.61	21.47	23.00	21.78
3GPP Rel 8	HSDPA Subtest-2	21.46	21.51	21.38	23.00	21.70	21.71	21.54	23.00	21.78
3GPP Rel 8	HSDPA Subtest-3	20.87	20.95	20.84	22.50	21.10	21.21	21.15	22.50	21.21
3GPP Rel 8	HSDPA Subtest-4	20.94	21.04	20.87	22.50	21.07	21.22	21.08	22.50	21.23
3GPP Rel 8	DC-HSDPA Subtest-1	21.45	21.42	21.34	23.00	21.66	21.57	21.57	23.00	21.80
3GPP Rel 8	DC-HSDPA Subtest-2	21.41	21.40	21.45	23.00	21.58	21.67	21.64	23.00	21.71
3GPP Rel 8	DC-HSDPA Subtest-3	20.94	20.97	21.09	22.50	21.13	21.18	21.23	22.50	21.28
3GPP Rel 8	DC-HSDPA Subtest-4	20.94	20.98	21.03	22.50	21.13	21.16	21.18	22.50	21.30
3GPP Rel 8	HSUPA Subtest-1	21.48	21.38	21.46	23.00	21.87	21.88	21.72	23.00	21.82
3GPP Rel 8	HSUPA Subtest-2	19.46	19.40	19.58	21.00	19.61	19.57	19.68	21.00	19.74
3GPP Rel 8	HSUPA Subtest-3	20.39	20.50	20.42	22.00	20.61	20.65	20.59	22.00	20.69
3GPP Rel 8	HSUPA Subtest-4	19.56	19.48	19.43	21.00	19.69	19.74	19.71	21.00	19.89
3GPP Rel 8	HSUPA Subtest-5	21.46	21.44	21.38	23.00	21.87	21.85	21.55	23.00	21.81
3GPP Rel 7	HSPA+ (TCM) Subtest-1	19.91	19.90	18.88	20.50	19.26	19.13	19.07	20.50	19.38



Band 2 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.22	22.34	22.24	24	0
20	QPSK	1	49	22.17	22.20	22.16		
20	QPSK	1	99	22.13	22.21	22.08		
20	QPSK	50	0	21.23	21.30	21.21	23	1
20	QPSK	50	24	21.21	21.26	21.19		
20	QPSK	50	50	21.15	21.26	21.19		
20	QPSK	100	0	21.21	21.24	21.11	23	1
20	16QAM	1	0	21.26	21.36	21.28		
20	16QAM	1	49	21.31	21.38	21.30		
20	16QAM	1	99	21.20	21.32	21.22	22	2
20	16QAM	50	0	20.17	20.24	20.10		
20	16QAM	50	24	20.16	20.30	20.21		
20	16QAM	50	50	20.10	20.23	20.10	22	2
20	16QAM	100	0	20.16	20.27	20.19		
20	16QAM	100	0	20.16	20.25	20.20		
20	16QAM	1	49	20.21	20.31	20.16	22	2
20	16QAM	1	99	20.30	20.34	20.25		
20	16QAM	50	0	19.16	19.25	19.13		
20	16QAM	50	24	19.24	19.32	19.26	21	3
20	16QAM	50	50	19.33	19.37	19.24		
20	16QAM	100	0	19.12	19.27	19.20		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.14	22.27	22.20	24	0
15	QPSK	1	37	22.11	22.08	22.13		
15	QPSK	1	74	22.08	22.15	22.10		
15	QPSK	36	0	21.18	21.21	21.11	23	1
15	QPSK	36	20	21.15	21.14	21.04		
15	QPSK	36	39	21.01	21.13	21.11		
15	QPSK	75	0	21.14	21.19	21.09	23	1
15	16QAM	1	0	21.14	21.29	21.14		
15	16QAM	1	37	21.26	21.27	21.25		
15	16QAM	1	74	21.13	21.17	21.15	22	2
15	16QAM	36	0	20.08	20.21	20.05		
15	16QAM	36	20	20.06	20.20	20.17		
15	16QAM	36	39	20.06	20.17	20.02	22	2
15	16QAM	75	0	20.05	20.18	20.13		
15	16QAM	1	0	20.02	20.11	20.11		
15	16QAM	1	37	20.15	20.16	20.07	22	2
15	16QAM	1	74	20.23	20.21	20.20		
15	16QAM	36	0	19.14	19.10	19.02		
15	16QAM	36	20	19.15	19.24	19.20	21	3
15	16QAM	36	39	19.19	19.25	19.11		
15	16QAM	75	0	19.03	19.14	19.09		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.14	22.21	22.10	24	0
10	QPSK	1	25	22.11	22.09	22.04		
10	QPSK	1	49	22.04	22.11	22.05		
10	QPSK	25	0	21.17	21.20	21.13	23	1
10	QPSK	25	12	21.09	21.16	21.14		
10	QPSK	25	25	21.10	21.12	21.07		
10	QPSK	50	0	21.14	21.15	21.05	23	1
10	16QAM	1	0	21.12	21.25	21.16		
10	16QAM	1	25	21.19	21.24	21.20		
10	16QAM	1	49	21.09	21.23	21.17	22	2
10	16QAM	25	0	20.20	20.28	20.08		
10	16QAM	25	12	20.07	20.26	20.07		
10	16QAM	25	25	20.08	20.16	20.01	22	2
10	16QAM	50	0	20.11	20.13	20.09		
10	16QAM	1	0	20.04	20.21	20.10		
10	16QAM	1	25	20.13	20.16	20.03	22	2
10	16QAM	1	49	20.24	20.26	20.13		
10	16QAM	25	0	19.10	19.22	19.10		
10	16QAM	25	12	19.14	19.21	19.13	21	3
10	16QAM	25	25	19.27	19.27	19.11		
10	16QAM	50	0	19.05	19.23	19.08		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.12	22.31	22.21	24	0
5	QPSK	1	24	22.09	22.12	22.13		
5	QPSK	1	24	22.02	22.14	22.01		
5	QPSK	12	0	21.11	21.18	21.17	23	1
5	QPSK	12	7	21.08	21.19	21.09		
5	QPSK	12	13	21.11	21.16	21.11		
5	QPSK	25	0	21.10	21.21	21.08	23	1
5	16QAM	1	0	21.16	21.31	21.19		
5	16QAM	1	12	21.23	21.34	21.25		
5	16QAM	1	24	21.14	21.20	21.17	22	2
5	16QAM	12	0	20.05	20.20	20.04		
5	16QAM	12	7	20.07	20.22	20.11		
5	16QAM	12	13	20.05	20.17	20.07	22	2
5	16QAM	25	0	20.08	20.15	20.15		
5	16QAM	1	0	20.04	20.13	20.10		
5	16QAM	1	12	20.08	20.28	20.08	22	2
5	16QAM	1	24	20.20	20.25	20.11		
5	16QAM	12	0	19.06	19.14	19.03		
5	16QAM	12	7	19.19	19.23	19.14	21	3
5	16QAM	12	13	19.20	19.25	19.12		
5	16QAM	25	0	19.02	19.18	19.07		
Channel								
Frequency (MHz)								
186.5	QPSK	1	0	22.18	22.26	22.16	24	0
186.5	QPSK	1	8	22.09	22.07	22.07		
186.5	QPSK	1	14	22.03	22.17	22.10		
186.5	QPSK	8	0	21.10	21.17	21.09	23	1
186.5	QPSK	8	4	21.13	21.17	21.09		
186.5	QPSK	8	7	21.03	21.20	21.10		
186.5	QPSK	15	0	21.12	21.15	21.01	23	1
186.5	16QAM	1	0	21.20	21.27	21.13		
186.5	16QAM	1	8	21.17	21.34	21.27		
186.5	16QAM	1	14	21.08	21.18	21.08	22	2
186.5	16QAM	8	0	20.07	20.17	20.05		
186.5	16QAM	8	4	20.02	20.22	20.08		
186.5	16QAM	8	7	20.04	20.19	20.07	22	2
186.5	16QAM	15	0	20.01	20.14	20.15		
186.5	16QAM	1	0	20.09	20.21	20.10		
186.5	16QAM	1	8	20.12	20.19	20.05	22	2
186.5	16QAM	1	14	20.26	20.26	20.16		
186.5	16QAM	8	0	19.08	19.14	19.07		
186.5	16QAM	8	4	19.15	19.21	19.12	21	3
186.5	16QAM	8	7	19.26	19.34	19.21		
186.5	16QAM	15	0	19.05	19.23	19.11		
Channel								
Frequency (MHz)								
186.5	QPSK	1	0	22.11	22.27	22.17	24	0
186.5	QPSK	1	24	22.03	22.17	22.02		
186.5	QPSK	1	5	22.10	22.16	22.03		
186.5	QPSK	3	0	22.08	22.20	22.07	23	1
186.5	QPSK	3	3	22.09	22.22	22.09		
186.5	QPSK	3	3	22.09	22.15	22.10		
186.5	QPSK	6	0	21.11	21.21	21.05	23	1
186.5	16QAM	1	0	21.20	21.24	21.18		
186.5	16QAM	1	3	21.19	21.31	21.20		
186.5	16QAM	1	5	21.14	21.28	21.18	23	1
186.5	16QAM	3	0	21.05	21.19	21.03		
186.5	16QAM	3	1	21.02	21.20	21.13		
186.5	16QAM	3	3	21.05	21.15	21.07	22	2
186.5	16QAM	6	0	20.04	20.20	20.13		
186.5	16QAM	1	0	20.07	20.20	20.12		
186.5	16QAM	1	3	20.11	20.25	20.20	22	2
186.5	16QAM	1	5	20.23	20.21	20.14		
186.5	16QAM	3	0	20.09	20.11	20.04		
186.5	16QAM	3	1	20.15	20.17	20.18	22	2
186.5	16QAM	3	3	20.26	20.24	20.10		
186.5	16QAM	6	0	19.08	19.15	19.15		

Band 4 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.40	22.53	22.45	24	0
20	QPSK	1	49	22.38	22.50	22.42		
20	QPSK	1	99	22.34	22.44	22.38		
20	QPSK	50	0	21.46	21.59	21.47	23	1
20	QPSK	50	24	21.42	21.54	21.44		
20	QPSK	50	50	21.38	21.42	21.38		
20	QPSK	100	0	21.38	21.52	21.37	23	1
20	16QAM	1	0	21.49	21.56	21.45		
20	16QAM	1	49	21.44	21.51	21.42		
20	16QAM	1	99	21.34	21.47	21.42	22	2
20	16QAM	50	0	20.35	20.41	20.36		
20	16QAM	50	24	20.41	20.52	20.45		
20	16QAM	50	50	20.38	20.43	20.33	22	2
20	16QAM	100	0	20.43	20.47	20.39		
20	16QAM	100	0	20.47	20.54	20.44		
20	16QAM	1	49	20.36	20.46	20.40	22	2
20	16QAM	1	99	20.46	20.50	20.43		
20	16QAM	50	0	19.21	19.35	19.30		
20	16QAM	50	24	19.30	19.41	19.37	21	3
20	16QAM	50	50	19.45	19.50	19.47		
20	16QAM	100	0	19.36	19.44	19.34		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.30	22.38	22.40	24	0
15	QPSK	1	37	22.27	22.32	22.33		
15	QPSK	1	74	22.20	22.37	22.33		
15	QPSK	36	0	21.37	21.50	21.37	23	1
15	QPSK	36	20	21.29	21.50	21.33		
15	QPSK	36	39	21.32	21.29	21.23		
15	QPSK	75	0	21.23	21.42	21.30	23	1
15	16QAM	1	0	21.41	21.42	21.34		
15	16QAM	1	37	21.37	21.44	21.36		
15	16QAM	1	74	21.19	21.38	21.35	22	2
15	16QAM	36	0	20.26	20.29	20.23		
15	16QAM	36	20	20.27	20.48	20.40		
15	16QAM	36	39	20.30	20.31	20.21	22	2
15	16QAM	75	0	20.34	20.41	20.25		
15	16QAM	1	0	20.40	20.46	20.39		
15	16QAM	1	37	20.24	20.32	20.33	22	2
15	16QAM	1	74	20.39	20.38	20.33		
15	16QAM	36	0	19.15	19.30	19.26		
15	16QAM	36	20	19.19	19.29	19.30	21	3
15	16QAM	36	39	19.33	19.43	19.41		
15	16QAM	75	0	19.26	19.33	19.28		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.34	22.46	22.38	24	0
10								



Band 12 Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
				23060	23095	23130				
				707.5	707.5	711				
Frequency (MHz)										
10	QPSK	1	0	22.56	22.60	22.52	24	0		
10	QPSK	1	25	22.43	22.49	22.39				
10	QPSK	1	49	22.42	22.47	22.41				
10	QPSK	25	0	21.36	21.45	21.35	23	1		
10	QPSK	25	12	21.32	21.42	21.38				
10	QPSK	25	25	21.29	21.39	21.38				
10	QPSK	50	0	21.34	21.43	21.32	23	1		
10	16QAM	1	0	21.51	21.82	21.56				
10	16QAM	1	25	21.56	21.48	21.59				
10	16QAM	1	49	21.57	21.58	21.58	22	2		
10	16QAM	25	0	20.35	20.45	20.37				
10	16QAM	25	12	20.35	20.37	20.38				
10	16QAM	25	25	20.39	20.34	20.40	22	2		
10	16QAM	50	0	20.37	20.41	20.33				
10	64QAM	1	0	20.45	20.58	20.54				
10	64QAM	1	25	20.53	20.53	20.45	21	3		
10	64QAM	1	49	20.55	20.51	20.43				
10	64QAM	25	0	19.34	19.41	19.32				
10	64QAM	25	12	19.35	19.33	19.30	21	3		
10	64QAM	25	25	19.30	19.31	19.31				
10	64QAM	50	0	19.34	19.39	19.32				
Channel										
				23035	23095	23155				
				707.5	707.5	713.5				
Frequency (MHz)										
5	QPSK	1	0	22.41	22.55	22.42	24	0		
5	QPSK	1	12	22.32	22.37	22.34				
5	QPSK	1	24	22.27	22.34	22.28				
5	QPSK	12	0	21.26	21.35	21.25	23	1		
5	QPSK	12	7	21.26	21.34	21.25				
5	QPSK	12	13	21.17	21.33	21.22				
5	QPSK	25	0	21.23	21.35	21.21	23	1		
5	16QAM	1	0	21.40	21.49	21.46				
5	16QAM	1	12	21.53	21.43	21.49				
5	16QAM	1	24	21.44	21.55	21.54	22	2		
5	16QAM	12	0	20.32	20.38	20.31				
5	16QAM	12	7	20.24	20.29	20.28				
5	16QAM	12	13	20.35	20.20	20.30	22	2		
5	16QAM	25	0	20.25	20.28	20.23				
5	84QAM	1	0	20.38	20.49	20.47				
5	84QAM	1	12	20.40	20.45	20.40	21	3		
5	84QAM	1	24	20.41	20.40	20.31				
5	84QAM	12	0	19.28	19.33	19.19				
5	84QAM	12	7	19.21	19.20	19.18	21	3		
5	84QAM	12	13	19.15	19.16	19.17				
5	84QAM	25	0	19.23	19.33	19.29				
Channel										
				23025	23095	23155				
				700.5	707.5	714.5				
Frequency (MHz)										
3	QPSK	1	0	22.42	22.56	22.41	24	0		
3	QPSK	1	8	22.29	22.42	22.25				
3	QPSK	1	14	22.34	22.41	22.28				
3	QPSK	8	0	21.22	21.30	21.31	23	1		
3	QPSK	8	4	21.34	21.38	21.33				
3	QPSK	8	7	21.23	21.35	21.21				
3	QPSK	15	0	21.19	21.34	21.27	23	1		
3	16QAM	1	0	21.46	21.55	21.48				
3	16QAM	1	8	21.50	21.37	21.47				
3	16QAM	1	14	21.44	21.45	21.55	22	2		
3	16QAM	8	0	20.23	20.30	20.32				
3	16QAM	8	4	20.22	20.27	20.35				
3	16QAM	8	7	20.29	20.28	20.36	22	2		
3	16QAM	15	0	20.31	20.33	20.20				
3	64QAM	1	0	20.30	20.55	20.40				
3	64QAM	1	8	20.40	20.47	20.36	21	3		
3	64QAM	1	14	20.45	20.37	20.32				
3	64QAM	8	0	19.21	19.36	19.24				
3	64QAM	8	4	19.31	19.18	19.22	21	3		
3	64QAM	8	7	19.21	19.18	19.17				
3	64QAM	15	0	19.22	19.29	19.22				
Channel										
				23017	23095	23173				
				699.7	707.5	715.3				
Frequency (MHz)										
1.4	QPSK	1	0	22.48	22.53	22.42	24	0		
1.4	QPSK	1	3	22.37	22.42	22.27				
1.4	QPSK	1	5	22.28	22.39	22.31				
1.4	QPSK	3	0	22.32	22.37	22.22	23	1		
1.4	QPSK	3	1	22.24	22.27	22.25				
1.4	QPSK	3	3	22.19	22.29	22.21				
1.4	QPSK	6	0	21.20	21.39	21.21	22	2		
1.4	16QAM	1	0	21.41	21.51	21.46				
1.4	16QAM	1	3	21.48	21.33	21.55				
1.4	16QAM	1	5	21.45	21.52	21.49	22	2		
1.4	16QAM	3	0	21.20	21.40	21.31				
1.4	16QAM	3	1	21.25	21.28	21.33				
1.4	16QAM	3	3	21.25	21.30	21.32	22	2		
1.4	16QAM	6	0	20.30	20.30	20.27				
1.4	84QAM	1	0	20.36	20.45	20.41				
1.4	84QAM	1	3	20.44	20.49	20.42	21	3		
1.4	84QAM	1	5	20.49	20.40	20.31				
1.4	84QAM	3	0	20.27	20.28	20.26				
1.4	84QAM	3	1	20.29	20.24	20.16	21	3		
1.4	84QAM	3	3	20.16	20.24	20.16				
1.4	84QAM	6	0	19.27	19.30	19.22				

Band 13 Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
				23230	23230	23230				
				782	782	782				
Frequency (MHz)										
10	QPSK	1	0	22.52	22.52	22.52	24	0		
10	QPSK	1	25	22.50	22.50	22.50				
10	QPSK	1	49	22.44	22.44	22.44				
10	QPSK	25	0	21.48	21.48	21.48	23	1		
10	QPSK	25	12	21.44	21.44	21.41				
10	QPSK	25	25	21.41	21.41	21.41				
10	QPSK	50	0	21.42	21.42	21.42	23	1		
10	16QAM	1	0	21.82	21.82	21.82				
10	16QAM	1	25	21.55	21.55	21.55				
10	16QAM	1	49	21.47	21.58	21.58	22	2		
10	16QAM	25	0	20.48	20.48	20.48				
10	16QAM	25	12	20.43	20.43	20.43				
10	16QAM	25	25	20.35	20.35	20.35	22	2		
10	16QAM	50	0	20.45	20.45	20.45				
10	64QAM	1	0	20.51	20.51	20.51				
10	64QAM	1	25	20.47	20.47	20.47	22	2		
10	64QAM	1	49	20.38	20.38	20.38				
10	64QAM	25	0	19.45	19.45	19.45				
10	64QAM	25	12	19.35	19.35	19.35	21	3		
10	64QAM	25	25	19.34	19.34	19.34				
10	64QAM	50	0	19.41	19.41	19.41				
Channel										
				23205	23230	23255				
				779.5	782	784.5				
Frequency (MHz)										
5	QPSK	1	0	22.46	22.49	22.43	24	0		
5	QPSK	1	12	22.36	22.38	22.46				
5	QPSK	1	24	22.29	22.34	22.40				
5	QPSK	12	0	21.42	21.38	21.34	23	1		
5	QPSK	12	7	21.33	21.31	21.36				
5	QPSK	12	13	21.32	21.27	21.28				
5	QPSK	25	0	21.31	21.33	21.38	23	1		
5	16QAM	1	0	21.56	21.57	21.51				
5	16QAM	1	12	21.50	21.43	21.50				
5	16QAM	1	24	21.45	21.45	21.46	22	2		
5	16QAM	12	0	20.38	20.38	20.40				
5	16QAM	12	7	20.34	20.31	20.30				
5	16QAM	12	13	20.20	20.22	20.31	22	2		
5	16QAM	25	0	20.31	20.38	20.36				
5	84QAM	1	0	20.38	20.48	20.43				
5	84QAM	1	12	20.38	20.34	20.41	22	2		
5	84QAM	1	24	20.24	20.34	20.25				
5	84QAM	12	0	19.41	19.39	19.37				
5	84QAM	12	7	19.20	19.23	19.20	21	3		
5	84QAM	12	13	19.27	19.20	19.26				
5	84QAM	25	0	19.31	19.35	19.32				

Band 17 Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle					



Band 26 for FCC Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				26765	26865	26965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	22.46	22.58	22.52				
15	QPSK	1	37	22.38	22.50	22.46	24	0		
15	QPSK	1	74	22.43	22.46	22.37				
15	QPSK	36	0	21.48	21.58	21.45				
15	QPSK	36	20	21.47	21.52	21.49	23	1		
15	QPSK	36	39	21.35	21.47	21.39				
15	QPSK	75	0	21.41	21.54	21.50				
15	16QAM	1	0	21.87	21.77	21.83				
15	16QAM	1	37	21.62	21.69	21.62	23	1		
15	16QAM	1	74	21.55	21.70	21.58				
15	16QAM	36	0	20.42	20.54	20.45				
15	16QAM	36	20	20.38	20.50	20.42				
15	16QAM	36	39	20.47	20.51	20.38	22	2		
15	16QAM	75	0	20.37	20.50	20.40				
15	64QAM	1	0	20.60	20.65	20.57				
15	64QAM	1	37	20.64	20.68	20.62	22	2		
15	64QAM	1	74	20.47	20.59	20.51				
15	64QAM	36	0	19.39	19.53	19.44				
15	64QAM	36	20	19.50	19.55	19.48				
15	64QAM	36	39	19.34	19.44	19.33	21	3		
15	64QAM	75	0	19.44	19.47	19.34				
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	22.36	22.46	22.41	24	0		
10	QPSK	1	25	22.24	22.39	22.41				
10	QPSK	1	49	22.32	22.43	22.30				
10	QPSK	25	0	21.43	21.48	21.34				
10	QPSK	25	12	21.37	21.37	21.39	23	1		
10	QPSK	25	25	21.29	21.32	21.36				
10	QPSK	50	0	21.29	21.45	21.46				
10	16QAM	1	0	21.64	21.63	21.53				
10	16QAM	1	25	21.51	21.66	21.58	23	1		
10	16QAM	1	49	21.52	21.57	21.50				
10	16QAM	25	0	20.36	20.42	20.33				
10	16QAM	25	12	20.35	20.42	20.31	22	2		
10	16QAM	25	25	20.40	20.44	20.28				
10	16QAM	50	0	20.32	20.42	20.26				
10	64QAM	1	0	20.52	20.60	20.46				
10	64QAM	1	25	20.55	20.60	20.56	22	2		
10	64QAM	1	49	20.37	20.44	20.44				
10	64QAM	25	0	19.32	19.49	19.36				
10	64QAM	25	12	19.39	19.43	19.45				
10	64QAM	25	25	19.20	19.31	19.21	21	3		
10	64QAM	50	0	19.41	19.38	19.22				
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	22.41	22.43	22.39	24	0		
5	QPSK	1	12	22.28	22.40	22.32				
5	QPSK	1	24	22.33	22.34	22.29				
5	QPSK	12	0	21.37	21.54	21.36				
5	QPSK	12	7	21.37	21.37	21.37	23	1		
5	QPSK	12	13	21.27	21.37	21.29				
5	QPSK	25	0	21.31	21.40	21.40				
5	16QAM	1	0	21.61	21.68	21.50				
5	16QAM	1	12	21.53	21.62	21.53	23	1		
5	16QAM	1	24	21.51	21.66	21.44				
5	16QAM	12	0	20.30	20.42	20.36				
5	16QAM	12	7	20.34	20.39	20.29	22	2		
5	16QAM	12	13	20.39	20.48	20.29				
5	16QAM	25	0	20.32	20.44	20.30				
5	64QAM	1	0	20.46	20.62	20.42				
5	64QAM	1	12	20.57	20.63	20.47	22	2		
5	64QAM	1	24	20.40	20.46	20.41				
5	64QAM	12	0	19.30	19.38	19.30				
5	64QAM	12	7	19.42	19.44	19.39	21	3		
5	64QAM	12	13	19.25	19.31	19.27				
5	64QAM	25	0	19.35	19.39	19.19				
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	22.35	22.48	22.45	24	0		
3	QPSK	1	8	22.27	22.43	22.42				
3	QPSK	1	14	22.28	22.32	22.32				
3	QPSK	8	0	21.39	21.54	21.35				
3	QPSK	8	4	21.32	21.46	21.35	23	1		
3	QPSK	8	7	21.26	21.34	21.34				
3	QPSK	15	0	21.31	21.45	21.45				
3	16QAM	1	0	21.62	21.67	21.49				
3	16QAM	1	8	21.52	21.59	21.49	23	1		
3	16QAM	1	14	21.40	21.61	21.43				
3	16QAM	8	0	20.35	20.40	20.31				
3	16QAM	8	4	20.25	20.45	20.33	22	2		
3	16QAM	8	7	20.29	20.39	20.29				
3	16QAM	15	0	20.29	20.39	20.37				
3	64QAM	1	0	20.57	20.53	20.48				
3	64QAM	1	8	20.57	20.60	20.55	22	2		
3	64QAM	1	14	20.44	20.53	20.40				
3	64QAM	8	0	19.24	19.47	19.30				
3	64QAM	8	4	19.38	19.48	19.37	21	3		
3	64QAM	8	7	19.31	19.29	19.24				
3	64QAM	15	0	19.33	19.41	19.21				
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	22.35	22.47	22.45	24	0		
1.4	QPSK	1	3	22.34	22.36	22.37				
1.4	QPSK	1	5	22.29	22.36	22.33				
1.4	QPSK	3	0	22.41	22.53	22.39				
1.4	QPSK	3	1	22.43	22.46	22.36				
1.4	QPSK	3	3	22.25	22.33	22.34	23	1		
1.4	QPSK	6	0	21.31	21.47	21.36				
1.4	16QAM	1	0	21.62	21.66	21.52	23	1		
1.4	16QAM	1	3	21.51	21.57	21.55				
1.4	16QAM	1	5	21.42	21.64	21.51	23	1		
1.4	16QAM	3	0	21.29	21.48	21.31				
1.4	16QAM	3	1	21.34	21.46	21.35				
1.4	16QAM	3	3	21.39	21.46	21.33				
1.4	16QAM	6	0	20.30	20.43	20.28	22	2		
1.4	64QAM	1	0	20.49	20.56	20.46				
1.4	64QAM	1	3	20.53	20.59	20.54				
1.4	64QAM	1	5	20.40	20.50	20.44				
1.4	64QAM	3	0	20.35	20.44	20.35	22	2		
1.4	64QAM	3	1	20.35	20.44	20.43				
1.4	64QAM	3	3	20.23	20.33	20.25				
1.4	64QAM	6	0	19.31	19.37	19.29	21	3		

Band 66 Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132222	132372				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	22.32	22.55	22.34				
20	QPSK	1	49	22.36	22.42	22.31	24	0		
20	QPSK	1	99	22.36	22.48	22.45				
20	QPSK	50	0	21.44	21.49	21.43				
20	QPSK	50	24	21.41	21.44	21.32	23	1		
20	QPSK	50	50	21.33	21.41	21.33				
20	QPSK	100	0	21.24	21.38	21.24				
20	16QAM	1	0	21.51	21.59	21.55				
20	16QAM	1	49	21.46	21.49	21.56	23	1		
20	16QAM	1	99	21.54	21.50	21.47				
20	16QAM	50	0	20.36	20.42	20.29				
20	16QAM	50	24	20.34	20.31	20.38	22	2		
20	16QAM	50	50	20.31	20.38	20.27				
20	16QAM	100	0	20.32	20.36	20.29				



Band 7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				20650	21100	21550			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.40	22.50	22.37	24	0	
20	QPSK	1	49	22.85	22.42	22.33			
20	QPSK	1	99	22.28	22.35	22.30			
20	QPSK	50	0	21.38	21.46	21.33	23	1	
20	QPSK	50	24	21.38	21.42	21.32			
20	QPSK	50	50	21.08	21.34	21.19			
20	QPSK	100	0	21.33	21.40	21.28	23	1	
20	16QAM	1	0	21.51	21.56	21.46			
20	16QAM	1	49	21.45	21.46	21.51			
20	16QAM	1	99	21.46	21.52	21.53	22	2	
20	16QAM	50	0	20.29	20.41	20.32			
20	16QAM	50	24	20.33	20.27	20.32			
20	16QAM	50	50	20.31	20.29	20.37	22	2	
20	16QAM	100	0	20.25	20.37	20.24			
20	64QAM	1	0	20.40	20.47	20.37			
20	64QAM	1	49	20.34	20.33	20.43	22	2	
20	64QAM	1	99	20.40	20.37	20.43			
20	64QAM	50	0	19.24	19.40	19.27			
20	64QAM	50	24	19.26	19.32	19.32	21	3	
20	64QAM	50	50	19.33	19.30	19.29			
20	64QAM	100	0	19.23	19.35	19.30			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.31	22.39	22.31	24	0	
15	QPSK	1	37	22.23	22.39	22.27			
15	QPSK	1	74	22.17	22.25	22.19			
15	QPSK	36	0	21.25	21.38	21.20	23	1	
15	QPSK	36	20	21.24	21.31	21.22			
15	QPSK	36	39	21.18	21.27	21.06			
15	QPSK	75	0	21.28	21.35	21.22	23	1	
15	16QAM	1	0	21.41	21.46	21.42			
15	16QAM	1	37	21.33	21.39	21.45			
15	16QAM	1	74	21.43	21.39	21.49	22	2	
15	16QAM	36	0	20.18	20.34	20.18			
15	16QAM	36	20	20.28	20.12	20.29			
15	16QAM	36	39	20.19	20.22	20.24	22	2	
15	16QAM	75	0	20.12	20.23	20.17			
15	64QAM	1	0	20.31	20.41	20.23			
15	64QAM	1	37	20.24	20.29	20.32	22	2	
15	64QAM	1	74	20.28	20.30	20.35			
15	64QAM	36	0	19.24	19.37	19.13			
15	64QAM	36	20	19.18	19.27	19.19	21	3	
15	64QAM	36	39	19.25	19.20	19.20			
15	64QAM	75	0	19.13	19.32	19.17			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.29	22.40	22.22	24	0	
10	QPSK	1	25	22.20	22.36	22.29			
10	QPSK	1	49	22.16	22.23	22.22			
10	QPSK	25	0	21.32	21.34	21.27	23	1	
10	QPSK	25	12	21.33	21.35	21.28			
10	QPSK	25	25	21.21	21.25	21.05			
10	QPSK	50	0	21.20	21.29	21.18	23	1	
10	16QAM	1	0	21.41	21.44	21.38			
10	16QAM	1	25	21.39	21.32	21.45			
10	16QAM	1	49	21.38	21.43	21.42	22	2	
10	16QAM	25	0	20.24	20.33	20.25			
10	16QAM	25	12	20.22	20.21	20.21			
10	16QAM	25	25	20.25	20.24	20.33	22	2	
10	16QAM	50	0	20.14	20.26	20.20			
10	64QAM	1	0	20.31	20.37	20.27			
10	64QAM	1	25	20.25	20.22	20.33	22	2	
10	64QAM	1	49	20.33	20.31	20.32			
10	64QAM	25	0	19.28	19.28	19.23			
10	64QAM	25	12	19.17	19.24	19.22	21	3	
10	64QAM	25	25	19.20	19.19	19.23			
10	64QAM	50	0	19.18	19.26	19.25			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.35	22.43	22.31	24	0	
5	QPSK	1	12	22.23	22.31	22.18			
5	QPSK	1	24	22.21	22.32	22.21			
5	QPSK	12	0	21.33	21.40	21.29	23	1	
5	QPSK	12	7	21.34	21.39	21.25			
5	QPSK	12	13	21.18	21.25	21.16			
5	QPSK	25	0	21.20	21.31	21.21	23	1	
5	16QAM	1	0	21.40	21.47	21.39			
5	16QAM	1	12	21.37	21.35	21.39			
5	16QAM	1	24	21.34	21.42	21.44	22	2	
5	16QAM	12	0	20.15	20.36	20.27			
5	16QAM	12	7	20.26	20.19	20.20			
5	16QAM	12	13	20.25	20.21	20.26	22	2	
5	16QAM	25	0	20.16	20.33	20.20			
5	64QAM	1	0	20.30	20.36	20.31			
5	64QAM	1	12	20.30	20.28	20.39	22	2	
5	64QAM	1	24	20.29	20.28	20.38			
5	64QAM	12	0	19.23	19.35	19.14			
5	64QAM	12	7	19.14	19.19	19.18	21	3	
5	64QAM	12	13	19.26	19.17	19.24			
5	64QAM	25	0	19.11	19.29	19.20			



Band 38 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.71	22.84	22.77	24	0	
20	QPSK	1	49	22.70	22.76	22.86			
20	QPSK	1	99	22.58	22.69	22.59	23	1	
20	QPSK	50	0	21.68	21.83	21.70			
20	QPSK	50	24	21.62	21.76	21.62	23	1	
20	QPSK	50	50	21.58	21.68	21.59			
20	QPSK	100	0	21.61	21.72	21.67	23	1	
20	16QAM	1	0	21.71	21.80	21.88			
20	16QAM	1	49	21.69	21.89	21.69	22	2	
20	16QAM	1	99	21.68	21.72	21.76			
20	16QAM	50	0	20.68	20.81	20.72	22	2	
20	16QAM	50	24	20.67	20.68	20.69			
20	16QAM	50	50	20.72	20.69	20.75	22	2	
20	16QAM	100	0	20.66	20.77	20.74			
20	64QAM	1	0	20.39	20.47	20.41	22	2	
20	64QAM	1	49	20.40	20.42	20.35			
20	64QAM	1	99	20.36	20.37	20.33	21	3	
20	64QAM	50	0	19.70	19.80	19.72			
20	64QAM	50	24	19.73	19.67	19.75	21	3	
20	64QAM	50	50	19.76	19.67	19.75			
20	64QAM	100	0	19.58	19.72	19.57			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.66	22.70	22.74	24	0	
15	QPSK	1	37	22.57	22.68	22.52			
15	QPSK	1	74	22.54	22.65	22.51	23	1	
15	QPSK	36	0	21.58	21.74	21.66			
15	QPSK	36	20	21.58	21.71	21.54	23	1	
15	QPSK	36	39	21.48	21.57	21.48			
15	QPSK	75	0	21.47	21.57	21.59	23	1	
15	16QAM	1	0	21.66	21.75	21.64			
15	16QAM	1	37	21.62	21.58	21.62	22	2	
15	16QAM	1	74	21.61	21.57	21.64			
15	16QAM	36	0	20.65	20.67	20.64	22	2	
15	16QAM	36	20	20.61	20.63	20.60			
15	16QAM	36	39	20.58	20.58	20.59	22	2	
15	16QAM	75	0	20.60	20.71	20.65			
15	64QAM	1	0	20.31	20.38	20.29	22	2	
15	64QAM	1	37	20.35	20.37	20.26			
15	64QAM	1	74	20.27	20.26	20.21	21	3	
15	64QAM	36	0	19.57	19.72	19.66			
15	64QAM	36	20	19.60	19.67	19.67	21	3	
15	64QAM	36	39	19.72	19.61	19.72			
15	64QAM	75	0	19.45	19.68	19.44			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.73	22.78	22.70	24	0	
10	QPSK	1	25	22.60	22.63	22.54			
10	QPSK	1	49	22.54	22.58	22.52	23	1	
10	QPSK	25	0	21.55	21.76	21.64			
10	QPSK	25	12	21.49	21.69	21.56	23	1	
10	QPSK	25	25	21.46	21.54	21.54			
10	QPSK	50	0	21.49	21.69	21.63	23	1	
10	16QAM	1	0	21.64	21.70	21.55			
10	16QAM	1	25	21.65	21.64	21.59	22	2	
10	16QAM	1	49	21.61	21.59	21.73			
10	16QAM	25	0	20.53	20.77	20.68	22	2	
10	16QAM	25	12	20.54	20.54	20.62			
10	16QAM	25	25	20.67	20.60	20.68	22	2	
10	16QAM	50	0	20.52	20.65	20.61			
10	64QAM	1	0	20.33	20.35	20.37	22	2	
10	64QAM	1	25	20.28	20.34	20.29			
10	64QAM	1	49	20.25	20.28	20.29	21	3	
10	64QAM	25	0	19.59	19.71	19.68			
10	64QAM	25	12	19.62	19.63	19.64	21	3	
10	64QAM	25	25	19.67	19.53	19.60			
10	64QAM	50	0	19.54	19.68	19.42			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.57	22.81	22.62	24	0	
5	QPSK	1	12	22.63	22.68	22.59			
5	QPSK	1	24	22.51	22.63	22.44	23	1	
5	QPSK	12	0	21.56	21.74	21.55			
5	QPSK	12	7	21.53	21.59	21.48	23	1	
5	QPSK	12	13	21.53	21.60	21.49			
5	QPSK	25	0	21.50	21.61	21.62	23	1	
5	16QAM	1	0	21.61	21.68	21.65			
5	16QAM	1	12	21.54	21.60	21.58	23	1	
5	16QAM	1	24	21.60	21.58	21.72			
5	16QAM	12	0	20.58	20.76	20.62	22	2	
5	16QAM	12	7	20.59	20.58	20.57			
5	16QAM	12	13	20.60	20.65	20.71	22	2	
5	16QAM	25	0	20.56	20.68	20.63			
5	64QAM	1	0	20.26	20.33	20.36	22	2	
5	64QAM	1	12	20.31	20.31	20.21			
5	64QAM	1	24	20.24	20.24	20.19	21	3	
5	64QAM	12	0	19.56	19.66	19.66			
5	64QAM	12	7	19.64	19.61	19.62	21	3	
5	64QAM	12	13	19.62	19.54	19.64			
5	64QAM	25	0	19.45	19.59	19.49			

Band 41 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620			
Frequency (MHz)				2506	2549.5	2593			
20	QPSK	1	0	22.60	22.63	22.68	24	0	
20	QPSK	1	49	22.63	22.72	22.84			
20	QPSK	1	99	22.58	22.59	22.70	23	1	
20	QPSK	50	0	21.68	21.71	21.80			
20	QPSK	50	24	21.64	21.63	21.74	23	1	
20	QPSK	50	50	21.56	21.66	21.70			
20	QPSK	100	0	21.68	21.69	21.76	23	1	
20	16QAM	1	0	21.75	21.74	21.86			
20	16QAM	1	49	21.79	21.75	21.76	23	1	
20	16QAM	1	99	21.74	21.82	21.74			
20	16QAM	50	0	20.74	20.85	20.77	22	2	
20	16QAM	50	24	20.73	20.62	20.63			
20	16QAM	50	50	20.71	20.65	20.69	22	2	
20	16QAM	100	0	20.64	20.64	20.78			
20	64QAM	1	0	20.52	20.48	20.52	22	2	
20	64QAM	1	49	20.52	20.47	20.53			
20	64QAM	1	99	20.53	20.58	20.55	21	3	
20	64QAM	50	0	19.66	19.64	19.70			
20	64QAM	50	24	19.59	19.61	19.64	21	3	
20	64QAM	50	50	19.61	19.63	19.67			
20	64QAM	100	0	19.66	19.68	19.73			
Channel				39725	40173	40620			
Frequency (MHz)				2503.5	2548.3	2593			
15	QPSK	1	0	22.47	22.57	22.73	24	0	
15	QPSK	1	37	22.58	22.61	22.73			
15	QPSK	1	74	22.48	22.53	22.67	23	1	
15	QPSK	36	0	21.61	21.57	21.69			
15	QPSK	36	20	21.50	21.52	21.69	23	1	
15	QPSK	36	39	21.42	21.56	21.60			
15	QPSK	75	0	21.57	21.56	21.62	23	1	
15	16QAM	1	0	21.64	21.56	21.76			
15	16QAM	1	37	21.65	21.65	21.72	22	2	
15	16QAM	1	74	21.64	21.75	21.63			
15	16QAM	36	0	20.64	20.55	20.66	22	2	
15	16QAM	36	20	20.59	20.49	20.59			
15	16QAM	36	39	20.65	20.62	20.58	22	2	
15	16QAM	75	0	20.59	20.57	20.64			
15	64QAM	1	0	20.40	20.42	20.58	22	2	
15	64QAM	1	37	20.39	20.35	20.42			
15	64QAM	1	74	20.50	20.48	20.43	21	3	
15	64QAM	36	0	19.53	19.54	19.61			
15	64QAM	36	20	19.53	19.51	19.49	21	3	
15	64QAM	36	39	19.57	19.59	19.55			
15	64QAM	75	0	19.61	19.58	19.58			
Channel				39700	40160	40620			
Frequency (MHz)				2501	2547	2593			
10	QPSK	1	0	22.56	22.61	22.70	24	0	
10	QPSK	1	25	22.60	22.65	22.70			
10	QPSK	1	49	22.44	22.48	22.65	23	1	
10	QPSK	25	0	21.55	21.61	21.75			
10	QPSK	25	12	21.52	21.58	21.67	23	1	
10	QPSK	25	25	21.48	21.57	21.62			
10	QPSK	50	0	21.					



Band 4 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.66	22.76	22.69			
20	QPSK	1	49	22.64	22.76	22.66			
20	QPSK	1	99	22.73	22.81	22.70			
20	QPSK	50	0	21.71	21.82	21.75			
20	QPSK	50	24	21.67	21.76	21.71			
20	QPSK	50	50	21.65	21.73	21.67			
20	QPSK	100	0	21.68	21.75	21.58			
20	16QAM	1	0	21.74	21.84	21.71			
20	16QAM	1	49	21.67	21.73	21.73			
20	16QAM	1	99	21.75	21.72	21.73			
20	16QAM	50	0	20.81	20.91	20.84			
20	16QAM	50	24	20.86	20.83	20.77			
20	16QAM	50	50	20.82	20.76	20.77			
20	16QAM	100	0	20.88	20.84	20.85			
20	84QAM	1	0	20.75	20.86	20.85			
20	84QAM	1	49	20.70	20.78	20.77			
20	84QAM	1	99	20.75	20.75	20.79			
20	84QAM	50	0	19.80	19.86	19.79			
20	84QAM	50	24	19.76	19.75	19.78			
20	84QAM	50	50	19.79	19.85	19.85			
20	84QAM	100	0	19.88	19.92	19.89			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.58	22.79	22.67			
15	QPSK	1	37	22.61	22.70	22.62			
15	QPSK	1	74	22.68	22.77	22.68			
15	QPSK	36	0	21.65	21.77	21.66			
15	QPSK	36	20	21.61	21.76	21.62			
15	QPSK	36	39	21.65	21.71	21.61			
15	QPSK	75	0	21.59	21.69	21.55			
15	16QAM	1	0	21.69	21.81	21.64			
15	16QAM	1	37	21.64	21.69	21.71			
15	16QAM	1	74	21.71	21.65	21.70			
15	16QAM	36	0	20.76	20.87	20.77			
15	16QAM	36	20	20.82	20.83	20.73			
15	16QAM	36	39	20.75	20.74	20.78			
15	16QAM	75	0	20.83	20.84	20.75			
15	84QAM	1	0	20.72	20.81	20.82			
15	84QAM	1	37	20.66	20.73	20.75			
15	84QAM	1	74	20.68	20.68	20.78			
15	84QAM	36	0	19.81	19.86	19.72			
15	84QAM	36	20	19.68	19.72	19.73			
15	84QAM	36	39	19.77	19.80	19.77			
15	84QAM	75	0	19.81	19.80	19.86			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.59	22.78	22.63			
10	QPSK	1	25	22.59	22.71	22.61			
10	QPSK	1	49	22.67	22.79	22.66			
10	QPSK	25	0	21.65	21.78	21.67			
10	QPSK	25	12	21.52	21.66	21.56			
10	QPSK	25	25	21.64	21.75	21.60			
10	QPSK	50	0	21.64	21.72	21.57			
10	16QAM	1	0	21.71	21.74	21.66			
10	16QAM	1	25	21.68	21.69	21.70			
10	16QAM	1	49	21.70	21.68	21.70			
10	16QAM	25	0	20.80	20.81	20.81			
10	16QAM	25	12	20.83	20.82	20.75			
10	16QAM	25	25	20.74	20.72	20.77			
10	16QAM	50	0	20.84	20.91	20.78			
10	84QAM	1	0	20.75	20.82	20.83			
10	84QAM	1	25	20.68	20.74	20.74			
10	84QAM	1	49	20.71	20.69	20.73			
10	84QAM	25	0	19.76	19.84	19.70			
10	84QAM	25	12	19.70	19.73	19.73			
10	84QAM	25	25	19.73	19.81	19.82			
10	84QAM	50	0	19.82	19.91	19.83			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.61	22.79	22.63			
5	QPSK	1	12	22.62	22.72	22.65			
5	QPSK	1	24	22.71	22.74	22.66			
5	QPSK	12	0	21.66	21.81	21.69			
5	QPSK	12	7	21.67	21.73	21.64			
5	QPSK	12	13	21.61	21.74	21.62			
5	QPSK	25	0	21.59	21.72	21.56			
5	16QAM	1	0	21.69	21.81	21.66			
5	16QAM	1	12	21.63	21.68	21.65			
5	16QAM	1	24	21.71	21.65	21.73			
5	16QAM	12	0	20.77	20.88	20.80			
5	16QAM	12	7	20.85	20.80	20.75			
5	16QAM	12	13	20.75	20.70	20.77			
5	16QAM	25	0	20.84	20.89	20.80			
5	84QAM	1	0	20.74	20.81	20.82			
5	84QAM	1	12	20.68	20.75	20.79			
5	84QAM	1	24	20.67	20.72	20.72			
5	84QAM	12	0	19.80	19.83	19.72			
5	84QAM	12	7	19.70	19.71	19.76			
5	84QAM	12	13	19.75	19.83	19.77			
5	84QAM	25	0	19.79	19.90	19.83			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.57	22.76	22.64			
3	QPSK	1	8	22.54	22.67	22.56			
3	QPSK	1	14	22.62	22.68	22.65			
3	QPSK	8	0	21.64	21.72	21.62			
3	QPSK	8	4	21.61	21.76	21.62			
3	QPSK	8	7	21.60	21.73	21.57			
3	QPSK	15	0	21.55	21.65	21.54			
3	16QAM	1	0	21.68	21.74	21.59			
3	16QAM	1	8	21.63	21.65	21.61			
3	16QAM	1	14	21.68	21.60	21.68			
3	16QAM	8	0	20.74	20.81	20.80			
3	16QAM	8	4	20.82	20.75	20.71			
3	16QAM	8	7	20.73	20.69	20.74			
3	16QAM	15	0	20.75	20.89	20.72			
3	84QAM	1	0	20.70	20.77	20.76			
3	84QAM	1	8	20.61	20.66	20.69			
3	84QAM	1	14	20.80	20.86	20.73			
3	84QAM	8	0	19.73	19.83	19.67			
3	84QAM	8	4	19.66	19.63	19.70			
3	84QAM	8	7	19.71	19.74	19.78			
3	84QAM	15	0	19.74	19.86	19.83			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.55	22.73	22.61			
1.4	QPSK	1	2	22.52	22.68	22.59			
1.4	QPSK	1	5	22.65	22.70	22.64			
1.4	QPSK	3	0	22.55	22.74	22.60			
1.4	QPSK	3	1	22.55	22.68	22.60			
1.4	QPSK	3	3	22.59	22.69	22.62			
1.4	QPSK	6	0	21.58	21.65	21.58			
1.4	16QAM	1	0	21.64	21.72	21.63			
1.4	16QAM	1	3	21.60	21.66	21.62			
1.4	16QAM	1	5	21.66	21.59	21.68			
1.4	16QAM	3	0	22.59	22.76	22.64			
1.4	16QAM	3	1	22.57	22.63	22.55			
1.4	16QAM	3	3	22.61	22.70	22.63			
1.4	16QAM	6	0	20.72	20.78	20.75			
1.4	84QAM	1	3	20.66	20.69	20.73			
1.4	84QAM	1	5	20.60	20.67	20.69			
1.4	84QAM	3	0	20.63	20.75	20.75			
1.4	84QAM	3	1	20.58	20.61	20.66			
1.4	84QAM	3	3	20.54	20.62	20.68			
1.4	84QAM	6	0	19.74	19.86	19.82			

Band 7 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.56	22.66	22.61			
20	QPSK	1	49	22.59	22.63	22.49			
20	QPSK	1	99	22.49	22.58	22.50			
20	QPSK	50	0	21.96	22.01	21.89			
20	QPSK	50	24	21.83	21.95	21.88			
20	QPSK	50	50	21.82	21.93	21.87			
20	QPSK	100	0	21.85	21.88	21.82			
20	16QAM	1	0	21.75	21.84	21.72			
20	16QAM	1	49	21.72	21.78	21.68			
20	16QAM	1	99	21					



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						
Frequency (MHz)						
20	QPSK 1 0	22.80	22.90	22.89	24	0
20	QPSK 1 49	22.75	22.83	22.85		
20	QPSK 1 99	22.80	22.72	22.87		
20	QPSK 50 0	21.79	21.87	21.78	23	1
20	QPSK 50 24	21.65	21.80	21.65		
20	QPSK 50 50	21.65	21.74	21.60		
20	QPSK 100 0	21.72	21.80	21.68	23	1
20	16QAM 1 0	21.74	21.86	21.53		
20	16QAM 1 49	21.71	21.82	21.70		
20	16QAM 1 99	21.75	21.80	21.69	22	2
20	16QAM 50 0	20.83	20.88	20.68		
20	16QAM 50 24	20.82	20.84	20.68		
20	16QAM 50 50	20.80	20.77	20.66	22	2
20	16QAM 100 0	20.75	20.79	20.56		
20	64QAM 1 0	20.55	20.64	20.50		
20	64QAM 1 49	20.56	20.51	20.49	22	2
20	64QAM 1 99	20.56	20.58	20.53		
20	64QAM 50 0	19.72	19.84	19.71		
20	64QAM 50 24	19.77	19.73	19.69	21	3
20	64QAM 50 50	19.78	19.77	19.73		
20	64QAM 100 0	19.83	19.78	19.60		
Channel						
Frequency (MHz)						
15	QPSK 1 0	22.67	22.85	22.57	24	0
15	QPSK 1 37	22.80	22.71	22.82		
15	QPSK 1 74	22.46	22.69	22.48		
15	QPSK 36 0	21.73	21.84	21.73	23	1
15	QPSK 36 20	21.51	21.74	21.56		
15	QPSK 36 39	21.59	21.70	21.52		
15	QPSK 75 0	21.68	21.77	21.57	23	1
15	16QAM 1 0	21.61	21.82	21.54		
15	16QAM 1 37	21.59	21.74	21.62		
15	16QAM 1 74	21.65	21.76	21.59	22	2
15	16QAM 36 0	20.72	20.84	20.64		
15	16QAM 36 20	20.71	20.70	20.55		
15	16QAM 36 39	20.67	20.67	20.67	22	2
15	16QAM 75 0	20.71	20.68	20.49		
15	64QAM 1 0	20.44	20.58	20.41		
15	64QAM 1 37	20.49	20.39	20.46	22	2
15	64QAM 1 74	20.45	20.51	20.42		
15	64QAM 36 0	19.64	19.80	19.67		
15	64QAM 36 20	19.62	19.63	19.63	21	3
15	64QAM 36 39	19.71	19.72	19.59		
15	64QAM 75 0	19.57	19.65	19.56		
Channel						
Frequency (MHz)						
10	QPSK 1 0	22.77	22.76	22.65	24	0
10	QPSK 1 25	22.63	22.77	22.54		
10	QPSK 1 49	22.46	22.63	22.53		
10	QPSK 25 0	21.72	21.73	21.67	23	1
10	QPSK 25 12	21.54	21.71	21.50		
10	QPSK 25 25	21.52	21.66	21.46		
10	QPSK 50 0	21.59	21.72	21.58	23	1
10	16QAM 1 0	21.71	21.78	21.50		
10	16QAM 1 25	21.60	21.78	21.60		
10	16QAM 1 49	21.68	21.65	21.63	22	2
10	16QAM 25 0	20.78	20.77	20.54		
10	16QAM 25 12	20.73	20.76	20.64		
10	16QAM 25 25	20.70	20.63	20.59	22	2
10	16QAM 50 0	20.65	20.71	20.42		
10	64QAM 1 0	20.45	20.51	20.38		
10	64QAM 1 25	20.51	20.45	20.34	22	2
10	64QAM 1 49	20.44	20.46	20.39		
10	64QAM 25 0	19.65	19.81	19.63		
10	64QAM 25 12	19.68	19.65	19.61	21	3
10	64QAM 25 25	19.71	19.64	19.61		
10	64QAM 50 0	19.58	19.72	19.48		
Channel						
Frequency (MHz)						
5	QPSK 1 0	22.73	22.77	22.55	24	0
5	QPSK 1 12	22.68	22.76	22.57		
5	QPSK 1 24	22.54	22.64	22.49		
5	QPSK 12 0	21.67	21.79	21.62	23	1
5	QPSK 12 7	21.52	21.72	21.58		
5	QPSK 12 13	21.54	21.59	21.55		
5	QPSK 25 0	21.62	21.68	21.61	23	1
5	16QAM 1 0	21.64	21.77	21.60		
5	16QAM 1 12	21.63	21.71	21.64		
5	16QAM 1 24	21.70	21.68	21.62	22	2
5	16QAM 12 0	20.69	20.79	20.54		
5	16QAM 12 7	20.73	20.72	20.55		
5	16QAM 12 13	20.67	20.73	20.62	22	2
5	16QAM 25 0	20.66	20.68	20.44		
5	64QAM 1 0	20.47	20.57	20.41		
5	64QAM 1 12	20.45	20.37	20.35	22	2
5	64QAM 1 24	20.48	20.53	20.45		
5	64QAM 12 0	19.61	19.74	19.66		
5	64QAM 12 7	19.66	19.65	19.64	21	3
5	64QAM 12 13	19.74	19.62	19.61		
5	64QAM 25 0	19.54	19.61	19.45		



Reduced Power Mode for DSI2

Band 7 DSI2 NSA Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20650	21100	21550		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	19.45	19.37	19.53	21	0
20	QPSK	1	49	19.41	19.49	19.43		
20	QPSK	1	99	19.42	19.52	19.47		
20	QPSK	50	0	19.49	19.53	19.46	21	0
20	QPSK	50	24	19.32	19.41	19.34		
20	QPSK	50	50	19.36	19.45	19.39		
20	QPSK	100	0	19.40	19.45	19.33	21	0
20	16QAM	1	0	19.44	19.54	19.48		
20	16QAM	1	49	19.41	19.54	19.45		
20	16QAM	1	99	19.41	19.48	19.33	21	0
20	16QAM	50	0	19.49	19.54	19.45		
20	16QAM	50	24	19.43	19.51	19.44		
20	16QAM	50	50	19.40	19.52	19.43	21	0
20	16QAM	100	0	19.33	19.46	19.35		
20	64QAM	1	0	19.37	19.41	19.28		
20	64QAM	1	49	19.35	19.45	19.32	21	0
20	64QAM	1	99	19.41	19.53	19.39		
20	64QAM	50	0	19.35	19.44	19.29		
20	64QAM	50	24	19.25	19.38	19.26	21	0
20	64QAM	50	50	19.24	19.32	19.19		
20	64QAM	100	0	19.31	19.41	19.32		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	19.41	19.52	19.42	21	0
15	QPSK	1	37	19.30	19.44	19.36		
15	QPSK	1	74	19.36	19.38	19.37		
15	QPSK	36	0	19.35	19.48	19.32	21	0
15	QPSK	36	20	19.29	19.35	19.30		
15	QPSK	36	39	19.29	19.33	19.34		
15	QPSK	75	0	19.27	19.35	19.25	21	0
15	16QAM	1	0	19.34	19.40	19.39		
15	16QAM	1	37	19.38	19.46	19.35		
15	16QAM	1	74	19.34	19.36	19.20	21	0
15	16QAM	36	0	19.38	19.47	19.36		
15	16QAM	36	20	19.33	19.46	19.31		
15	16QAM	36	39	19.26	19.46	19.29	21	0
15	16QAM	75	0	19.20	19.36	19.24		
15	64QAM	1	0	19.26	19.31	19.21		
15	64QAM	1	37	19.26	19.40	19.28	21	0
15	64QAM	1	74	19.38	19.38	19.32		
15	64QAM	36	0	19.25	19.29	19.26		
15	64QAM	36	20	19.22	19.33	19.21	21	0
15	64QAM	36	39	19.21	19.29	19.13		
15	64QAM	75	0	19.24	19.37	19.21		
Channel				20900	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	19.31	19.53	19.43	21	0
10	QPSK	1	25	19.30	19.35	19.36		
10	QPSK	1	49	19.30	19.46	19.43		
10	QPSK	25	0	19.37	19.45	19.41	21	0
10	QPSK	25	12	19.23	19.32	19.20		
10	QPSK	25	25	19.23	19.36	19.24		
10	QPSK	50	0	19.28	19.35	19.20	21	0
10	16QAM	1	0	19.35	19.41	19.35		
10	16QAM	1	25	19.36	19.41	19.34		
10	16QAM	1	49	19.29	19.44	19.23	21	0
10	16QAM	25	0	19.41	19.48	19.34		
10	16QAM	25	12	19.31	19.42	19.36		
10	16QAM	25	25	19.30	19.42	19.33	21	0
10	16QAM	50	0	19.23	19.33	19.24		
10	64QAM	1	0	19.33	19.35	19.22		
10	64QAM	1	25	19.24	19.41	19.23	21	0
10	64QAM	1	49	19.26	19.39	19.24		
10	64QAM	25	0	19.23	19.40	19.17		
10	64QAM	25	12	19.13	19.31	19.19	21	0
10	64QAM	25	25	19.21	19.18	19.09		
10	64QAM	50	0	19.20	19.35	19.19		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	19.41	19.53	19.44	21	0
5	QPSK	1	12	19.30	19.37	19.30		
5	QPSK	1	24	19.33	19.46	19.35		
5	QPSK	12	0	19.45	19.42	19.33	21	0
5	QPSK	12	7	19.18	19.38	19.23		
5	QPSK	12	13	19.32	19.40	19.36		
5	QPSK	25	0	19.25	19.38	19.20	21	0
5	16QAM	1	0	19.32	19.47	19.34		
5	16QAM	1	12	19.29	19.45	19.32		
5	16QAM	1	24	19.36	19.44	19.21	21	0
5	16QAM	12	0	19.36	19.45	19.41		
5	16QAM	12	7	19.31	19.39	19.31		
5	16QAM	12	13	19.37	19.38	19.36	21	0
5	16QAM	25	0	19.24	19.40	19.21		
5	64QAM	1	0	19.29	19.28	19.15		
5	64QAM	1	12	19.32	19.36	19.24	21	0
5	64QAM	1	24	19.33	19.38	19.27		
5	64QAM	12	0	19.25	19.40	19.26		
5	64QAM	12	7	19.14	19.29	19.19	21	0
5	64QAM	12	13	19.15	19.17	19.09		
5	64QAM	25	0	19.16	19.37	19.18		



Band 4 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
				20025	20175	20325				
				1712.5	1727.5	1742.5				
20	QPSK	1	0	14.12	14.27	14.18	15.5	0		
20	QPSK	1	49	14.04	14.13	14.03				
20	QPSK	1	99	14.14	14.16	14.08				
20	QPSK	50	0	14.13	14.24	14.23				
20	QPSK	50	24	14.12	14.22	14.08	15.5	0		
20	QPSK	50	50	13.98	14.11	13.97				
20	QPSK	100	0	14.13	14.21	14.21				
20	16QAM	1	0	14.18	14.24	14.11				
20	16QAM	1	49	14.16	14.26	14.13	15.5	0		
20	16QAM	1	99	14.04	14.16	14.07				
20	16QAM	50	0	14.05	14.16	14.06				
20	16QAM	50	24	14.17	14.21	14.12	15.5	0		
20	16QAM	50	50	14.20	14.22	14.08				
20	16QAM	100	0	14.07	14.19	14.09				
20	64QAM	1	0	14.09	14.19	14.07				
20	64QAM	1	49	14.11	14.21	14.17	15.5	0		
20	64QAM	1	99	14.00	14.17	14.09				
20	64QAM	50	0	13.97	14.11	14.01				
20	64QAM	50	24	14.20	14.22	14.14	15.5	0		
20	64QAM	50	50	14.10	14.13	14.05				
20	64QAM	100	0	14.01	14.10	14.03				
Channel										
				20025	20175	20325				
				1717.5	1732.5	1747.5				
15	QPSK	1	0	14.05	14.14	14.12	15.5	0		
15	QPSK	1	37	13.92	13.99	13.95				
15	QPSK	1	74	14.06	14.06	13.94				
15	QPSK	36	0	14.05	14.20	14.20				
15	QPSK	36	20	14.12	14.18	14.05	15.5	0		
15	QPSK	36	39	13.94	13.95	13.92				
15	QPSK	75	0	13.98	14.20	14.18				
15	16QAM	1	0	14.15	14.12	13.97				
15	16QAM	1	37	14.03	14.17	14.07	15.5	0		
15	16QAM	1	74	13.97	14.11	14.06				
15	16QAM	36	0	13.97	14.03	14.05				
15	16QAM	36	20	14.08	14.12	14.01	15.5	0		
15	16QAM	36	39	14.04	14.19	13.95				
15	16QAM	75	0	13.95	14.14	14.02				
15	64QAM	1	0	13.97	14.10	14.00				
15	64QAM	1	37	14.05	14.11	13.98	15.5	0		
15	64QAM	1	74	13.92	14.15	14.08				
15	64QAM	36	0	13.87	14.04	13.89	15.5	0		
15	64QAM	36	20	14.09	14.15	14.11				
15	64QAM	36	39	14.05	14.03	13.99	15.5	0		
15	64QAM	75	0	13.91	14.01	13.98				
Channel										
				20000	20175	20350				
				1715	1732.5	1750				
10	QPSK	1	0	14.12	14.19	14.12				
10	QPSK	1	25	13.98	13.96	13.94	15.5	0		
10	QPSK	1	49	14.11	14.05	13.96				
10	QPSK	25	0	14.06	14.19	14.19				
10	QPSK	25	12	14.02	14.22	14.03	15.5	0		
10	QPSK	25	25	13.90	13.91	13.92				
10	QPSK	50	0	14.02	14.19	14.17				
10	16QAM	1	0	14.14	14.10	13.96				
10	16QAM	1	25	14.06	14.18	14.02	15.5	0		
10	16QAM	1	49	13.94	14.07	14.05				
10	16QAM	25	0	13.92	14.02	14.08				
10	16QAM	25	12	14.10	14.12	14.03	15.5	0		
10	16QAM	25	25	14.08	14.19	13.97				
10	16QAM	50	0	13.97	14.12	13.99				
10	64QAM	1	0	14.00	14.12	13.95				
10	64QAM	1	25	14.05	14.11	13.99	15.5	0		
10	64QAM	1	49	13.96	14.12	14.03				
10	64QAM	25	0	13.87	14.02	13.92				
10	64QAM	25	12	14.07	14.13	14.11	15.5	0		
10	64QAM	25	25	14.10	14.02	13.97				
10	64QAM	50	0	13.87	14.05	13.95				
Channel										
				19975	20175	20375				
				1712.5	1732.5	1752.5				
5	QPSK	1	0	14.06	14.14	14.16	15.5	0		
5	QPSK	1	12	13.92	13.93	13.98				
5	QPSK	1	24	14.07	14.05	14.04				
5	QPSK	12	0	14.02	14.17	14.15				
5	QPSK	12	7	14.06	14.21	14.03	15.5	0		
5	QPSK	12	13	13.95	13.94	13.91				
5	QPSK	25	0	13.99	14.19	14.15				
5	16QAM	1	0	14.14	14.13	13.99				
5	16QAM	1	12	14.06	14.20	14.03	15.5	0		
5	16QAM	1	24	13.93	14.10	14.08				
5	16QAM	12	0	13.98	14.04	14.03				
5	16QAM	12	7	14.08	14.12	13.99	15.5	0		
5	16QAM	12	13	14.09	14.15	13.99				
5	16QAM	25	0	13.91	14.12	14.04				
5	64QAM	1	0	13.98	14.10	13.97				
5	64QAM	1	12	14.02	14.13	14.00	15.5	0		
5	64QAM	1	24	13.91	14.12	14.10				
5	64QAM	12	0	13.87	14.06	13.89				
5	64QAM	12	7	14.07	14.14	14.13	15.5	0		
5	64QAM	12	13	14.08	14.12	13.96				
5	64QAM	25	0	13.91	14.07	13.91				
Channel										
				19965	20175	20385				
				1711.5	1732.5	1753.5				
3	QPSK	1	0	14.08	14.18	14.12	15.5	0		
3	QPSK	1	8	13.97	13.97	13.97				
3	QPSK	1	14	14.08	14.05	13.98				
3	QPSK	8	0	14.04	14.20	14.16				
3	QPSK	8	4	14.10	14.21	14.06	15.5	0		
3	QPSK	8	7	13.93	13.91	13.85				
3	QPSK	15	0	13.96	14.16	14.15				
3	16QAM	1	0	14.16	14.09	13.98				
3	16QAM	1	8	14.04	14.16	14.09	15.5	0		
3	16QAM	1	14	13.94	14.08	14.07				
3	16QAM	8	0	14.04	14.09	14.07				
3	16QAM	8	4	14.11	14.11	14.04	15.5	0		
3	16QAM	8	7	14.06	14.19	13.99				
3	16QAM	15	0	13.92	14.14	14.02				
3	64QAM	1	0	13.97	14.15	13.98				
3	64QAM	1	8	14.05	14.09	14.03	15.5	0		
3	64QAM	1	14	13.95	14.12	14.07				
3	64QAM	8	0	13.87	14.00	13.86				
3	64QAM	8	4	14.11	14.13	14.12	15.5	0		
3	64QAM	8	7	14.07	14.04	13.98				
3	64QAM	15	0	13.88	14.06	13.93				
Channel										
				19957	20175	20393				
				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	14.05	14.20	14.14	15.5	0		
1.4	QPSK	1	3	13.92	14.01	13.95				
1.4	QPSK	1	5	14.09	14.06	13.97				
1.4	QPSK	3	0	14.01	14.21	14.17				
1.4	QPSK	3	1	14.11	14.14	14.10	15.5	0		
1.4	QPSK	3	3	13.94	13.97	13.89				
1.4	QPSK	6	0	14.01	14.19	14.15				
1.4	16QAM	1	0	14.12	14.07	13.99				
1.4	16QAM	1	3	14.08	14.14	14.06	15.5	0		
1.4	16QAM	1	5	13.97	14.12	14.03				
1.4	16QAM	3	0	13.99	14.10	14.06				
1.4	16QAM	3	1	14.09	14.16	14.01	15.5	0		
1.4	16QAM	3	3	14.10	14.15	13.97				
1.4	16QAM	6	0	13.92	14.13	14.05				
1.4	64QAM	1	0	14.03	14.10	13.96	15.5	0		
1.4	64QAM	1	3	14.05	14.15	14.00				
1.4	64QAM	1	5	13.95	14.14	14.0				



Band 42 FCC Part27Q DSI2 SA Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42990	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	18.59	18.64	18.50	19.5	0	
20	QPSK	1	49	18.41	18.48	18.37			
20	QPSK	1	99	18.37	18.51	18.41			
20	QPSK	50	0	18.42	18.45	18.44	19.5	0	
20	QPSK	50	24	18.31	18.41	18.32			
20	QPSK	50	50	18.38	18.47	18.39			
20	QPSK	100	0	18.41	18.53	18.38	19.5	0	
20	16QAM	1	0	18.36	18.50	18.40			
20	16QAM	1	49	18.49	18.58	18.44			
20	16QAM	1	99	18.37	18.52	18.49	19.5	0	
20	16QAM	50	0	18.34	18.48	18.33			
20	16QAM	50	24	18.48	18.53	18.44			
20	16QAM	50	50	18.48	18.54	18.44	19.5	0	
20	16QAM	100	0	18.46	18.51	18.40			
20	64QAM	1	0	18.48	18.55	18.44			
20	64QAM	1	49	18.44	18.54	18.51	19.5	0	
20	64QAM	1	99	18.43	18.46	18.32			
20	64QAM	50	0	18.29	18.42	18.35			
20	64QAM	50	24	18.42	18.49	18.46	19.5	0	
20	64QAM	50	50	18.44	18.51	18.40			
20	64QAM	100	0	18.41	18.49	18.43			
Channel				42165	42990	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	18.52	18.51	18.45	19.5	0	
15	QPSK	1	37	18.34	18.44	18.24			
15	QPSK	1	74	18.26	18.38	18.35			
15	QPSK	36	0	18.30	18.38	18.33	19.5	0	
15	QPSK	36	20	18.17	18.30	18.28			
15	QPSK	36	39	18.31	18.42	18.30			
15	QPSK	75	0	18.33	18.44	18.27	19.5	0	
15	16QAM	1	0	18.27	18.39	18.33			
15	16QAM	1	37	18.35	18.50	18.31			
15	16QAM	1	74	18.25	18.39	18.35	19.5	0	
15	16QAM	36	0	18.27	18.44	18.30			
15	16QAM	36	20	18.33	18.48	18.38			
15	16QAM	36	39	18.35	18.47	18.37	19.5	0	
15	16QAM	75	0	18.34	18.46	18.31			
15	64QAM	1	0	18.44	18.41	18.33			
15	64QAM	1	37	18.38	18.50	18.46	19.5	0	
15	64QAM	1	74	18.29	18.37	18.19			
15	64QAM	36	0	18.21	18.32	18.21			
15	64QAM	36	20	18.39	18.35	18.41	19.5	0	
15	64QAM	36	39	18.33	18.48	18.28			
15	64QAM	75	0	18.34	18.38	18.39			
Channel				42140	42990	43040			
Frequency (MHz)				3465	3500	3545			
10	QPSK	1	0	18.46	18.59	18.43	19.5	0	
10	QPSK	1	25	18.26	18.37	18.26			
10	QPSK	1	49	18.31	18.44	18.35			
10	QPSK	25	0	18.29	18.39	18.34	19.5	0	
10	QPSK	25	12	18.19	18.32	18.25			
10	QPSK	25	25	18.30	18.35	18.27			
10	QPSK	50	0	18.26	18.46	18.23	19.5	0	
10	16QAM	1	0	18.30	18.45	18.29			
10	16QAM	1	25	18.37	18.54	18.36			
10	16QAM	1	49	18.23	18.45	18.40	19.5	0	
10	16QAM	25	0	18.28	18.45	18.30			
10	16QAM	25	12	18.42	18.38	18.36			
10	16QAM	25	25	18.37	18.41	18.34	19.5	0	
10	16QAM	50	0	18.39	18.44	18.32			
10	64QAM	1	0	18.42	18.42	18.31			
10	64QAM	1	25	18.32	18.40	18.36	19.5	0	
10	64QAM	1	49	18.34	18.42	18.29			
10	64QAM	25	0	18.20	18.35	18.22			
10	64QAM	25	12	18.32	18.41	18.40	19.5	0	
10	64QAM	25	25	18.29	18.38	18.26			
10	64QAM	50	0	18.36	18.44	18.29			
Channel				42115	42990	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	18.48	18.53	18.41	19.5	0	
5	QPSK	1	12	18.33	18.34	18.31			
5	QPSK	1	24	18.27	18.43	18.32			
5	QPSK	12	0	18.34	18.38	18.35	19.5	0	
5	QPSK	12	7	18.27	18.34	18.21			
5	QPSK	12	13	18.26	18.40	18.28			
5	QPSK	25	0	18.32	18.40	18.31	19.5	0	
5	16QAM	1	0	18.31	18.38	18.28			
5	16QAM	1	12	18.37	18.47	18.33			
5	16QAM	1	24	18.34	18.39	18.40	19.5	0	
5	16QAM	12	0	18.21	18.42	18.21			
5	16QAM	12	7	18.38	18.44	18.39			
5	16QAM	12	13	18.44	18.45	18.40	19.5	0	
5	16QAM	25	0	18.36	18.39	18.34			
5	64QAM	1	0	18.34	18.42	18.39			
5	64QAM	1	12	18.39	18.48	18.42	19.5	0	
5	64QAM	1	24	18.30	18.35	18.26			
5	64QAM	12	0	18.18	18.35	18.23			
5	64QAM	12	7	18.36	18.37	18.42	19.5	0	
5	64QAM	12	13	18.41	18.38	18.27			
5	64QAM	25	0	18.26	18.38	18.40			



Reduced Power Mode for DSI7

DSI7 SA GSM900 A n/d										
GSM900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)		
	126	180	251		126	180	251			
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8				
GSM 1 Tx slot	29.15	29.21	29.06	30.50	20.15	20.21	20.06	21.50		
GPRS 1 Tx slots	29.08	29.14	29.06	30.50	20.08	20.14	20.06	21.50		
GPRS 2 Tx slots	28.16	28.21	28.13	28.50	22.16	22.21	22.13	23.50		
GPRS 3 Tx slots	26.57	26.70	26.57	28.00	22.31	22.44	22.31	23.74		
GPRS 4 Tx slots	25.88	25.73	25.89	27.00	22.68	22.73	22.69	24.00		
EDGE 1 Tx slot	24.09	24.20	24.13	25.50	18.09	18.20	18.13	18.50		
EDGE 2 Tx slots	23.16	23.19	23.11	24.50	17.16	17.19	17.11	18.50		
EDGE 3 Tx slots	20.87	20.77	20.72	22.50	16.41	16.51	16.46	18.24		
EDGE 4 Tx slots	19.37	19.47	19.42	21.00	16.37	16.47	16.42	18.00		
DSI7 SA GSM1900 A n/d										
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)		
	512	661	810		512	661	810			
Frequency (MHz)	1852.2	1850	1803.8	1852.2	1850	1803.8				
GSM 1 Tx slot	21.54	21.66	21.62	23.00	12.54	12.66	12.62	14.00		
GPRS 1 Tx slot	21.45	21.58	21.51	23.00	12.45	12.58	12.51	14.00		
GPRS 2 Tx slots	20.54	20.67	20.57	22.00	14.54	14.67	14.57	16.00		
GPRS 3 Tx slots	19.00	19.10	19.06	20.50	14.74	14.84	14.80	16.24		
GPRS 4 Tx slots	18.04	18.06	17.96	19.50	15.04	15.08	14.96	19.50		
EDGE 1 Tx slot	18.00	18.14	18.03	19.50	9.00	9.14	9.03	10.50		
EDGE 2 Tx slots	17.02	17.07	16.95	18.50	11.02	11.07	10.95	12.50		
EDGE 3 Tx slots	15.53	15.62	15.54	17.00	11.27	11.36	11.28	12.74		
EDGE 4 Tx slots	14.38	14.54	14.42	16.00	11.39	11.54	11.42	13.00		
DSI7 SA WCDMA II A n/d										
Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V		
	9262	9400	9538		1312	1413	1513	4132	4162	4233
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.8	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2kpps	15.16	15.26	15.17	16.50	14.68	14.74	14.71	16.00	20.75	
3GPP Rel 99 RMC 12.2kpps	15.22	15.31	15.26	16.50	14.70	14.68	14.74	16.00	20.82	
3GPP Rel 6 HSDPA Subtest-1	14.27	14.25	14.09	15.50	13.83	13.79	13.61	15.00	19.84	
3GPP Rel 6 HSDPA Subtest-2	14.35	14.33	14.22	15.50	13.88	13.83	13.68	15.00	19.87	
3GPP Rel 6 HSDPA Subtest-3	13.73	13.82	13.73	15.00	13.25	13.36	13.26	14.50	19.31	
3GPP Rel 6 HSDPA Subtest-4	13.75	13.80	13.82	15.00	13.26	13.33	13.35	14.50	19.40	
3GPP Rel 6 DC-HSDPA Subtest-1	14.28	14.20	14.24	15.50	13.75	13.87	13.80	15.00	19.87	
3GPP Rel 6 DC-HSDPA Subtest-2	14.25	14.23	14.25	15.50	13.71	13.70	13.82	15.00	19.88	
3GPP Rel 6 DC-HSDPA Subtest-3	13.78	13.77	13.84	15.00	13.26	13.31	13.35	14.50	19.38	
3GPP Rel 6 DC-HSDPA Subtest-4	13.75	13.86	13.84	15.00	13.24	13.38	13.40	14.50	19.37	
3GPP Rel 6 HSUPA Subtest-1	14.31	14.21	14.34	15.50	13.80	13.71	13.90	15.00	19.87	
3GPP Rel 6 HSUPA Subtest-2	12.21	12.23	12.38	13.50	11.68	11.72	11.85	13.00	17.79	
3GPP Rel 6 HSUPA Subtest-3	13.18	13.32	13.39	14.50	12.71	12.85	12.90	14.00	18.82	
3GPP Rel 6 HSUPA Subtest-4	12.35	12.30	12.27	13.50	11.87	11.76	11.81	13.00	17.95	
3GPP Rel 6 HSUPA Subtest-5	14.27	14.24	14.26	15.50	13.74	13.76	13.77	15.00	19.96	
3GPP Rel 7 HSPA+ (TQDM) Subtest	11.89	11.82	11.83	13.00	11.40	11.39	11.34	12.50	17.49	



Band 2 DSI7 SA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				18700	18800	19100			
20	QPSK	1	0	14.85	14.98	15.14			
20	QPSK	1	49	14.73	14.85	14.92	16.5	0	
20	QPSK	1	99	14.76	14.86	14.86			
20	QPSK	50	0	14.89	14.93	14.91			
20	QPSK	50	24	14.83	14.81	14.82	16.5	0	
20	QPSK	50	50	14.81	14.89	14.87			
20	QPSK	100	0	14.88	14.88	14.71			
20	16QAM	1	0	14.77	14.89	14.85			
20	16QAM	1	49	14.72	14.93	14.88	16.5	0	
20	16QAM	1	99	14.81	14.84	14.83			
20	16QAM	50	0	14.72	14.85	14.86			
20	16QAM	50	24	14.75	14.90	14.84	16.5	0	
20	16QAM	50	50	14.72	14.82	14.87			
20	16QAM	100	0	14.77	14.83	14.82			
20	64QAM	1	0	14.74	14.88	14.78			
20	64QAM	1	49	14.71	14.93	14.89	16.5	0	
20	64QAM	1	99	14.81	14.84	14.83			
20	64QAM	50	0	14.72	14.85	14.86			
20	64QAM	50	24	14.82	14.85	14.79	16.5	0	
20	64QAM	50	50	14.72	14.88	14.92			
20	64QAM	100	0	14.74	14.80	14.91			
20	64QAM	100	0	14.83	14.93	14.89			
Channel									
Frequency (MHz)				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	14.73	14.89	14.92			
15	QPSK	1	37	14.68	14.82	14.77	16.5	0	
15	QPSK	1	74	14.64	14.72	14.80			
15	QPSK	36	0	14.85	14.80	14.88			
15	QPSK	36	20	14.59	14.84	14.76	16.5	0	
15	QPSK	36	39	14.69	14.82	14.73			
15	QPSK	75	0	14.76	14.75	14.67			
15	16QAM	1	0	14.68	14.85	14.80			
15	16QAM	1	37	14.65	14.88	14.85	16.5	0	
15	16QAM	1	74	14.71	14.76	14.77			
15	16QAM	36	0	14.57	14.81	14.70			
15	16QAM	36	20	14.72	14.77	14.74	16.5	0	
15	16QAM	36	39	14.57	14.74	14.74			
15	16QAM	75	0	14.63	14.80	14.76			
15	64QAM	1	0	14.58	14.83	14.84			
15	64QAM	1	37	14.67	14.87	14.85	16.5	0	
15	64QAM	1	74	14.68	14.82	14.85			
15	64QAM	36	0	14.80	14.75	14.72			
15	64QAM	36	20	14.58	14.81	14.77	16.5	0	
15	64QAM	36	39	14.66	14.82	14.78			
15	64QAM	75	0	14.73	14.86	14.81			
Channel									
Frequency (MHz)				18550	18900	19150	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	14.74	14.84	14.91			
10	QPSK	1	25	14.59	14.77	14.81	16.5	0	
10	QPSK	1	49	14.70	14.82	14.75			
10	QPSK	25	0	14.83	14.85	14.78			
10	QPSK	25	12	14.57	14.80	14.76	16.5	0	
10	QPSK	25	25	14.67	14.83	14.81			
10	QPSK	50	0	14.85	14.86	14.58			
10	16QAM	1	0	14.75	14.73	14.72			
10	16QAM	1	25	14.81	14.89	14.77	16.5	0	
10	16QAM	1	49	14.66	14.71	14.79			
10	16QAM	25	0	14.63	14.80	14.84			
10	16QAM	25	12	14.86	14.78	14.69	16.5	0	
10	16QAM	25	25	14.70	14.79	14.80			
10	16QAM	50	0	14.88	14.81	14.80			
10	64QAM	1	0	14.69	14.86	14.71			
10	64QAM	1	25	14.62	14.78	14.86	16.5	0	
10	64QAM	1	49	14.84	14.84	14.70			
10	64QAM	25	0	14.66	14.70	14.70			
10	64QAM	25	12	14.86	14.73	14.86	16.5	0	
10	64QAM	25	25	14.59	14.76	14.85			
10	64QAM	50	0	14.80	14.91	14.74			
Channel									
Frequency (MHz)				18525	18800	19075	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	14.77	14.92	14.84			
5	QPSK	1	12	14.63	14.78	14.76	16.5	0	
5	QPSK	1	24	14.60	14.75	14.78			
5	QPSK	12	0	14.76	14.90	14.88			
5	QPSK	12	7	14.62	14.79	14.75	16.5	0	
5	QPSK	12	13	14.76	14.84	14.74			
5	QPSK	25	0	14.84	14.80	14.55			
5	16QAM	1	0	14.63	14.79	14.80			
5	16QAM	1	12	14.58	14.83	14.79	16.5	0	
5	16QAM	1	24	14.78	14.76	14.75			
5	16QAM	12	0	14.66	14.81	14.71			
5	16QAM	12	7	14.67	14.83	14.72	16.5	0	
5	16QAM	12	13	14.85	14.78	14.80			
5	16QAM	25	0	14.81	14.72	14.72			
5	64QAM	1	0	14.63	14.79	14.76			
5	64QAM	1	12	14.60	14.85	14.76	16.5	0	
5	64QAM	1	24	14.66	14.79	14.74			
5	64QAM	12	0	14.69	14.71	14.69			
5	64QAM	12	7	14.59	14.83	14.81	16.5	0	
5	64QAM	12	13	14.64	14.84	14.84			
5	64QAM	25	0	14.70	14.88	14.81			
Channel									
Frequency (MHz)				18615	18900	19085	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	14.69	14.83	14.85			
3	QPSK	1	8	14.58	14.80	14.78	16.5	0	
3	QPSK	1	14	14.72	14.81	14.75			
3	QPSK	8	0	14.79	14.87	14.87			
3	QPSK	8	4	14.59	14.84	14.77	16.5	0	
3	QPSK	8	7	14.75	14.77	14.80			
3	QPSK	15	0	14.83	14.74	14.68			
3	16QAM	1	0	14.65	14.74	14.71			
3	16QAM	1	8	14.67	14.78	14.76	16.5	0	
3	16QAM	1	14	14.71	14.77	14.74			
3	16QAM	8	0	14.70	14.72	14.79			
3	16QAM	8	4	14.59	14.76	14.68	16.5	0	
3	16QAM	8	7	14.60	14.69	14.73			
3	16QAM	15	0	14.64	14.74	14.73			
3	64QAM	1	0	14.70	14.82	14.68			
3	64QAM	1	8	14.69	14.91	14.83	16.5	0	
3	64QAM	1	14	14.63	14.81	14.86			
3	64QAM	8	0	14.69	14.74	14.66			
3	64QAM	8	4	14.69	14.79	14.86	16.5	0	
3	64QAM	8	7	14.65	14.85	14.85			
3	64QAM	15	0	14.68	14.78	14.85			
Channel									
Frequency (MHz)				18507	18900	19093	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	14.76	14.86	14.87			
1.4	QPSK	1	4	14.71	14.73	14.81	16.5	0	
1.4	QPSK	1	5	14.73	14.81	14.77			
1.4	QPSK	3	0	14.83	14.83	14.89			
1.4	QPSK	3	1	14.80	14.89	14.73	16.5	0	
1.4	QPSK	3	3	14.76	14.80	14.77			
1.4	QPSK	6	0	14.78	14.81	14.83			
1.4	16QAM	1	0	14.74	14.86	14.70			
1.4	16QAM	1	3	14.65	14.76	14.84	16.5	0	
1.4	16QAM	1	5	14.73	14.69	14.73			
1.4	16QAM	3	0	14.60	14.72	14.71			
1.4	16QAM	3	1	14.70	14.83	14.70	16.5	0	
1.4	16QAM	3	3	14.57	14.78	14.77			
1.4	16QAM	6	0	14.62	14.75	14.75			
1.4	64QAM	1	0	14.58	14.81	14.69			
1.4	64QAM	1	3	14.66	14.88	14.87	16.5	0	
1.4	64QAM	1	5	14.58	14.76	14.64			
1.4	64QAM	3	0	14.66	14.70	14.67			
1.4	64QAM	3	1	14.57	14.72	14.77	16.5	0	
1.4	64QAM	3	3	14.59	14.76	14.80			
1.4	64QAM	6	0	14.69	14.80	14.80			

Band 4 DSI7 SA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				20550	17325	20350			
20									



Band 13 DS17 SA

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
752								
10	QPSK	1	0	22.03	21.90	21.84	23.5	0
10	QPSK	1	25	21.92				
10	QPSK	1	49	21.97				
10	QPSK	25	0	21.48			23	0.5
10	QPSK	25	12	21.44				
10	QPSK	25	25	21.41				
10	QPSK	50	0	21.42			23	0.5
10	16QAM	1	0	21.62				
10	16QAM	1	25	21.56				
10	16QAM	1	49	21.58			22	1.5
10	16QAM	25	0	20.46				
10	16QAM	25	12	20.43				
10	16QAM	25	25	20.35			22	1.5
10	16QAM	50	0	20.45				
10	64QAM	1	0	20.51				
10	64QAM	1	25	20.47			22	1.5
10	64QAM	1	49	20.38				
10	64QAM	25	0	19.45				
10	64QAM	25	12	19.35			21	2.5
10	64QAM	25	25	19.34				
10	64QAM	50	0	19.41				
Channel								
Frequency (MHz)								
23205								
5	QPSK	1	0	21.90	21.90	21.84	23.5	0
5	QPSK	1	12	21.89	21.89	21.84		
5	QPSK	1	24	21.87	21.82	21.83		
5	QPSK	12	0	21.42	21.38	21.34	23	0.5
5	QPSK	12	7	21.33	21.31	21.36		
5	QPSK	12	13	21.32	21.27	21.28		
5	QPSK	25	0	21.31	21.33	21.38	23	0.5
5	16QAM	1	0	21.50	21.57	21.51		
5	16QAM	1	12	21.50	21.43	21.50		
5	16QAM	1	24	21.45	21.45	21.46	22	1.5
5	16QAM	12	0	20.38	20.38	20.40		
5	16QAM	12	7	20.34	20.31	20.30		
5	16QAM	12	13	20.20	20.22	20.31	22	1.5
5	16QAM	25	0	20.31	20.36	20.36		
5	64QAM	1	0	20.35	20.45	20.43		
5	64QAM	1	12	20.38	20.34	20.41	22	1.5
5	64QAM	1	24	20.24	20.34	20.25		
5	64QAM	12	0	19.41	19.39	19.37		
5	64QAM	12	7	19.20	19.23	19.20	21	2.5
5	64QAM	12	13	19.27	19.20	19.26		
5	64QAM	25	0	19.31	19.26	19.32		

Band 26 DS17 Ant0 SA

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
821.5								
15	QPSK	1	0	20.95	21.06	21.01	22.5	0
15	QPSK	1	37	20.90	21.04	20.91		
15	QPSK	1	74	20.88	20.98	20.83		
15	QPSK	36	0	20.93	21.04	21.03	22.5	0
15	QPSK	36	20	20.86	20.96	20.93		
15	QPSK	36	39	20.92	20.96	20.84		
15	QPSK	75	0	20.97	21.04	21.03	22.5	0
15	16QAM	1	0	20.92	20.98	20.96		
15	16QAM	1	37	20.88	21.03	20.94		
15	16QAM	1	74	20.93	20.99	20.90	22	0.5
15	16QAM	36	0	20.42	20.54	20.45		
15	16QAM	36	20	20.38	20.50	20.42		
15	16QAM	36	39	20.47	20.51	20.38	22	0.5
15	16QAM	75	0	20.37	20.50	20.40		
15	64QAM	1	0	20.60	20.65	20.57		
15	64QAM	1	37	20.64	20.68	20.62	22	0.5
15	64QAM	1	74	20.47	20.59	20.51		
15	64QAM	36	0	19.39	19.53	19.44		
15	64QAM	36	20	19.50	19.55	19.48	21	1.5
15	64QAM	36	39	19.34	19.44	19.33		
15	64QAM	75	0	19.44	19.47	19.34		
Channel								
Frequency (MHz)								
26740								
10	QPSK	1	0	20.95	21.01	20.92	22.5	0
10	QPSK	1	25	20.86	21.00	20.84		
10	QPSK	1	49	20.83	20.98	20.83		
10	QPSK	25	0	20.92	20.95	20.97	22.5	0
10	QPSK	25	12	20.82	20.91	20.90		
10	QPSK	25	25	20.87	20.87	20.74		
10	QPSK	50	0	20.92	21.01	21.02	22.5	0
10	16QAM	1	0	20.92	20.92	20.92		
10	16QAM	1	25	20.88	21.02	20.92		
10	16QAM	1	49	20.91	20.93	20.86	22	0.5
10	16QAM	25	0	20.36	20.42	20.33		
10	16QAM	25	12	20.35	20.42	20.31		
10	16QAM	25	25	20.40	20.44	20.28	22	0.5
10	16QAM	50	0	20.32	20.42	20.26		
10	64QAM	1	0	20.41	20.49	20.42		
10	64QAM	1	25	20.55	20.60	20.56	22	0.5
10	64QAM	1	49	20.37	20.44	20.44		
10	64QAM	25	0	19.32	19.49	19.36		
10	64QAM	25	12	19.39	19.43	19.45	21	1.5
10	64QAM	25	25	19.20	19.31	19.21		
10	64QAM	50	0	19.41	19.38	19.32		
Channel								
Frequency (MHz)								
26715								
5	QPSK	1	0	20.92	21.00	20.94	22.5	0
5	QPSK	1	12	20.81	21.01	20.83		
5	QPSK	1	24	20.85	20.95	20.77		
5	QPSK	12	0	20.87	21.02	20.98	22.5	0
5	QPSK	12	7	20.82	20.88	20.92		
5	QPSK	12	13	20.86	20.91	20.83		
5	QPSK	25	0	20.87	20.99	21.01	22.5	0
5	16QAM	1	0	20.86	20.97	20.93		
5	16QAM	1	12	20.78	20.98	20.85		
5	16QAM	1	24	20.88	20.91	20.82	22	0.5
5	16QAM	12	0	20.30	20.39	20.38		
5	16QAM	12	7	20.34	20.39	20.29		
5	16QAM	12	13	20.39	20.48	20.29	22	0.5
5	16QAM	25	0	20.32	20.44	20.30		
5	64QAM	1	0	20.46	20.62	20.42		
5	64QAM	1	12	20.57	20.63	20.47	22	0.5
5	64QAM	1	24	20.40	20.46	20.41		
5	64QAM	12	0	19.30	19.38	19.30		
5	64QAM	12	7	19.42	19.44	19.39	21	1.5
5	64QAM	12	13	19.25	19.31	19.27		
5	64QAM	25	0	19.35	19.39	19.19		
Channel								
Frequency (MHz)								
26705								
3	QPSK	1	0	20.87	20.99	20.98	22.5	0
3	QPSK	1	8	20.82	21.02	20.84		
3	QPSK	1	14	20.86	20.91	20.82		
3	QPSK	8	0	20.87	20.99	20.96	22.5	0
3	QPSK	8	4	20.86	20.93	20.88		
3	QPSK	8	7	20.92	20.96	20.84		
3	QPSK	15	0	20.89	20.95	20.99	22.5	0
3	16QAM	1	0	20.86	20.91	20.89		
3	16QAM	1	8	20.79	20.95	20.89		
3	16QAM	1	14	20.90	20.89	20.86	22	0.5
3	16QAM	8	0	20.35	20.40	20.31		
3	16QAM	8	4	20.25	20.45	20.33		
3	16QAM	8	7	20.39	20.39	20.29	22	0.5
3	16QAM	15	0	20.29	20.39	20.37		
3	64QAM	1	0	20.57	20.53	20.48		
3	64QAM	1	8	20.57	20.60	20.55	22	0.5
3	64QAM	1	14	20.44	20.53	20.40		
3	64QAM	8	0	19.24	19.47	19.30		
3	64QAM	8	4	19.38	19.48	19.37	21	1.5
3	64QAM	8	7	19.31	19.29	19.24		
3	64QAM	15	0	19.33	19.41	19.21		
Channel								
Frequency (MHz)								
26697								
1.4	QPSK	1	0	20.82	20.98	20.93	22.5	0
1.4	QPSK	1	3	20.85	20.84	20.87		
1.4	QPSK	1	5	20.75	20.89	20.83		
1.4	QPSK	3	0	20.93	21.00	20.87	22.5	0
1.4	QPSK	3	1	20.91	20.97	20.93		
1.4	QPSK	3	3	20.70	20.79	20.84		
1.4	QPSK	6	0	20.90	20.99	20.87	22.5	0
1.4	16QAM	1	0	20.86	20.96	20.96		
1.4	16QAM	1	3	20.83	20.84	20.84		
1.4	16QAM	1	5	20.81	20.87	20.80	22.5	0
1.4	16QAM	3	0	20.92	21.03	20.86		
1.4	16QAM	3	1	20.94	20.97	20.91		
1.4	16QAM	3	3	20.78	20.87	20.87	22	0.5
1.4	16QAM	6	0	20.30	20.43	20.28		
1.4	64QAM	1	0	20.49	20.56	20.46		
1.4	64QAM	1	3	20.53	20.59	20.54	22	0.5
1.4	64QAM	1	5	20.40	20.40	20.44		
1.4	64QAM	3	0	20.35	20.44	20.35		
1.4	64QAM	3	1	20.35	20.44	20.43	21	1.5
1.4	64QAM	3	3	20.23	20.33	20.25		
1.4	64QAM	6	0	19.31	19.37	19.29		

Band 66 DS17 Ant0 SA



Band 7 DS17 Ant1 SA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20650	21100	21650		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.14	17.17	17.03		
20	QPSK	1	49	17.11	17.03	16.99	18.5	0
20	QPSK	1	99	16.99	17.02	16.88		
20	QPSK	50	0	17.09	17.14	17.11		
20	QPSK	50	24	17.02	17.05	16.91	18.5	0
20	QPSK	50	50	17.08	17.06	17.01		
20	QPSK	100	0	17.01	17.06	16.99		
20	16QAM	1	0	17.08	17.08	16.89		
20	16QAM	1	49	17.04	17.04	16.97	18.5	0
20	16QAM	1	99	16.99	17.06	16.92		
20	16QAM	50	0	17.03	17.11	16.92		
20	16QAM	50	24	17.03	17.11	16.93	18.5	0
20	16QAM	50	50	17.05	17.13	16.90		
20	16QAM	100	0	17.07	17.14	16.92		
20	64QAM	1	0	16.99	17.15	16.97		
20	64QAM	1	49	17.08	17.12	16.90	18.5	0
20	64QAM	1	99	17.08	17.10	16.90		
20	64QAM	50	0	17.00	17.03	16.91		
20	64QAM	50	24	17.09	17.09	16.92	18.5	0
20	64QAM	50	50	17.00	17.09	16.88		
20	64QAM	100	0	17.11	17.14	16.90		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.02	17.12	16.97		
15	QPSK	1	37	17.01	16.93	16.85	18.5	0
15	QPSK	1	74	16.85	16.92	16.79		
15	QPSK	36	0	17.05	16.99	17.04		
15	QPSK	36	20	16.87	16.91	16.82	18.5	0
15	QPSK	36	39	16.95	16.95	16.92		
15	QPSK	75	0	16.95	16.91	16.91		
15	16QAM	1	0	17.03	16.96	16.74		
15	16QAM	1	37	17.01	16.92	16.94	18.5	0
15	16QAM	1	74	16.91	17.03	16.78		
15	16QAM	36	0	16.95	17.07	16.77		
15	16QAM	36	20	16.88	17.00	16.85	18.5	0
15	16QAM	36	39	16.94	17.08	16.86		
15	16QAM	75	0	16.93	17.10	16.88		
15	64QAM	1	0	16.85	17.07	16.94		
15	64QAM	1	37	16.99	17.00	16.79	18.5	0
15	64QAM	1	74	17.02	17.04	16.79		
15	64QAM	36	0	16.85	17.01	16.82		
15	64QAM	36	20	17.04	16.96	16.76	18.5	0
15	64QAM	36	39	16.98	16.95	16.85		
15	64QAM	75	0	17.06	17.03	16.79		
Channel				20900	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.07	17.04	17.01		
10	QPSK	1	25	17.00	16.90	16.95	18.5	0
10	QPSK	1	49	16.95	16.87	16.81		
10	QPSK	25	0	17.02	17.02	17.06		
10	QPSK	25	12	16.94	17.01	16.81	18.5	0
10	QPSK	25	25	17.04	17.00	16.88		
10	QPSK	50	0	16.89	17.00	16.83		
10	16QAM	1	0	17.00	17.00	16.76		
10	16QAM	1	25	16.90	16.93	16.86	18.5	0
10	16QAM	1	49	16.89	16.98	16.77		
10	16QAM	25	0	16.87	17.00	16.86		
10	16QAM	25	12	16.98	17.02	16.91	18.5	0
10	16QAM	25	25	16.92	16.98	16.75		
10	16QAM	50	0	17.01	17.11	16.82		
10	64QAM	1	0	16.85	17.13	16.94		
10	64QAM	1	25	16.96	17.04	16.86	18.5	0
10	64QAM	1	49	16.97	17.03	16.84		
10	64QAM	25	0	16.96	17.00	16.82		
10	64QAM	25	12	16.94	17.00	16.90	18.5	0
10	64QAM	25	25	16.90	16.95	16.78		
10	64QAM	50	0	17.03	17.02	16.80		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.11	17.14	17.00		
5	QPSK	1	12	17.02	16.98	16.85	18.5	0
5	QPSK	1	24	16.88	16.89	16.82		
5	QPSK	12	0	17.00	17.03	17.07		
5	QPSK	12	7	16.89	17.02	16.84	18.5	0
5	QPSK	12	13	16.99	16.91	16.90		
5	QPSK	25	0	16.90	17.04	16.85		
5	16QAM	1	0	16.96	17.03	16.77		
5	16QAM	1	12	16.89	16.95	16.83	18.5	0
5	16QAM	1	24	16.92	16.95	16.82		
5	16QAM	12	0	16.88	16.97	16.81		
5	16QAM	12	7	16.91	17.06	16.77	18.5	0
5	16QAM	12	13	16.95	17.04	16.85		
5	16QAM	25	0	16.96	17.03	16.84		
5	64QAM	1	0	16.95	16.99	16.89		
5	64QAM	1	12	16.99	16.98	16.87	18.5	0
5	64QAM	1	24	17.02	16.94	16.83		
5	64QAM	12	0	16.88	17.00	16.77		
5	64QAM	12	7	17.01	16.95	16.88	18.5	0
5	64QAM	12	13	16.94	16.94	16.82		
5	64QAM	25	0	16.99	17.07	16.78		



Band 38 DSI7 Ant1 SA										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	18.83	18.97	18.81				
20	QPSK	1	49	18.83	18.88	18.88	20	0		
20	QPSK	1	99	18.77	18.91	18.86				
20	QPSK	50	0	18.89	18.93	18.91				
20	QPSK	50	24	18.69	18.88	18.69				
20	QPSK	50	50	18.79	18.87	18.85	20	0		
20	QPSK	100	0	18.88	18.91	18.79				
20	16QAM	1	0	18.77	18.81	18.77				
20	16QAM	1	49	18.70	18.94	18.77	20	0		
20	16QAM	1	99	18.83	18.91	18.75				
20	16QAM	50	0	18.79	18.84	18.74				
20	16QAM	50	24	18.81	18.91	18.68	20	0		
20	16QAM	50	50	18.82	18.89	18.86				
20	16QAM	100	0	18.70	18.89	18.77				
20	64QAM	1	0	18.75	18.89	18.70				
20	64QAM	1	49	18.69	18.93	18.70	20	0		
20	64QAM	1	99	18.72	18.91	18.71				
20	64QAM	50	0	18.77	18.83	18.71				
20	64QAM	50	24	18.76	18.88	18.77	20	0		
20	64QAM	50	50	18.70	18.83	18.73				
20	64QAM	100	0	18.74	18.92	18.78				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	18.71	18.84	18.69				
15	QPSK	1	37	18.70	18.73	18.63	20	0		
15	QPSK	1	74	18.73	18.78	18.63				
15	QPSK	36	0	18.81	18.81	18.83				
15	QPSK	36	20	18.65	18.81	18.62	20	0		
15	QPSK	36	39	18.74	18.82	18.53				
15	QPSK	75	0	18.77	18.87	18.73				
15	16QAM	1	0	18.69	18.75	18.67				
15	16QAM	1	37	18.60	18.89	18.64	20	0		
15	16QAM	1	74	18.79	18.81	18.65				
15	16QAM	36	0	18.70	18.75	18.61				
15	16QAM	36	20	18.74	18.75	18.60	20	0		
15	16QAM	36	39	18.77	18.81	18.57				
15	16QAM	75	0	18.61	18.74	18.71				
15	64QAM	1	0	18.59	18.77	18.60				
15	64QAM	1	37	18.55	18.81	18.65	20	0		
15	64QAM	1	74	18.66	18.80	18.59				
15	64QAM	36	0	18.65	18.75	18.66				
15	64QAM	36	20	18.67	18.72	18.71	20	0		
15	64QAM	36	39	18.62	18.70	18.62				
15	64QAM	75	0	18.60	18.81	18.68				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
10	QPSK	1	0	18.72	18.85	18.72				
10	QPSK	1	25	18.70	18.84	18.53	20	0		
10	QPSK	1	49	18.75	18.89	18.55				
10	QPSK	25	0	18.75	18.78	18.89				
10	QPSK	25	12	18.56	18.75	18.61	20	0		
10	QPSK	25	25	18.74	18.75	18.54				
10	QPSK	50	0	18.82	18.83	18.69				
10	16QAM	1	0	18.72	18.75	18.69				
10	16QAM	1	25	18.59	18.86	18.74	20	0		
10	16QAM	1	49	18.68	18.86	18.60				
10	16QAM	25	0	18.68	18.71	18.60				
10	16QAM	25	12	18.72	18.67	18.60	20	0		
10	16QAM	25	25	18.77	18.78	18.58				
10	16QAM	50	0	18.55	18.77	18.64				
10	64QAM	1	0	18.66	18.82	18.59				
10	64QAM	1	25	18.55	18.86	18.67	20	0		
10	64QAM	1	49	18.61	18.88	18.51				
10	64QAM	25	0	18.66	18.69	18.59				
10	64QAM	25	12	18.73	18.72	18.73	20	0		
10	64QAM	25	25	18.65	18.74	18.68				
10	64QAM	50	0	18.63	18.81	18.64				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	18.74	18.87	18.76				
5	QPSK	1	12	18.77	18.81	18.53	20	0		
5	QPSK	1	24	18.63	18.81	18.63				
5	QPSK	12	0	18.76	18.90	18.86				
5	QPSK	12	7	18.54	18.84	18.57	20	0		
5	QPSK	12	13	18.70	18.85	18.53				
5	QPSK	25	0	18.83	18.87	18.64				
5	16QAM	1	0	18.66	18.72	18.68				
5	16QAM	1	12	18.67	18.79	18.68	20	0		
5	16QAM	1	24	18.72	18.75	18.60				
5	16QAM	12	0	18.76	18.77	18.61				
5	16QAM	12	7	18.77	18.79	18.65	20	0		
5	16QAM	12	13	18.72	18.79	18.60				
5	16QAM	25	0	18.61	18.76	18.65				
5	64QAM	1	0	18.62	18.85	18.68				
5	64QAM	1	12	18.57	18.77	18.64	20	0		
5	64QAM	1	24	18.57	18.81	18.68				
5	64QAM	12	0	18.72	18.72	18.68				
5	64QAM	12	7	18.64	18.78	18.75	20	0		
5	64QAM	12	13	18.64	18.79	18.66				
5	64QAM	25	0	18.62	18.82	18.63				

Band 41 DSI7 Ant1 SA										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.81	18.67	18.94	18.58	18.84		
20	QPSK	1	49	18.68	18.64	18.86	18.53	18.54	20	0
20	QPSK	1	99	18.66	18.56	18.88	18.54	18.48		
20	QPSK	50	0	18.72	18.74	18.87	18.85	18.75		
20	QPSK	50	24	18.69	18.54	18.83	18.45	18.51	20	0
20	QPSK	50	50	18.77	18.55	18.81	18.53	18.49		
20	QPSK	100	0	18.69	18.61	18.82	18.53	18.60		
20	16QAM	1	0	18.72	18.65	18.94	18.55	18.53		
20	16QAM	1	49	18.76	18.53	18.85	18.44	18.59	20	0
20	16QAM	1	99	18.75	18.52	18.91	18.46	18.52		
20	16QAM	50	0	18.73	18.63	18.85	18.42	18.61		
20	16QAM	50	24	18.66	18.52	18.84	18.46	18.51	20	0
20	16QAM	50	50	18.71	18.56	18.84	18.53	18.51		
20	16QAM	100	0	18.69	18.57	18.87	18.44	18.58		
20	64QAM	1	0	18.72	18.51	18.79	18.42	18.61		
20	64QAM	1	49	18.73	18.63	18.84	18.54	18.58	20	0
20	64QAM	1	99	18.77	18.64	18.78	18.46	18.60		
20	64QAM	50	0	18.71	18.52	18.89	18.45	18.48		
20	64QAM	50	24	18.71	18.64	18.86	18.54	18.52	20	0
20	64QAM	50	50	18.70	18.73	18.84	18.51	18.50		
20	64QAM	100	0	18.73	18.58	18.80	18.45	18.61		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.78	18.60	18.84	18.43	18.61		
15	QPSK	1	37	18.65	18.57	18.78	18.45	18.40	20	0
15	QPSK	1	74	18.58	18.48	18.78	18.43	18.39		
15	QPSK	36	0	18.60	18.70	18.71	18.45	18.40		
15	QPSK	36	20	18.61	18.44	18.71	18.39	18.35	20	0
15	QPSK	36	39	18.68	18.49	18.65	18.39	18.38		
15	QPSK	75	0	18.63	18.45	18.72	18.49	18.48		
15	16QAM	1	0	18.69	18.52	18.75	18.52	18.41		
15	16QAM	1	37	18.74	18.59	18.77	18.40	18.50	20	0
15	16QAM	1	74	18.72	18.39	18.81	18.43	18.49		



Band 42 FCC Part27Q DSI7 Ant5 SA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42990	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	18.59	18.64	18.50	19.5	0	
20	QPSK	1	49	18.41	18.48	18.37			
20	QPSK	1	99	18.37	18.51	18.41			
20	QPSK	50	0	18.42	18.45	18.44	19.5	0	
20	QPSK	50	24	18.31	18.41	18.32			
20	QPSK	50	50	18.38	18.47	18.39			
20	QPSK	100	0	18.41	18.53	18.38	19.5	0	
20	16QAM	1	0	18.36	18.50	18.40			
20	16QAM	1	49	18.49	18.58	18.44			
20	16QAM	1	99	18.37	18.52	18.49	19.5	0	
20	16QAM	50	0	18.34	18.48	18.33			
20	16QAM	50	24	18.48	18.53	18.44			
20	16QAM	50	50	18.48	18.54	18.44	19.5	0	
20	16QAM	100	0	18.46	18.51	18.40			
20	16QAM	1	0	18.48	18.55	18.44			
20	64QAM	1	49	18.44	18.54	18.51	19.5	0	
20	64QAM	1	99	18.43	18.46	18.32			
20	64QAM	50	0	18.29	18.42	18.35			
20	64QAM	50	24	18.42	18.49	18.46	19.5	0	
20	64QAM	50	50	18.44	18.51	18.40			
20	64QAM	100	0	18.41	18.49	18.43			
Channel				42165	42990	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	18.52	18.51	18.45	19.5	0	
15	QPSK	1	37	18.34	18.44	18.24			
15	QPSK	1	74	18.26	18.38	18.35			
15	QPSK	36	0	18.30	18.38	18.33	19.5	0	
15	QPSK	36	20	18.17	18.30	18.26			
15	QPSK	36	39	18.31	18.42	18.30			
15	QPSK	75	0	18.33	18.44	18.27	19.5	0	
15	16QAM	1	0	18.27	18.39	18.33			
15	16QAM	1	37	18.35	18.50	18.31			
15	16QAM	1	74	18.25	18.39	18.35	19.5	0	
15	16QAM	36	0	18.27	18.44	18.30			
15	16QAM	36	20	18.33	18.48	18.38			
15	16QAM	36	39	18.35	18.47	18.37	19.5	0	
15	16QAM	75	0	18.34	18.46	18.31			
15	64QAM	1	0	18.44	18.41	18.33			
15	64QAM	1	37	18.38	18.50	18.46	19.5	0	
15	64QAM	1	74	18.29	18.37	18.19			
15	64QAM	36	0	18.21	18.32	18.21			
15	64QAM	36	20	18.39	18.35	18.41	19.5	0	
15	64QAM	36	39	18.33	18.48	18.28			
15	64QAM	75	0	18.34	18.36	18.39			
Channel				42140	42990	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.45	18.59	18.43	19.5	0	
10	QPSK	1	25	18.26	18.37	18.26			
10	QPSK	1	49	18.31	18.44	18.35			
10	QPSK	25	0	18.29	18.39	18.34	19.5	0	
10	QPSK	25	12	18.19	18.32	18.25			
10	QPSK	25	25	18.30	18.35	18.27			
10	QPSK	50	0	18.26	18.46	18.23	19.5	0	
10	16QAM	1	0	18.30	18.45	18.29			
10	16QAM	1	25	18.37	18.54	18.36			
10	16QAM	1	49	18.23	18.45	18.40	19.5	0	
10	16QAM	25	0	18.28	18.45	18.30			
10	16QAM	25	12	18.42	18.38	18.36			
10	16QAM	25	25	18.37	18.41	18.34	19.5	0	
10	16QAM	50	0	18.39	18.44	18.32			
10	64QAM	1	0	18.42	18.42	18.31			
10	64QAM	1	25	18.32	18.40	18.36	19.5	0	
10	64QAM	1	49	18.34	18.42	18.29			
10	64QAM	25	0	18.20	18.36	18.22			
10	64QAM	25	12	18.32	18.41	18.40	19.5	0	
10	64QAM	25	25	18.29	18.36	18.26			
10	64QAM	50	0	18.36	18.44	18.29			
Channel				42115	42990	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	18.48	18.53	18.41	19.5	0	
5	QPSK	1	12	18.33	18.34	18.31			
5	QPSK	1	24	18.27	18.43	18.32			
5	QPSK	12	0	18.34	18.38	18.35	19.5	0	
5	QPSK	12	7	18.27	18.34	18.21			
5	QPSK	12	13	18.26	18.40	18.28			
5	QPSK	25	0	18.32	18.40	18.31	19.5	0	
5	16QAM	1	0	18.31	18.36	18.28			
5	16QAM	1	12	18.37	18.47	18.33			
5	16QAM	1	24	18.34	18.38	18.40	19.5	0	
5	16QAM	12	0	18.21	18.42	18.21			
5	16QAM	12	7	18.36	18.44	18.39			
5	16QAM	12	13	18.44	18.45	18.40	19.5	0	
5	16QAM	25	0	18.36	18.39	18.34			
5	64QAM	1	0	18.34	18.42	18.39			
5	64QAM	1	12	18.39	18.48	18.42	19.5	0	
5	64QAM	1	24	18.30	18.35	18.26			
5	64QAM	12	0	18.18	18.35	18.23			
5	64QAM	12	7	18.36	18.37	18.42	19.5	0	
5	64QAM	12	13	18.41	18.38	18.27			
5	64QAM	25	0	18.26	18.38	18.40			

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LTE Band 42
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LTE Band 42						
Average Power (dBm)						
Modulation	BW (MHz)	RB size	Default (MPR)	Default power mode	Reduced (MPR)	Reduced Power mode
QPSK	20	≤ 18	0	/VALUE/		
QPSK	20	> 18	0	/VALUE/		
16QAM	20	≤ 18	0	/VALUE/		
16QAM	20	> 18	0	/VALUE/		
64QAM	20	≤ 18	0	/VALUE/		
64QAM	20	> 18	0	/VALUE/		
QPSK	15	≤ 16	0	/VALUE/		
QPSK	15	> 16	0	/VALUE/		
16QAM	15	≤ 16	0	/VALUE/		
16QAM	15	> 16	0	/VALUE/		
64QAM	15	≤ 16	0	/VALUE/		
64QAM	15	> 16	0	/VALUE/		
QPSK	10	≤ 12	0	/VALUE/		
QPSK	10	> 12	0	/VALUE/		
16QAM	10	≤ 12	0	/VALUE/		
16QAM	10	> 12	0	/VALUE/		
64QAM	10	≤ 12	0	/VALUE/		
64QAM	10	> 12	0	/VALUE/		
QPSK	5	≤ 8	0	/VALUE/		
QPSK	5	> 8	0	/VALUE/		
16QAM	5	≤ 8	0	/VALUE/		
16QAM	5	> 8	0	/VALUE/		
64QAM	5	≤ 8	0	/VALUE/		
64QAM	5	> 8	0	/VALUE/		



Band 2 DSI7 NSA													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Free		Power Middle Ch. / Free		Power High Ch. / Free		Tune-up limit (dBm)	MPR (dB)		
				18700	18900	18900	19100	19100	19300				
Channel Frequency (MHz)				18700		18900		19100					
20	QPSK	1	0	10.63	10.75	10.67				12.5	0		
20	QPSK	1	49	10.54	10.61	10.55				12.5	0		
20	QPSK	1	99	10.53	10.60	10.55							
20	QPSK	50	0	10.60	10.72	10.61							
20	QPSK	50	24	10.59	10.61	10.56							
20	QPSK	50	50	10.51	10.60	10.58				12.5	0		
20	QPSK	100	0	10.58	10.71	10.64							
20	16QAM	1	0	10.51	10.65	10.55							
20	16QAM	1	49	10.59	10.62	10.62							
20	16QAM	1	99	10.55	10.63	10.64				12.5	0		
20	16QAM	50	0	10.54	10.65	10.52							
20	16QAM	50	24	10.52	10.60	10.55							
20	16QAM	50	50	10.59	10.60	10.53							
20	16QAM	100	0	10.53	10.68	10.59				12.5	0		
20	64QAM	1	0	10.50	10.64	10.53							
20	64QAM	1	49	10.59	10.65	10.63							
20	64QAM	1	99	10.52	10.66	10.63							
20	64QAM	50	0	10.51	10.70	10.55				12.5	0		
20	64QAM	50	24	10.52	10.65	10.64							
20	64QAM	50	50	10.58	10.69	10.65							
20	64QAM	100	0	10.53	10.70	10.62							
Channel Frequency (MHz)				18675		18900		19125					
15	QPSK	1	0	10.61	10.62	10.54				12.5	0		
15	QPSK	1	37	10.61	10.58	10.52							
15	QPSK	1	74	10.61	10.57	10.59							
15	QPSK	36	0	10.58	10.63	10.52							
15	QPSK	36	20	10.60	10.53	10.52				12.5	0		
15	QPSK	36	39	10.53	10.50	10.55							
15	QPSK	75	0	10.54	10.65	10.55							
15	16QAM	1	0	10.59	10.60	10.56							
15	16QAM	1	37	10.56	10.59	10.59				12.5	0		
15	16QAM	1	74	10.51	10.62	10.55							
15	16QAM	36	0	10.64	10.63	10.64							
15	16QAM	36	20	10.51	10.56	10.54							
15	16QAM	36	39	10.60	10.58	10.58				12.5	0		
15	16QAM	75	0	10.63	10.59	10.56							
15	64QAM	1	0	10.63	10.58	10.53							
15	64QAM	1	37	10.58	10.51	10.58							
15	64QAM	1	74	10.55	10.59	10.61				12.5	0		
15	64QAM	36	0	10.58	10.62	10.62							
15	64QAM	36	20	10.65	10.60	10.60							
15	64QAM	36	39	10.55	10.63	10.57							
15	64QAM	75	0	10.56	10.57	10.58				12.5	0		
Channel Frequency (MHz)				18650		18900		19150					
10	QPSK	1	0	10.59	10.61	10.57						12.5	0
10	QPSK	1	25	10.54	10.67	10.62							
10	QPSK	1	49	10.56	10.71	10.55							
10	QPSK	25	0	10.56	10.63	10.67							
10	QPSK	25	12	10.53	10.66	10.56				12.5	0		
10	QPSK	25	25	10.55	10.62	10.51							
10	QPSK	50	0	10.54	10.63	10.55							
10	16QAM	1	0	10.59	10.71	10.58							
10	16QAM	1	25	10.59	10.73	10.60				12.5	0		
10	16QAM	1	49	10.53	10.63	10.64							
10	16QAM	25	0	10.51	10.62	10.67							
10	16QAM	25	12	10.51	10.62	10.65							
10	16QAM	25	25	10.52	10.59	10.60				12.5	0		
10	16QAM	50	0	10.57	10.65	10.60							
10	64QAM	1	0	10.51	10.67	10.65							
10	64QAM	1	25	10.54	10.70	10.57							
10	64QAM	1	49	10.60	10.67	10.61				12.5	0		
10	64QAM	25	0	10.57	10.69	10.57							
10	64QAM	25	12	10.57	10.73	10.51							
10	64QAM	25	25	10.52	10.67	10.58							
10	64QAM	50	0	10.52	10.67	10.53				12.5	0		
Channel Frequency (MHz)				18625		18900		19175					
5	QPSK	1	0	10.53	10.68	10.63						12.5	0
5	QPSK	1	12	10.54	10.63	10.63							
5	QPSK	1	24	10.58	10.68	10.52							
5	QPSK	12	0	10.54	10.68	10.51							
5	QPSK	12	7	10.50	10.67	10.65				12.5	0		
5	QPSK	12	13	10.60	10.70	10.59							
5	QPSK	25	0	10.57	10.68	10.59							
5	16QAM	1	0	10.56	10.68	10.61							
5	16QAM	1	12	10.52	10.69	10.61				12.5	0		
5	16QAM	1	24	10.51	10.65	10.55							
5	16QAM	12	0	10.56	10.71	10.62							
5	16QAM	12	7	10.58	10.69	10.51							
5	16QAM	12	13	10.58	10.61	10.62				12.5	0		
5	16QAM	25	0	10.59	10.60	10.59							
5	64QAM	1	0	10.59	10.69	10.63							
5	64QAM	1	12	10.56	10.67	10.57							
5	64QAM	1	24	10.51	10.61	10.62				12.5	0		
5	64QAM	12	0	10.56	10.62	10.58							
5	64QAM	12	7	10.51	10.70	10.52							
5	64QAM	12	13	10.51	10.66	10.63							
5	64QAM	25	0	10.56	10.69	10.62				12.5	0		
Channel Frequency (MHz)				18625		18900		19175					
3	QPSK	1	0	10.60	10.66	10.56						12.5	0
3	QPSK	1	8	10.54	10.72	10.61							
3	QPSK	1	14	10.58	10.67	10.61							
3	QPSK	8	0	10.56	10.68	10.54							
3	QPSK	8	4	10.52	10.69	10.58				12.5	0		
3	QPSK	8	7	10.61	10.65	10.59							
3	QPSK	15	0	10.58	10.62	10.52							
3	16QAM	1	0	10.56	10.72	10.61							
3	16QAM	1	8	10.50	10.72	10.63				12.5	0		
3	16QAM	1	14	10.52	10.69	10.62							
3	16QAM	8	0	10.55	10.66	10.54							
3	16QAM	8	4	10.58	10.66	10.54							
3	16QAM	8	7	10.50	10.59	10.51				12.5	0		
3	16QAM	15	0	10.54	10.61	10.53							
3	64QAM	1	0	10.53	10.59	10.58							
3	64QAM	1	8	10.60	10.65	10.56							
3	64QAM	1	14	10.61	10.64	10.55				12.5	0		
3	64QAM	8	0	10.54	10.61	10.65							
3	64QAM	8	4	10.51	10.65	10.52							
3	64QAM	8	7	10.52	10.70	10.51							
3	64QAM	15	0	10.55	10.72	10.59				12.5	0		
Channel Frequency (MHz)				18607		18900		19193					
1.4	QPSK	1	0	10.55	10.69	10.57						12.5	0
1.4	QPSK	1	3	10.50	10.63	10.51							
1.4	QPSK	1	5	10.53	10.65	10.51							
1.4	QPSK	3	0	10.57	10.60	10.58							
1.4	QPSK	3	1	10.58	10.66	10.59				12.5	0		
1.4	QPSK	3	3	10.58	10.59	10.64							
1.4	QPSK	6	0	10.51	10.64	10.52							
1.4	16QAM	1	0	10.55	10.60	10.52							
1.4	16QAM	1	3	10.54	10.69	10.61				12.5	0		
1.4	16QAM	1	5	10.55	10.71	10.62							
1.4	16QAM	3	0	10.60	10.60	10.58							
1.4	16QAM	3	1	10.51	10.59	10.65							
1.4	16QAM	3	3	10.58	10.65	10.55				12.5	0		
1.4	16QAM	6	0	10.51	10.69	10.62							
1.4	64QAM	1	0	10.52	10.71	10.55							
1.4	64QAM	1	3	10.58	10.69	10.51							
1.4	64QAM	1	5	10.54	10.64	10.60				12.5	0		
1.4	64QAM	3	0	10.57	10.64	10.60							
1.4	64QAM	3	1	10.50	10.70	10.52							
1.4	64QAM	3	3	10.56	10.70	10.53							
1.4	64QAM	6	0	10.61	10.71	10.51				12.5	0		
Channel Frequency (MHz)				18507		18900		19093					
1.4	QPSK	1	0	10.80	10.81	10.74						12.5	0
1.4	QPSK	1	3	10.71	10.88	10.83							
1.4</													



Band 5 DSI7 Ant0 NSA

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up	MPR
				Low	Middle	High		
Channel				20450	20525	20600	limit	(dB)
Frequency (MHz)				826.5	836.5	846.5		
10	QPSK	1	0	16.97	17.02	17.04	18.5	0
10	QPSK	1	25	16.87	17.00	16.94		
10	QPSK	1	49	16.84	16.97	16.92		
10	QPSK	25	0	16.90	17.00	16.94		
10	QPSK	25	12	16.95	16.97	16.95		
10	QPSK	25	25	16.92	16.99	16.95		
10	QPSK	50	0	16.94	17.04	17.03		
10	16QAM	1	0	16.87	17.01	16.94		
10	16QAM	1	25	16.97	16.89	16.93		
10	16QAM	1	49	16.95	16.99	17.02		
10	16QAM	25	0	16.97	16.97	16.95		
10	16QAM	25	12	16.93	17.01	16.99		
10	16QAM	25	25	16.88	17.07	16.90		
10	16QAM	50	0	16.88	17.05	17.01		
10	64QAM	1	0	16.90	16.98	17.03		
10	64QAM	1	25	16.85	17.03	16.86		
10	64QAM	1	49	16.87	16.88	16.87		
10	64QAM	25	0	16.83	16.92	17.01		
10	64QAM	25	12	16.86	17.00	16.94		
10	64QAM	25	25	16.86	17.05	16.94		
10	64QAM	50	0	16.88	16.98	16.98		
Channel				20425	20525	20625	limit	MPR
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	17.04	17.02	17.08	18.5	0
5	QPSK	1	12	16.95	16.96	16.91		
5	QPSK	1	24	16.85	16.98	16.93		
5	QPSK	12	0	16.82	17.06	16.89		
5	QPSK	12	7	16.91	16.93	16.93		
5	QPSK	12	13	16.99	16.97	16.99		
5	QPSK	25	0	16.89	16.99	17.03		
5	16QAM	1	0	16.89	17.06	16.95		
5	16QAM	1	12	17.01	16.92	16.91		
5	16QAM	1	24	16.89	17.02	17.01		
5	16QAM	12	0	16.93	16.96	17.03		
5	16QAM	12	7	16.94	17.02	17.01		
5	16QAM	12	13	16.88	17.03	16.87		
5	16QAM	25	0	16.88	17.02	16.99		
5	64QAM	1	0	16.88	16.97	16.95		
5	64QAM	1	12	16.93	16.99	16.89		
5	64QAM	1	24	16.82	16.89	16.88		
5	64QAM	12	0	16.90	16.95	17.04		
5	64QAM	12	7	16.91	17.04	16.87		
5	64QAM	12	13	16.92	16.99	16.96		
5	64QAM	25	0	16.91	16.99	16.99		
Channel				20415	20525	20635	limit	MPR
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	16.99	17.03	17.00	18.5	0
3	QPSK	1	8	16.90	16.91	16.91		
3	QPSK	1	14	16.91	16.95	16.92		
3	QPSK	8	0	16.91	16.97	16.91		
3	QPSK	8	4	16.87	16.97	16.95		
3	QPSK	8	7	16.93	16.95	16.94		
3	QPSK	15	0	16.86	17.05	16.96		
3	16QAM	1	0	16.90	17.07	16.91		
3	16QAM	1	8	16.96	16.95	16.93		
3	16QAM	1	14	16.93	16.99	17.03		
3	16QAM	8	0	16.95	16.92	16.95		
3	16QAM	8	4	16.89	17.01	17.03		
3	16QAM	8	7	16.95	17.09	16.90		
3	16QAM	15	0	16.88	17.01	16.99		
3	64QAM	1	0	16.93	17.03	17.03		
3	64QAM	1	8	16.90	16.99	16.86		
3	64QAM	1	14	16.96	16.92	16.86		
3	64QAM	8	0	16.84	16.99	17.04		
3	64QAM	8	4	16.88	17.00	16.94		
3	64QAM	8	7	16.85	17.07	16.91		
3	64QAM	15	0	16.89	17.02	16.99		
Channel				20407	20525	20643	limit	MPR
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	16.97	17.08	17.02	18.5	0
1.4	QPSK	1	3	16.90	16.96	16.89		
1.4	QPSK	3	0	16.88	16.91	16.88		
1.4	QPSK	3	0	16.84	17.06	16.95		
1.4	QPSK	3	1	16.94	16.89	16.96		
1.4	QPSK	3	3	16.91	17.01	17.02		
1.4	QPSK	6	0	16.87	17.02	16.99		
1.4	16QAM	1	0	16.91	17.06	16.89		
1.4	16QAM	1	3	16.95	16.96	17.00		
1.4	16QAM	1	5	16.89	16.98	16.99		
1.4	16QAM	3	0	16.91	16.96	16.96		
1.4	16QAM	3	1	16.95	17.05	17.03		
1.4	16QAM	3	3	16.92	17.02	16.85		
1.4	16QAM	6	0	16.86	17.05	16.96		
1.4	64QAM	1	0	16.86	17.01	16.99		
1.4	64QAM	1	3	16.86	17.02	16.89		
1.4	64QAM	1	5	16.84	16.94	16.89		
1.4	64QAM	3	0	16.83	16.94	17.02		
1.4	64QAM	3	1	16.88	17.02	16.88		
1.4	64QAM	3	3	16.92	17.05	16.92		
1.4	64QAM	6	0	16.86	16.99	17.04		

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up	MPR
				Low	Middle	High		
Channel				132072	132322	132572	limit	(dB)
Frequency (MHz)				1720.5	1745	1772.5		
20	QPSK	1	0	10.91	11.10	11.04	12.5	0
20	QPSK	1	49	10.78	11.08	10.88		
20	QPSK	1	99	10.80	10.94	11.02		
20	QPSK	50	0	10.81	11.08	10.92		
20	QPSK	50	24	10.78	11.06	10.84		
20	QPSK	50	50	10.78	11.07	10.93		
20	QPSK	100	0	10.89	10.95	10.91		
20	16QAM	1	0	10.79	11.00	10.98		
20	16QAM	1	49	10.78	10.94	10.99		
20	16QAM	1	99	10.86	11.07	10.92		
20	16QAM	50	0	10.86	11.05	10.91		
20	16QAM	50	24	10.83	11.05	10.99		
20	16QAM	50	50	10.89	10.96	10.95		
20	16QAM	100	0	10.79	10.97	10.96		
20	64QAM	1	0	10.78	11.00	11.01		
20	64QAM	1	49	10.84	11.08	10.96		
20	64QAM	1	99	10.83	11.07	10.88		
20	64QAM	50	0	10.82	10.97	10.98		
20	64QAM	50	24	10.84	11.04	11.07		
20	64QAM	50	50	10.75	10.95	11.00		
20	64QAM	100	0	10.87	10.96	10.94		
Channel				132047	132322	132597	limit	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	10.87	11.06	11.00	12.5	0
15	QPSK	1	37	10.71	10.94	10.82		
15	QPSK	1	74	10.71	10.82	10.98		
15	QPSK	36	0	10.70	10.95	10.89		
15	QPSK	36	20	10.67	11.02	10.88		
15	QPSK	36	39	10.71	10.94	10.78		
15	QPSK	75	0	10.81	10.92	10.77		
15	16QAM	1	0	10.70	10.85	10.86		
15	16QAM	1	37	10.69	10.81	10.86		
15	16QAM	1	74	10.78	10.91	10.82		
15	16QAM	36	0	10.79	10.98	10.82		
15	16QAM	36	20	10.67	10.97	10.91		
15	16QAM	36	39	10.77	10.92	10.80		
15	16QAM	75	0	10.73	10.94	10.90		
15	64QAM	1	0	10.73	10.95	10.94		
15	64QAM	1	37	10.75	10.98	10.83		
15	64QAM	1	74	10.79	11.04	10.84		
15	64QAM	36	0	10.72	10.88	10.84		
15	64QAM	36	20	10.81	10.99	10.85		
15	64QAM	36	39	10.82	10.86	10.82		
15	64QAM	75	0	10.79	10.91	10.82		
Channel				132022	132322	132622	limit	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	10.88	10.95	10.95	12.5	0
10	QPSK	1	25	10.63	11.03	10.78		
10	QPSK	1	49	10.73	10.91	10.96		
10	QPSK	25	0	10.78	10.94	10.84		
10	QPSK	25	12	10.67	10.96	10.83		
10	QPSK	25	25	10.75	10.95	10.90		
10	QPSK	50	0	10.82	10.85	10.86		
10	16QAM	1	0	10.77	10.86	10.94		
10	16QAM	1	25	10.70	10.82	10.85		
10	16QAM	1	49	10.73	10.93	10.86		
10	16QAM	25	0	10.83	10.96	10.83		
10	16QAM	25	12	10.76	11.01	10.82		
10	16QAM	25	25	10.83	10.89	10.82		
10	16QAM	50	0	10.66	10.87	10.87		
10	64QAM	1	0	10.63	10.90	10.99		
10	64QAM	1	25	10.71	10.96	10.89		
10	64QAM	1	49	10.75	11.05	10.82		
10	64QAM	25	0	10.77	10.87	10.83		
10	64QAM	25	12	10.80	10.99	10.87		
10	64QAM	25	25	10.82	10.79	10.87		
10	64QAM	50	0	10.80	10.87	10.82		
Channel				131997	132322	132647	limit	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	10.81	11.00	11.00	12.5	0
5	QPSK	1	12	10.86	10.98	10.85		
5	QPSK	1	24	10.78	10.86	10.96		
5	QPSK	12	0	10.65	11.00	10.89		
5	QPSK	12	7	10.70	11.00	10.89		
5	QPSK	12	13	10.76	10.92	10.79		
5	QPSK	25	0	10.85	10.81	10.87		
5	16QAM	1	0	10.68	10.90	10.90		
5	16QAM	1	12	10.65	10.87	10.83		
5	16QAM	1	24	10.82	10.96	10.86		
5	16QAM	12	0	10.85	11.01	10.80		
5	16QAM	12	7	10.76	10.99	10.83		
5	16QAM	12	13	10.76	10.83	10.87		
5	16QAM	25	0	10.75	10.87	10.82		
5	64QAM	1	0	10.74	10.86	10.96		
5	64QAM	1	12	10.77	10.97	10.93		
5	64QAM	1	24	10.81	10.92	10.78		
5	64QAM	12	0	10.78	10.87	10.88		
5	64QAM	12	7	10.76	11.00	10.93		
5	64QAM	12	13	10.85	10.82	10.86		
5	64QAM	25	0	10.81	10.85	10.88		
Channel				131987	132322	132657	limit	MPR
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	10.76	11.00	11.01	12.5	0
3</								



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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				20650	21100	21650		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	13.02	13.09	12.90	14.5	0
20	QPSK	1	49	12.94	12.94	12.87		
20	QPSK	1	99	12.99	12.96	12.77		
20	QPSK	50	0	12.86	12.98	12.85	14.5	0
20	QPSK	50	24	12.90	12.85	12.85		
20	QPSK	50	50	12.95	12.94	12.85		
20	QPSK	100	0	12.92	12.96	12.77	14.5	0
20	16QAM	1	0	12.87	13.01	12.75		
20	16QAM	1	49	12.88	13.05	12.86		
20	16QAM	1	99	12.86	13.02	12.79	14.5	0
20	16QAM	50	0	12.91	12.96	12.84		
20	16QAM	50	24	12.92	13.00	12.85		
20	16QAM	50	50	12.97	12.95	12.80	14.5	0
20	16QAM	100	0	12.91	13.07	12.80		
20	64QAM	1	0	12.97	12.94	12.85		
20	64QAM	1	49	12.94	13.05	12.88	14.5	0
20	64QAM	1	99	13.00	12.97	12.75		
20	64QAM	50	0	12.90	12.96	12.85		
20	64QAM	50	24	12.90	13.04	12.74	14.5	0
20	64QAM	50	50	12.94	13.00	12.83		
20	64QAM	100	0	12.95	13.02	12.81		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	12.96	12.96	12.80	14.5	0
15	QPSK	1	37	12.82	12.83	12.80		
15	QPSK	1	74	12.94	12.84	12.68		
15	QPSK	36	0	12.80	12.85	12.77	14.5	0
15	QPSK	36	20	12.84	12.89	12.78		
15	QPSK	36	39	12.81	12.83	12.76		
15	QPSK	75	0	12.84	12.85	12.75	14.5	0
15	16QAM	1	0	12.79	12.96	12.84		
15	16QAM	1	37	12.77	12.91	12.74		
15	16QAM	1	74	12.72	12.91	12.73	14.5	0
15	16QAM	36	0	12.88	12.88	12.74		
15	16QAM	36	20	12.77	12.90	12.81		
15	16QAM	36	39	12.90	12.82	12.68	14.5	0
15	16QAM	75	0	12.85	13.04	12.67		
15	64QAM	1	0	12.83	12.84	12.79		
15	64QAM	1	37	12.89	12.97	12.81	14.5	0
15	64QAM	1	74	12.88	12.87	12.66		
15	64QAM	36	0	12.79	12.88	12.82		
15	64QAM	36	20	12.75	13.00	12.71	14.5	0
15	64QAM	36	39	12.82	12.89	12.69		
15	64QAM	75	0	12.84	12.91	12.78		
Channel				20900	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	12.93	12.98	12.77	14.5	0
10	QPSK	1	25	12.86	12.82	12.75		
10	QPSK	1	49	12.89	12.84	12.75		
10	QPSK	25	0	12.73	12.91	12.71	14.5	0
10	QPSK	25	12	12.75	12.86	12.72		
10	QPSK	25	25	12.82	12.81	12.81		
10	QPSK	50	0	12.89	12.86	12.71	14.5	0
10	16QAM	1	0	12.80	12.90	12.72		
10	16QAM	1	25	12.86	12.89	12.72		
10	16QAM	1	49	12.79	12.95	12.75	14.5	0
10	16QAM	25	0	12.82	12.83	12.75		
10	16QAM	25	12	12.85	12.87	12.71		
10	16QAM	25	25	12.87	12.81	12.75	14.5	0
10	16QAM	50	0	12.82	13.02	12.66		
10	64QAM	1	0	12.82	12.91	12.72		
10	64QAM	1	25	12.81	12.95	12.79	14.5	0
10	64QAM	1	49	12.96	12.88	12.72		
10	64QAM	25	0	12.79	12.88	12.81		
10	64QAM	25	12	12.87	12.98	12.63	14.5	0
10	64QAM	25	25	12.81	12.85	12.77		
10	64QAM	50	0	12.81	12.97	12.72		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	12.97	12.96	12.79	14.5	0
5	QPSK	1	12	12.81	12.87	12.79		
5	QPSK	1	24	12.89	12.84	12.64		
5	QPSK	12	0	12.80	12.85	12.75	14.5	0
5	QPSK	12	7	12.82	12.87	12.72		
5	QPSK	12	13	12.92	12.89	12.74		
5	QPSK	25	0	12.87	12.90	12.70	14.5	0
5	16QAM	1	0	12.76	12.92	12.85		
5	16QAM	1	12	12.82	12.90	12.81		
5	16QAM	1	24	12.82	12.92	12.72	14.5	0
5	16QAM	12	0	12.75	12.92	12.73		
5	16QAM	12	7	12.82	12.85	12.78		
5	16QAM	12	13	12.95	12.80	12.70	14.5	0
5	16QAM	25	0	12.75	12.97	12.64		
5	64QAM	1	0	12.92	12.90	12.83		
5	64QAM	1	12	12.85	12.93	12.86	14.5	0
5	64QAM	1	24	12.87	12.94	12.63		
5	64QAM	12	0	12.78	12.87	12.69		
5	64QAM	12	7	12.82	12.97	12.61	14.5	0
5	64QAM	12	13	12.90	12.84	12.74		
5	64QAM	25	0	12.84	12.91	12.66		



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Band	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
20	Channel				37850	39000	38150	16.5	0
	Frequency (MHz)				2580	2595	2610		
	20	QPSK	1	0	15.81	15.82	15.56		
	20	QPSK	1	49	15.82	15.55	15.82		
	20	QPSK	1	99	15.54	15.53	15.59		
	20	QPSK	50	0	15.55	15.60	15.59		
	20	QPSK	50	24	15.57	15.58	15.58		
	20	QPSK	50	50	15.83	15.81	15.87		
	20	QPSK	100	0	15.50	15.54	15.53		
	20	16QAM	1	0	15.53	15.50	15.82		
	20	16QAM	1	49	15.53	15.58	15.87		
	20	16QAM	1	99	15.54	15.57	15.54		
	20	16QAM	50	0	15.53	15.57	15.81		
	20	16QAM	50	24	15.58	15.55	15.53		
	20	16QAM	50	50	15.81	15.53	15.59		
	20	16QAM	100	0	15.51	15.57	15.83		
	20	64QAM	1	0	15.57	15.55	15.58		
	20	64QAM	1	49	15.58	15.60	15.81		
	20	64QAM	1	99	15.81	15.60	15.83		
	20	64QAM	50	0	15.56	15.58	15.59		
20	64QAM	50	24	15.50	15.81	15.87			
20	64QAM	50	50	15.87	15.82	15.58			
20	64QAM	100	0	15.54	15.59	15.83			
15	Channel				37825	39000	38175	16.5	0
	Frequency (MHz)				2577.5	2595	2612.5		
	15	QPSK	1	0	15.50	15.50	15.81		
	15	QPSK	1	37	15.58	15.58	15.84		
	15	QPSK	1	74	15.57	15.56	15.55		
	15	QPSK	36	0	15.58	15.58	15.81		
	15	QPSK	36	20	15.55	15.50	15.56		
	15	QPSK	36	39	15.81	15.82	15.59		
	15	QPSK	75	0	15.53	15.55	15.59		
	15	16QAM	1	0	15.81	15.53	15.59		
	15	16QAM	1	37	15.59	15.58	15.84		
	15	16QAM	1	74	15.56	15.82	15.58		
	15	16QAM	36	0	15.57	15.54	15.50		
	15	16QAM	36	20	15.53	15.59	15.82		
	15	16QAM	36	39	15.56	15.55	15.81		
	15	16QAM	75	0	15.50	15.58	15.60		
	15	64QAM	1	0	15.58	15.57	15.56		
	15	64QAM	1	37	15.81	15.59	15.50		
	15	64QAM	1	74	15.53	15.82	15.81		
	15	64QAM	36	0	15.82	15.57	15.60		
15	64QAM	36	20	15.83	15.53	15.58			
15	64QAM	36	39	15.82	15.60	15.84			
15	64QAM	75	0	15.56	15.84	15.56			
10	Channel				37800	39000	38200	16.5	0
	Frequency (MHz)				2580	2595	2610		
	10	QPSK	1	0	15.54	15.57	15.54		
	10	QPSK	1	25	15.81	15.83	15.50		
	10	QPSK	1	49	15.57	15.84	15.85		
	10	QPSK	25	0	15.54	15.50	15.56		
	10	QPSK	25	12	15.83	15.50	15.82		
	10	QPSK	25	25	15.54	15.54	15.56		
	10	QPSK	50	0	15.55	15.56	15.83		
	10	16QAM	1	0	15.81	15.81	15.88		
	10	16QAM	1	25	15.83	15.50	15.84		
	10	16QAM	1	49	15.88	15.82	15.84		
	10	16QAM	25	0	15.56	15.57	15.88		
	10	16QAM	25	12	15.82	15.82	15.83		
	10	16QAM	25	25	15.82	15.59	15.87		
	10	16QAM	50	0	15.55	15.50	15.89		
	10	64QAM	1	0	15.84	15.83	15.87		
	10	64QAM	1	25	15.87	15.84	15.88		
	10	64QAM	1	49	15.81	15.87	15.81		
	10	64QAM	25	0	15.88	15.87	15.83		
10	64QAM	25	12	15.86	15.85	15.83			
10	64QAM	25	25	15.80	15.89	15.88			
10	64QAM	50	0	15.84	15.89	15.88			
5	Channel				37775	39000	38225	16.5	0
	Frequency (MHz)				2577.5	2595	2617.5		
	5	QPSK	1	0	15.56	15.55	15.81		
	5	QPSK	1	12	15.85	15.82	15.85		
	5	QPSK	1	24	15.50	15.50	15.56		
	5	QPSK	12	0	15.56	15.50	15.86		
	5	QPSK	12	7	15.86	15.83	15.88		
	5	QPSK	12	13	15.87	15.84	15.84		
	5	QPSK	25	0	15.81	15.50	15.88		
	5	16QAM	1	0	15.87	15.86	15.84		
	5	16QAM	1	12	15.81	15.82	15.50		
	5	16QAM	1	24	15.80	15.85	15.88		
	5	16QAM	12	0	15.81	15.80	15.83		
	5	16QAM	12	7	15.82	15.80	15.86		
	5	16QAM	12	13	15.83	15.84	15.81		
	5	16QAM	25	0	15.83	15.84	15.84		
	5	64QAM	1	0	15.87	15.86	15.88		
	5	64QAM	1	12	15.88	15.80	15.84		
	5	64QAM	1	24	15.82	15.83	15.84		
	5	64QAM	12	0	15.85	15.87	15.83		
5	64QAM	12	7	15.83	15.85	15.84			
5	64QAM	12	13	15.88	15.87	15.89			
5	64QAM	25	0	15.88	15.81	15.89			



Band 4 DS17 Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel				20050	20175	20300	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1717.5	1732.5	1747.5						
20	QPSK	1	0	13.68	13.72	13.70						
20	QPSK	1	49	13.80	13.70	13.58	15	0				
20	QPSK	1	99	13.54	13.63	13.49						
20	QPSK	50	0	13.61	13.66	13.55						
20	QPSK	50	24	13.37	13.59	13.77	15	0				
20	QPSK	50	50	13.61	13.65	13.65						
20	QPSK	100	0	13.52	13.61	13.55						
20	16QAM	1	0	13.37	13.50	13.40						
20	16QAM	1	49	13.32	13.41	13.40	15	0				
20	16QAM	1	99	13.49	13.34	13.49						
20	16QAM	50	0	13.44	13.46	13.25						
20	16QAM	50	24	13.46	13.44	13.23	15	0				
20	16QAM	50	50	13.41	13.54	13.40						
20	16QAM	100	0	13.34	13.62	13.46						
20	64QAM	1	0	13.45	13.37	13.39						
20	64QAM	1	49	13.43	13.43	13.36	15	0				
20	64QAM	1	99	13.47	13.54	13.40						
20	64QAM	50	0	13.24	13.36	13.24						
20	64QAM	50	24	13.53	13.42	13.47	15	0				
20	64QAM	50	50	13.30	13.45	13.44						
20	64QAM	100	0	13.45	13.49	13.40						
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1717.5	1732.5	1747.5						
15	QPSK	1	0	13.45	13.47	13.57	15	0				
15	QPSK	1	37	13.51	13.62	13.48						
15	QPSK	1	74	13.43	13.51	13.32						
15	QPSK	36	0	13.58	13.60	13.35						
15	QPSK	36	20	13.48	13.44	13.40	15	0				
15	QPSK	36	39	13.56	13.44	13.61						
15	QPSK	75	0	13.28	13.46	13.53						
15	16QAM	1	0	13.31	13.36	13.38	15	0				
15	16QAM	1	37	13.24	13.15	13.37						
15	16QAM	1	74	13.46	13.13	13.30						
15	16QAM	36	0	13.36	13.42	13.09						
15	16QAM	36	20	13.43	13.38	13.36	15	0				
15	16QAM	36	39	13.26	13.55	13.24						
15	16QAM	75	0	13.25	13.39	13.31						
15	64QAM	1	0	13.33	13.15	13.29	15	0				
15	64QAM	1	37	13.18	13.24	13.15						
15	64QAM	1	74	13.38	13.38	13.30						
15	64QAM	36	0	13.25	13.52	13.21						
15	64QAM	36	20	13.55	13.33	13.36	15	0				
15	64QAM	36	39	13.27	13.17	13.28						
15	64QAM	75	0	13.34	13.39	13.40						
Channel				20050	20175	20350	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1717.5	1732.5	1750						
10	QPSK	1	0	13.54	13.59	13.57	15	0				
10	QPSK	1	25	13.51	13.63	13.57						
10	QPSK	1	49	13.44	13.48	13.25						
10	QPSK	25	0	13.48	13.50	13.46	15	0				
10	QPSK	25	12	13.38	13.46	13.46						
10	QPSK	25	26	13.42	13.38	13.58						
10	QPSK	50	0	13.48	13.43	13.45						
10	16QAM	1	0	13.32	13.43	13.37	15	0				
10	16QAM	1	25	13.17	13.21	13.22						
10	16QAM	1	49	13.27	13.22	13.22						
10	16QAM	25	0	13.31	13.36	13.21	15	0				
10	16QAM	25	12	13.35	13.22	13.10						
10	16QAM	25	26	13.25	13.49	13.32						
10	16QAM	50	0	13.26	13.53	13.25						
10	64QAM	1	0	13.35	13.22	13.20	15	0				
10	64QAM	1	25	13.29	13.49	13.24						
10	64QAM	1	49	13.36	13.39	13.26						
10	64QAM	25	0	13.35	13.45	13.04	15	0				
10	64QAM	25	12	13.43	13.29	13.38						
10	64QAM	25	26	13.31	13.33	13.22						
10	64QAM	50	0	13.25	13.31	13.17						
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1712.5	1732.5	1752.5						
5	QPSK	1	0	13.44	13.63	13.44	15	0				
5	QPSK	1	12	13.41	13.61	13.57						
5	QPSK	1	24	13.40	13.50	13.38						
5	QPSK	12	0	13.58	13.51	13.37	15	0				
5	QPSK	12	7	13.47	13.52	13.30						
5	QPSK	12	13	13.55	13.49	13.61						
5	QPSK	25	0	13.40	13.49	13.43						
5	16QAM	1	0	13.31	13.34	13.44	15	0				
5	16QAM	1	12	13.31	13.26	13.31						
5	16QAM	1	24	13.24	13.12	13.26						
5	16QAM	12	0	13.28	13.26	13.30	15	0				
5	16QAM	12	7	13.43	13.45	13.06						
5	16QAM	12	13	13.39	13.41	13.40						
5	16QAM	25	0	13.31	13.55	13.27						
5	64QAM	1	0	13.26	13.20	13.36	15	0				
5	64QAM	1	12	13.25	13.44	13.15						
5	64QAM	1	24	13.49	13.40	13.38						
5	64QAM	12	0	13.34	13.45	13.05	15	0				
5	64QAM	12	7	13.42	13.12	13.44						
5	64QAM	12	13	13.29	13.15	13.42						
5	64QAM	25	0	13.40	13.51	13.35						
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1711.5	1732.5	1753.5						
3	QPSK	1	0	13.54	13.57	13.55	15	0				
3	QPSK	1	14	13.65	13.51	13.57						
3	QPSK	1	14	13.30	13.53	13.37						
3	QPSK	8	0	13.46	13.55	13.38	15	0				
3	QPSK	8	4	13.49	13.66	13.28						
3	QPSK	8	7	13.58	13.50	13.42						
3	QPSK	15	0	13.36	13.61	13.41						
3	16QAM	1	0	13.35	13.51	13.36	15	0				
3	16QAM	1	8	13.09	13.10	13.27						
3	16QAM	1	14	13.32	13.28	13.45						
3	16QAM	8	0	13.24	13.41	13.24	15	0				
3	16QAM	8	4	13.29	13.38	13.08						
3	16QAM	8	7	13.32	13.42	13.27						
3	16QAM	15	0	13.16	13.38	13.21						
3	64QAM	1	0	13.27	13.28	13.34	15	0				
3	64QAM	1	8	13.32	13.30	13.19						
3	64QAM	1	14	13.47	13.43	13.25						
3	64QAM	8	0	13.43	13.35	13.17	15	0				
3	64QAM	8	4	13.55	13.23	13.49						
3	64QAM	8	7	13.27	13.32	13.27						
3	64QAM	15	0	13.28	13.47	13.43						
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1710.7	1732.5	1754.3						
1.4	QPSK	1	0	13.56	13.67	13.60	15	0				
1.4	QPSK	1	3	13.53	13.63	13.41						
1.4	QPSK	1	5	13.45	13.48	13.45						
1.4	QPSK	3	0	13.57	13.60	13.54	15	0				
1.4	QPSK	3	1	13.54	13.49	13.47						
1.4	QPSK	3	3	13.34	13.36	13.59						
1.4	QPSK	6	0	13.47	13.52	13.40	15	0				
1.4	16QAM	1	0	13.46	13.21	13.41						
1.4	16QAM	1	3	13.13	13.24	13.19	15	0				
1.4	16QAM	1	5	13.27	13.12	13.39						
1.4	16QAM	3	0	13.40	13.34	13.28						
1.4	16QAM	3	1	13.31	13.27	13.03	15	0				
1.4	16QAM	3	3	13.18	13.32	13.28						
1.4	16QAM	6	0	13.40	13.48	13.29	15	0				
1.4	64QAM	1	0	13.49	13.25	13.43						
1.4	64QAM	1	3	13.39	13.45	13.25						
1.4	64QAM	1	5	13.37	13.40	13.22	15	0				
1.4	64QAM	3	0	13.27	13.51	13.25						
1.4	64QAM	3	1	13.43	13.22	13.35						
1.4	64QAM	3	3	13.10	13.23	13.37	15	0				
1.4	64QAM	6	0	13.35	13.34	13.20						

Band 7 DS17 Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2510	2535	2560						
20	QPSK	1	0	11.59	11.68	11.64						
20	QPSK	1	49	11.54	11.64	11.43	13	0				
20	QPSK	1	99	11.52	11.58	11.51						
20	QPSK	50	0	11.57	11.65	11.60						
20	QPSK	50	24	11.58	11.62	11.54	13	0				
20	QPSK	50	50	11.48	11.55	11.54						
20	QPSK	100	0	11.51	11.60	11.59						
20	16QAM	1	0	11.55	11.64	11.59						
20	16QAM	1	49	11.64	11.65	11.54	13	0				
20	16QAM	1	99	11.49	11.56	11.55						
20	16QAM	50	0	11.56	11.61	11.62						



Reduced Power Mode for DSI3

DSIS SA GSM850 Amd									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	128	189	251	Limit	128	189	251	Limit	
Frequency (MHz)	824.2	834.4	844.6	(dBm)	824.2	834.4	844.6	(dBm)	
GSM 1 Tx slot	29.15	29.21	29.06	30.50	20.15	20.21	20.06	21.50	
GPRS 1 Tx slot	29.08	29.14	29.06	30.50	20.08	20.14	20.06	21.50	
GPRS 2 Tx slots	28.16	28.21	28.13	29.50	22.16	22.21	22.13	23.50	
GPRS 3 Tx slots	28.57	28.70	28.57	29.00	22.31	22.44	22.31	23.74	
GPRS 4 Tx slots	25.68	25.73	25.68	27.00	22.68	22.73	22.68	24.00	
EDGE 1 Tx slot	24.09	24.20	24.13	25.50	15.09	15.20	15.13	16.50	
EDGE 2 Tx slots	23.16	23.19	23.11	24.50	17.16	17.19	17.11	18.50	
EDGE 3 Tx slots	20.07	20.77	20.72	22.50	16.41	16.51	16.46	18.24	
EDGE 4 Tx slots	19.37	19.47	19.42	21.00	16.37	16.47	16.42	18.00	

DSIS SA GSM1900 Amd									
GSM1900 Amd	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	512	661	810	Limit	512	661	810	Limit	
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)	
GSM 1 Tx slot	21.54	21.66	21.62	23.00	12.54	12.66	12.62	14.00	
GPRS 1 Tx slot	21.45	21.58	21.51	23.00	12.45	12.58	12.51	14.00	
GPRS 2 Tx slots	20.54	20.67	20.57	22.00	14.54	14.67	14.57	16.00	
GPRS 3 Tx slots	19.00	19.10	19.06	20.50	14.74	14.84	14.80	16.24	
GPRS 4 Tx slots	18.04	18.08	17.98	19.50	15.04	15.08	14.98	16.50	
EDGE 1 Tx slot	16.00	16.14	16.03	18.50	9.00	9.14	9.03	10.50	
EDGE 2 Tx slots	17.02	17.07	16.95	18.50	11.02	11.07	10.95	12.50	
EDGE 3 Tx slots	15.53	15.62	15.54	17.00	11.27	11.36	11.28	12.74	
EDGE 4 Tx slots	14.39	14.54	14.42	16.00	11.39	11.54	11.42	13.00	

DSIS SA WCDMA II Amd													
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV Amd			DSIS SA WCDMA V Amd					
	9002	9400	9538		1312	1413	1513	4132	4182	4233			
TX Channel	9002	9400	9538	Limit	1312	1413	1513	4132	4182	4233			
Frequency (MHz)	1852.4	1880	1907.6	(dBm)	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	15.16	15.26	15.17	16.50	14.68	14.74	14.71	16.00	20.75	20.77	20.75	22.00
3GPP Rel 99	RMC 12.2Kbps	15.22	15.31	15.26	16.50	14.70	14.88	14.74	16.00	20.82	20.83	20.75	22.00
3GPP Rel 6	HSDPA Subtest-1	14.27	14.25	14.09	15.50	13.83	13.79	13.81	15.00	19.84	19.87	19.73	21.00
3GPP Rel 6	HSDPA Subtest-2	14.35	14.33	14.22	15.50	13.88	13.83	13.68	15.00	19.87	19.90	19.81	21.00
3GPP Rel 6	HSDPA Subtest-3	13.73	13.82	13.73	15.00	13.25	13.38	13.28	14.50	19.31	19.41	19.36	20.50
3GPP Rel 6	HSDPA Subtest-4	13.75	13.80	13.62	15.00	13.26	13.33	13.35	14.50	19.40	19.44	19.41	20.50
3GPP Rel 6	DC-HSDPA Subtest-1	14.28	14.20	14.24	15.50	13.75	13.67	13.80	15.00	19.87	19.78	19.82	21.00
3GPP Rel 6	DC-HSDPA Subtest-2	14.25	14.23	14.25	15.50	13.71	13.70	13.82	15.00	19.88	19.87	19.94	21.00
3GPP Rel 6	DC-HSDPA Subtest-3	13.78	13.77	13.84	15.00	13.26	13.31	13.35	14.50	19.38	19.41	19.45	20.50
3GPP Rel 6	DC-HSDPA Subtest-4	13.75	13.86	13.84	15.00	13.24	13.38	13.40	14.50	19.37	19.43	19.44	20.50
3GPP Rel 6	HSPA Subtest-1	14.31	14.21	14.34	15.50	13.80	13.71	13.90	15.00	19.87	19.89	19.89	21.00
3GPP Rel 6	HSPA Subtest-2	12.21	12.23	12.38	13.50	11.68	11.72	11.85	13.00	17.79	17.89	17.88	19.00
3GPP Rel 6	HSPA Subtest-3	13.18	13.32	13.39	14.50	12.71	12.85	12.96	14.00	18.82	18.91	18.82	20.00
3GPP Rel 6	HSPA Subtest-4	12.35	12.30	12.27	13.50	11.67	11.76	11.81	13.00	17.96	17.85	17.87	19.00
3GPP Rel 6	HSPA Subtest-5	14.27	14.24	14.26	15.50	13.74	13.76	13.77	15.00	19.96	19.83	19.88	21.00
3GPP Rel 7	HSPA+ (HSPA) Subtest-1	11.89	11.82	11.83	13.00	11.40	11.39	11.34	12.50	17.45	17.45	17.39	18.50



Band 13 DS13 Ant0 SA

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
752								
10	QPSK	1	0	22.03			23.5	0
10	QPSK	1	25	21.92				
10	QPSK	1	49	21.97				
10	QPSK	25	0	21.48			23	0.5
10	QPSK	25	12	21.44				
10	QPSK	25	25	21.41				
10	QPSK	50	0	21.42			23	0.5
10	16QAM	1	0	21.62				
10	16QAM	1	25	21.56				
10	16QAM	1	49	21.58			22	1.5
10	16QAM	25	0	20.46				
10	16QAM	25	12	20.43				
10	16QAM	25	25	20.35			22	1.5
10	16QAM	50	0	20.45				
10	64QAM	1	0	20.51				
10	64QAM	1	25	20.47			22	1.5
10	64QAM	1	49	20.38				
10	64QAM	25	0	19.45				
10	64QAM	25	12	19.35			21	2.5
10	64QAM	25	25	19.34				
10	64QAM	50	0	19.41				
Channel								
Frequency (MHz)								
23205 23230 23255								
5	QPSK	1	0	21.90	21.90	21.84	23.5	0
5	QPSK	1	12	21.89	21.89	21.84		
5	QPSK	1	24	21.87	21.92	21.83		
5	QPSK	12	0	21.42	21.38	21.34	23	0.5
5	QPSK	12	7	21.33	21.31	21.36		
5	QPSK	12	13	21.32	21.27	21.28		
5	QPSK	25	0	21.31	21.33	21.38	23	0.5
5	16QAM	1	0	21.50	21.57	21.51		
5	16QAM	1	12	21.50	21.43	21.50		
5	16QAM	1	24	21.45	21.45	21.46	22	1.5
5	16QAM	12	0	20.38	20.38	20.40		
5	16QAM	12	7	20.34	20.31	20.30		
5	16QAM	12	13	20.20	20.22	20.31	22	1.5
5	16QAM	25	0	20.31	20.36	20.36		
5	64QAM	1	0	20.35	20.45	20.43		
5	64QAM	1	12	20.38	20.34	20.41	22	1.5
5	64QAM	1	24	20.24	20.34	20.25		
5	64QAM	12	0	19.41	19.39	19.37		
5	64QAM	12	7	19.20	19.23	19.20	21	2.5
5	64QAM	12	13	19.27	19.20	19.26		
5	64QAM	25	0	19.31	19.26	19.32		

Band 26 DS13 Ant0 SA

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
821.5 831.5 841.5								
15	QPSK	1	0	20.95	21.06	21.01	22.5	0
15	QPSK	1	37	20.90	21.04	20.91		
15	QPSK	1	74	20.88	20.98	20.83		
15	QPSK	36	0	20.93	21.04	21.03	22.5	0
15	QPSK	36	20	20.86	20.96	20.93		
15	QPSK	36	39	20.92	20.96	20.84		
15	QPSK	75	0	20.97	21.04	21.03	22.5	0
15	16QAM	1	0	20.92	20.98	20.96		
15	16QAM	1	37	20.88	21.03	20.94		
15	16QAM	1	74	20.93	20.99	20.90	22	0.5
15	16QAM	36	0	20.42	20.54	20.45		
15	16QAM	36	20	20.38	20.50	20.42		
15	16QAM	36	39	20.47	20.51	20.38	22	0.5
15	16QAM	75	0	20.37	20.50	20.40		
15	64QAM	1	0	20.60	20.65	20.57		
15	64QAM	1	37	20.64	20.68	20.62	22	0.5
15	64QAM	1	74	20.47	20.59	20.51		
15	64QAM	36	0	19.39	19.53	19.44		
15	64QAM	36	20	19.50	19.55	19.48	21	1.5
15	64QAM	36	39	19.34	19.44	19.33		
15	64QAM	75	0	19.44	19.47	19.34		
Channel								
Frequency (MHz)								
26740 26865 26990								
10	QPSK	1	0	20.95	21.01	20.92	22.5	0
10	QPSK	1	25	20.88	21.00	20.84		
10	QPSK	1	49	20.83	20.98	20.83		
10	QPSK	25	0	20.92	20.95	20.97	22.5	0
10	QPSK	25	12	20.82	20.91	20.90		
10	QPSK	25	25	20.87	20.87	20.74		
10	QPSK	50	0	20.92	21.01	21.02	22.5	0
10	16QAM	1	0	20.92	20.92	20.92		
10	16QAM	1	25	20.88	21.02	20.92		
10	16QAM	1	49	20.91	20.93	20.86	22	0.5
10	16QAM	25	0	20.36	20.42	20.33		
10	16QAM	25	12	20.35	20.42	20.31		
10	16QAM	25	25	20.40	20.44	20.28	22	0.5
10	16QAM	50	0	20.32	20.42	20.26		
10	64QAM	1	0	20.41	20.60	20.42		
10	64QAM	1	25	20.55	20.60	20.56	22	0.5
10	64QAM	1	49	20.37	20.44	20.44		
10	64QAM	25	0	19.32	19.49	19.36		
10	64QAM	25	12	19.39	19.43	19.45	21	1.5
10	64QAM	25	25	19.20	19.31	19.21		
10	64QAM	50	0	19.41	19.38	19.21		
Channel								
Frequency (MHz)								
26715 26865 27015								
5	QPSK	1	0	20.92	21.00	20.94	22.5	0
5	QPSK	1	12	20.81	21.01	20.83		
5	QPSK	1	24	20.85	20.95	20.77		
5	QPSK	12	0	20.87	21.02	20.98	22.5	0
5	QPSK	12	7	20.82	20.88	20.92		
5	QPSK	12	13	20.88	20.91	20.83		
5	QPSK	25	0	20.87	20.99	21.01	22.5	0
5	16QAM	1	0	20.86	20.97	20.93		
5	16QAM	1	12	20.78	20.98	20.85		
5	16QAM	1	24	20.88	20.91	20.82	22	0.5
5	16QAM	12	0	20.30	20.39	20.38		
5	16QAM	12	7	20.34	20.39	20.29		
5	16QAM	12	13	20.39	20.48	20.29	22	0.5
5	16QAM	25	0	20.32	20.44	20.30		
5	64QAM	1	0	20.46	20.62	20.42		
5	64QAM	1	12	20.57	20.63	20.47	22	0.5
5	64QAM	1	24	20.40	20.46	20.41		
5	64QAM	12	0	19.30	19.38	19.30		
5	64QAM	12	7	19.42	19.44	19.39	21	1.5
5	64QAM	12	13	19.25	19.31	19.27		
5	64QAM	25	0	19.35	19.39	19.19		
Channel								
Frequency (MHz)								
26705 26865 27025								
3	QPSK	1	0	20.87	20.99	20.98	22.5	0
3	QPSK	1	8	20.82	21.02	20.84		
3	QPSK	1	14	20.86	20.91	20.82		
3	QPSK	8	0	20.87	20.99	20.96	22.5	0
3	QPSK	8	4	20.86	20.93	20.88		
3	QPSK	8	7	20.92	20.96	20.84		
3	QPSK	15	0	20.89	20.95	20.99	22.5	0
3	16QAM	1	0	20.86	20.91	20.89		
3	16QAM	1	8	20.79	20.95	20.89		
3	16QAM	1	14	20.90	20.89	20.86	22	0.5
3	16QAM	8	0	20.35	20.40	20.31		
3	16QAM	8	4	20.25	20.45	20.33		
3	16QAM	8	7	20.39	20.39	20.29	22	0.5
3	16QAM	15	0	20.29	20.39	20.37		
3	64QAM	1	0	20.57	20.53	20.48		
3	64QAM	1	8	20.57	20.60	20.55	22	0.5
3	64QAM	1	14	20.44	20.53	20.40		
3	64QAM	8	0	19.24	19.47	19.30		
3	64QAM	8	4	19.38	19.48	19.37	21	1.5
3	64QAM	8	7	19.31	19.29	19.24		
3	64QAM	15	0	19.33	19.41	19.21		
Channel								
Frequency (MHz)								
26997 26985 27033								
1.4	QPSK	1	0	20.82	20.98	20.93	22.5	0
1.4	QPSK	1	3	20.85	20.84	20.87		
1.4	QPSK	1	5	20.75	20.89	20.83		
1.4	QPSK	3	0	20.93	21.00	20.87	22.5	0
1.4	QPSK	3	1	20.91	20.97	20.93		
1.4	QPSK	3	3	20.70	20.79	20.84		
1.4	QPSK	6	0	20.90	20.99	20.87	22.5	0
1.4	16QAM	1	0	20.86	20.96	20.96		
1.4	16QAM	1	3	20.83	20.84	20.84		
1.4	16QAM	1	5	20.81	20.87	20.80	22.5	0
1.4	16QAM	3	0	20.92	21.03	20.86		
1.4	16QAM	3	1	20.94	20.97	20.91		
1.4	16QAM	3	3	20.78	20.87	20.87	22	0.5
1.4	16QAM	6	0	20.30	20.43	20.28		
1.4	64QAM	1	0	20.49	20.56	20.46		
1.4	64QAM	1	3	20.53	20.59	20.54	22	0.5
1.4	64QAM	1	5	20.40	20.40	20.44		
1.4	64QAM	3	0	20.35	20.44	20.35		
1.4	64QAM	3	1	20.35	20.44	20.43	21	1.5
1.4	64QAM	3	3	20.23	20.33	20.25		
1.4	64QAM	6	0	19.31	19.37	19.29		



Band 7 DSI3 Ant1 SA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21650			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.14	17.17	17.03			
20	QPSK	1	49	17.11	17.03	16.99	18.5	0	
20	QPSK	1	99	16.99	17.02	16.88			
20	QPSK	50	0	17.09	17.14	17.11			
20	QPSK	50	24	17.02	17.05	16.91	18.5	0	
20	QPSK	50	50	17.08	17.06	17.01			
20	QPSK	100	0	17.01	17.06	16.99			
20	16QAM	1	0	17.08	17.08	16.89			
20	16QAM	1	49	17.04	17.04	16.97	18.5	0	
20	16QAM	1	99	16.99	17.06	16.92			
20	16QAM	50	0	17.03	17.11	16.92			
20	16QAM	50	24	17.03	17.11	16.93	18.5	0	
20	16QAM	50	50	17.05	17.13	16.90			
20	16QAM	100	0	17.07	17.14	16.92			
20	64QAM	1	0	16.99	17.15	16.97			
20	64QAM	1	49	17.08	17.12	16.90	18.5	0	
20	64QAM	1	99	17.08	17.10	16.90			
20	64QAM	50	0	17.00	17.03	16.91			
20	64QAM	50	24	17.09	17.09	16.92	18.5	0	
20	64QAM	50	50	17.00	17.09	16.88			
20	64QAM	100	0	17.11	17.14	16.90			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.02	17.12	16.97			
15	QPSK	1	37	17.01	16.93	16.85	18.5	0	
15	QPSK	1	74	16.85	16.92	16.79			
15	QPSK	36	0	17.05	16.99	17.04			
15	QPSK	36	20	16.87	16.91	16.82	18.5	0	
15	QPSK	36	39	16.95	16.95	16.92			
15	QPSK	75	0	16.95	16.91	16.91			
15	16QAM	1	0	17.03	16.96	16.74	18.5	0	
15	16QAM	1	37	17.01	16.92	16.94			
15	16QAM	1	74	16.91	17.03	16.78			
15	16QAM	36	0	16.95	17.07	16.77			
15	16QAM	36	20	16.88	17.00	16.85	18.5	0	
15	16QAM	36	39	16.94	17.08	16.86			
15	16QAM	75	0	16.93	17.10	16.88			
15	64QAM	1	0	16.85	17.07	16.94	18.5	0	
15	64QAM	1	37	16.99	17.00	16.79			
15	64QAM	1	74	17.02	17.04	16.79			
15	64QAM	36	0	16.85	17.01	16.82			
15	64QAM	36	20	17.04	16.96	16.76	18.5	0	
15	64QAM	36	39	16.98	16.95	16.85			
15	64QAM	75	0	17.06	17.03	16.79			
Channel				20900	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.07	17.04	17.01			
10	QPSK	1	25	17.00	16.90	16.95	18.5	0	
10	QPSK	1	49	16.95	16.87	16.81			
10	QPSK	25	0	17.02	17.02	17.06			
10	QPSK	25	12	16.94	17.01	16.81	18.5	0	
10	QPSK	25	25	17.04	17.00	16.88			
10	QPSK	50	0	16.89	17.00	16.83			
10	16QAM	1	0	17.00	17.00	16.76			
10	16QAM	1	25	16.90	16.93	16.86	18.5	0	
10	16QAM	1	49	16.89	16.98	16.77			
10	16QAM	25	0	16.87	17.00	16.86			
10	16QAM	25	12	16.98	17.02	16.91	18.5	0	
10	16QAM	25	25	16.92	16.98	16.75			
10	16QAM	50	0	17.01	17.11	16.82			
10	64QAM	1	0	16.85	17.13	16.94	18.5	0	
10	64QAM	1	25	16.96	17.04	16.86			
10	64QAM	1	49	16.97	17.03	16.84			
10	64QAM	25	0	16.96	17.00	16.82	18.5	0	
10	64QAM	25	12	16.94	17.00	16.90			
10	64QAM	25	25	16.90	16.95	16.78			
10	64QAM	50	0	17.03	17.02	16.80			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	17.11	17.14	17.00			
5	QPSK	1	12	17.02	16.98	16.85	18.5	0	
5	QPSK	1	24	16.88	16.89	16.82			
5	QPSK	12	0	17.00	17.03	17.07			
5	QPSK	12	7	16.89	17.02	16.84	18.5	0	
5	QPSK	12	13	16.99	16.91	16.90			
5	QPSK	25	0	16.90	17.04	16.85			
5	16QAM	1	0	16.96	17.03	16.77	18.5	0	
5	16QAM	1	12	16.89	16.95	16.83			
5	16QAM	1	24	16.92	16.95	16.82			
5	16QAM	12	0	16.88	16.97	16.81			
5	16QAM	12	7	16.91	17.06	16.77	18.5	0	
5	16QAM	12	13	16.95	17.04	16.85			
5	16QAM	25	0	16.96	17.03	16.84			
5	64QAM	1	0	16.95	16.99	16.89	18.5	0	
5	64QAM	1	12	16.99	16.98	16.87			
5	64QAM	1	24	17.02	16.94	16.83			
5	64QAM	12	0	16.88	17.00	16.77			
5	64QAM	12	7	17.01	16.95	16.88	18.5	0	
5	64QAM	12	13	16.94	16.94	16.82			
5	64QAM	25	0	16.99	17.07	16.78			



Band 38 DSI3 Ant1 SA										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	18.85	18.97	18.81	20	0		
20	QPSK	1	49	18.83	18.88	18.88				
20	QPSK	1	99	18.77	18.91	18.86	20	0		
20	QPSK	50	0	18.89	18.93	18.91				
20	QPSK	50	24	18.69	18.88	18.69	20	0		
20	QPSK	50	50	18.79	18.87	18.85				
20	QPSK	100	0	18.88	18.91	18.79	20	0		
20	16QAM	1	0	18.77	18.81	18.77				
20	16QAM	1	49	18.70	18.94	18.77	20	0		
20	16QAM	1	99	18.83	18.91	18.75				
20	16QAM	50	0	18.79	18.84	18.74	20	0		
20	16QAM	50	24	18.81	18.91	18.88				
20	16QAM	50	50	18.82	18.89	18.86	20	0		
20	16QAM	100	0	18.70	18.89	18.77				
20	64QAM	1	0	18.75	18.89	18.70	20	0		
20	64QAM	1	49	18.69	18.93	18.70				
20	64QAM	1	99	18.72	18.91	18.71	20	0		
20	64QAM	50	0	18.77	18.83	18.71				
20	64QAM	50	24	18.76	18.88	18.77	20	0		
20	64QAM	50	50	18.70	18.83	18.73				
20	64QAM	100	0	18.74	18.92	18.78				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	18.71	18.84	18.69	20	0		
15	QPSK	1	37	18.70	18.73	18.63				
15	QPSK	1	74	18.73	18.78	18.63	20	0		
15	QPSK	36	0	18.81	18.81	18.83				
15	QPSK	36	20	18.65	18.81	18.62	20	0		
15	QPSK	36	39	18.74	18.82	18.53				
15	QPSK	75	0	18.77	18.87	18.73	20	0		
15	16QAM	1	0	18.69	18.75	18.67				
15	16QAM	1	37	18.60	18.89	18.64	20	0		
15	16QAM	1	74	18.79	18.81	18.65				
15	16QAM	36	0	18.70	18.75	18.61	20	0		
15	16QAM	36	20	18.74	18.75	18.60				
15	16QAM	36	39	18.77	18.81	18.57	20	0		
15	16QAM	75	0	18.61	18.74	18.71				
15	64QAM	1	0	18.59	18.77	18.60	20	0		
15	64QAM	1	37	18.55	18.81	18.65				
15	64QAM	1	74	18.66	18.80	18.59	20	0		
15	64QAM	36	0	18.65	18.75	18.66				
15	64QAM	36	20	18.67	18.72	18.71	20	0		
15	64QAM	36	39	18.62	18.70	18.62				
15	64QAM	75	0	18.60	18.81	18.68				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
10	QPSK	1	0	18.72	18.95	18.72	20	0		
10	QPSK	1	25	18.70	18.84	18.53				
10	QPSK	1	49	18.75	18.89	18.55	20	0		
10	QPSK	25	0	18.75	18.78	18.89				
10	QPSK	25	12	18.56	18.75	18.61	20	0		
10	QPSK	25	25	18.74	18.75	18.54				
10	QPSK	50	0	18.82	18.83	18.69	20	0		
10	16QAM	1	0	18.72	18.75	18.69				
10	16QAM	1	25	18.59	18.86	18.74	20	0		
10	16QAM	1	49	18.68	18.86	18.60				
10	16QAM	25	0	18.68	18.71	18.60	20	0		
10	16QAM	25	12	18.72	18.67	18.60				
10	16QAM	25	25	18.77	18.78	18.58	20	0		
10	16QAM	50	0	18.55	18.77	18.64				
10	64QAM	1	0	18.66	18.82	18.59	20	0		
10	64QAM	1	25	18.55	18.86	18.67				
10	64QAM	1	49	18.61	18.88	18.51	20	0		
10	64QAM	25	0	18.66	18.69	18.59				
10	64QAM	25	12	18.73	18.72	18.73	20	0		
10	64QAM	25	25	18.65	18.74	18.68				
10	64QAM	50	0	18.63	18.81	18.64				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	18.74	18.87	18.76	20	0		
5	QPSK	1	12	18.77	18.81	18.53				
5	QPSK	1	24	18.63	18.81	18.63	20	0		
5	QPSK	12	0	18.76	18.90	18.86				
5	QPSK	12	7	18.54	18.84	18.57	20	0		
5	QPSK	12	13	18.70	18.85	18.53				
5	QPSK	25	0	18.83	18.87	18.64	20	0		
5	16QAM	1	0	18.66	18.72	18.68				
5	16QAM	1	12	18.67	18.79	18.68	20	0		
5	16QAM	1	24	18.72	18.75	18.60				
5	16QAM	12	0	18.76	18.77	18.61	20	0		
5	16QAM	12	7	18.77	18.79	18.65				
5	16QAM	12	13	18.72	18.79	18.60	20	0		
5	16QAM	25	0	18.61	18.76	18.65				
5	64QAM	1	0	18.62	18.85	18.68	20	0		
5	64QAM	1	12	18.57	18.77	18.54				
5	64QAM	1	24	18.57	18.81	18.68	20	0		
5	64QAM	12	0	18.72	18.72	18.68				
5	64QAM	12	7	18.64	18.78	18.75	20	0		
5	64QAM	12	13	18.64	18.79	18.66				
5	64QAM	25	0	18.62	18.82	18.63				

Band 41 DSI3 Ant1 SA										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620				
Frequency (MHz)				2506	2549.5	2593				
20	QPSK	1	0	18.81	18.67	18.94	20	0		
20	QPSK	1	49	18.68	18.64	18.85				
20	QPSK	1	99	18.66	18.58	18.88	20	0		
20	QPSK	50	0	18.72	18.74	18.87				
20	QPSK	50	24	18.69	18.54	18.83	20	0		
20	QPSK	50	50	18.77	18.55	18.81				
20	QPSK	100	0	18.69	18.61	18.82	20	0		
20	16QAM	1	0	18.72	18.65	18.94				
20	16QAM	1	49	18.76	18.53	18.85	20	0		
20	16QAM	1	99	18.75	18.52	18.91				
20	16QAM	50	0	18.73	18.63	18.85	20	0		
20	16QAM	50	24	18.66	18.52	18.84				
20	16QAM	50	50	18.71	18.56	18.84	20	0		
20	16QAM	100	0	18.69	18.57	18.87				
20	64QAM	1	0	18.72	18.51	18.79	20	0		
20	64QAM	1	49	18.73	18.63	18.84				
20	64QAM	1	99	18.77	18.64	18.78	20	0		
20	64QAM	50	0	18.71	18.52	18.89				
20	64QAM	50	24	18.71	18.64	18.86	20	0		
20	64QAM	50	50	18.70	18.73	18.84				
20	64QAM	100	0	18.73	18.58	18.80				
Channel				39725	40173	40600	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593				
15	QPSK	1	0	18.78	18.60	18.84	20	0		
15	QPSK	1	37	18.65	18.57	18.78				
15	QPSK	1	74	18.58	18.48	18.78	20	0		
15	QPSK	36	0	18.60	18.70	18.71				
15	QPSK	36	20	18.61	18.44	18.71	20	0		
15	QPSK	36	39	18.68	18.49	18.65				
15	QPSK	75	0	18.63	18.45	18.72	20	0		
15	16QAM	1	0	18.69	18.52	18.75				
15	16QAM	1	37	18.74	18.59	18.77	20	0		
15	16QAM	1	74	18.72	18.39	18.81				
15	16QAM	36	0	18.63	18.60	18.70	20	0		
15	16QAM	36	20	18.53	18.41	18.78				
15	16QAM	36	39	18.60	18.42	18.68	20	0		
15	16QAM	75	0	18.53	18.43	18.71				
15	64QAM	1	0	18.66	18.46	18.75	20	0		
15	64QAM	1	37	18.70	18.55	18.71				
15	64QAM	1	74	18.65	18.54	18.63	20	0		
15	64QAM	36	0	18.60	18.45	18.63				
15	64QAM	36	20	18.67	18.40	18.80	20	0		
15	64QAM	36	39	18.56	18.56	18.73				
15	64QAM	75	0	18.60	18.54	18.78				
Channel				39700	40160	40600	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2						



Band 42 FCC Part27Q DSI3 Ant5 SA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42990	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	18.59	18.64	18.50	19.5	0	
20	QPSK	1	49	18.41	18.48	18.37			
20	QPSK	1	99	18.37	18.51	18.41			
20	QPSK	50	0	18.42	18.45	18.44	19.5	0	
20	QPSK	50	24	18.31	18.41	18.32			
20	QPSK	50	50	18.38	18.47	18.39			
20	QPSK	100	0	18.41	18.53	18.38	19.5	0	
20	16QAM	1	0	18.36	18.50	18.40			
20	16QAM	1	49	18.49	18.58	18.44			
20	16QAM	1	99	18.37	18.52	18.49	19.5	0	
20	16QAM	50	0	18.34	18.48	18.33			
20	16QAM	50	24	18.48	18.53	18.44			
20	16QAM	50	50	18.48	18.54	18.44	19.5	0	
20	16QAM	100	0	18.45	18.51	18.40			
20	64QAM	1	0	18.48	18.55	18.44			
20	64QAM	1	49	18.44	18.54	18.51	19.5	0	
20	64QAM	1	99	18.43	18.46	18.32			
20	64QAM	50	0	18.29	18.42	18.35			
20	64QAM	50	24	18.42	18.49	18.46	19.5	0	
20	64QAM	50	50	18.44	18.51	18.40			
20	64QAM	100	0	18.41	18.49	18.43			
Channel				42165	42990	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	18.52	18.51	18.45	19.5	0	
15	QPSK	1	37	18.34	18.44	18.24			
15	QPSK	1	74	18.26	18.38	18.35			
15	QPSK	36	0	18.30	18.36	18.33	19.5	0	
15	QPSK	36	20	18.17	18.30	18.26			
15	QPSK	36	39	18.31	18.42	18.30			
15	QPSK	75	0	18.33	18.44	18.27	19.5	0	
15	16QAM	1	0	18.27	18.39	18.33			
15	16QAM	1	37	18.35	18.50	18.31			
15	16QAM	1	74	18.25	18.39	18.35	19.5	0	
15	16QAM	36	0	18.27	18.44	18.30			
15	16QAM	36	20	18.33	18.48	18.38			
15	16QAM	36	39	18.35	18.47	18.37	19.5	0	
15	16QAM	75	0	18.34	18.46	18.31			
15	64QAM	1	0	18.44	18.41	18.33			
15	64QAM	1	37	18.38	18.50	18.46	19.5	0	
15	64QAM	1	74	18.29	18.37	18.19			
15	64QAM	36	0	18.21	18.32	18.21			
15	64QAM	36	39	18.39	18.35	18.41	19.5	0	
15	64QAM	36	39	18.33	18.48	18.28			
15	64QAM	75	0	18.34	18.36	18.39			
Channel				42140	42990	43040			
Frequency (MHz)				3465	3500	3545			
10	QPSK	1	0	18.45	18.59	18.43	19.5	0	
10	QPSK	1	25	18.26	18.37	18.26			
10	QPSK	1	49	18.31	18.44	18.35			
10	QPSK	25	0	18.29	18.39	18.34	19.5	0	
10	QPSK	25	12	18.19	18.32	18.25			
10	QPSK	25	25	18.30	18.35	18.27			
10	QPSK	50	0	18.26	18.46	18.23	19.5	0	
10	16QAM	1	0	18.30	18.45	18.29			
10	16QAM	1	25	18.37	18.54	18.36			
10	16QAM	1	49	18.23	18.45	18.40	19.5	0	
10	16QAM	25	0	18.28	18.45	18.30			
10	16QAM	25	12	18.42	18.38	18.36			
10	16QAM	25	25	18.37	18.41	18.34	19.5	0	
10	16QAM	50	0	18.39	18.44	18.32			
10	64QAM	1	0	18.42	18.42	18.31			
10	64QAM	1	25	18.32	18.40	18.36	19.5	0	
10	64QAM	1	49	18.34	18.42	18.29			
10	64QAM	25	0	18.20	18.36	18.22			
10	64QAM	25	12	18.32	18.41	18.40	19.5	0	
10	64QAM	25	25	18.29	18.36	18.26			
10	64QAM	50	0	18.36	18.44	18.29			
Channel				42115	42990	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	18.48	18.53	18.41	19.5	0	
5	QPSK	1	12	18.33	18.34	18.31			
5	QPSK	1	24	18.27	18.43	18.32			
5	QPSK	12	0	18.34	18.38	18.35	19.5	0	
5	QPSK	12	7	18.27	18.34	18.21			
5	QPSK	12	13	18.26	18.40	18.28			
5	QPSK	25	0	18.32	18.40	18.31	19.5	0	
5	16QAM	1	0	18.31	18.36	18.28			
5	16QAM	1	12	18.37	18.47	18.33			
5	16QAM	1	24	18.34	18.38	18.40	19.5	0	
5	16QAM	12	0	18.21	18.42	18.21			
5	16QAM	12	7	18.38	18.44	18.39			
5	16QAM	12	13	18.44	18.45	18.40	19.5	0	
5	16QAM	25	0	18.36	18.39	18.34			
5	64QAM	1	0	18.34	18.42	18.39			
5	64QAM	1	12	18.39	18.48	18.42	19.5	0	
5	64QAM	1	24	18.30	18.35	18.26			
5	64QAM	12	0	18.18	18.35	18.23			
5	64QAM	12	7	18.36	18.37	18.42	19.5	0	
5	64QAM	12	13	18.41	18.38	18.27			
5	64QAM	25	0	18.26	18.38	18.40			



Band 2 DS13 Ant0 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				16700	16900	17100			
20	QPSK	1	0	10.63	10.75	10.67			
20	QPSK	1	49	10.54	10.61	10.55	12.5	0	
20	QPSK	1	99	10.53	10.60	10.55			
20	QPSK	50	0	10.60	10.72	10.61			
20	QPSK	50	24	10.59	10.61	10.56	12.5	0	
20	QPSK	50	50	10.51	10.60	10.58			
20	QPSK	100	0	10.58	10.71	10.64			
20	16QAM	1	0	10.51	10.65	10.55			
20	16QAM	1	49	10.59	10.62	10.62	12.5	0	
20	16QAM	1	99	10.55	10.63	10.64			
20	16QAM	50	0	10.54	10.65	10.52			
20	16QAM	50	24	10.52	10.60	10.55	12.5	0	
20	16QAM	50	50	10.59	10.60	10.53			
20	16QAM	100	0	10.53	10.68	10.59			
20	64QAM	1	0	10.50	10.64	10.53			
20	64QAM	1	49	10.59	10.65	10.63	12.5	0	
20	64QAM	1	99	10.52	10.66	10.63			
20	64QAM	50	0	10.51	10.70	10.55			
20	64QAM	50	24	10.52	10.65	10.64	12.5	0	
20	64QAM	50	50	10.58	10.69	10.65			
20	64QAM	100	0	10.53	10.70	10.62			
Channel Frequency (MHz)				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	10.61	10.62	10.54	12.5	0	
15	QPSK	1	37	10.61	10.58	10.52			
15	QPSK	1	74	10.61	10.57	10.59			
15	QPSK	36	0	10.58	10.63	10.52			
15	QPSK	36	20	10.60	10.53	10.52	12.5	0	
15	QPSK	36	39	10.53	10.50	10.55			
15	QPSK	75	0	10.54	10.65	10.55			
15	16QAM	1	0	10.59	10.60	10.56	12.5	0	
15	16QAM	1	37	10.56	10.59	10.56			
15	16QAM	1	74	10.51	10.62	10.55			
15	16QAM	36	0	10.64	10.63	10.64			
15	16QAM	36	20	10.51	10.56	10.54	12.5	0	
15	16QAM	36	39	10.60	10.58	10.58			
15	16QAM	75	0	10.63	10.59	10.56			
15	64QAM	1	0	10.63	10.58	10.53	12.5	0	
15	64QAM	1	37	10.58	10.51	10.58			
15	64QAM	1	74	10.55	10.59	10.61			
15	64QAM	36	0	10.58	10.62	10.62			
15	64QAM	36	20	10.65	10.60	10.60	12.5	0	
15	64QAM	36	39	10.55	10.63	10.57			
15	64QAM	75	0	10.56	10.57	10.58			
Channel Frequency (MHz)				18950	18900	19150	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	10.59	10.61	10.57	12.5	0	
10	QPSK	1	25	10.54	10.67	10.62			
10	QPSK	1	49	10.56	10.71	10.55			
10	QPSK	25	0	10.56	10.63	10.67			
10	QPSK	25	12	10.53	10.66	10.56	12.5	0	
10	QPSK	25	25	10.55	10.62	10.51			
10	QPSK	50	0	10.54	10.63	10.55			
10	16QAM	1	0	10.59	10.71	10.58			
10	16QAM	1	25	10.59	10.73	10.60	12.5	0	
10	16QAM	1	49	10.53	10.63	10.64			
10	16QAM	25	0	10.51	10.62	10.67			
10	16QAM	25	12	10.51	10.62	10.65	12.5	0	
10	16QAM	25	25	10.52	10.59	10.60			
10	16QAM	50	0	10.57	10.65	10.60			
10	64QAM	1	0	10.51	10.67	10.65	12.5	0	
10	64QAM	1	25	10.54	10.70	10.57			
10	64QAM	1	49	10.60	10.67	10.61			
10	64QAM	25	0	10.57	10.69	10.57	12.5	0	
10	64QAM	25	12	10.57	10.73	10.51			
10	64QAM	25	25	10.52	10.67	10.58			
10	64QAM	50	0	10.52	10.67	10.53			
Channel Frequency (MHz)				18925	18900	19175	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	10.53	10.68	10.63	12.5	0	
5	QPSK	1	12	10.54	10.69	10.63			
5	QPSK	1	24	10.58	10.68	10.52			
5	QPSK	12	0	10.54	10.68	10.51			
5	QPSK	12	7	10.50	10.67	10.65	12.5	0	
5	QPSK	12	13	10.60	10.70	10.59			
5	QPSK	25	0	10.57	10.68	10.61			
5	16QAM	1	0	10.56	10.68	10.61	12.5	0	
5	16QAM	1	12	10.52	10.69	10.61			
5	16QAM	1	24	10.51	10.65	10.55			
5	16QAM	12	0	10.56	10.71	10.62			
5	16QAM	12	7	10.58	10.69	10.51	12.5	0	
5	16QAM	12	13	10.58	10.61	10.62			
5	16QAM	25	0	10.59	10.60	10.59			
5	64QAM	1	0	10.59	10.69	10.63	12.5	0	
5	64QAM	1	12	10.56	10.67	10.57			
5	64QAM	1	24	10.51	10.61	10.62			
5	64QAM	12	0	10.56	10.62	10.58			
5	64QAM	12	7	10.51	10.70	10.52	12.5	0	
5	64QAM	12	13	10.51	10.66	10.63			
5	64QAM	25	0	10.56	10.69	10.62			
Channel Frequency (MHz)				18815	18900	19185	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	10.60	10.66	10.56	12.5	0	
3	QPSK	1	8	10.54	10.72	10.61			
3	QPSK	1	14	10.58	10.67	10.61			
3	QPSK	8	0	10.56	10.68	10.54	12.5	0	
3	QPSK	8	4	10.52	10.69	10.58			
3	QPSK	8	7	10.61	10.65	10.59			
3	QPSK	15	0	10.58	10.62	10.52			
3	16QAM	1	0	10.56	10.72	10.61	12.5	0	
3	16QAM	1	8	10.50	10.72	10.63			
3	16QAM	1	14	10.52	10.59	10.53			
3	16QAM	8	0	10.55	10.66	10.62	12.5	0	
3	16QAM	8	4	10.58	10.66	10.54			
3	16QAM	8	7	10.50	10.59	10.51			
3	16QAM	15	0	10.54	10.61	10.53			
3	64QAM	1	0	10.53	10.59	10.58			
3	64QAM	1	8	10.60	10.65	10.56	12.5	0	
3	64QAM	1	14	10.61	10.64	10.55			
3	64QAM	8	0	10.54	10.61	10.65			
3	64QAM	8	4	10.51	10.65	10.52	12.5	0	
3	64QAM	8	7	10.52	10.70	10.51			
3	64QAM	15	0	10.55	10.72	10.59			
Channel Frequency (MHz)				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	10.55	10.69	10.57	12.5	0	
1.4	QPSK	1	3	10.50	10.63	10.51			
1.4	QPSK	1	5	10.53	10.65	10.51			
1.4	QPSK	3	0	10.57	10.60	10.58			
1.4	QPSK	3	1	10.58	10.66	10.59			
1.4	QPSK	3	3	10.58	10.59	10.64	12.5	0	
1.4	QPSK	6	0	10.51	10.64	10.52			
1.4	16QAM	1	0	10.55	10.60	10.52	12.5	0	
1.4	16QAM	1	3	10.54	10.69	10.61			
1.4	16QAM	1	5	10.55	10.71	10.62			
1.4	16QAM	3	0	10.60	10.60	10.58	12.5	0	
1.4	16QAM	3	1	10.51	10.59	10.65			
1.4	16QAM	3	3	10.58	10.65	10.55			
1.4	16QAM	6	0	10.51	10.69	10.62	12.5	0	
1.4	64QAM	1	0	10.52	10.71	10.55			
1.4	64QAM	1	3	10.58	10.69	10.51			
1.4	64QAM	1	5	10.54	10.64	10.60	12.5	0	
1.4	64QAM	3	0	10.57	10.64	10.60			
1.4	64QAM	3	1	10.50	10.70	10.52			
1.4	64QAM	3	3	10.56	10.70	10.53	12.5	0	
1.4	64QAM	6	0	10.61	10.71	10.51			

Band 4 DS13 Ant0 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				20050	20175	20300			
20	QPSK	1	0	10.68	10.96	10.93			
20	QPSK	1	49	10.74	10.93	10.89	12.5	0	
20	QPSK	1	99	10.86	10.89	10.84			
20	QPSK	50	0	10.85	10.91	10.81			
20	QPSK	50	24	10.74	10.87	10.80	12.5	0	
20	QPSK	50	50	10.81	10.82	10.85			
20	QPSK	100	0	10.83	10.90	10.82			
20	16QAM	1	0	10.78	10.89	10.80			
20	16QAM	1	49	10.83	10.84	10.83	12.5	0	
20	16QAM	1	99	10.76	10.88	10.88			
20	16QAM	50	0	10.74	10.80	10.89			
20	16QAM	50	24	10.79	10.83	10.91	12.5	0	
20	16QAM	50	50	10.74	10.81	10.79			
20	16QAM	100	0	10.82	10.84	10.90			
20	64QAM	1	0	10.84	10.85	10.78			
20	64QAM	1	49	10.85	10.92	10.82	12.5	0	
20	64QAM	1	99	10.81	10.84	10.80			
20	64QAM	50	0	10.80	10.85	10.83			
20	64QAM	50	24	10.77	10.87	10.82	12.5	0	
20	64QAM	50	50	10.74	10.86	10.78			
20	64QAM	100	0	10.82	10.86	10.78			
Channel Frequency (MHz)				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)	



Band 5 DSI3 Ant0 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				826.5	836.5	846.5			
10	QPSK	1	0	16.97	17.02	17.04			
10	QPSK	1	25	16.87	17.00	16.94	18.5	0	
10	QPSK	1	49	16.84	16.97	16.92			
10	QPSK	25	0	16.90	17.00	16.94			
10	QPSK	25	12	16.95	16.97	16.95	18.5	0	
10	QPSK	25	25	16.92	16.99	16.95			
10	QPSK	50	0	16.94	17.04	17.03			
10	16QAM	1	0	16.87	17.01	16.94			
10	16QAM	1	25	16.97	16.89	16.93	18.5	0	
10	16QAM	1	49	16.95	16.99	17.02			
10	16QAM	25	0	16.97	16.97	16.95			
10	16QAM	25	12	16.93	17.01	16.99	18.5	0	
10	16QAM	25	25	16.88	17.07	16.90			
10	16QAM	50	0	16.88	17.05	17.01			
10	64QAM	1	0	16.90	16.98	17.03			
10	64QAM	1	25	16.85	17.03	16.86	18.5	0	
10	64QAM	1	49	16.87	16.88	16.87			
10	64QAM	25	0	16.83	16.92	17.01			
10	64QAM	25	12	16.86	17.00	16.94	18.5	0	
10	64QAM	25	25	16.86	17.05	16.94			
10	64QAM	50	0	16.88	16.98	16.98			
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	17.04	17.02	17.08			
5	QPSK	1	12	16.95	16.96	16.91	18.5	0	
5	QPSK	1	24	16.85	16.98	16.93			
5	QPSK	12	0	16.82	17.06	16.89			
5	QPSK	12	7	16.91	16.93	16.93	18.5	0	
5	QPSK	12	13	16.99	16.97	16.99			
5	QPSK	25	0	16.89	16.99	17.03			
5	16QAM	1	0	16.89	17.06	16.95			
5	16QAM	1	12	17.01	16.92	16.91	18.5	0	
5	16QAM	1	24	16.89	17.02	17.01			
5	16QAM	12	0	16.93	16.96	17.03			
5	16QAM	12	7	16.94	17.02	17.01	18.5	0	
5	16QAM	12	13	16.88	17.03	16.87			
5	16QAM	25	0	16.88	17.02	16.99			
5	64QAM	1	0	16.88	16.97	16.95			
5	64QAM	1	12	16.93	16.99	16.89	18.5	0	
5	64QAM	1	24	16.82	16.89	16.88			
5	64QAM	12	0	16.90	16.95	17.04			
5	64QAM	12	7	16.91	17.04	16.87	18.5	0	
5	64QAM	12	13	16.92	16.99	16.96			
5	64QAM	25	0	16.91	16.99	16.99			
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	16.99	17.03	17.00			
3	QPSK	1	8	16.90	16.91	16.91	18.5	0	
3	QPSK	1	14	16.91	16.95	16.92			
3	QPSK	8	0	16.91	16.97	16.91			
3	QPSK	8	4	16.87	16.87	16.95	18.5	0	
3	QPSK	8	7	16.93	16.85	16.94			
3	QPSK	15	0	16.86	17.05	16.96			
3	16QAM	1	0	16.90	17.07	16.91			
3	16QAM	1	8	16.96	16.95	16.93	18.5	0	
3	16QAM	1	14	16.93	16.99	17.03			
3	16QAM	8	0	16.95	16.92	16.95			
3	16QAM	8	4	16.89	17.01	17.03	18.5	0	
3	16QAM	8	7	16.95	17.09	16.90			
3	16QAM	15	0	16.88	17.01	16.99			
3	64QAM	1	0	16.93	17.03	17.03			
3	64QAM	1	8	16.90	16.99	16.86	18.5	0	
3	64QAM	1	14	16.96	16.92	16.88			
3	64QAM	8	0	16.84	16.99	17.04			
3	64QAM	8	4	16.88	17.00	16.94	18.5	0	
3	64QAM	8	7	16.85	17.07	16.91			
3	64QAM	15	0	16.89	17.02	16.99			
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	16.97	17.08	17.02			
1.4	QPSK	1	3	16.90	16.96	16.88	18.5	0	
1.4	QPSK	1	5	16.86	16.91	16.88			
1.4	QPSK	3	0	16.84	17.06	16.95			
1.4	QPSK	3	1	16.94	16.89	16.96	18.5	0	
1.4	QPSK	3	3	16.91	17.01	17.02			
1.4	QPSK	6	0	16.87	17.02	16.99			
1.4	16QAM	1	0	16.91	17.06	16.89			
1.4	16QAM	1	3	16.95	16.96	17.00	18.5	0	
1.4	16QAM	1	5	16.89	16.98	16.99			
1.4	16QAM	3	0	16.91	16.96	16.96	18.5	0	
1.4	16QAM	3	1	16.95	17.05	17.03			
1.4	16QAM	3	3	16.92	17.02	16.85			
1.4	16QAM	6	0	16.86	17.06	16.96	18.5	0	
1.4	64QAM	1	0	16.86	17.01	16.90			
1.4	64QAM	1	3	16.86	17.02	16.89			
1.4	64QAM	1	5	16.84	16.94	16.89	18.5	0	
1.4	64QAM	3	0	16.83	16.94	17.02			
1.4	64QAM	3	1	16.88	17.02	16.88			
1.4	64QAM	3	3	16.92	17.05	16.92	18.5	0	
1.4	64QAM	6	0	16.86	16.99	17.04			

Band 66 DSI3 Ant0 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	10.91	11.10	11.04			
20	QPSK	1	49	10.78	11.08	10.88	12.5	0	
20	QPSK	1	99	10.80	10.94	11.02			
20	QPSK	50	0	10.81	11.08	10.92			
20	QPSK	50	24	10.78	11.06	10.84	12.5	0	
20	QPSK	50	50	10.78	11.07	10.93			
20	QPSK	100	0	10.89	10.95	10.91			
20	16QAM	1	0	10.79	11.00	10.98			
20	16QAM	1	49	10.78	10.94	10.99	12.5	0	
20	16QAM	1	99	10.86	11.07	10.92			
20	16QAM	50	0	10.86	11.05	10.91			
20	16QAM	50	24	10.83	11.05	10.99	12.5	0	
20	16QAM	50	50	10.89	10.96	10.95			
20	16QAM	100	0	10.79	10.97	10.96			
20	64QAM	1	0	10.78	11.00	11.01			
20	64QAM	1	49	10.84	11.08	10.96	12.5	0	
20	64QAM	1	99	10.83	11.07	10.88			
20	64QAM	50	0	10.82	10.97	10.98			
20	64QAM	50	24	10.84	11.04	11.07	12.5	0	
20	64QAM	50	50	10.75	10.95	11.00			
20	64QAM	100	0	10.87	10.96	10.94			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	10.87	11.06	11.00			
15	QPSK	1	37	10.71	10.94	10.82	12.5	0	
15	QPSK	1	74	10.71	10.82	10.98			
15	QPSK	36	0	10.70	10.95	10.89			
15	QPSK	36	20	10.67	11.02	10.88	12.5	0	
15	QPSK	36	39	10.71	10.94	10.78			
15	QPSK	75	0	10.81	10.92	10.77			
15	16QAM	1	0	10.70	10.85	10.86			
15	16QAM	1	37	10.69	10.81	10.86	12.5	0	
15	16QAM	1	74	10.78	10.91	10.82			
15	16QAM	36	0	10.79	10.98	10.82			
15	16QAM	36	20	10.67	10.97	10.91	12.5	0	
15	16QAM	36	39	10.77	10.92	10.80			
15	16QAM	75	0	10.73	10.94	10.90			
15	64QAM	1	0	10.73	10.95	10.94			
15	64QAM	1	37	10.75	10.98	10.83	12.5	0	
15	64QAM	1	74	10.79	11.04	10.84			
15	64QAM	36	0	10.72	10.88	10.84			
15	64QAM	36	20	10.81	10.99	10.85	12.5	0	
15	64QAM	36	39	10.82	10.86				



Band 7 DSI3 Ant1 NSA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Free	Power Middle Ch. / Free	Power High Ch. / Free	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21650			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	13.02	13.09	12.90			
20	QPSK	1	49	12.94	12.94	12.87	14.5	0	
20	QPSK	1	99	12.99	12.96	12.77			
20	QPSK	50	0	12.86	12.98	12.85			
20	QPSK	50	24	12.90	12.85	12.85	14.5	0	
20	QPSK	50	50	12.95	12.94	12.85			
20	QPSK	100	0	12.92	12.96	12.77			
20	16QAM	1	0	12.87	13.01	12.75			
20	16QAM	1	49	12.88	13.05	12.86	14.5	0	
20	16QAM	1	99	12.86	13.02	12.79			
20	16QAM	50	0	12.91	12.96	12.84			
20	16QAM	50	24	12.92	13.00	12.85	14.5	0	
20	16QAM	50	50	12.97	12.95	12.80			
20	16QAM	100	0	12.91	13.07	12.80			
20	64QAM	1	0	12.97	12.94	12.85			
20	64QAM	1	49	12.94	13.05	12.88	14.5	0	
20	64QAM	1	99	13.00	12.97	12.75			
20	64QAM	50	0	12.90	12.96	12.85			
20	64QAM	50	24	12.90	13.04	12.74	14.5	0	
20	64QAM	50	50	12.94	13.00	12.83			
20	64QAM	100	0	12.95	13.02	12.81			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	12.96	12.96	12.80			
15	QPSK	1	37	12.82	12.83	12.80	14.5	0	
15	QPSK	1	74	12.94	12.84	12.68			
15	QPSK	36	0	12.80	12.85	12.77			
15	QPSK	36	20	12.84	12.89	12.78	14.5	0	
15	QPSK	36	39	12.81	12.83	12.76			
15	QPSK	75	0	12.84	12.85	12.75			
15	16QAM	1	0	12.79	12.96	12.84			
15	16QAM	1	37	12.77	12.91	12.74	14.5	0	
15	16QAM	1	74	12.72	12.91	12.73			
15	16QAM	36	0	12.88	12.88	12.74			
15	16QAM	36	20	12.77	12.90	12.81	14.5	0	
15	16QAM	36	39	12.90	12.82	12.68			
15	16QAM	75	0	12.85	13.04	12.67			
15	64QAM	1	0	12.83	12.84	12.79			
15	64QAM	1	37	12.89	12.97	12.81	14.5	0	
15	64QAM	1	74	12.88	12.87	12.66			
15	64QAM	36	0	12.79	12.88	12.82			
15	64QAM	36	20	12.75	13.00	12.71	14.5	0	
15	64QAM	36	39	12.82	12.89	12.69			
15	64QAM	75	0	12.84	12.91	12.78			
Channel				20900	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	12.93	12.98	12.77			
10	QPSK	1	25	12.86	12.82	12.75	14.5	0	
10	QPSK	1	49	12.89	12.84	12.75			
10	QPSK	25	0	12.73	12.91	12.71			
10	QPSK	25	12	12.75	12.86	12.72	14.5	0	
10	QPSK	25	25	12.82	12.81	12.81			
10	QPSK	50	0	12.89	12.86	12.71			
10	16QAM	1	0	12.80	12.90	12.72			
10	16QAM	1	25	12.86	12.89	12.72	14.5	0	
10	16QAM	1	49	12.79	12.95	12.75			
10	16QAM	25	0	12.82	12.83	12.75			
10	16QAM	25	12	12.85	12.87	12.71	14.5	0	
10	16QAM	25	25	12.87	12.81	12.75			
10	16QAM	50	0	12.82	13.02	12.66			
10	64QAM	1	0	12.82	12.91	12.72			
10	64QAM	1	25	12.81	12.95	12.79	14.5	0	
10	64QAM	1	49	12.96	12.88	12.72			
10	64QAM	25	0	12.79	12.88	12.81	14.5	0	
10	64QAM	25	12	12.87	12.98	12.63			
10	64QAM	25	25	12.81	12.85	12.77			
10	64QAM	50	0	12.81	12.97	12.72			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	12.97	12.96	12.79			
5	QPSK	1	12	12.81	12.87	12.79	14.5	0	
5	QPSK	1	24	12.89	12.84	12.64			
5	QPSK	12	0	12.80	12.85	12.75			
5	QPSK	12	7	12.82	12.87	12.72	14.5	0	
5	QPSK	12	13	12.92	12.89	12.74			
5	QPSK	25	0	12.87	12.90	12.70			
5	16QAM	1	0	12.76	12.92	12.85			
5	16QAM	1	12	12.82	12.90	12.81	14.5	0	
5	16QAM	1	24	12.82	12.92	12.72			
5	16QAM	12	0	12.75	12.92	12.73			
5	16QAM	12	7	12.82	12.85	12.78	14.5	0	
5	16QAM	12	13	12.95	12.80	12.70			
5	16QAM	25	0	12.75	12.97	12.64			
5	64QAM	1	0	12.92	12.90	12.83			
5	64QAM	1	12	12.85	12.93	12.86	14.5	0	
5	64QAM	1	24	12.87	12.94	12.63			
5	64QAM	12	0	12.78	12.87	12.69			
5	64QAM	12	7	12.82	12.97	12.61	14.5	0	
5	64QAM	12	13	12.90	12.84	12.74			
5	64QAM	25	0	12.84	12.91	12.66			



Band 38 DSI3 Ant1 NSA

Band	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
20	Channel				37850	39000	38150	16.5	0
	Frequency (MHz)				2580	2595	2610		
	20	QPSK	1	0	15.81	15.82	15.56		
	20	QPSK	1	49	15.82	15.55	15.82		
	20	QPSK	1	99	15.54	15.53	15.59		
	20	QPSK	50	0	15.55	15.60	15.59		
	20	QPSK	50	24	15.57	15.58	15.58		
	20	QPSK	50	50	15.83	15.81	15.87		
	20	QPSK	100	0	15.50	15.54	15.53		
	20	16QAM	1	0	15.53	15.50	15.82		
	20	16QAM	1	49	15.53	15.58	15.57		
	20	16QAM	1	99	15.54	15.57	15.54		
	20	16QAM	50	0	15.53	15.57	15.81		
	20	16QAM	50	24	15.58	15.55	15.53		
	20	16QAM	50	50	15.81	15.53	15.59		
	20	16QAM	100	0	15.51	15.57	15.83		
	20	64QAM	1	0	15.57	15.55	15.58		
	20	64QAM	1	49	15.58	15.60	15.81		
	20	64QAM	1	99	15.81	15.60	15.83		
	20	64QAM	50	0	15.56	15.58	15.59		
20	64QAM	50	24	15.50	15.81	15.87			
20	64QAM	50	50	15.57	15.82	15.58			
20	64QAM	100	0	15.54	15.59	15.83			
15	Channel				37825	39000	38175	16.5	0
	Frequency (MHz)				2577.5	2595	2612.5		
	15	QPSK	1	0	15.50	15.50	15.81		
	15	QPSK	1	37	15.58	15.58	15.84		
	15	QPSK	1	74	15.57	15.56	15.55		
	15	QPSK	36	0	15.58	15.58	15.81		
	15	QPSK	36	20	15.55	15.50	15.56		
	15	QPSK	36	39	15.81	15.82	15.59		
	15	QPSK	75	0	15.53	15.55	15.59		
	15	16QAM	1	0	15.81	15.83	15.59		
	15	16QAM	1	37	15.59	15.58	15.84		
	15	16QAM	1	74	15.56	15.82	15.58		
	15	16QAM	36	0	15.57	15.54	15.50		
	15	16QAM	36	20	15.53	15.59	15.82		
	15	16QAM	36	39	15.56	15.55	15.81		
	15	16QAM	75	0	15.50	15.58	15.60		
	15	64QAM	1	0	15.58	15.57	15.56		
	15	64QAM	1	37	15.81	15.59	15.50		
	15	64QAM	1	74	15.83	15.82	15.81		
	15	64QAM	36	0	15.82	15.57	15.80		
15	64QAM	36	20	15.83	15.83	15.58			
15	64QAM	36	39	15.82	15.60	15.84			
15	64QAM	75	0	15.56	15.84	15.56			
10	Channel				37800	39000	38200	16.5	0
	Frequency (MHz)				2595	2595	2615		
	10	QPSK	1	0	15.54	15.57	15.54		
	10	QPSK	1	25	15.81	15.83	15.50		
	10	QPSK	1	49	15.57	15.84	15.85		
	10	QPSK	25	0	15.54	15.80	15.56		
	10	QPSK	25	12	15.83	15.80	15.82		
	10	QPSK	25	25	15.54	15.84	15.86		
	10	QPSK	50	0	15.55	15.56	15.83		
	10	16QAM	1	0	15.81	15.81	15.88		
	10	16QAM	1	25	15.83	15.80	15.84		
	10	16QAM	1	49	15.88	15.82	15.84		
	10	16QAM	25	0	15.56	15.57	15.88		
	10	16QAM	25	12	15.82	15.82	15.83		
	10	16QAM	25	25	15.82	15.89	15.87		
	10	16QAM	50	0	15.55	15.80	15.89		
	10	64QAM	1	0	15.84	15.83	15.87		
	10	64QAM	1	25	15.87	15.84	15.88		
	10	64QAM	1	49	15.81	15.87	15.81		
	10	64QAM	25	0	15.88	15.87	15.83		
10	64QAM	25	12	15.86	15.85	15.83			
10	64QAM	25	25	15.80	15.89	15.88			
10	64QAM	50	0	15.84	15.89	15.88			
5	Channel				37775	39000	38225	16.5	0
	Frequency (MHz)				2572.5	2595	2617.5		
	5	QPSK	1	0	15.56	15.55	15.81		
	5	QPSK	1	12	15.85	15.82	15.85		
	5	QPSK	1	24	15.80	15.80	15.86		
	5	QPSK	12	0	15.86	15.80	15.86		
	5	QPSK	12	7	15.86	15.83	15.88		
	5	QPSK	12	13	15.87	15.84	15.84		
	5	QPSK	25	0	15.81	15.80	15.88		
	5	16QAM	1	0	15.87	15.86	15.84		
	5	16QAM	1	12	15.81	15.82	15.80		
	5	16QAM	1	24	15.80	15.85	15.88		
	5	16QAM	12	0	15.81	15.80	15.83		
	5	16QAM	12	7	15.82	15.80	15.86		
	5	16QAM	12	13	15.83	15.84	15.81		
	5	16QAM	25	0	15.83	15.84	15.84		
	5	64QAM	1	0	15.87	15.86	15.88		
	5	64QAM	1	12	15.88	15.80	15.84		
	5	64QAM	1	24	15.82	15.83	15.84		
	5	64QAM	12	0	15.85	15.87	15.83		
5	64QAM	12	7	15.83	15.85	15.84			
5	64QAM	12	13	15.88	15.87	15.89			
5	64QAM	25	0	15.88	15.81	15.89			



Band 4 DSI3 Ant4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	15.67	15.69	15.63	17	0
20	QPSK	1	49	15.56	15.63	15.50	17	0
20	QPSK	1	99	15.49	15.55	15.46	17	0
20	QPSK	50	0	15.58	15.65	15.53	17	0
20	QPSK	50	24	15.34	15.49	15.39	17	0
20	QPSK	50	50	15.64	15.64	15.68	17	0
20	QPSK	100	0	15.58	15.60	15.49	17	0
20	16QAM	1	0	15.56	15.66	15.58	17	0
20	16QAM	1	49	15.57	15.59	15.43	17	0
20	16QAM	1	99	15.66	15.63	15.47	17	0
20	16QAM	50	0	15.57	15.61	15.52	17	0
20	16QAM	50	24	15.64	15.60	15.51	17	0
20	16QAM	50	50	15.56	15.59	15.57	17	0
20	16QAM	100	0	15.64	15.58	15.45	17	0
20	64QAM	1	0	15.56	15.62	15.58	17	0
20	64QAM	1	49	15.59	15.59	15.61	17	0
20	64QAM	1	99	15.60	15.60	15.56	17	0
20	64QAM	50	0	15.63	15.56	15.44	17	0
20	64QAM	50	24	15.56	15.61	15.49	17	0
20	64QAM	50	50	15.63	15.62	15.52	17	0
20	64QAM	100	0	15.58	15.56	15.56	17	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	15.56	15.66	15.48	17	0
15	QPSK	1	37	15.42	15.48	15.48	17	0
15	QPSK	1	74	15.45	15.37	15.42	17	0
15	QPSK	36	0	15.48	15.56	15.51	17	0
15	QPSK	36	20	15.43	15.55	15.46	17	0
15	QPSK	36	39	15.50	15.57	15.46	17	0
15	QPSK	75	0	15.57	15.53	15.38	17	0
15	16QAM	1	0	15.42	15.36	15.44	17	0
15	16QAM	1	37	15.44	15.53	15.29	17	0
15	16QAM	1	74	15.57	15.57	15.42	17	0
15	16QAM	36	0	15.50	15.55	15.31	17	0
15	16QAM	36	20	15.43	15.60	15.44	17	0
15	16QAM	36	39	15.48	15.55	15.47	17	0
15	16QAM	75	0	15.54	15.53	15.37	17	0
15	16QAM	75	0	15.45	15.49	15.40	17	0
15	64QAM	1	37	15.49	15.50	15.45	17	0
15	64QAM	1	74	15.51	15.47	15.48	17	0
15	64QAM	36	0	15.46	15.48	15.39	17	0
15	64QAM	36	20	15.50	15.65	15.38	17	0
15	64QAM	36	39	15.50	15.61	15.41	17	0
15	64QAM	75	0	15.57	15.57	15.49	17	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	15.57	15.64	15.54	17	0
10	QPSK	1	25	15.47	15.42	15.39	17	0
10	QPSK	1	49	15.38	15.50	15.42	17	0
10	QPSK	25	0	15.67	15.53	15.45	17	0
10	QPSK	25	12	15.41	15.57	15.42	17	0
10	QPSK	25	25	15.56	15.54	15.48	17	0
10	QPSK	50	0	15.37	15.60	15.28	17	0
10	16QAM	1	0	15.54	15.55	15.50	17	0
10	16QAM	1	25	15.41	15.63	15.40	17	0
10	16QAM	1	49	15.57	15.53	15.39	17	0
10	16QAM	25	0	15.42	15.41	15.36	17	0
10	16QAM	25	12	15.43	15.48	15.47	17	0
10	16QAM	25	25	15.51	15.45	15.52	17	0
10	16QAM	50	0	15.50	15.55	15.41	17	0
10	64QAM	1	0	15.52	15.53	15.42	17	0
10	64QAM	1	25	15.48	15.45	15.40	17	0
10	64QAM	1	49	15.52	15.61	15.43	17	0
10	64QAM	25	0	15.53	15.52	15.41	17	0
10	64QAM	25	12	15.53	15.63	15.44	17	0
10	64QAM	25	25	15.59	15.56	15.49	17	0
10	64QAM	50	0	15.54	15.46	15.48	17	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	15.58	15.53	15.55	17	0
5	QPSK	1	12	15.42	15.43	15.49	17	0
5	QPSK	1	24	15.43	15.42	15.34	17	0
5	QPSK	12	0	15.51	15.61	15.47	17	0
5	QPSK	12	7	15.43	15.53	15.35	17	0
5	QPSK	12	13	15.47	15.66	15.49	17	0
5	QPSK	25	0	15.46	15.47	15.44	17	0
5	16QAM	1	0	15.42	15.37	15.42	17	0
5	16QAM	1	12	15.34	15.56	15.49	17	0
5	16QAM	1	24	15.48	15.64	15.40	17	0
5	16QAM	12	0	15.41	15.47	15.35	17	0
5	16QAM	12	7	15.41	15.43	15.53	17	0
5	16QAM	12	13	15.46	15.39	15.40	17	0
5	16QAM	25	0	15.24	15.41	15.37	17	0
5	64QAM	1	0	15.46	15.45	15.41	17	0
5	64QAM	1	12	15.55	15.57	15.59	17	0
5	64QAM	1	24	15.56	15.60	15.51	17	0
5	64QAM	12	0	15.58	15.58	15.33	17	0
5	64QAM	12	7	15.42	15.55	15.41	17	0
5	64QAM	12	13	15.42	15.53	15.33	17	0
5	64QAM	25	0	15.24	15.36	15.33	17	0
5	64QAM	25	0	15.44	15.46	15.56	17	0
Channel								
Frequency (MHz)								
3	QPSK	1	0	15.53	15.67	15.48	17	0
3	QPSK	1	8	15.39	15.52	15.52	17	0
3	QPSK	1	14	15.52	15.57	15.41	17	0
3	QPSK	8	0	15.53	15.52	15.46	17	0
3	QPSK	8	4	15.46	15.53	15.35	17	0
3	QPSK	8	7	15.55	15.64	15.53	17	0
3	QPSK	15	0	15.49	15.56	15.37	17	0
3	16QAM	1	0	15.55	15.56	15.47	17	0
3	16QAM	1	8	15.39	15.54	15.39	17	0
3	16QAM	1	14	15.50	15.49	15.47	17	0
3	16QAM	8	0	15.48	15.52	15.37	17	0
3	16QAM	8	4	15.50	15.49	15.40	17	0
3	16QAM	8	7	15.45	15.50	15.50	17	0
3	16QAM	15	0	15.46	15.48	15.35	17	0
3	64QAM	1	0	15.52	15.65	15.37	17	0
3	64QAM	1	8	15.56	15.45	15.48	17	0
3	64QAM	1	14	15.45	15.36	15.34	17	0
3	64QAM	8	0	15.57	15.49	15.42	17	0
3	64QAM	8	4	15.50	15.48	15.40	17	0
3	64QAM	8	7	15.46	15.50	15.46	17	0
3	64QAM	15	0	15.56	15.52	15.38	17	0
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	15.57	15.25	15.46	17	0
1.4	QPSK	1	3	15.55	15.44	15.44	17	0
1.4	QPSK	1	5	15.43	15.49	15.44	17	0
1.4	QPSK	3	0	15.54	15.55	15.52	17	0
1.4	QPSK	3	1	15.37	15.53	15.43	17	0
1.4	QPSK	3	3	15.56	15.58	15.53	17	0
1.4	QPSK	6	0	15.51	15.55	15.40	17	0
1.4	16QAM	1	0	15.41	15.47	15.47	17	0
1.4	16QAM	1	3	15.43	15.48	15.40	17	0
1.4	16QAM	1	5	15.46	15.58	15.51	17	0
1.4	16QAM	3	0	15.49	15.59	15.34	17	0
1.4	16QAM	3	1	15.52	15.43	15.57	17	0
1.4	16QAM	3	3	15.53	15.40	15.47	17	0
1.4	16QAM	6	0	15.48	15.37	15.37	17	0
1.4	64QAM	1	0	15.55	15.54	15.40	17	0
1.4	64QAM	1	3	15.60	15.43	15.52	17	0
1.4	64QAM	1	5	15.62	15.56	15.45	17	0
1.4	64QAM	3	0	15.63	15.47	15.43	17	0
1.4	64QAM	3	1	15.46	15.50	15.28	17	0
1.4	64QAM	3	3	15.50	15.64	15.44	17	0
1.4	64QAM	6	0	15.65	15.41	15.49	17	0

Band 7 DSI3 Ant4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	11.59	11.68	11.64	13	0
20	QPSK	1	49	11.54	11.64	11.43	13	0
20	QPSK	1	99	11.52	11.58	11.51	13	0
20	QPSK	50	0	11.57	11.65	11.60	13	0
20	QPSK	50	24	11.58	11.62	11.54	13	0
20	QPSK	50	50	11.46	11.55	11.54	13	0
20	QPSK	100	0	11.51	11.65	11.64	13	0
20	16Q							



Reduced Power Mode for DS16

DS16 SA GSM850 Ant0								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	29.15	29.21	29.06	30.50	20.15	20.21	20.06	21.50
GPRS 1 Tx slot	29.08	29.14	29.06	30.50	20.08	20.14	20.06	21.50
GPRS 2 Tx slots	28.16	28.21	28.13	29.50	22.16	22.21	22.13	23.50
GPRS 3 Tx slots	26.57	26.70	26.57	28.00	22.31	22.44	22.31	23.74
GPRS 4 Tx slots	25.68	25.73	25.69	27.00	22.68	22.73	22.69	24.00
EDGE 1 Tx slot	24.09	24.20	24.13	25.50	15.09	15.20	15.13	16.50
EDGE 2 Tx slots	23.16	23.19	23.11	24.50	17.16	17.19	17.11	18.50
EDGE 3 Tx slots	20.67	20.77	20.72	22.50	16.41	16.51	16.46	18.24
EDGE 4 Tx slots	19.37	19.47	19.42	21.00	16.37	16.47	16.42	18.00

DS16 SA GSM1900 Ant0								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1850	1899.8		1850.2	1850	1899.8	
GSM 1 Tx slot	24.00	24.13	24.05	25.50	15.00	15.13	15.08	16.50
GPRS 1 Tx slot	23.99	24.11	24.01	25.50	14.99	15.11	15.01	16.50
GPRS 2 Tx slots	23.05	23.19	23.16	24.50	17.05	17.19	17.16	18.50
GPRS 3 Tx slots	21.53	21.56	21.44	23.00	17.27	17.30	17.18	18.74
GPRS 4 Tx slots	20.48	20.56	20.51	22.00	17.48	17.56	17.51	19.00
EDGE 1 Tx slot	20.48	20.63	20.58	22.00	11.48	11.63	11.58	13.00
EDGE 2 Tx slots	19.58	19.62	19.52	21.00	13.58	13.62	13.52	15.00
EDGE 3 Tx slots	17.98	18.09	17.99	19.50	13.72	13.83	13.73	15.24
EDGE 4 Tx slots	16.99	17.07	16.95	18.50	13.99	14.07	13.95	15.50

DS16 SA WCDMA II Ant0													
Band	WCDMA II			Tune-up Limit (dBm)	DS16 SA WCDMA IV Ant0			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	17.78	17.85	17.79	19.50	17.32	17.44	17.41	19.00	22.02	22.12	22.06	23.50
3GPP Rel 99	RM-C 12.2Kbps	17.89	17.93	17.83	19.50	17.51	17.53	17.36	19.00	22.14	22.16	22.10	23.50
3GPP Rel 6	HSDPA Subtest-1	16.99	16.98	16.86	18.50	16.53	16.61	16.40	18.00	21.27	21.29	21.09	22.50
3GPP Rel 6	HSDPA Subtest-2	16.97	16.96	16.85	18.50	16.62	16.53	16.39	18.00	21.30	21.28	21.11	22.50
3GPP Rel 6	HSDPA Subtest-3	16.32	16.47	16.35	18.00	15.96	16.01	15.97	17.50	20.67	20.73	20.69	22.00
3GPP Rel 6	HSDPA Subtest-4	16.36	16.40	16.34	18.00	15.98	16.04	15.97	17.50	20.63	20.74	20.70	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	17.01	17.01	16.97	18.50	16.55	16.55	16.54	18.00	21.30	21.18	21.23	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	16.90	16.93	17.01	18.50	16.52	16.53	16.56	18.00	21.21	21.26	21.23	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	16.54	16.43	16.40	18.00	16.15	16.00	16.04	17.50	20.78	20.74	20.77	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	16.44	16.43	16.46	18.00	16.00	16.03	16.04	17.50	20.72	20.77	20.79	22.00
3GPP Rel 6	HSUPA Subtest-1	16.96	16.92	16.91	18.50	16.55	16.52	16.54	18.00	21.27	21.25	21.29	22.50
3GPP Rel 6	HSUPA Subtest-2	14.95	14.88	15.07	16.50	14.54	14.43	14.71	16.00	19.26	19.17	19.35	20.50
3GPP Rel 6	HSUPA Subtest-3	15.34	15.25	16.01	17.50	15.47	15.52	15.57	17.00	20.14	20.23	20.25	21.50
3GPP Rel 6	HSUPA Subtest-4	15.15	15.03	14.89	16.50	14.71	14.59	14.46	16.00	19.35	19.30	19.21	20.50
3GPP Rel 6	HSUPA Subtest-5	17.00	16.99	16.82	18.50	16.62	16.54	16.47	18.00	21.33	21.20	21.18	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.57	14.52	14.46	16.00	14.12	14.11	14.10	15.50	18.81	18.76	18.76	20.00



Band 2 DS16 Ant0 SA

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	1800	1900	1970		
20	QPSK	1	49	1773	1783	1780	19.5	0
20	QPSK	1	99	1771	1772	1773		
20	QPSK	50	0	1779	1788	1786		
20	QPSK	50	24	1774	1773	1786	19.5	0
20	QPSK	50	50	1767	1775	1784		
20	QPSK	100	0	1769	1774	1759		
20	16QAM	1	0	1777	1774	1765		
20	16QAM	1	49	1761	1761	1756	19.5	0
20	16QAM	1	99	1772	1776	1759		
20	16QAM	50	0	1765	1763	1756		
20	16QAM	50	24	1763	1760	1756		
20	16QAM	50	50	1774	1782	1756	19.5	0
20	16QAM	100	0	1760	1756	1765		
20	84QAM	1	0	1763	1765	1754		
20	84QAM	1	49	1763	1769	1766	19.5	0
20	84QAM	1	99	1774	1759	1772		
20	84QAM	50	0	1761	1771	1767		
20	84QAM	50	24	1779	1774	1786		
20	84QAM	50	50	1773	1772	1771	19.5	0
20	84QAM	100	0	1767	1773	1786		
Channel								
Frequency (MHz)								
15	QPSK	1	0	18675	18900	19125		
15	QPSK	1	37	1767	1769	1773	19.5	0
15	QPSK	1	74	1761	1764	1759		
15	QPSK	35	0	1772	1761	1756		
15	QPSK	35	20	1761	1769	1753	19.5	0
15	QPSK	35	39	1754	1762	1755		
15	QPSK	75	0	1759	1770	1757		
15	16QAM	1	0	1764	1767	1751		
15	16QAM	1	37	1759	1753	1758	19.5	0
15	16QAM	1	74	1764	1765	1753		
15	16QAM	35	0	1760	1759	1759		
15	16QAM	35	20	1752	1761	1754	19.5	0
15	16QAM	35	39	1761	1770	1756		
15	16QAM	75	0	1751	1757	1760		
15	64QAM	1	0	1755	1752	1750		
15	64QAM	1	37	1758	1757	1756	19.5	0
15	64QAM	1	74	1770	1756	1766		
15	64QAM	35	0	1754	1758	1759		
15	64QAM	35	20	1773	1763	1761	19.5	0
15	64QAM	35	39	1764	1761	1764		
15	64QAM	75	0	1759	1762	1756		
Channel								
Frequency (MHz)								
10	QPSK	1	0	1850	1890	19150		
10	QPSK	1	0	1768	1787	1777		
10	QPSK	1	25	1762	1769	1775	19.5	0
10	QPSK	1	49	1757	1767	1764		
10	QPSK	25	0	1773	1780	1758		
10	QPSK	25	12	1765	1759	1755	19.5	0
10	QPSK	25	25	1761	1770	1754		
10	QPSK	50	0	1766	1762	1756		
10	16QAM	1	0	1772	1770	1759		
10	16QAM	1	25	1752	1759	1762	19.5	0
10	16QAM	1	49	1765	1761	1752		
10	16QAM	25	0	1757	1756	1752		
10	16QAM	25	12	1755	1750	1756	19.5	0
10	16QAM	25	25	1769	1770	1756		
10	16QAM	50	0	1751	1759	1755		
10	64QAM	1	0	1752	1753	1759		
10	64QAM	1	25	1760	1760	1756	19.5	0
10	64QAM	1	49	1759	1757	1758		
10	64QAM	25	0	1751	1756	1757		
10	64QAM	25	12	1774	1765	1756	19.5	0
10	64QAM	25	25	1762	1760	1757		
10	64QAM	50	0	1758	1761	1763		
Channel								
Frequency (MHz)								
5	QPSK	1	0	18625	18900	19175		
5	QPSK	1	0	1773	1778	1783		
5	QPSK	1	12	1766	1778	1767	19.5	0
5	QPSK	1	24	1766	1758	1766		
5	QPSK	12	0	1767	1775	1757		
5	QPSK	12	7	1765	1762	1760	19.5	0
5	QPSK	12	13	1753	1765	1759		
5	QPSK	25	0	1764	1761	1750		
5	16QAM	1	0	1769	1770	1753		
5	16QAM	1	12	1758	1754	1759	19.5	0
5	16QAM	1	24	1761	1762	1759		
5	16QAM	12	0	1763	1751	1754		
5	16QAM	12	7	1756	1755	1757	19.5	0
5	16QAM	12	13	1766	1767	1751		
5	16QAM	25	0	1756	1754	1757		
5	64QAM	1	0	1750	1760	1762		
5	64QAM	1	12	1759	1755	1759	19.5	0
5	64QAM	1	24	1760	1751	1768		
5	64QAM	12	0	1751	1758	1762		
5	64QAM	12	7	1763	1766	1759	19.5	0
5	64QAM	12	13	1767	1759	1761		
5	64QAM	25	0	1762	1769	1763		
Channel								
Frequency (MHz)								
3	QPSK	1	0	18515	1880	19085		
3	QPSK	1	0	1774	1783	1783	19.5	0
3	QPSK	1	8	1759	1771	1770		
3	QPSK	1	14	1763	1763	1768		
3	QPSK	8	0	1766	1777	1755		
3	QPSK	8	4	1762	1762	1754	19.5	0
3	QPSK	8	7	1760	1767	1765		
3	QPSK	15	0	1754	1765	1750		
3	16QAM	1	0	1770	1764	1760	19.5	0
3	16QAM	1	8	1758	1753	1760		
3	16QAM	1	14	1764	1766	1755		
3	16QAM	8	0	1763	1760	1761		
3	16QAM	8	4	1767	1759	1753	19.5	0
3	16QAM	8	7	1776	1767	1757		
3	16QAM	15	0	1763	1753	1763		
3	64QAM	1	0	1763	1753	1763		
3	64QAM	1	8	1762	1769	1761	19.5	0
3	64QAM	1	14	1765	1757	1761		
3	64QAM	8	0	1752	1765	1759		
3	64QAM	8	4	1770	1768	1753	19.5	0
3	64QAM	8	7	1765	1766	1760		
3	64QAM	15	0	1763	1758	1759		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	18507	1890	19133		
1.4	QPSK	1	0	1770	1784	1774	19.5	0
1.4	QPSK	1	3	1758	1773	1773		
1.4	QPSK	1	5	1764	1766	1764		
1.4	QPSK	3	0	1772	1778	1752		
1.4	QPSK	3	1	1765	1759	1756	19.5	0
1.4	QPSK	3	3	1753	1769	1755		
1.4	QPSK	6	0	1758	1760	1750	19.5	0
1.4	16QAM	1	0	1778	1780	1770		
1.4	16QAM	1	5	1764	1752	1774		
1.4	16QAM	1	5	1776	1779	1764	19.5	0
1.4	16QAM	3	0	1766	1758	1754		
1.4	16QAM	3	1	1768	1755	1760		
1.4	16QAM	3	3	1777	1782	1756	19.5	0
1.4	16QAM	6	0	1762	1751	1764		
1.4	84QAM	1	0	1759	1754	1753		
1.4	84QAM	1	3	1768	1769	1767		
1.4	84QAM	1	5	1762	1752	1763	19.5	0
1.4	84QAM	3	0	1756	1760	1761		
1.4	84QAM	3	1	1771	1762	1757		
1.4	84QAM	3	3	1763	1764	1767	19.5	0
1.4	84QAM	6	0	1763	1759	1756		

Band 4 DS16 Ant0 SA

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20650	20175	20300		
20	QPSK	1	49	1789	1796	1793	19.5	0
20	QPSK	1	99	1790	1795	1794		
20	QPSK	50	0	1800	1807	1788		
20	QPSK	50	24	1793	1788	1797	19.5	0
20	QPSK	50	50	1789	1798	1787		
20	QPSK	100	0	1794	1801	1780		
20	16QAM	1	0	1794	1796	1792		
20	16QAM	1	49	1795	1790	1792	19.5	0
20	16QAM	1	99	1786	1796	1788		
20	16QAM	50	0	1791	1776	1776		
20	16QAM	50	24	1779	1783	1779	19.5	0
20	16QAM	50	50	1786	1802	1778		
20	16QAM	100	0	1783	1775	1792		
20	84QAM	1	0	1778	1782	1784		
20	84QAM	1	49	1784	1792	1785	19.5	0
20	84QAM	1	99	1795	1788	1793		
20	84QAM	50	0	1789	1795	1784		
20	84QAM	50	24	1790	1789	1788		
20	84QAM	50	50	1787	1791	1788	19.5	0
20	84QAM	100	0	1786	1791	1792		
Channel								
Frequency (MHz)								
15	QPSK	1	0	20025	20175	20325		
15	QPSK	1	0	1785	1804	1795		
15	QPSK	1	37	1782	1783	1789	19.5	0
15	QPSK	1	74	1776	1791	1779		
15	QPSK	35	0	1789	1801	1782		
15	QPSK	35	20	1785	1780	1789	19.5	0
15	QPSK	35	39	1785	1792	1772		
15	QPSK	75	0	1788	1792	1771		
15	16QAM	1	0	1789	1788	1784		
15	16QAM	1	37	1767	1783	1775	19.5	0
15	16QAM	1	74	1774	1786	1782		
15	16QAM	35	0	1786	1786	1782		
15	16QAM	35	20	1789	1801	1773	19.5	0
15	16QAM	35	39	1777	1792	1767		
15	16QAM	75	0	1772	1767	1780		
15	64QAM	1	0	1767	1770	1770		
15	64QAM	1	37	1779	1782	1771	19.5	0
15	64QAM	1	74	1787	1774	1779		
15	64QAM	35	0	1774	1781	1		

Band 7 DSI6 Ant1 SA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350	21	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	19.45	19.49	19.36	21	0	
20	QPSK	1	49	19.25	19.39	19.33			
20	QPSK	1	99	19.38	19.42	19.30			
20	QPSK	50	0	19.34	19.41	19.20	21	0	
20	QPSK	50	24	19.36	19.23	19.33			
20	QPSK	50	50	19.25	19.39	19.32			
20	QPSK	100	0	19.30	19.40	19.26	21	0	
20	16QAM	1	0	19.29	19.32	19.27			
20	16QAM	1	49	19.23	19.23	19.24			
20	16QAM	1	99	19.25	19.29	19.30	21	0	
20	16QAM	50	0	19.26	19.17	19.24			
20	16QAM	50	24	19.21	19.16	19.24			
20	16QAM	50	50	19.30	19.33	19.23	21	0	
20	16QAM	100	0	19.29	19.17	19.26			
20	64QAM	1	0	19.17	19.16	19.15			
20	64QAM	1	49	19.27	19.25	19.27	21	0	
20	64QAM	1	99	19.30	19.21	19.30			
20	64QAM	50	0	19.19	19.27	19.19			
20	64QAM	50	24	19.38	19.32	19.32	21	0	
20	64QAM	50	50	19.36	19.33	19.25			
20	64QAM	100	0	19.32	19.31	19.22			
Channel				20825	21100	21375	21	0	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	19.33	19.35	19.30	21	0	
15	QPSK	1	37	19.21	19.28	19.18			
15	QPSK	1	74	19.30	19.35	19.18			
15	QPSK	36	0	19.28	19.30	19.11	21	0	
15	QPSK	36	20	19.30	19.14	19.26			
15	QPSK	36	39	19.19	19.33	19.21			
15	QPSK	75	0	19.15	19.35	19.18	21	0	
15	16QAM	1	0	19.22	19.18	19.17			
15	16QAM	1	37	19.10	19.13	19.20			
15	16QAM	1	74	19.19	19.23	19.25	21	0	
15	16QAM	36	0	19.12	19.03	19.14			
15	16QAM	36	20	19.16	19.02	19.18			
15	16QAM	36	39	19.27	19.29	19.13	21	0	
15	16QAM	75	0	19.25	19.05	19.15			
15	64QAM	1	0	19.04	19.02	19.11			
15	64QAM	1	37	19.21	19.13	19.14	21	0	
15	64QAM	1	74	19.16	19.11	19.25			
15	64QAM	36	0	19.05	19.19	19.15			
15	64QAM	36	20	19.25	19.18	19.18	21	0	
15	64QAM	36	39	19.28	19.19	19.11			
15	64QAM	75	0	19.19	19.21	19.08			
Channel				20800	21100	21400	21	0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	19.37	19.44	19.24	21	0	
10	QPSK	1	25	19.12	19.36	19.29			
10	QPSK	1	49	19.27	19.27	19.26			
10	QPSK	25	0	19.25	19.29	19.13	21	0	
10	QPSK	25	12	19.25	19.18	19.27			
10	QPSK	25	25	19.16	19.35	19.25			
10	QPSK	50	0	19.26	19.32	19.21	21	0	
10	16QAM	1	0	19.23	19.24	19.15			
10	16QAM	1	25	19.19	19.15	19.20			
10	16QAM	1	49	19.20	19.14	19.15	21	0	
10	16QAM	25	0	19.12	19.10	19.13			
10	16QAM	25	12	19.11	19.12	19.19			
10	16QAM	25	25	19.24	19.25	19.10	21	0	
10	16QAM	50	0	19.19	19.13	19.17			
10	64QAM	1	0	19.11	19.10	19.06			
10	64QAM	1	25	19.21	19.20	19.23	21	0	
10	64QAM	1	49	19.19	19.18	19.24			
10	64QAM	25	0	19.07	19.20	19.12			
10	64QAM	25	12	19.32	19.23	19.24	21	0	
10	64QAM	25	25	19.23	19.18	19.20			
10	64QAM	50	0	19.22	19.28	19.08			
Channel				20775	21100	21425	21	0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.32	19.39	19.32	21	0	
5	QPSK	1	12	19.20	19.24	19.22			
5	QPSK	1	24	19.35	19.38	19.18			
5	QPSK	12	0	19.30	19.31	19.07	21	0	
5	QPSK	12	7	19.29	19.08	19.22			
5	QPSK	12	13	19.20	19.31	19.21			
5	QPSK	25	0	19.16	19.37	19.17	21	0	
5	16QAM	1	0	19.20	19.28	19.24			
5	16QAM	1	12	19.11	19.11	19.13			
5	16QAM	1	24	19.15	19.17	19.26	21	0	
5	16QAM	12	0	19.19	19.04	19.14			
5	16QAM	12	7	19.16	19.07	19.14			
5	16QAM	12	13	19.22	19.23	19.15	21	0	
5	16QAM	25	0	19.16	19.12	19.12			
5	64QAM	1	0	19.10	19.01	19.05			
5	64QAM	1	12	19.15	19.19	19.20	21	0	
5	64QAM	1	24	19.24	19.09	19.25			
5	64QAM	12	0	19.13	19.19	19.10			
5	64QAM	12	7	19.32	19.21	19.20	21	0	
5	64QAM	12	13	19.30	19.25	19.21			
5	64QAM	25	0	19.20	19.26	19.16			

Band 38 DSI6 Ant1 SA												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				37850	38000	38150						
Frequency (MHz)				2580	2595	2610						
20	QPSK	1	0	21.19	21.37	21.24	22.5	0				
20	QPSK	1	49	21.20	21.28	21.18						
20	QPSK	1	99	21.11	21.16	21.04						
20	QPSK	50	0	21.23	21.32	21.24	22.5	0				
20	QPSK	50	24	21.23	21.25	21.13						
20	QPSK	50	50	21.10	21.15	21.13						
20	QPSK	100	0	21.28	21.33	21.28	22.5	0				
20	16QAM	1	0	21.18	21.29	21.19						
20	16QAM	1	49	21.16	21.20	21.18						
20	16QAM	1	99	21.10	21.16	21.14	22	0.5				
20	16QAM	50	0	20.68	20.81	20.72						
20	16QAM	50	24	20.67	20.68	20.69						
20	16QAM	50	50	20.72	20.69	20.75	21	1.5				
20	16QAM	100	0	20.66	20.77	20.74						
20	84QAM	1	0	20.39	20.47	20.41						
20	84QAM	1	49	20.40	20.42	20.35	21	1.5				
20	84QAM	1	99	20.36	20.37	20.33						
20	84QAM	50	0	19.70	19.80	19.72						
20	84QAM	50	24	19.73	19.67	19.75	21	1.5				
20	84QAM	50	50	19.76	19.67	19.75						
20	84QAM	100	0	19.58	19.72	19.57						
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2577.5	2595	2612.5						
15	QPSK	1	0	21.13	21.16	21.14	22.5	0				
15	QPSK	1	37	21.07	21.10	21.03						
15	QPSK	1	74	21.03	21.12	20.99						
15	QPSK	36	0	21.13	21.22	21.21	22.5	0				
15	QPSK	36	20	21.04	21.16	21.01						
15	QPSK	36	39	21.02	21.12	21.00						
15	QPSK	75	0	21.13	21.24	21.21	22.5	0				
15	16QAM	1	0	21.13	21.18	21.22						
15	16QAM	1	37	21.03	21.15	20.97						
15	16QAM	1	74	21.00	21.17	21.01	22	0.5				
15	16QAM	36	0	20.65	20.67	20.64						
15	16QAM	36	20	20.61	20.63	20.60						
15	16QAM	36	39	20.58	20.58	20.69	21	1.5				
15	16QAM	75	0	20.60	20.71	20.65						
15	84QAM	1	0	20.31	20.38	20.29						
15	84QAM	1	37	20.35	20.37	20.26	21	1.5				
15	84QAM	1	74	20.27	20.26	20.21						
15	84QAM	36	0	19.57	19.72	19.66						
15	84QAM	36	20	19.69	19.57	19.67	21	1.5				
15	84QAM	36	39	19.72	19.61	19.72						
15	84QAM	75	0	19.45	19.68	19.44						
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2575	2595	2615						
10	QPSK	1	0	21.09	21.28	21.18	22.5	0				
10	QPSK	1	25	21.06	21.11	21.09						
10	QPSK	1	49	21.01	21.03	21.07						
10	QPSK	25	0	21.10	21.30	21.24	22.5	0				
10	QPSK	25	12	21.14	21.16	21.02						
10	QPSK	25	25	21.04	21.09	21.01						
10	QPSK	50	0	21.04	21.28	21.19	22.5	0				
10	16QAM	1	0	21.10	21.23	21.25						
10	16QAM	1	25	21.09	21.09	21.08						
10	16QAM	1	49	21.09	21.11	21.04	22	0.5				
10	16QAM	25	0	20.53	20.77	20.68						
10	16QAM	25	12	20.54	20.54	20.62						
10	16QAM	25	25	20.67	20.60	20.68	21	1.5				
10	16QAM	50	0	20.52	20.65	20.61						
10	84QAM	1	0	20.33	20.35	20.37						
10	84QAM	1	25	20.28	20.34	20.29	21	1.5				
10	84QAM	1	49	20.25	20.28	20.29						
10	84QAM	25	0	19.59	19.71	19.68						
10	84QAM	25	12	19.62	19.63	19.64	21	1.5				
10	84QAM	25	25	19.67	19.53	19.60						
10	84QAM	50	0	19.54	19.68	19.42						
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2572.5	2595	2617.5						
5	QPSK	1	0	21.11	21.28	21.23	22.5	0				
5	QPSK	1	12	21.09	21.12	21.08						
5	QPSK	1	24	21.00	21.05	21.05						
5	QPSK	12	0	21.05	21.32	21.24	22.5	0				
5	QPSK	12	7	21.11	21.10	21.07						
5	QPSK	12	13	21.00	21.11	21.04						
5	QPSK	25	0	21.02	21.28	21.19	22.5	0				
5	16QAM	1	0	21.07	21.29	21.16						
5	16QAM	1	12	21.11	21.16	21.04						
5	16QAM	1	24	21.07	21.08	21.03	22	0.5				
5	16QAM	12	0	20.58	20.76	20.62						
5	16QAM	12	7	20.59	20.58	20.57						
5	16QAM	12	13	20.60	20.65	20.71	21	1.5				
5	16QAM	25	0	20.56	20.68	20.63						
5	84QAM	1	0	20.26	20.33	20.36						
5	84QAM	1	12	20.31	20.31	20.21	21	1.5				
5	84QAM	1	24	20.24	20.24	20.19						
5	84QAM	12	0	19.56	19.66	19.66						
5	84QAM	12	7	19.64	19.61	19.62	21	1.5				
5	84QAM	12	13	19.62	19.54	19.64						
5	84QAM	25	0	19.45	19.59	19.49						

Band 41 DSI6 Ant1 SA												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	21.30	21.20	21.34	21.27	21.23	22.5	0		
20	QPSK	1	49	21.22	21.25	21.30	21.19	21.24				
20	QPSK	1	99	21.06	21.10	21.19	21.13	21.11				
20	QPSK	50	0	21.20	21.23	21.32	21.28	21.25	22.5	0		
20	QPSK	50	24	21.20	21.22	21.27	21.18	21.18				
20	QPSK	50	50	21.12	21.09	21.24	21.16	21.12				
20	QPSK	100	0	21.21	21.21	21.27	21.20	21.20	22.5	0		
20	16QAM	1	0	21.08	21.18	21.22	21.09	21.17				
20	16QAM	1	49	21.14	21.04	21.18	21.14	21.15				
20	16QAM	1	99	21.03	21.05	21.14	21.06	21.04	22	0.5		
20	16QAM	50	0	20.74	20.65	20.77	20.69	20.56				
20	16QAM	50	24	20.73	20.62	20.63	20.67	20.54				
20	16QAM	50	50	20.71	20.65	20.69	20.74	20.52	21	1.5		
20	16QAM	100	0	20.64	20.64	20.78	20.70	20.59				
20	84QAM	1	0	20.52	20.48	20.62	20.57	20.42				
20	84QAM	1	49	20.52	20.47	20.53	20.49	20.41	21	1.5		
20	84QAM	1	99	20.53	20.58	20.55	20.54	20.32				
20	84QAM	50	0	19.66	19.64	19.70	19.56	19.49				
20	84QAM	50	24	19.59	19.61	19.64	19.61	19.49	21	1.5		
20	84QAM	50	50	19.61	19.63	19.60	19.57	19.47				
20	84QAM	100	0	19.66	19.68	19.73	19.67	19.44				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	21.20	21.14	21.26	21.14	21.11	23	0		
15	QPSK	1	37	21.15	21.22	21.20	21.07	21.11				
15	QPSK	1	74	20.99	21.03	21.16	21.00	21.07				
15	QPSK	36	0	21.08	21.20	21.18	21.18	21.14	22.5	0		
15	QPSK	36	20	21.12	21.11	21.21	21.04	21.14				
15	QPSK	36	39	21.06	20.98	21.15	21.03	20.98				
15	QPSK	75	0	21.13	21.10	21.15	21.11	21.07	22.5	0		
15	16QAM	1	0	21.00	21.08	21.18	21.03	21.11				
15	16QAM	1	37	21.04	20.99	21.08	21.05	21.08				
15	16QAM	1	74	20.98	20.95	21.07	21.03	21.00	v	0.5		
15	16QAM	36	0	20.64	20.55	20.66	20.56	20.52				
15	16QAM	36	20	20.59	20.49	20.59	20.56	20.44				
15	16QAM	36	39	20.65	20.62	20.58	20.69	20.42	21	1.5		
15	16QAM	75	0	20.59	20.57	20.64	20.66	20.47				
15	84QAM	1	0	20.40	20.42	20.58	20.43	20.28				
15	84QAM	1	37	20.39	20.35	20.42	20.45	20.29	21	1.5		
15	84QAM	1	74	20.50	20.48	20.43	20.48	20.20				
15	84QAM	36	0	19.53	19.54	19.61	19.52	19.38				
15	84QAM	36	20	19.53	19.51	19.49	19.52	19.44	21	1.5		
15	84QAM	36	39	19.57	19.59	19.55	19.43	19.43				
15	84QAM	75	0	19.61	19.58	19.58	19.58	19.31				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	21.24	21.06	21.29	21.13	21.15	22.50	0		
10	QPSK	1	25	21.19	21.13	21.18	21.06	21.12				
10	QPSK	1	49	21.02	21.02	21.14	21.04	20.97				
10	QPSK	25	0	21.15	21.16	21.28	21.17	21.10	22.5	0		
10	QPSK	25	12	21.15	21.16	21.21	21.04	21.06				
10	QPSK	25</										



Band 2 DS16 Ant0 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)	0	1	2	3	4	5			
20	QPSK	1	0	14.22	14.30	14.33			
20	QPSK	1	49	14.22	14.30	14.33	16	0	
20	QPSK	1	99	14.25	14.30	14.28			
20	QPSK	50	0	14.22	14.33	14.13			
20	QPSK	50	49	14.17	14.33	14.14	16	0	
20	QPSK	50	99	14.21	14.21	14.14			
20	QPSK	100	0	14.18	14.23	14.05			
20	QPSK	100	49	14.24	14.24	14.17	16	0	
20	QPSK	1	49	14.16	14.11	14.12	16	0	
20	QPSK	1	99	14.18	14.16	14.20			
20	QPSK	50	49	14.24	14.20	14.20			
20	QPSK	50	24	14.13	14.09	14.06	16	0	
20	QPSK	50	99	14.10	14.20	14.12			
20	QPSK	100	0	14.17	14.20	14.14			
20	QPSK	100	49	14.21	14.07	14.12	16	0	
20	QPSK	1	49	14.21	14.16	14.14			
20	QPSK	1	99	14.17	14.17	14.14	16	0	
20	QPSK	50	0	14.17	14.10	14.21			
20	QPSK	50	49	14.10	14.23	14.18	16	0	
20	QPSK	100	0	14.22	14.20	14.19			
Channel									
Frequency (MHz)	0	1	2	3	4	5	Turn-up time (min)	MFR (dB)	
15	QPSK	1	0	14.09	14.20	14.21			
15	QPSK	1	37	14.11	14.20	14.17	16	0	
15	QPSK	1	74	14.12	14.20	14.12			
15	QPSK	36	0	14.12	14.20	14.09			
15	QPSK	36	20	14.12	14.00	14.16	16	0	
15	QPSK	36	40	14.07	14.20	14.16			
15	QPSK	75	0	14.09	14.20	14.14			
15	QPSK	1	0	14.16	14.10	14.04	16	0	
15	QPSK	1	36	14.12	14.20	14.12			
15	QPSK	1	74	14.11	14.09	14.06	16	0	
15	QPSK	36	0	14.18	14.21	14.10			
15	QPSK	36	20	14.15	14.20	14.04	16	0	
15	QPSK	36	39	14.20	14.23	14.12			
15	QPSK	75	0	14.20	14.20	14.14			
15	QPSK	1	0	14.14	14.11	14.15	16	0	
15	QPSK	1	37	14.16	14.22	14.20			
15	QPSK	1	74	14.17	14.21	14.19	16	0	
15	QPSK	36	0	14.03	14.04	14.03			
15	QPSK	36	20	14.06	14.15	14.15	16	0	
15	QPSK	36	40	14.10	14.20	14.15			
15	QPSK	75	0	14.11	14.18	14.07			
Channel									
Frequency (MHz)	0	1	2	3	4	5	Turn-up time (min)	MFR (dB)	
10	QPSK	1	0	14.18	14.20	14.23	16	0	
10	QPSK	1	25	14.10	14.20	14.20			
10	QPSK	1	49	14.14	14.21	14.16			
10	QPSK	25	0	14.14	14.20	14.20	16	0	
10	QPSK	25	12	14.10	14.20	14.18			
10	QPSK	25	20	14.06	14.10	14.10	16	0	
10	QPSK	25	40	14.07	14.20	14.12			
10	QPSK	1	0	14.23	14.24	14.16			
10	QPSK	1	25	14.12	14.06	14.18	16	0	
10	QPSK	1	49	14.19	14.17	14.20			
10	QPSK	25	0	14.23	14.20	14.10			
10	QPSK	25	12	14.18	14.20	14.20	16	0	
10	QPSK	25	20	14.15	14.20	14.08			
10	QPSK	25	40	14.22	14.08	14.16	16	0	
10	QPSK	50	0	14.06	14.20	14.10			
10	QPSK	50	49	14.20	14.18	14.18	16	0	
10	QPSK	50	24	14.13	14.09	14.13			
10	QPSK	50	99	14.10	14.13	14.08	16	0	
10	QPSK	100	0	14.11	14.18	14.07			
Channel									
Frequency (MHz)	0	1	2	3	4	5	Turn-up time (min)	MFR (dB)	
5	QPSK	1	0	14.08	14.21	14.22	16	0	
5	QPSK	1	12	14.15	14.20	14.20			
5	QPSK	1	24	14.19	14.18	14.20	16	0	
5	QPSK	12	0	14.14	14.20	14.00			
5	QPSK	12	13	14.12	14.09	14.18	16	0	
5	QPSK	25	0	14.06	14.12	14.01			
5	QPSK	25	0	14.16	14.10	14.03	16	0	
5	QPSK	1	12	14.06	14.09	14.05			
5	QPSK	1	24	14.11	14.20	14.21	16	0	
5	QPSK	12	0	14.10	14.20	14.12			
5	QPSK	12	13	14.14	14.10	14.16	16	0	
5	QPSK	25	0	14.13	14.14	14.05			
5	QPSK	25	0	14.14	14.18	14.16	16	0	
5	QPSK	50	0	14.04	14.08	14.01			
5	QPSK	50	49	14.02	14.06	14.00	16	0	
5	QPSK	1	24	14.13	14.04	14.21			
5	QPSK	12	0	14.02	14.06	14.04			
5	QPSK	12	13	14.14	14.10	14.16	16	0	
5	QPSK	25	0	14.13	14.14	14.05			
5	QPSK	25	0	14.13	14.14	14.09	16	0	
Channel									
Frequency (MHz)	0	1	2	3	4	5	Turn-up time (min)	MFR (dB)	
3	QPSK	1	0	14.09	14.20	14.19			
3	QPSK	1	6	14.12	14.21	14.12	16	0	
3	QPSK	1	14	14.20	14.10	14.17			
3	QPSK	6	0	14.13	14.20	14.01	16	0	
3	QPSK	6	4	14.00	14.01	14.12			
3	QPSK	6	8	14.10	14.06	14.11	16	0	
3	QPSK	15	0	14.03	14.20	14.01			
3	QPSK	1	0	14.20	14.10	14.10	16	0	
3	QPSK	1	14	14.24	14.14	14.16			
3	QPSK	1	28	14.10	14.20	14.20	16	0	
3	QPSK	8	0	14.17	14.07	14.07			
3	QPSK	8	7	14.06	14.18	14.07	16	0	
3	QPSK	16	0	14.06	14.20	14.02			
3	QPSK	1	0	14.06	14.20	14.03			
3	QPSK	1	6	14.14	14.04	14.07	16	0	
3	QPSK	1	14	14.21	14.09	14.20			
3	QPSK	8	0	14.16	14.18	14.09			
3	QPSK	8	4	14.08	14.13	14.17	16	0	
3	QPSK	8	8	14.10	14.10	14.06			
3	QPSK	16	0	14.17	14.23	14.08			
Channel									
Frequency (MHz)	0	1	2	3	4	5	Turn-up time (min)	MFR (dB)	
1.4	QPSK	1	0	14.18	14.31	14.28	16	0	
1.4	QPSK	1	3	14.16	14.21	14.20			
1.4	QPSK	1	6	14.25	14.20	14.20			
1.4	QPSK	3	1	14.20	14.16	14.30	16	0	
1.4	QPSK	3	3	14.18	14.20	14.10			
1.4	QPSK	6	0	14.15	14.22	14.08	16	0	
1.4	QPSK	1	0	14.24	14.20	14.17			
1.4	QPSK	1	3	14.21	14.30	14.29	16	0	
1.4	QPSK	3	1	14.22	14.20	14.27			
1.4	QPSK	3	3	14.23	14.41	14.27	16	0	
1.4	QPSK	6	0	14.20	14.27	14.20	16	0	
1.4	QPSK	1	0	14.34	14.25	14.20			
1.4	QPSK	1	3	14.22	14.30	14.27	16	0	
1.4	QPSK	3	1	14.31	14.35	14.30			
1.4	QPSK	3	3	14.25	14.40	14.32	16	0	
1.4	QPSK	6	0	14.23	14.17	14.28	16	0	
1.4	QPSK	6	3	14.22	14.16	14.20			
1.4	QPSK	1	0	14.19	14.23	14.29	16	0	
1.4	QPSK	1	3	14.27	14.32	14.21			
1.4	QPSK	3	1	14.36	14.38	14.40	16	0	
1.4	QPSK	3	3	14.33	14.25	14.26			
1.4	QPSK	6	0	14.34	14.26	14.34	16	0	

Band 4 DS16 Ant0 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)	0	1	2	3	4	5			
20	QPSK	1	0	14.42	14.61	14.63			
20	QPSK	1	49	14.42	14.61	14.63	16	0	
20	QPSK	1	99	14.45	14.47	14.47			
20	QPSK	50	0	14.47	14.56	14.31			
20	QPSK	50	49	14.47	14.56	14.63	16	0	
20	QPSK	50	99	14.38	14.46	14.39			
20	QPSK	100	0	14.42	14.50	14.27			
20	QPSK	100	49	14.42	14.50	14.54	16	0	
20	QPSK	1	49	14.31	14.38	14.42	16	0	
20	QPSK	1	99	14.46	14.41	14.36			
20	QPSK	50	49	14.42	14.52	14.24			
20	QPSK	50	24	14.25	14.33	14.28	16	0	
20	QPSK	50	99	14.42	14.42	14.36			
20	QPSK	100	0	14.37	14.29	14.36			
20	QPSK	100	49	14.34	14.28	14.35	16	0	
20	QPSK	1	49	14.42	14.40	14.30			
20	QPSK	1	99	14.42	14.35	14.34	16	0	
20	QPSK	50	0	14.33	14.35	14.30			
20	QPSK	50	24	14.42	14.42	14.46	16	0	
20	QPSK	50	99	14.46	14.36	14.29			
20	QPSK	100	0	14.40	14.36	14.30			
Channel									
Frequency (MHz)	0	1	2	3	4	5	Turn-up time (min)	MFR (dB)	
15	QPSK	1	0	14.37	14.53	14.46			
15	QPSK	1	37	14.39	14.40	14.44	16	0	
15	QPSK	1	74	14.37	14.42	14.33			
15	QPSK	36	0	14.36	14.47	14.17			



Band 7 Ant1 DSI6 NSA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	18	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	16.47	16.56	16.54	18	0
20	QPSK	1	49	16.46	16.45	16.43		
20	QPSK	1	99	16.39	16.48	16.49		
20	QPSK	50	0	16.52	16.53	16.29	18	0
20	QPSK	50	24	16.47	16.42	16.40		
20	QPSK	50	50	16.41	16.41	16.38		
20	QPSK	100	0	16.42	16.46	16.29	18	0
20	16QAM	1	0	16.36	16.36	16.44		
20	16QAM	1	49	16.30	16.43	16.36		
20	16QAM	1	99	16.41	16.41	16.39	18	0
20	16QAM	50	0	16.44	16.25	16.33		
20	16QAM	50	24	16.25	16.33	16.34		
20	16QAM	50	50	16.43	16.50	16.30	18	0
20	16QAM	100	0	16.33	16.34	16.41		
20	64QAM	1	0	16.37	16.32	16.29		
20	64QAM	1	49	16.35	16.38	16.34	18	0
20	64QAM	1	99	16.38	16.37	16.42		
20	64QAM	50	0	16.33	16.40	16.36		
20	64QAM	50	24	16.44	16.44	16.45	18	0
20	64QAM	50	50	16.43	16.33	16.38		
20	64QAM	100	0	16.36	16.43	16.39		
Channel				20825	21100	21375	18	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	16.32	16.49	16.48	18	0
15	QPSK	1	37	16.38	16.31	16.35		
15	QPSK	1	74	16.30	16.38	16.37		
15	QPSK	36	0	16.48	16.43	16.15	18	0
15	QPSK	36	20	16.42	16.28	16.29		
15	QPSK	36	39	16.32	16.30	16.25		
15	QPSK	75	0	16.33	16.39	16.20	18	0
15	16QAM	1	0	16.29	16.29	16.40		
15	16QAM	1	37	16.23	16.30	16.21		
15	16QAM	1	74	16.35	16.29	16.26	18	0
15	16QAM	36	0	16.37	16.12	16.29		
15	16QAM	36	20	16.11	16.25	16.23		
15	16QAM	36	39	16.30	16.42	16.16	18	0
15	16QAM	75	0	16.26	16.29	16.35		
15	64QAM	1	0	16.26	16.17	16.23		
15	64QAM	1	37	16.31	16.31	16.25	18	0
15	64QAM	1	74	16.33	16.22	16.37		
15	64QAM	36	0	16.25	16.25	16.22		
15	64QAM	36	20	16.36	16.35	16.38	18	0
15	64QAM	36	39	16.30	16.29	16.29		
15	64QAM	75	0	16.29	16.38	16.32		
Channel				20800	21100	21400	18	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	16.43	16.53	16.42	18	0
10	QPSK	1	25	16.41	16.35	16.32		
10	QPSK	1	49	16.30	16.42	16.35		
10	QPSK	25	0	16.40	16.49	16.14	18	0
10	QPSK	25	12	16.35	16.36	16.31		
10	QPSK	25	25	16.36	16.38	16.34		
10	QPSK	50	0	16.31	16.34	16.16	18	0
10	16QAM	1	0	16.33	16.27	16.30		
10	16QAM	1	25	16.27	16.34	16.25		
10	16QAM	1	49	16.34	16.27	16.35	18	0
10	16QAM	25	0	16.38	16.14	16.20		
10	16QAM	25	12	16.14	16.27	16.29		
10	16QAM	25	25	16.32	16.40	16.22	18	0
10	16QAM	50	0	16.25	16.27	16.27		
10	64QAM	1	0	16.32	16.23	16.24		
10	64QAM	1	25	16.30	16.31	16.28	18	0
10	64QAM	1	49	16.27	16.34	16.37		
10	64QAM	25	0	16.29	16.34	16.24		
10	64QAM	25	12	16.29	16.36	16.35	18	0
10	64QAM	25	25	16.33	16.19	16.31		
10	64QAM	50	0	16.23	16.29	16.27		
Channel				20775	21100	21425	18	0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	16.36	16.47	16.44	18	0
5	QPSK	1	12	16.32	16.34	16.35		
5	QPSK	1	24	16.25	16.40	16.35		
5	QPSK	12	0	16.39	16.43	16.22	18	0
5	QPSK	12	7	16.35	16.36	16.34		
5	QPSK	12	13	16.33	16.36	16.35		
5	QPSK	25	0	16.31	16.36	16.17	18	0
5	16QAM	1	0	16.25	16.23	16.35		
5	16QAM	1	12	16.18	16.31	16.21		
5	16QAM	1	24	16.34	16.38	16.25	18	0
5	16QAM	12	0	16.34	16.10	16.20		
5	16QAM	12	7	16.14	16.25	16.21		
5	16QAM	12	13	16.28	16.37	16.23	18	0
5	16QAM	25	0	16.26	16.25	16.28		
5	64QAM	1	0	16.27	16.28	16.17		
5	64QAM	1	12	16.24	16.27	16.20	18	0
5	64QAM	1	24	16.26	16.27	16.36		
5	64QAM	12	0	16.30	16.30	16.29		
5	64QAM	12	7	16.38	16.40	16.31	18	0
5	64QAM	12	13	16.30	16.25	16.32		
5	64QAM	25	0	16.31	16.36	16.28		



Band 38 DSI6 Ant1 NSA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	18.12	18.34	18.27	19.5	0
20	QPSK	1	49	18.07	18.20	18.19		
20	QPSK	1	99	18.12	18.21	18.15		
20	QPSK	50	0	18.20	18.29	18.08	19.5	0
20	QPSK	50	24	18.15	18.08	18.09		
20	QPSK	50	50	18.11	18.20	18.11		
20	QPSK	100	0	18.09	18.15	18.07	19.5	0
20	16QAM	1	0	18.06	18.09	18.03		
20	16QAM	1	49	17.96	18.05	18.01		
20	16QAM	1	99	18.10	18.11	18.04	19.5	0
20	16QAM	50	0	18.10	18.06	18.01		
20	16QAM	50	24	17.98	17.97	17.98		
20	16QAM	50	50	18.09	18.14	18.07	19.5	0
20	16QAM	100	0	18.06	17.98	18.08		
20	64QAM	1	0	18.05	18.06	17.96		
20	64QAM	1	49	18.09	18.04	18.10	19.5	0
20	64QAM	1	99	18.11	17.99	18.17		
20	64QAM	50	0	18.06	18.08	18.00		
20	64QAM	50	24	18.17	18.20	18.07	19.5	0
20	64QAM	50	50	18.14	18.04	18.16		
20	64QAM	100	0	18.11	18.07	18.05		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	17.99	18.25	18.23	19.5	0
15	QPSK	1	37	18.01	18.07	18.11		
15	QPSK	1	74	18.04	18.08	18.10		
15	QPSK	36	0	18.13	18.17	17.97	19.5	0
15	QPSK	36	20	18.01	17.93	18.05		
15	QPSK	36	39	18.04	18.12	17.98		
15	QPSK	75	0	18.06	18.01	18.02	19.5	0
15	16QAM	1	0	17.96	18.00	17.99		
15	16QAM	1	37	17.92	17.94	17.98		
15	16QAM	1	74	17.98	18.07	17.90	19.5	0
15	16QAM	36	0	18.05	17.96	17.94		
15	16QAM	36	20	17.84	17.91	17.90		
15	16QAM	36	39	17.98	18.01	18.02	19.5	0
15	16QAM	75	0	17.91	17.94	17.95		
15	64QAM	1	0	17.96	18.00	17.90		
15	64QAM	1	37	17.98	17.98	17.96	19.5	0
15	64QAM	1	74	18.05	17.92	18.06		
15	64QAM	36	0	17.94	18.03	17.89		
15	64QAM	36	20	18.08	18.15	17.95	19.5	0
15	64QAM	36	39	18.00	17.98	18.13		
15	64QAM	75	0	17.99	17.94	17.96		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	18.00	18.31	18.15	19.5	0
10	QPSK	1	25	17.94	18.17	18.16		
10	QPSK	1	49	18.07	18.11	18.04		
10	QPSK	25	0	18.09	18.20	17.98	19.5	0
10	QPSK	25	12	18.01	18.02	17.97		
10	QPSK	25	25	17.99	18.13	18.05		
10	QPSK	50	0	18.02	18.06	17.96	19.5	0
10	16QAM	1	0	17.92	17.96	17.89		
10	16QAM	1	25	17.92	17.99	17.95		
10	16QAM	1	49	18.04	17.97	17.89	19.5	0
10	16QAM	25	0	17.98	17.95	17.92		
10	16QAM	25	12	17.87	17.87	17.93		
10	16QAM	25	25	17.95	18.05	17.96	19.5	0
10	16QAM	50	0	18.01	17.90	18.00		
10	64QAM	1	0	17.91	17.95	17.93		
10	64QAM	1	25	18.05	17.99	18.00	19.5	0
10	64QAM	1	49	17.97	17.92	18.06		
10	64QAM	25	0	18.01	17.98	17.88		
10	64QAM	25	12	18.10	18.16	17.96	19.5	0
10	64QAM	25	25	18.04	17.93	18.02		
10	64QAM	50	0	18.00	18.00	17.92		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	17.97	18.27	18.23	19.5	0
5	QPSK	1	12	17.94	18.13	18.07		
5	QPSK	1	24	18.00	18.11	18.01		
5	QPSK	12	0	18.07	18.25	18.01	19.5	0
5	QPSK	12	7	18.03	17.94	18.03		
5	QPSK	12	13	18.00	18.14	18.01		
5	QPSK	25	0	17.95	18.09	17.93	19.5	0
5	16QAM	1	0	17.95	17.98	17.96		
5	16QAM	1	12	17.86	18.01	17.89		
5	16QAM	1	24	17.96	18.02	18.01	19.5	0
5	16QAM	12	0	18.06	17.92	17.89		
5	16QAM	12	7	17.84	17.88	17.87		
5	16QAM	12	13	18.03	18.03	17.99	19.5	0
5	16QAM	25	0	17.99	17.92	17.98		
5	64QAM	1	0	17.92	17.94	17.91		
5	64QAM	1	12	18.03	17.95	18.05	19.5	0
5	64QAM	1	24	18.05	17.95	18.05		
5	64QAM	12	0	18.00	17.96	17.96		
5	64QAM	12	7	18.06	18.13	17.98	19.5	0
5	64QAM	12	13	18.08	17.91	18.04		
5	64QAM	25	0	18.00	18.01	17.95		



Band 4 DSI6 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20380		
Frequency (MHz)								
20	QPSK	1	0	16.16	16.23	16.27		
20	QPSK	1	49	16.21	16.39	16.29	17.5	0
20	QPSK	1	99	16.37	16.30	16.37		
20	QPSK	50	0	16.29	16.33	16.25		
20	QPSK	50	24	16.23	16.19	16.32		
20	QPSK	50	50	16.27	16.29	16.24	17.5	0
20	QPSK	100	0	16.28	16.30	16.25		
20	16QAM	1	0	16.34	16.19	16.28		
20	16QAM	1	49	16.16	16.10	16.22	17.5	0
20	16QAM	1	99	16.26	16.32	16.25		
20	16QAM	50	0	16.24	16.20	16.19		
20	16QAM	50	24	16.10	16.17	16.11		
20	16QAM	50	50	16.27	16.32	16.17	17.5	0
20	16QAM	100	0	16.19	16.07	16.18		
20	64QAM	1	0	16.15	16.10	16.13		
20	64QAM	1	49	16.16	16.13	16.21	17.5	0
20	64QAM	1	99	16.19	16.20	16.22		
20	64QAM	50	0	16.30	16.30	16.18		
20	64QAM	50	24	16.32	16.32	16.21		
20	64QAM	50	50	16.29	16.19	16.25	17.5	0
20	64QAM	100	0	16.27	16.26	16.17		
Channel				20025	20175	20385		
Frequency (MHz)								
15	QPSK	1	0	16.20	16.30	16.26		
15	QPSK	1	37	16.15	16.22	16.28	17.5	0
15	QPSK	1	74	16.25	16.12	16.33		
15	QPSK	36	0	16.20	16.26	16.10		
15	QPSK	36	20	16.14	16.16	16.27		
15	QPSK	36	39	16.09	16.13	16.22	17.5	0
15	QPSK	75	0	16.18	16.22	16.09		
15	16QAM	1	0	16.15	16.12	16.15		
15	16QAM	1	37	16.10	16.03	16.14	17.5	0
15	16QAM	1	74	16.22	16.26	16.21		
15	16QAM	36	0	16.12	16.05	16.06		
15	16QAM	36	20	16.20	16.25	16.10	17.5	0
15	16QAM	36	39	16.21	16.22	16.10		
15	16QAM	75	0	16.20	16.09	16.08		
15	64QAM	1	0	16.04	16.02	16.00		
15	64QAM	1	37	16.10	16.02	16.07	17.5	0
15	64QAM	1	74	16.12	16.09	16.20		
15	64QAM	36	0	16.24	16.18	15.98		
15	64QAM	36	20	16.27	16.23	16.04	17.5	0
15	64QAM	36	39	16.20	16.19	16.02		
15	64QAM	75	0	16.15	16.15	16.06		
Channel				20090	20175	20380		
Frequency (MHz)								
10	QPSK	1	0	16.23	16.43	16.35		
10	QPSK	1	25	16.23	16.25	16.24	17.5	0
10	QPSK	1	49	16.22	16.27	16.25		
10	QPSK	25	0	16.21	16.21	16.21		
10	QPSK	25	12	16.25	16.16	16.12	17.5	0
10	QPSK	25	12	16.25	16.16	16.17		
10	QPSK	50	0	16.21	16.21	16.25		
10	16QAM	1	0	16.15	16.07	16.14		
10	16QAM	1	25	16.10	16.11	16.12	17.5	0
10	16QAM	1	49	16.24	16.24	16.06		
10	16QAM	25	0	16.22	16.17	16.13		
10	16QAM	25	12	16.11	16.08	16.01	17.5	0
10	16QAM	25	12	16.16	16.13	16.08		
10	16QAM	50	0	16.13	16.03	16.10		
10	64QAM	1	0	16.07	16.02	16.17	17.5	0
10	64QAM	1	25	16.21	16.13	16.17		
10	64QAM	1	49	16.15	16.20	16.18		
10	64QAM	25	0	16.07	16.09	16.04		
10	64QAM	25	12	16.21	16.21	16.16	17.5	0
10	64QAM	25	12	16.21	16.19	16.13		
10	64QAM	50	0	16.11	16.09	16.15		
Channel				19975	20175	20375		
Frequency (MHz)								
5	QPSK	1	0	16.25	16.40	16.52		
5	QPSK	1	12	16.19	16.18	16.36	17.5	0
5	QPSK	1	24	16.25	16.30	16.20		
5	QPSK	12	0	16.20	16.29	16.14		
5	QPSK	12	7	16.21	16.12	16.21	17.5	0
5	QPSK	12	13	16.16	16.22	16.23		
5	QPSK	25	0	16.23	16.26	16.03		
5	16QAM	1	0	16.23	16.15	16.12		
5	16QAM	1	12	16.10	16.12	16.16	17.5	0
5	16QAM	1	24	16.21	16.27	16.14		
5	16QAM	12	0	16.07	16.17	16.10		
5	16QAM	12	7	16.11	16.09	15.96	17.5	0
5	16QAM	12	13	16.11	16.20	16.11		
5	16QAM	25	0	16.10	16.03	16.08		
5	64QAM	1	0	16.04	15.93	16.03		
5	64QAM	1	12	16.15	16.09	16.10	17.5	0
5	64QAM	1	24	16.17	16.19	16.19		
5	64QAM	12	0	16.14	16.16	16.12		
5	64QAM	12	7	16.03	16.06	16.08	17.5	0
5	64QAM	12	13	16.10	16.06	16.11		
5	64QAM	25	0	16.28	16.21	16.18		
Channel				19965	20175	20385		
Frequency (MHz)								
3	QPSK	1	0	16.21	16.44	16.27		
3	QPSK	1	8	16.15	16.29	16.28	17.5	0
3	QPSK	1	14	16.25	16.21	16.29		
3	QPSK	8	0	16.16	16.23	16.03		
3	QPSK	8	4	16.19	16.17	16.20	17.5	0
3	QPSK	8	7	16.21	16.17	16.23		
3	QPSK	15	0	16.17	16.20	15.99		
3	16QAM	1	0	16.15	16.08	16.21		
3	16QAM	1	8	16.13	16.07	16.13	17.5	0
3	16QAM	1	14	16.24	16.17	16.10		
3	16QAM	8	0	16.07	16.17	16.12		
3	16QAM	8	4	16.04	16.03	16.10	17.5	0
3	16QAM	8	7	16.19	16.20	16.23		
3	16QAM	15	0	16.11	16.00	16.11		
3	64QAM	1	0	16.04	15.97	16.02		
3	64QAM	1	8	16.11	16.15	16.11	17.5	0
3	64QAM	1	14	16.06	16.14	16.22		
3	64QAM	8	0	16.21	16.11	16.01		
3	64QAM	8	4	16.17	16.33	16.11	17.5	0
3	64QAM	8	7	16.26	16.14	16.14		
3	64QAM	15	0	16.17	16.23	16.06		
Channel				19957	20175	20385		
Frequency (MHz)								
1.4	QPSK	1	0	16.22	16.32	16.34		
1.4	QPSK	1	3	16.16	16.19	16.18	17.5	0
1.4	QPSK	1	5	16.24	16.18	16.20		
1.4	QPSK	3	0	16.20	16.26	16.09		
1.4	QPSK	3	1	16.06	16.16	16.14		
1.4	QPSK	3	3	16.00	16.21	16.21		
1.4	QPSK	6	0	16.10	16.19	16.03	17.5	0
1.4	16QAM	1	0	16.21	16.06	16.14		
1.4	16QAM	1	3	16.03	16.06	16.16		
1.4	16QAM	1	5	16.20	16.14	16.12	17.5	0
1.4	16QAM	3	0	16.10	16.07	16.05		
1.4	16QAM	3	1	16.16	16.06	16.05		
1.4	16QAM	3	3	16.27	16.19	16.02		
1.4	16QAM	6	0	16.17	15.99	16.13	17.5	0
1.4	64QAM	1	0	16.12	16.03	16.19		
1.4	64QAM	1	3	16.10	16.15	16.17		
1.4	64QAM	1	5	16.03	16.06	16.16		
1.4	64QAM	3	0	16.11	16.26	16.05	17.5	0
1.4	64QAM	3	1	16.25	16.32	16.12		
1.4	64QAM	3	3	16.10	16.14	16.16		
1.4	64QAM	6	0	16.20	16.05	16.13	17.5	0

Band 7 DSI6 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)								
20	QPSK	1	0	15.46	15.79	15.83		
20	QPSK	1	49	15.48	15.55	15.37	17	0
20	QPSK	1	99	15.40	15.70	15.44		
20	QPSK	50	0	15.56	15.74	15.56		
20	QPSK	50	24	15.56	15.56	15.44	17	0
20	QPSK	50	50	15.54	15.69	15.57		
20	QPSK	100	0	15.64	15.75	15.61		
20	16QAM	1	0	15.50	15.76	15.50		
20	16QAM	1	49	15.53	15.65	15.49	17	0
20	16QAM	1	99	15.47	15.67	15.39		
20	16QAM	50	0	15.53	15.64	15.71		
20	16QAM	50	24	15.64	15.52	15.56		
20	16QAM	50	50	15.57	15.68	15.39	17	0
20	16QAM	100	0	15.59	15.69	15.53		
20	64QAM	1	0	15.44	15.60	15.56		
20	64QAM	1	49	15.52	15.66	15.53	17	0
20	64QAM	1	99	15.48	15.62	15.56		
20	64QAM	50	0	15.50	15.65	15.64		
20	64QAM	50	24	15.55	15.67	15.55	17	0
20	64QAM	50	50	15.52	15.63	15.43		
20	64QAM	100	0	15.42	15.46	15.38		
Channel				20825	21100	21375		
Frequency (MHz)								
15	QPSK	1	0	15.37	15.74	15.39		
15	QPSK	1	37	15.49	15.56	15.41	17	0
15	QPSK	1	74	15.25	15.72	15.49		
15	QPSK	36	0	15.40	15.74	15.61		
15	QPSK	36	20	15.49	15.57	15.42	17	0
15	QPSK	36	39	15.46	15.72	15.47		
15	QPSK	75	0	15.50	15.61	15.59		

Uplink CA Power

Ant1

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.17	24.00
21100	21298	QPSK	1	99	1	0	22.28	24.00
21350	21152	QPSK	1	0	1	99	22.12	24.00

Ant1

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.27	24.00
37901	38099	QPSK	1	99	1	0	22.45	24.00
38150	37952	QPSK	1	0	1	99	22.31	24.00

Ant1

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.37	24.00
40185	40383	QPSK	1	99	1	0	22.23	24.00
40620	40818	QPSK	1	99	1	0	22.53	24.00
41055	41253	QPSK	1	99	1	0	22.30	24.00
41490	41292	QPSK	1	0	1	99	22.28	24.00

Uplink CA Down Power

Ant1_DS13&7_SA								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	16.73	18.50
21100	21298	QPSK	1	99	1	0	16.94	18.50
21350	21152	QPSK	1	0	1	99	16.75	18.50

Ant1_DS13&7_NSA								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	12.78	14.50
21100	21298	QPSK	1	99	1	0	12.89	14.50
21350	21152	QPSK	1	0	1	99	12.70	14.50

Ant1_DS13&7_SA								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	18.30	20.00
37901	38099	QPSK	1	99	1	0	18.43	20.00
38150	37952	QPSK	1	0	1	99	18.37	20.00

Ant1_DS13&7_NSA								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	14.91	16.50
37901	38099	QPSK	1	99	1	0	14.99	16.50
38150	37952	QPSK	1	0	1	99	14.92	16.50

Ant1_DS13&7_SA								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.44	20.00
40185	40383	QPSK	1	99	1	0	18.23	20.00
40620	40818	QPSK	1	99	1	0	18.53	20.00
41055	41253	QPSK	1	99	1	0	18.28	20.00
41490	41292	QPSK	1	0	1	99	18.3	20.00

Ant1_DS16_SA								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.19	22.50
40185	40383	QPSK	1	99	1	0	21.22	22.50
40620	40818	QPSK	1	99	1	0	21.35	22.50
41055	41253	QPSK	1	99	1	0	21.29	22.50
41490	41292	QPSK	1	0	1	99	21.17	22.50



Ant1 DS16 SA								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.50	21.00
21100	21298	QPSK	1	99	1	0	19.61	21.00
21350	21152	QPSK	1	0	1	99	19.43	21.00

Ant1 DS16 NSA								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	16.52	18.00
21100	21298	QPSK	1	99	1	0	16.53	18.00
21350	21152	QPSK	1	0	1	99	16.44	18.00

Ant1 DS16 SA								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.19	22.50
37901	38099	QPSK	1	99	1	0	21.31	22.50
38150	37952	QPSK	1	0	1	99	21.30	22.50

Ant1 DS16 NSA								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	17.83	19.50
37901	38099	QPSK	1	99	1	0	17.95	19.50
38150	37952	QPSK	1	0	1	99	17.89	19.50



Ant1_DS12_NSA

		CA_7C						
		Combination 20MHz+20MHz (100RB+100RB)						
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.50	21.00
21100	21298	QPSK	1	99	1	0	19.51	21.00
21350	21152	QPSK	1	0	1	99	19.43	21.00



Downlink CA Power

2CA DL

CA List	PCC									SCC					Power	
	LTE Band	BW Ant	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL# RB	UL Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
	Band	Ant	(MHz)	(MHz)	Channel		RB	Offset		Band	(MHz)	(MHz)	Channel			
CA_2C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	22.29	22.34
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		22.37	22.54
	Band 41	Ant1	20M	2593	40620	QPSK	1	0		Band 5	10M	881.5	2525		22.71	22.88
CA_7B	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544.3	3193	4x4MIMO	22.35	22.39
CA_7A-26A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.41	22.50
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.49	22.88
CA_7A-42A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590		22.39	22.50
	Band 42	Ant0	20M	3500	42590	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.73	22.90
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620		22.51	22.58
	Band 41	Ant1	20M	2593	40620	QPSK	1	0		Band 26	15M	876.5	8865		22.76	22.88
CA_38C	Band 38	Ant1	20M	2580	37850	QPSK	1	0		Band 38	20M	2599.8	38048		22.62	22.84
CA_41C	Band 41	Ant1	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	40818		22.73	22.88
CA_41A-42A	Band 41	Ant1	20M	2593	40620	QPSK	1	0		Band 42	20M	3500	42590		22.70	22.88
	Band 42	Ant0	20M	3500	42590	QPSK	1	0		Band 41	20M	2593	40620		22.88	22.90
CA_42C	Band 42	Ant0	20M	3500	42590	QPSK	1	0		Band 42	20M	3519.8	42788		22.76	22.90
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	22.52	22.55
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.46	22.55



3CA DL

3CA List	PCC								SCC1				SCC2				Power					
	LTE Band	BW (MHz)	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL# RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)	
	Ant0	Ant0	Ant0	Ant0	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	Band 2	20M	1960	900	4x4MIMO	22.19
CA_2A-4A-5A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	Band 2	20M	1960	900	4x4MIMO	22.32	22.53		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	Band 7	20M	2554.8	3298	4x4MIMO	22.47	22.54		
CA_2A-4A-7A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.31	22.53	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	Band 7	20M	2554.8	3298	4x4MIMO	22.48	22.50		
CA_2A-7C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.35	22.54	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.35	22.50	
CA_2A-7A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.16	22.34	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.38	22.50	
CA_2A-7A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.10	22.34	
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	2132.5	2175	Band 66	20M	2155	66886	4x4MIMO	22.26	22.50		
CA_2A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.16	22.34	
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.35	22.55	
CA_4A-7C	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.29	22.53	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.40	22.50	
CA_5A-7C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.31	22.54	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.45	22.50	
CA_5A-7A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.46	22.54	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	4x4MIMO	22.39	22.50		
CA_5A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.38	22.55	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.33	22.54	
CA_7A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.31	22.55	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.28	22.50	
CA_7A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.32	22.55	

Full Power Mode

n2 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	24.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	22.27	22.36	22.33	24.0	0.0
20	PI/2 BPSK	1	53	22.45	22.52	22.38		
20	PI/2 BPSK	1	104	22.29	22.40	22.33		
20	PI/2 BPSK	50	0	21.80	21.92	21.78	23.5	0.5
20	PI/2 BPSK	50	28	22.52	22.55	22.49	24.0	0.0
20	PI/2 BPSK	50	56	21.86	21.96	21.88	23.5	0.5
20	PI/2 BPSK	100	0	21.95	22.01	21.92		
20	QPSK	1	1	22.31	22.34	22.41	24.0	0.0
20	QPSK	1	53	22.55	22.58	22.52		
20	QPSK	1	104	22.21	22.32	22.22		
20	QPSK	50	0	21.27	21.41	21.27	23.0	1.0
20	QPSK	50	28	22.42	22.53	22.44	24.0	0.0
20	QPSK	50	56	21.34	21.48	21.34	23.0	1.0
20	QPSK	100	0	21.39	21.50	21.44		
20	16QAM	1	1	21.22	21.32	21.25	23.0	1.0
20	64QAM	1	1	19.72	19.76	19.66	21.5	2.5
20	256QAM	1	1	18.25	18.32	18.27	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	40	22.41	22.47	22.38	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	26	22.50	22.48	22.48	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	13	22.46	22.49	22.40	24.0	0.0

n7 Ant1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.36	22.43	22.32	24.0	0.0
50	PI/2 BPSK	1	135	22.78	22.81	22.76		
50	PI/2 BPSK	1	268	22.54	22.62	22.51		
50	PI/2 BPSK	135	0	22.16	22.19	22.06	23.5	0.5
50	PI/2 BPSK	135	68	22.68	22.80	22.76	24.0	0.0
50	PI/2 BPSK	135	135	22.06	22.16	22.05	23.5	0.5
50	PI/2 BPSK	270	0	22.10	22.23	22.10		
50	QPSK	1	1	22.36	22.42	22.40	24.0	0.0
50	QPSK	1	135	22.71	22.84	22.74		
50	QPSK	1	268	22.49	22.56	22.46		
50	QPSK	135	0	21.55	21.68	21.61	23.0	1.0
50	QPSK	135	68	22.77	22.81	22.73	24.0	0.0
50	QPSK	135	135	21.67	21.76	21.62	23.0	1.0
50	QPSK	270	0	21.59	21.71	21.64		
50	16QAM	1	1	21.44	21.52	21.38	23.0	1.0
50	64QAM	1	1	19.92	19.99	19.94	21.5	2.5
50	256QAM	1	1	18.28	18.33	18.27	19.5	4.5
Channel				504000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2530	2535	2550	(dBm)	(dB)
40	QPSK	1	108	22.68	22.73	22.67	24.0	0.0
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	80	22.55	22.81	22.61	24.0	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	67	22.63	22.73	22.65	24.0	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	QPSK	1	53	22.65	22.74	22.69	24.0	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	40	22.68	22.78	22.62	24.0	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	26	22.54	22.71	22.61	24.0	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	13	22.61	22.79	22.58	24.0	0.0

n78 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		16.79				
100	PI/2 BPSK	1	137		17.86		19.0	0.0	
100	PI/2 BPSK	1	271		16.93				
100	PI/2 BPSK	135	0		16.71		18.5	0.5	
100	PI/2 BPSK	135	69		17.87		19.0	0.0	
100	PI/2 BPSK	135	138		16.86		18.5	0.5	
100	PI/2 BPSK	270	0		16.58				
100	QPSK	1	1		16.84				
100	QPSK	1	137		17.91		19.0	0.0	
100	QPSK	1	271		17.02				
100	QPSK	135	0		16.69		18.0	1.0	
100	QPSK	135	69		17.84		19.0	0.0	
100	QPSK	135	138		16.75		18.0	1.0	
100	QPSK	270	0		16.64				
100	16QAM	1	1		15.54		18.0	1.0	
100	64QAM	1	1		14.08		16.5	2.5	
100	256QAM	1	1		12.99		14.5	4.5	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	17.71	17.88	17.77	19.0	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	17.71	17.88	17.69	19.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	17.88	17.79	17.71	19.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	17.74	17.82	17.79	19.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	17.75	17.83	17.69	19.0	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39	17.80	17.79	17.73	19.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	17.77	17.77	17.71	19.0	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.02	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	17.80	17.86	17.75	19.0	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	17.71	17.87	17.70	19.0	0.0	

n78 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		16.80				
100	PI/2 BPSK	1	137		17.76		19.0	0.0	
100	PI/2 BPSK	1	271		16.68				
100	PI/2 BPSK	135	0		17.13		18.5	0.5	
100	PI/2 BPSK	135	69		17.78		19.0	0.0	
100	PI/2 BPSK	135	138		17.01		18.5	0.5	
100	PI/2 BPSK	270	0		17.04				
100	QPSK	1	1		16.79				
100	QPSK	1	137		17.82		19.0	0.0	
100	QPSK	1	271		16.67				
100	QPSK	135	0		16.60		18.0	1.0	
100	QPSK	135	69		17.72		19.0	0.0	
100	QPSK	135	138		16.49		18.0	1.0	
100	QPSK	270	0		16.56				
100	16QAM	1	1		15.55		18.0	1.0	
100	64QAM	1	1		14.02		16.5	2.5	
100	256QAM	1	1		12.99		14.5	4.5	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123		17.63	17.71	17.64	19.0	0.0
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109		17.68	17.73	17.64	19.0	0.0
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81		17.82	17.71	17.57	19.0	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67		17.68	17.73	17.67	19.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53		17.61	17.73	17.59	19.0	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39		17.62	17.73	17.65	19.0	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26		17.54	17.67	17.53	19.0	0.0
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19		17.70	17.74	17.61	19.0	0.0
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12		17.65	17.78	17.65	19.0	0.0



n7 Ant4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.49	22.66	22.59		
50	PI/2 BPSK	1	135	22.97	23.08	23.04	24.0	0.0
50	PI/2 BPSK	1	268	22.81	22.84	22.71		
50	PI/2 BPSK	135	0	22.48	22.65	22.55	23.5	0.5
50	PI/2 BPSK	135	68	22.94	23.03	22.97	24.0	0.0
50	PI/2 BPSK	135	135	22.60	22.69	22.54		
50	PI/2 BPSK	270	0	22.56	22.62	22.45	23.5	0.5
50	QPSK	1	1	22.59	22.62	22.58		
50	QPSK	1	135	23.00	23.11	22.98	24.0	0.0
50	QPSK	1	268	22.63	22.79	22.68		
50	QPSK	135	0	22.11	22.14	22.00	23.0	1.0
50	QPSK	135	68	23.04	23.09	22.94	24.0	0.0
50	QPSK	135	135	21.94	22.05	21.98	23.0	1.0
50	QPSK	270	0	22.01	22.14	22.07		
50	16QAM	1	1	21.77	21.88	21.74	23.0	1.0
50	64QAM	1	1	20.24	20.30	20.21	21.5	2.5
50	256QAM	1	1	18.55	18.66	18.57	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550	24.0	0.0
40	QPSK	1	108	22.85	23.02	22.90		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	24.0	0.0
30	QPSK	1	80	22.85	23.02	22.92		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0
25	QPSK	1	67	22.95	23.05	22.92		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	24.0	0.0
20	QPSK	1	53	22.85	22.94	22.92		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	40	22.80	22.98	22.89		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	26	22.95	22.94	22.93		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	13	22.94	22.95	22.90		

n66 Ant4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	22.20	22.28	22.16		
40	PI/2 BPSK	1	108	22.78	22.87	22.79	24.0	0.0
40	PI/2 BPSK	1	214	22.09	22.26	22.17		
40	PI/2 BPSK	108	0	22.21	22.24	22.09	23.5	0.5
40	PI/2 BPSK	108	54	22.79	22.82	22.70	24.0	0.0
40	PI/2 BPSK	108	108	22.10	22.23	22.09		
40	PI/2 BPSK	216	0	22.13	22.20	22.06	23.5	0.5
40	QPSK	1	1	22.23	22.24	22.16		
40	QPSK	1	108	22.81	22.89	22.82	24.0	0.0
40	QPSK	1	214	22.01	22.17	22.01		
40	QPSK	108	0	21.71	21.73	21.66	23.0	1.0
40	QPSK	108	54	22.74	22.85	22.73	24.0	0.0
40	QPSK	108	108	21.63	21.71	21.69	23.0	1.0
40	QPSK	216	0	21.56	21.68	21.59		
40	16QAM	1	1	21.18	21.30	21.24	23.0	1.0
40	64QAM	1	1	19.66	19.74	19.59	21.5	2.5
40	256QAM	1	1	18.16	18.32	18.25	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	24.0	0.0
30	QPSK	1	80	22.69	22.78	22.73		
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0
25	QPSK	1	67	22.71	22.87	22.73		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	24.0	0.0
20	QPSK	1	53	22.78	22.85	22.73		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0
15	QPSK	1	40	22.65	22.82	22.71		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	24.0	0.0
10	QPSK	1	26	22.75	22.83	22.86		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0
5	QPSK	1	13	22.72	22.73	22.80		

n78 Ant5								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	21.65			24.0	0.0
100	PI/2 BPSK	1	137	22.70				
100	PI/2 BPSK	1	271	21.67				
100	PI/2 BPSK	135	0	22.03			23.5	0.5
100	PI/2 BPSK	135	69	22.72			24.0	0.0
100	PI/2 BPSK	135	138	21.96				
100	PI/2 BPSK	270	0	22.02			23.5	0.5
100	QPSK	1	1	21.62				
100	QPSK	1	137	22.74			24.0	0.0
100	QPSK	1	271	21.69				
100	QPSK	135	0	21.48			23.0	1.0
100	QPSK	135	69	22.68			24.0	0.0
100	QPSK	135	138	21.53				
100	QPSK	270	0	21.49			23.0	1.0
100	16QAM	1	1	20.59			23.0	1.0
100	64QAM	1	1	19.14			21.5	2.5
100	256QAM	1	1	17.86			19.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	22.56	22.59	22.52	24.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	22.54	22.68	22.61	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	22.63	22.71	22.57	24.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	22.57	22.60	22.54	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	22.56	22.68	22.65	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	22.56	22.59	22.55	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	22.63	22.67	22.64	24.0	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	22.50	22.60	22.46	24.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	22.57	22.68	22.56	24.0	0.0

n78 Ant7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	20.13	20.17	20.05	21.5	0.0
100	PI/2 BPSK	1	137		20.29			
100	PI/2 BPSK	1	271		19.55			
100	PI/2 BPSK	135	0		19.65		21.0	0.5
100	PI/2 BPSK	135	69		20.24		21.5	0.0
100	PI/2 BPSK	135	138		19.72		21.0	0.5
100	PI/2 BPSK	270	0		19.59			
100	QPSK	1	1		19.05			
100	QPSK	1	137		20.32		21.5	0.0
100	QPSK	1	271		19.48			
100	QPSK	135	0		19.08		20.5	1.0
100	QPSK	135	69		20.31		21.5	0.0
100	QPSK	135	138		19.24		20.5	1.0
100	QPSK	270	0		19.12			
100	16QAM	1	1		17.85		20.5	1.0
100	64QAM	1	1		16.34		19.0	2.5
100	256QAM	1	1		15.32		17.0	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	20.13	20.17	20.05	21.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	20.18	20.24	20.13	21.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	20.08	20.19	20.11	21.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	20.10	20.17	20.08	21.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	20.18	20.28	20.20	21.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	20.08	20.23	20.15	21.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	20.19	20.26	20.13	21.5	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	20.18	20.27	20.22	21.5	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	20.09	20.22	20.08	21.5	0.0



Reduced Power Mode for DSI2

n7 DSI2 Ant4 NSA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	12.83	12.89	12.77			
50	PI/2 BPSK	1	135	13.42	13.46	13.37	14.5	0.0	
50	PI/2 BPSK	1	268	12.91	13.05	12.90			
50	PI/2 BPSK	135	0	13.27	13.42	13.30	14.5	0.0	
50	PI/2 BPSK	135	68	13.39	13.47	13.39	14.5	0.0	
50	PI/2 BPSK	135	135	13.30	13.35	13.28	14.5	0.0	
50	PI/2 BPSK	270	0	13.23	13.36	13.30			
50	QPSK	1	1	12.77	12.88	12.80			
50	QPSK	1	135	13.44	13.58	13.41	14.5	0.0	
50	QPSK	1	268	13.05	13.12	13.03			
50	QPSK	135	0	13.32	13.46	13.36	14.5	0.0	
50	QPSK	135	68	13.50	13.54	13.47	14.5	0.0	
50	QPSK	135	135	13.31	13.40	13.37			
50	QPSK	270	0	13.46	13.51	13.48	14.5	0.0	
50	16QAM	1	1	12.98	13.03	12.90	14.5	0.0	
50	64QAM	1	1	13.02	13.09	12.99	14.5	0.0	
50	256QAM	1	1	13.22	13.28	13.20	14.5	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	108	13.38	13.54	13.36	14.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	80	13.40	13.43	13.29	14.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	67	13.36	13.53	13.30	14.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	53	13.33	13.46	13.33	14.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	40	13.41	13.48	13.33	14.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	26	13.39	13.45	13.33	14.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	13	13.34	13.52	13.35	14.5	0.0	

n66 DSI2 Ant4 NSA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	14.67	14.72	14.59			
40	PI/2 BPSK	1	108	15.10	15.24	15.18	16.5	0.0	
40	PI/2 BPSK	1	214	14.61	14.74	14.62			
40	PI/2 BPSK	108	0	15.02	15.17	15.10	16.5	0.0	
40	PI/2 BPSK	108	54	15.10	15.23	15.08	16.5	0.0	
40	PI/2 BPSK	108	108	15.12	15.19	15.09	16.5	0.0	
40	PI/2 BPSK	216	0	14.99	15.13	15.00			
40	QPSK	1	1	14.63	14.71	14.59			
40	QPSK	1	108	15.20	15.32	15.18	16.5	0.0	
40	QPSK	1	214	14.64	14.67	14.61			
40	QPSK	108	0	15.15	15.22	15.14	16.5	0.0	
40	QPSK	108	54	15.26	15.30	15.20	16.5	0.0	
40	QPSK	108	108	15.16	15.26	15.19	16.5	0.0	
40	QPSK	216	0	15.18	15.23	15.18			
40	16QAM	1	1	14.64	14.69	14.60	16.5	0.0	
40	64QAM	1	1	14.54	14.66	14.58	16.5	0.0	
40	256QAM	1	1	15.03	15.15	15.08	16.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	80	15.17	15.18	15.14	16.5	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	67	15.08	15.28	15.06	16.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	53	15.10	15.25	15.10	16.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	40	15.06	15.27	15.03	16.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	26	15.15	15.17	15.10	16.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	13	15.13	15.25	15.05	16.5	0.0	



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Channel	BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)					633334	633334	633334		
100	100	PI/2 BPSK	1	1	17.56	17.56	17.56		
100	100	PI/2 BPSK	1	137	18.22	18.22	18.22	19.5	0.0
100	100	PI/2 BPSK	1	271	17.52	17.52	17.52		
100	100	PI/2 BPSK	135	0	18.13	18.13	18.13	19.5	0.0
100	100	PI/2 BPSK	135	69	18.21	18.21	18.21	19.5	0.0
100	100	PI/2 BPSK	135	138	18.08	18.08	18.08	19.5	0.0
100	100	PI/2 BPSK	270	0	18.13	18.13	18.13		
100	100	QPSK	1	1	17.57	17.57	17.57		
100	100	QPSK	1	137	18.29	18.29	18.29	19.5	0.0
100	100	QPSK	1	271	17.51	17.51	17.51		
100	100	QPSK	135	0	18.14	18.14	18.14	19.5	0.0
100	100	QPSK	135	69	18.25	18.25	18.25	19.5	0.0
100	100	QPSK	135	138	18.08	18.08	18.08	19.5	0.0
100	100	QPSK	270	0	18.12	18.12	18.12		
100	100	16QAM	1	1	17.83	17.83	17.83	19.5	0.0
100	100	64QAM	1	1	17.60	17.60	17.60	19.5	0.0
100	100	256QAM	1	1	17.77	17.77	17.77	19.5	0.0
Channel									
Frequency (MHz)					3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
90	90	QPSK	1	123	18.11	18.17	18.20	19.5	0.0
Channel									
Frequency (MHz)					632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	80	QPSK	1	109	3490.02	3500.01	3510	19.5	0.0
Channel									
Frequency (MHz)					18.09	18.23	18.17	Tune-up limit (dBm)	MPR (dB)
60	60	QPSK	1	81	632000	633334	634668	19.5	0.0
Channel									
Frequency (MHz)					3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
50	50	QPSK	1	67	18.12	18.17	18.14	19.5	0.0
Channel									
Frequency (MHz)					631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
40	40	QPSK	1	53	3475.02	3500.01	3525	19.5	0.0
Channel									
Frequency (MHz)					18.16	18.24	18.16	Tune-up limit (dBm)	MPR (dB)
30	30	QPSK	1	39	631334	633334	635334	19.5	0.0
Channel									
Frequency (MHz)					3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
20	20	QPSK	1	26	18.11	18.20	18.22	19.5	0.0
Channel									
Frequency (MHz)					631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
15	15	QPSK	1	19	3465	3500.01	3535.02	19.5	0.0
Channel									
Frequency (MHz)					630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
10	10	QPSK	1	12	3460.02	3500.01	3540	19.5	0.0
Channel									
Frequency (MHz)					630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
10	10	QPSK	1	12	3457.5	3500.01	3542.52	19.5	0.0
Channel									
Frequency (MHz)					18.10	18.15	18.19	Tune-up limit (dBm)	MPR (dB)
10	10	QPSK	1	12	630334	633334	636334	19.5	0.0
Channel									
Frequency (MHz)					3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)
10	10	QPSK	1	12	18.06	18.16	18.20	19.5	0.0

n78 DSI2 Ant5 NSA								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	14.51	14.08		16.0	0.0
100	PI/2 BPSK	1	137		14.59			
100	PI/2 BPSK	1	271		14.02			
100	PI/2 BPSK	135	0		14.55		16.0	0.0
100	PI/2 BPSK	135	69		14.61		16.0	0.0
100	PI/2 BPSK	135	138		14.43		16.0	0.0
100	PI/2 BPSK	270	0		14.49			
100	QPSK	1	1		14.12			
100	QPSK	1	137		14.68		16.0	0.0
100	QPSK	1	271		14.03			
100	QPSK	135	0		14.61		16.0	0.0
100	QPSK	135	69		14.64		16.0	0.0
100	QPSK	135	138		14.45		16.0	0.0
100	QPSK	270	0		14.51			
100	16QAM	1	1		14.03		16.0	0.0
100	64QAM	1	1		14.01		16.0	0.0
100	256QAM	1	1		14.13		16.0	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	14.54	14.54	14.49	16.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	14.59	14.55	14.57	16.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	14.51	14.57	14.56	16.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	14.49	14.63	14.55	16.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	14.53	14.58	14.57	16.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	14.49	14.57	14.55	16.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	14.55	14.62	14.50	16.0	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	14.51	14.62	14.51	16.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	14.49	14.54	14.60	16.0	0.0

n78 DSI2 Ant7 SA								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
100	PI/2 BPSK	1	1	18.06	18.06	18.06	20.0	0.0
100	PI/2 BPSK	1	137	18.96	18.96	18.96	20.0	0.0
100	PI/2 BPSK	1	271	18.13	18.13	18.13	20.0	0.0
100	PI/2 BPSK	135	0	18.69	18.69	18.69	20.0	0.0
100	PI/2 BPSK	135	69	18.89	18.89	18.89	20.0	0.0
100	PI/2 BPSK	135	138	18.87	18.87	18.87	20.0	0.0
100	PI/2 BPSK	270	0	18.82	18.82	18.82	20.0	0.0
100	QPSK	1	1	18.02	18.02	18.02	20.0	0.0
100	QPSK	1	137	18.99	18.99	18.99	20.0	0.0
100	QPSK	1	271	18.21	18.21	18.21	20.0	0.0
100	QPSK	135	0	18.72	18.72	18.72	20.0	0.0
100	QPSK	135	69	18.95	18.95	18.95	20.0	0.0
100	QPSK	135	138	18.87	18.87	18.87	20.0	0.0
100	QPSK	270	0	18.83	18.83	18.83	20.0	0.0
100	16QAM	1	1	18.11	18.11	18.11	20.0	0.0
100	64QAM	1	1	17.05	17.05	17.05	19.0	1.0
100	256QAM	1	1	15.61	15.61	15.61	17.0	3.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	123	18.81	18.91	18.83	20.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	18.90	18.93	18.84	20.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	18.88	18.90	18.87	20.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	18.87	18.88	18.87	20.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	18.89	18.84	18.91	20.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	18.88	18.93	18.89	20.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	18.85	18.88	18.89	20.0	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	18.86	18.85	18.84	20.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	18.89	18.84	18.83	20.0	0.0

Reduced Power Mode for DSI7

n2 DSI7 Ant0 NSA								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	12.08	12.16	12.01	14.0	0.0
20	PI/2 BPSK	1	53	12.38	12.49	12.34		
20	PI/2 BPSK	1	104	12.49	12.52	12.42		
20	PI/2 BPSK	50	0	12.46	12.54	12.40	14.0	0.0
20	PI/2 BPSK	50	28	12.50	12.61	12.46	14.0	0.0
20	PI/2 BPSK	50	56	12.51	12.57	12.43	14.0	0.0
20	PI/2 BPSK	100	0	12.53	12.60	12.57		
20	QPSK	1	1	12.16	12.27	12.13	14.0	0.0
20	QPSK	1	53	12.61	12.71	12.65		
20	QPSK	1	104	12.36	12.45	12.38		
20	QPSK	50	0	12.45	12.53	12.40	14.0	0.0
20	QPSK	50	28	12.55	12.65	12.56	14.0	0.0
20	QPSK	50	56	12.58	12.62	12.57	14.0	0.0
20	QPSK	100	0	12.44	12.57	12.44		
20	16QAM	1	1	12.11	12.26	12.19	14.0	0.0
20	64QAM	1	1	12.21	12.32	12.23	14.0	0.0
20	256QAM	1	1	12.24	12.38	12.32	14.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	40	12.50	12.63	12.60	14.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	26	12.55	12.67	12.62	14.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	13	12.47	12.61	12.62	14.0	0.0

n7 DSI7 Ant1 SA

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	505000	507000	509000					
Frequency (MHz)	2525	2535	2545					
50	PI/2 BPSK	1	1	17.18	17.23	17.14	19.0	0.0
50	PI/2 BPSK	1	135	17.81	17.84	17.72		
50	PI/2 BPSK	1	268	17.56	17.69	17.64		
50	PI/2 BPSK	135	0	17.70	17.76	17.63	19.0	0.0
50	PI/2 BPSK	135	68	17.73	17.81	17.67	19.0	0.0
50	PI/2 BPSK	135	135	17.69	17.76	17.62	19.0	0.0
50	PI/2 BPSK	270	0	17.67	17.80	17.75		
50	QPSK	1	1	17.23	17.29	17.16	19.0	0.0
50	QPSK	1	135	17.85	17.82	17.81		
50	QPSK	1	268	17.68	17.71	17.62		
50	QPSK	135	0	17.67	17.82	17.76	19.0	0.0
50	QPSK	135	68	17.84	17.87	17.79	19.0	0.0
50	QPSK	135	135	17.75	17.82	17.74	19.0	0.0
50	QPSK	270	0	17.81	17.85	17.79		
50	16QAM	1	1	17.20	17.32	17.29	19.0	0.0
50	64QAM	1	1	17.31	17.39	17.24	19.0	0.0
50	256QAM	1	1	17.35	17.46	17.38	19.0	0.0
Channel	504000	507000	510000					
Frequency (MHz)	2520	2535	2550	Tune-up limit (dBm)	MPR (dB)			
40	QPSK	1	108	17.74	17.86	17.78	19.0	0.0
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555	Tune-up limit (dBm)	MPR (dB)			
30	QPSK	1	80	17.80	17.81	17.72	19.0	0.0
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5	Tune-up limit (dBm)	MPR (dB)			
25	QPSK	1	67	17.72	17.83	17.76	19.0	0.0
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560	Tune-up limit (dBm)	MPR (dB)			
20	QPSK	1	53	17.80	17.88	17.67	19.0	0.0
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	40	17.77	17.79	17.69	19.0	0.0
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	26	17.75	17.87	17.66	19.0	0.0
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	13	17.70	17.80	17.74	19.0	0.0



n7 DSI7 Ant4 NSA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	10.70	10.79	10.57			
50	PI/2 BPSK	1	135	11.34	11.38	11.26	12.5	0.0	
50	PI/2 BPSK	1	268	10.88	10.97	10.94			
50	PI/2 BPSK	135	0	11.14	11.33	11.18	12.5	0.0	
50	PI/2 BPSK	135	68	11.26	11.42	11.29	12.5	0.0	
50	PI/2 BPSK	135	135	11.08	11.26	11.18			
50	PI/2 BPSK	270	0	11.13	11.23	11.24	12.5	0.0	
50	QPSK	1	1	10.76	10.84	10.82			
50	QPSK	1	135	11.25	11.45	11.39	12.5	0.0	
50	QPSK	1	268	11.00	11.11	10.94			
50	QPSK	135	0	11.32	11.27	11.22	12.5	0.0	
50	QPSK	135	68	11.23	11.39	11.30	12.5	0.0	
50	QPSK	135	135	11.28	11.34	11.28			
50	QPSK	270	0	11.29	11.37	11.28	12.5	0.0	
50	16QAM	1	1	10.80	10.99	10.77	12.5	0.0	
50	64QAM	1	1	11.05	11.09	11.00	12.5	0.0	
50	256QAM	1	1	11.12	11.10	11.03	12.5	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	12.5	0.0	
40	QPSK	1	108	11.12	11.42	11.30			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	12.5	0.0	
30	QPSK	1	80	11.20	11.35	11.32			
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	12.5	0.0	
25	QPSK	1	67	11.19	11.39	11.29			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	12.5	0.0	
20	QPSK	1	53	11.15	11.34	11.32			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	12.5	0.0	
15	QPSK	1	40	11.21	11.40	11.31			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	12.5	0.0	
10	QPSK	1	26	11.13	11.31	11.28			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	12.5	0.0	
5	QPSK	1	13	11.20	11.35	11.29			

n66 DSI7 Ant4 NSA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	13.17	13.22	13.09			
40	PI/2 BPSK	1	108	13.60	13.74	13.68	15.0	0.0	
40	PI/2 BPSK	1	214	13.11	13.24	13.12			
40	PI/2 BPSK	108	0	13.52	13.67	13.60	15.0	0.0	
40	PI/2 BPSK	108	54	13.60	13.73	13.58	15.0	0.0	
40	PI/2 BPSK	108	108	13.62	13.69	13.59			
40	PI/2 BPSK	216	0	13.49	13.63	13.50	15.0	0.0	
40	QPSK	1	1	13.13	13.21	13.09			
40	QPSK	1	108	13.70	13.82	13.68	15.0	0.0	
40	QPSK	1	214	13.14	13.17	13.11			
40	QPSK	108	0	13.65	13.72	13.64	15.0	0.0	
40	QPSK	108	54	13.76	13.80	13.70	15.0	0.0	
40	QPSK	108	108	13.66	13.76	13.69			
40	QPSK	216	0	13.68	13.73	13.68	15.0	0.0	
40	16QAM	1	1	13.14	13.19	13.10	15.0	0.0	
40	64QAM	1	1	13.04	13.16	13.08	15.0	0.0	
40	256QAM	1	1	13.53	13.65	13.58	15.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	15.0	0.0	
30	QPSK	1	80	13.67	13.88	13.64			
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	15.0	0.0	
25	QPSK	1	67	13.58	13.78	13.56			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	15.0	0.0	
20	QPSK	1	53	13.60	13.75	13.60			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	15.0	0.0	
15	QPSK	1	40	13.56	13.77	13.53			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	15.0	0.0	
10	QPSK	1	26	13.65	13.87	13.60			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	15.0	0.0	
5	QPSK	1	13	13.63	13.75	13.55			



n78 DSI7 Ant5 SA

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel	633000	633334	633668				
Frequency (MHz)	3495	3500.01	3505.02				
100	1	1	16.63				
100	1	137	17.22	18.5	0.0		
100	1	271	16.59				
100	135	0	17.20	18.5	0.0		
100	135	69	17.18	18.5	0.0		
100	135	138	17.08	18.5	0.0		
100	270	0	17.18				
100	1	1	16.55				
100	1	137	17.24	18.5	0.0		
100	1	271	16.53				
100	135	0	17.17	18.5	0.0		
100	135	69	17.20	18.5	0.0		
100	135	138	17.04	18.5	0.0		
100	270	0	17.16				
100	16QAM	1	1	16.85	18.5	0.0	
100	64QAM	1	1	16.64	18.5	0.0	
100	256QAM	1	1	16.74	18.5	0.0	
Channel	633000	633334	633668				
Frequency (MHz)	3495	3500.01	3505.02				
90	1	123	17.11	17.19	17.15	18.5	0.0
Channel	632668	633334	634000				
Frequency (MHz)	3490.02	3500.01	3510				
80	1	109	17.18	17.09	17.19	18.5	0.0
Channel	632000	633334	634668				
Frequency (MHz)	3480	3500.01	3520.02				
60	1	81	17.11	17.14	17.14	18.5	0.0
Channel	631668	633334	635000				
Frequency (MHz)	3475.02	3500.01	3525				
50	1	67	17.16	17.14	17.10	18.5	0.0
Channel	631334	633334	635334				
Frequency (MHz)	3470.01	3500.01	3530.01				
40	1	53	17.15	17.12	17.15	18.5	0.0
Channel	631000	633334	635668				
Frequency (MHz)	3465	3500.01	3535.02				
30	1	39	17.17	17.19	17.12	18.5	0.0
Channel	630668	633334	636000				
Frequency (MHz)	3460.02	3500.01	3540				
20	1	26	17.10	17.20	17.14	18.5	0.0
Channel	630500	633334	636168				
Frequency (MHz)	3457.5	3500.01	3542.52				
15	1	19	17.17	17.12	17.20	18.5	0.0
Channel	630334	633334	636334				
Frequency (MHz)	3455.01	3500.01	3545.01				
10	1	12	17.11	17.11	17.14	18.5	0.0

n78 DSI7 Ant5 NSA								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	14.04	14.04	13.99	15.5	0.0
100	PI/2 BPSK	1	137					
100	PI/2 BPSK	1	271					
100	PI/2 BPSK	135	0					
100	PI/2 BPSK	135	69					
100	PI/2 BPSK	135	138					
100	PI/2 BPSK	270	0					
100	QPSK	1	1					
100	QPSK	1	137					
100	QPSK	1	271					
100	QPSK	135	0					
100	QPSK	135	69					
100	QPSK	135	138					
100	QPSK	270	0					
100	16QAM	1	1					
100	64QAM	1	1					
100	256QAM	1	1					
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	14.04	14.04	13.99	15.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	14.09	14.05	14.07	15.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	14.01	14.07	14.06	15.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	13.99	14.13	14.05	15.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	14.03	14.08	14.07	15.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	13.99	14.07	14.05	15.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	14.05	14.12	14.00	15.5	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	14.01	14.12	14.01	15.5	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	13.99	14.04	14.10	15.5	0.0

Reduced Power Mode for DSI3

n2 DSI3 Ant0 NSA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	12.08	12.16	12.01	14.0	0.0	
20	PI/2 BPSK	1	53	12.38	12.49	12.34			
20	PI/2 BPSK	1	104	12.49	12.52	12.42			
20	PI/2 BPSK	50	0	12.46	12.54	12.40	14.0	0.0	
20	PI/2 BPSK	50	28	12.50	12.61	12.46	14.0	0.0	
20	PI/2 BPSK	50	56	12.51	12.57	12.43	14.0	0.0	
20	PI/2 BPSK	100	0	12.53	12.60	12.57			
20	QPSK	1	1	12.16	12.27	12.13			
20	QPSK	1	53	12.61	12.71	12.65	14.0	0.0	
20	QPSK	1	104	12.36	12.45	12.38			
20	QPSK	50	0	12.45	12.53	12.40			
20	QPSK	50	28	12.55	12.65	12.56	14.0	0.0	
20	QPSK	50	56	12.58	12.62	12.57	14.0	0.0	
20	QPSK	100	0	12.44	12.57	12.44			
20	QPSK	100	0	12.44	12.57	12.44			
20	16QAM	1	1	12.11	12.26	12.19	14.0	0.0	
20	64QAM	1	1	12.21	12.32	12.23	14.0	0.0	
20	256QAM	1	1	12.24	12.38	12.32	14.0	0.0	
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	40	12.50	12.63	12.60	14.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	26	12.55	12.67	12.62	14.0	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	13	12.47	12.61	12.62	14.0	0.0	

n7 DSI3 Ant1 SA

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	505000	507000	509000					
Frequency (MHz)	2525	2535	2545					
50	PI/2 BPSK	1	1	17.18	17.23	17.14	19.0	0.0
50	PI/2 BPSK	1	135	17.81	17.84	17.72		
50	PI/2 BPSK	1	268	17.56	17.69	17.64		
50	PI/2 BPSK	135	0	17.70	17.76	17.63	19.0	0.0
50	PI/2 BPSK	135	68	17.73	17.81	17.67	19.0	0.0
50	PI/2 BPSK	135	135	17.69	17.76	17.62	19.0	0.0
50	PI/2 BPSK	270	0	17.67	17.80	17.75		
50	QPSK	1	1	17.23	17.29	17.16	19.0	0.0
50	QPSK	1	135	17.85	17.82	17.81		
50	QPSK	1	268	17.68	17.71	17.62		
50	QPSK	135	0	17.67	17.82	17.76	19.0	0.0
50	QPSK	135	68	17.84	17.87	17.79	19.0	0.0
50	QPSK	135	135	17.75	17.82	17.74	19.0	0.0
50	QPSK	270	0	17.81	17.85	17.79		
50	16QAM	1	1	17.20	17.32	17.29	19.0	0.0
50	64QAM	1	1	17.31	17.39	17.24	19.0	0.0
50	256QAM	1	1	17.35	17.46	17.38	19.0	0.0
Channel	504000	507000	510000					
Frequency (MHz)	2520	2535	2550	Tune-up limit (dBm)	MPR (dB)			
40	QPSK	1	108	17.74	17.86	17.78	19.0	0.0
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555	Tune-up limit (dBm)	MPR (dB)			
30	QPSK	1	80	17.80	17.81	17.72	19.0	0.0
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5	Tune-up limit (dBm)	MPR (dB)			
25	QPSK	1	67	17.72	17.83	17.76	19.0	0.0
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560	Tune-up limit (dBm)	MPR (dB)			
20	QPSK	1	53	17.80	17.88	17.67	19.0	0.0
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	40	17.77	17.79	17.69	19.0	0.0
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	26	17.75	17.87	17.66	19.0	0.0
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	13	17.70	17.80	17.74	19.0	0.0



n7 DSI3 Ant4 NSA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	11.19	11.24	11.12		
50	PI/2 BPSK	1	135	11.80	11.85	11.80	12.5	0.0
50	PI/2 BPSK	1	268	11.31	11.43	11.39		
50	PI/2 BPSK	135	0	11.66	11.79	11.68	12.5	0.0
50	PI/2 BPSK	135	68	11.79	11.88	11.78	12.5	0.0
50	PI/2 BPSK	135	135	11.58	11.70	11.66		
50	PI/2 BPSK	270	0	11.66	11.76	11.67	12.5	0.0
50	QPSK	1	1	11.22	11.32	11.28		
50	QPSK	1	135	11.78	11.92	11.83	12.5	0.0
50	QPSK	1	268	11.53	11.56	11.42		
50	QPSK	135	0	11.77	11.81	11.70	12.5	0.0
50	QPSK	135	68	11.86	11.89	11.78	12.5	0.0
50	QPSK	135	135	11.80	11.85	11.77		
50	QPSK	270	0	11.74	11.88	11.76	12.5	0.0
50	16QAM	1	1	11.35	11.45	11.31	12.5	0.0
50	64QAM	1	1	11.50	11.53	11.47	12.5	0.0
50	256QAM	1	1	11.57	11.64	11.60	12.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2529	2535	2550	12.5	0.0
40	QPSK	1	108	11.74	11.84	11.71		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	12.5	0.0
30	QPSK	1	80	11.74	11.87	11.83		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	12.5	0.0
25	QPSK	1	67	11.69	11.88	11.77		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	12.5	0.0
20	QPSK	1	53	11.66	11.80	11.71		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	12.5	0.0
15	QPSK	1	40	11.67	11.87	11.77		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	12.5	0.0
10	QPSK	1	26	11.72	11.79	11.78		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	12.5	0.0
5	QPSK	1	13	11.69	11.78	11.77		

n66 DSI3 Ant4 NSA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.06	15.11	15.02		
40	PI/2 BPSK	1	108	15.69	15.72	15.58	17.0	0.0
40	PI/2 BPSK	1	214	15.12	15.16	15.06		
40	PI/2 BPSK	108	0	15.57	15.69	15.65	17.0	0.0
40	PI/2 BPSK	108	54	15.67	15.79	15.74	17.0	0.0
40	PI/2 BPSK	108	108	15.50	15.64	15.51		
40	PI/2 BPSK	216	0	15.53	15.68	15.54	17.0	0.0
40	QPSK	1	1	15.07	15.17	15.10		
40	QPSK	1	108	15.73	15.85	15.78	17.0	0.0
40	QPSK	1	214	15.16	15.21	15.08		
40	QPSK	108	0	15.59	15.66	15.61	17.0	0.0
40	QPSK	108	54	15.73	15.80	15.71	17.0	0.0
40	QPSK	108	108	15.57	15.67	15.57		
40	QPSK	216	0	15.64	15.71	15.67	17.0	0.0
40	16QAM	1	1	15.22	15.29	15.24	17.0	0.0
40	64QAM	1	1	15.12	15.23	15.09	17.0	0.0
40	256QAM	1	1	15.52	15.56	15.48	17.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	17.0	0.0
30	QPSK	1	80	15.68	15.78	15.67		
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5	17.0	0.0
25	QPSK	1	67	15.62	15.71	15.73		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	17.0	0.0
20	QPSK	1	53	15.61	15.80	15.63		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	17.0	0.0
15	QPSK	1	40	15.61	15.72	15.72		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	17.0	0.0
10	QPSK	1	26	15.64	15.77	15.66		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	17.0	0.0
5	QPSK	1	13	15.66	15.74	15.64		

n78 DSI3 Ant5 SA								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	17.11	17.19	17.15	18.5	0.0
100	PI/2 BPSK	1	137	17.22				
100	PI/2 BPSK	1	271	16.59				
100	PI/2 BPSK	135	0	17.20			18.5	0.0
100	PI/2 BPSK	135	69	17.18			18.5	0.0
100	PI/2 BPSK	135	138	17.08			18.5	0.0
100	PI/2 BPSK	270	0	17.18				
100	QPSK	1	1	16.55				
100	QPSK	1	137	17.24			18.5	0.0
100	QPSK	1	271	16.53				
100	QPSK	135	0	17.17			18.5	0.0
100	QPSK	135	69	17.20			18.5	0.0
100	QPSK	135	138	17.04			18.5	0.0
100	QPSK	270	0	17.16				
100	16QAM	1	1	16.85			18.5	0.0
100	64QAM	1	1	16.64			18.5	0.0
100	256QAM	1	1	16.74			18.5	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	17.11	17.19	17.15	18.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	17.18	17.09	17.19	18.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	17.11	17.14	17.14	18.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	17.16	17.14	17.10	18.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	17.15	17.12	17.15	18.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	17.17	17.19	17.12	18.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	17.10	17.20	17.14	18.5	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	17.17	17.12	17.20	18.5	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	17.11	17.11	17.14	18.5	0.0



n78 DSI3 Ant5 NSA								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	14.04	14.04	13.99	15.5	0.0
100	PI/2 BPSK	1	137					
100	PI/2 BPSK	1	271					
100	PI/2 BPSK	135	0					
100	PI/2 BPSK	135	69					
100	PI/2 BPSK	135	138					
100	PI/2 BPSK	270	0					
100	QPSK	1	1					
100	QPSK	1	137					
100	QPSK	1	271					
100	QPSK	135	0					
100	QPSK	135	69					
100	QPSK	135	138					
100	QPSK	270	0					
100	16QAM	1	1					
100	64QAM	1	1					
100	256QAM	1	1					
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	14.04	14.04	13.99	15.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	14.09	14.05	14.07	15.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	14.01	14.07	14.06	15.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	13.99	14.13	14.05	15.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	14.03	14.08	14.07	15.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	13.99	14.07	14.05	15.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	14.05	14.12	14.00	15.5	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	14.01	14.12	14.01	15.5	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	13.99	14.04	14.10	15.5	0.0

Reduced Power Mode for DSI6

n2 DSI6 Ant0 NSA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	15.04	15.19	15.07		
20	PI/2 BPSK	1	53	15.42	15.48	15.32	17.0	0.0
20	PI/2 BPSK	1	104	15.51	15.58	15.47		
20	PI/2 BPSK	50	0	15.42	15.58	15.35	17.0	0.0
20	PI/2 BPSK	50	28	15.53	15.63	15.48	17.0	0.0
20	PI/2 BPSK	50	56	15.52	15.64	15.43		
20	PI/2 BPSK	100	0	15.56	15.66	15.60	17.0	0.0
20	QPSK	1	1	15.23	15.32	15.18		
20	QPSK	1	53	15.66	15.76	15.69	17.0	0.0
20	QPSK	1	104	15.40	15.44	15.39		
20	QPSK	50	0	15.45	15.60	15.47	17.0	0.0
20	QPSK	50	28	15.58	15.70	15.60	17.0	0.0
20	QPSK	50	56	15.57	15.60	15.58		
20	QPSK	100	0	15.45	15.57	15.51	17.0	0.0
20	16QAM	1	1	15.10	15.21	15.16	17.0	0.0
20	64QAM	1	1	15.27	15.27	15.30	17.0	0.0
20	256QAM	1	1	15.29	15.37	15.39	17.0	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	40	15.58	15.63	15.50	17.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	26	15.62	15.71	15.61	17.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	13	15.61	15.69	15.57	17.0	0.0

n7 DSI6 Ant1 SA

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	505000	507000	509000					
Frequency (MHz)	2525	2535	2545					
50	PI/2 BPSK	1	1	19.85	19.89	19.77	21.5	0.0
50	PI/2 BPSK	1	135	20.25	20.39	20.33		
50	PI/2 BPSK	1	268	20.19	20.27	20.18		
50	PI/2 BPSK	135	0	20.31	20.39	20.24	21.5	0.0
50	PI/2 BPSK	135	68	20.40	20.48	20.34	21.5	0.0
50	PI/2 BPSK	135	135	20.05	20.09	20.01	21.5	0.0
50	PI/2 BPSK	270	0	19.86	19.91	19.85		
50	QPSK	1	1	19.92	19.98	19.93	21.5	0.0
50	QPSK	1	135	20.37	20.49	20.30		
50	QPSK	1	268	20.22	20.26	20.13		
50	QPSK	135	0	20.27	20.35	20.27	21.5	0.0
50	QPSK	135	68	20.38	20.42	20.32	21.5	0.0
50	QPSK	135	135	20.24	20.34	20.29	21.5	0.0
50	QPSK	270	0	20.25	20.40	20.31		
50	16QAM	1	1	19.68	19.83	19.79	21.5	0.0
50	64QAM	1	1	19.92	19.99	19.94	21.5	0.0
50	256QAM	1	1	18.28	18.33	18.27	19.5	2.0
Channel	504000	507000	510000					
Frequency (MHz)	2530	2535	2550	Tune-up limit (dBm)	MPR (dB)			
40	QPSK	1	108	20.28	20.46	20.22	21.5	0.0
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555	Tune-up limit (dBm)	MPR (dB)			
30	QPSK	1	80	20.29	20.38	20.23	21.5	0.0
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5	Tune-up limit (dBm)	MPR (dB)			
25	QPSK	1	67	20.29	20.41	20.19	21.5	0.0
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560	Tune-up limit (dBm)	MPR (dB)			
20	QPSK	1	53	20.25	20.37	20.22	21.5	0.0
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	40	20.26	20.42	20.21	21.5	0.0
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	26	20.25	20.39	20.18	21.5	0.0
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	13	20.33	20.43	20.22	21.5	0.0



n7 DSI6 Ant4 NSA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	15.71	15.86	15.57		
50	PI/2 BPSK	1	135	16.30	16.37	16.30	17.5	0.0
50	PI/2 BPSK	1	268	15.92	15.97	15.97		
50	PI/2 BPSK	135	0	16.14	16.35	16.17	17.5	0.0
50	PI/2 BPSK	135	68	16.30	16.41	16.31	17.5	0.0
50	PI/2 BPSK	135	135	16.08	16.26	16.13		
50	PI/2 BPSK	270	0	16.13	16.26	16.22	17.5	0.0
50	QPSK	1	1	15.80	15.82	15.85		
50	QPSK	1	135	16.27	16.48	16.45	17.5	0.0
50	QPSK	1	268	15.96	16.17	15.95		
50	QPSK	135	0	16.27	16.32	16.27	17.5	0.0
50	QPSK	135	68	16.23	16.42	16.31	17.5	0.0
50	QPSK	135	135	16.30	16.34	16.23		
50	QPSK	270	0	16.25	16.35	16.22	17.5	0.0
50	16QAM	1	1	15.91	16.04	15.74	17.5	0.0
50	64QAM	1	1	16.07	16.13	15.98	17.5	0.0
50	256QAM	1	1	16.18	16.15	16.13	17.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1624	1630	1639	17.5	0.0
40	QPSK	1	108	16.24	16.30	16.39		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	80	16.21	16.41	16.40	17.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	67	16.13	16.33	16.33	17.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	53	16.16	16.45	16.32	17.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	40	16.12	16.42	16.33	17.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	26	16.17	16.40	16.34	17.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	13	16.22	16.38	16.37	17.5	0.0

n66 DSI6 Ant4 NSA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.73	15.73	15.64		
40	PI/2 BPSK	1	108	16.08	16.30	16.20	17.5	0.0
40	PI/2 BPSK	1	214	15.56	15.71	15.64		
40	PI/2 BPSK	108	0	15.99	16.16	16.15	17.5	0.0
40	PI/2 BPSK	108	54	16.17	16.22	16.05	17.5	0.0
40	PI/2 BPSK	108	108	16.19	16.15	16.14		
40	PI/2 BPSK	216	0	16.05	16.16	16.05	17.5	0.0
40	QPSK	1	1	15.63	15.66	15.62		
40	QPSK	1	108	16.31	16.36	16.20	17.5	0.0
40	QPSK	1	214	15.59	15.67	15.60		
40	QPSK	108	0	16.19	16.21	16.10	17.5	0.0
40	QPSK	108	54	16.28	16.33	16.23	17.5	0.0
40	QPSK	108	108	16.12	16.20	16.16		
40	QPSK	216	0	16.19	16.22	16.15	17.5	0.0
40	16QAM	1	1	15.60	15.71	15.62	17.5	0.0
40	64QAM	1	1	15.68	15.72	15.54	17.5	0.0
40	256QAM	1	1	16.10	16.16	16.04	17.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	80	16.16	16.32	16.12	17.5	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	67	16.13	16.25	16.12	17.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	53	16.17	16.29	16.08	17.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	40	16.16	16.21	16.06	17.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	26	16.14	16.31	16.11	17.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	13	16.07	16.27	16.13	17.5	0.0

n78 DSI6 Ant5 SA								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
100	PI/2 BPSK	1	1	20.65			23.0	0.0
100	PI/2 BPSK	1	137	21.47				
100	PI/2 BPSK	1	271	20.51				
100	PI/2 BPSK	135	0	21.39			23.0	0.0
100	PI/2 BPSK	135	69	21.57			23.0	0.0
100	PI/2 BPSK	135	138	21.19			23.0	0.0
100	PI/2 BPSK	270	0	21.35				
100	QPSK	1	1	20.71				
100	QPSK	1	137	21.61			23.0	0.0
100	QPSK	1	271	20.46				
100	QPSK	135	0	21.44			23.0	0.0
100	QPSK	135	69	21.52			23.0	0.0
100	QPSK	135	138	21.21			23.0	0.0
100	QPSK	270	0	21.37				
100	16QAM	1	1	20.46			23.0	0.0
100	64QAM	1	1	19.14			21.5	1.5
100	256QAM	1	1	17.86			19.5	3.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	123	21.54	21.48	21.57	23.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	21.58	21.52	21.54	23.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	21.47	21.58	21.52	23.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	21.50	21.51	21.57	23.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	21.55	21.54	21.54	23.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	21.51	21.58	21.49	23.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	21.55	21.55	21.55	23.0	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3467.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	21.55	21.57	21.49	23.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3465.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	21.55	21.50	21.50	23.0	0.0



n78 DSI6 Ant5 NSA									
BW (MHz)	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	PI/2 BPSK	1	1		17.05		19.0	0.0	
100	PI/2 BPSK	1	137		17.60				
100	PI/2 BPSK	1	271		17.07				
100	PI/2 BPSK	135	0		17.55		19.0	0.0	
100	PI/2 BPSK	135	69		17.58		19.0	0.0	
100	PI/2 BPSK	135	138		17.47		19.0	0.0	
100	PI/2 BPSK	270	0		17.50				
100	QPSK	1	1		17.11		19.0	0.0	
100	QPSK	1	137		17.72				
100	QPSK	1	271		17.07				
100	QPSK	135	0		17.65		19.0	0.0	
100	QPSK	135	69		17.67		19.0	0.0	
100	QPSK	135	138		17.51		19.0	0.0	
100	QPSK	270	0		17.46				
100	16QAM	1	1		17.01		19.0	0.0	
100	64QAM	1	1		17.06		19.0	0.0	
100	256QAM	1	1		17.04		19.0	0.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123		17.63	17.53	19.0	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109		17.68	17.68	19.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81		17.68	17.66	19.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67		17.69	17.61	19.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53		17.68	17.63	19.0	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39		17.61	17.60	19.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26		17.63	17.68	19.0	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19		17.68	17.59	19.0	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12		17.61	17.59	17.60	19.0	0.0



BT&WIFI Power

2.4GHz WLAN				Ant 6 Full Power Head Standalone Body Worn Standalone Handheld Standalone Handheld Simultaneous		Head Ant 6 Simultaneous		Body Worn&Hotspot Ant 6 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		
802.11b 1Mbps	1	2412	18.80	20.50	15.13	16.00	14.07	15.00	100.00	
	6	2437	18.75	20.50	15.21	16.00	14.16	15.00		
	11	2462	18.72	20.50	15.18	16.00	14.12	15.00		
802.11g 6Mbps	1	2412	16.93	18.50	Not Required	16.00	Not Required	15.00	97.46	
	6	2437	18.52	20.00		16.00		15.00		
	11	2462	16.07	17.50		16.00		15.00		
802.11n-HT20 MCS0	1	2412	15.90	17.50	Not Required	16.00	Not Required	15.00	97.28	
	6	2437	18.45	20.00		16.00		15.00		
	11	2462	15.68	17.50		16.00		15.00		

5.2GHz WLAN				Ant 6 Full Power Head Standalone Handheld Standalone		Body Worn Ant 6 Simultaneous		Head Ant 6 Simultaneous		Body Worn&Ant 6 Standalone		Handheld&Ant 6 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		
802.11a 6Mbps	36	5180	15.86	17.50	Not Required	13.00	Not Required	15.00	Not Required	17.50	Not Required	16.00	97.46	
	40	5200	17.24	18.50		13.00		15.00		17.50		16.00		
	44	5220	17.29	18.50		13.00		15.00		17.50		16.00		
	48	5240	17.24	18.50		13.00		15.00		17.50		16.00		
802.11n-HT20 MCS0	36	5180	15.37	17.00	Not Required	13.00	Not Required	15.00	Not Required	17.00	Not Required	16.00	97.28	
	40	5200	16.92	18.50		13.00		15.00		17.50		16.00		
	44	5220	16.94	18.50		13.00		15.00		17.50		16.00		
	48	5240	17.01	18.50		13.00		15.00		17.50		16.00		
802.11n-HT40 MCS0	38	5190	12.61	14.00	12.05	13.00	12.61	14.00	12.61	14.00	12.61	14.00	94.72	
	46	5230	17.32	18.50	12.26	13.00	13.44	15.00	15.98	17.50	14.41	16.00		
802.11ac-VHT20 MCS0	36	5180	14.80	16.50	Not Required	13.00	Not Required	15.00	Not Required	16.50	Not Required	16.00	97.31	
	40	5200	14.89	16.50		13.00		15.00		16.50		16.00		
	44	5220	14.90	16.50		13.00		15.00		16.50		16.00		
	48	5240	14.92	16.50		13.00		15.00		16.50		16.00		
802.11ac-VHT40 MCS0	38	5190	12.55	14.00	Not Required	13.00	Not Required	14.00	Not Required	14.00	Not Required	14.00	94.72	
	46	5230	15.30	16.50		13.00		15.00		16.50		16.00		
802.11ac-VHT80 MCS0	42	5210	10.64	12.00		12.00		12.00		12.00		12.00	90.00	

5.3GHz WLAN				Ant 6 Full Power Head Standalone Handheld Standalone		Head Ant 6 Simultaneous		Body Worn Ant 6 Simultaneous		Body Worn&Ant 6 Standalone		Handheld&Ant 6 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		
802.11a 6Mbps	52	5260	17.50	19.00	Not Required	15.00	Not Required	13.00	Not Required	17.50	Not Required	16.00	97.46	
	56	5280	17.55	19.00		15.00		13.00		17.50		16.00		
	60	5300	17.57	19.00		15.00		13.00		17.50		16.00		
	64	5320	16.18	17.50		15.00		13.00		17.50		16.00		
802.11n-HT20 MCS0	52	5260	17.21	19.00	Not Required	15.00	Not Required	13.00	Not Required	17.50	Not Required	16.00	97.28	
	56	5280	17.28	19.00		15.00		13.00		17.50		16.00		
	60	5300	17.32	19.00		15.00		13.00		17.50		16.00		
	64	5320	15.85	17.50		15.00		13.00		17.50		16.00		
802.11n-HT40 MCS0	54	5270	17.45	19.00	13.51	15.00	11.54	13.00	16.03	17.50	14.57	16.00	94.72	
	62	5310	13.10	14.50	13.10	14.50	11.52	13.00	13.10	14.50	13.10	14.50		
802.11ac-VHT20 MCS0	52	5260	15.29	17.00	Not Required	15.00	Not Required	13.00	Not Required	17.00	Not Required	16.00	97.31	
	56	5280	15.31	17.00		15.00		13.00		17.00		16.00		
	60	5300	15.28	17.00		15.00		13.00		17.00		16.00		
	64	5320	15.28	17.00		15.00		13.00		17.00		16.00		
802.11ac-VHT40 MCS0	54	5270	15.42	17.00	Not Required	15.00	Not Required	13.00	Not Required	17.00	Not Required	16.00	94.72	
	62	5310	12.98	14.50		15.00		13.00		14.50		14.50		
802.11ac-VHT80 MCS0	58	5290	10.93	12.50		12.50		12.50		12.50		12.50	90.00	

5.5GHz WLAN				Ant 6 Full Power Head Standalone Body Worn Standalone Handheld Standalone		Head Ant 6 Simultaneous		Body Worn Ant 6 Simultaneous		Handheld&Ant 6 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			
802.11a 6Mbps	100	5500	15.84	17.50	Not Required	14.50	Not Required	14.00	Not Required	17.00	Not Required	97.46	
	116	5580	17.40	19.00		14.50		14.00		17.00			16.00
	124	5620	17.50	19.00		14.50		14.00		17.00			16.00
	132	5660	17.50	19.00		14.50		14.00		17.00			16.00
	140	5700	15.48	17.00		14.50		14.00		17.00			16.00
	144	5720	17.58	19.00		14.50		14.00		17.00			16.00
802.11n-HT20 MCS0	100	5500	14.15	15.50	Not Required	14.50	Not Required	14.00	Not Required	15.50	Not Required	97.28	
	116	5580	17.41	19.00		14.50		14.00		17.00			16.00
	124	5620	17.47	19.00		14.50		14.00		17.00			16.00
	132	5660	17.41	19.00		14.50		14.00		17.00			16.00
	140	5700	13.74	15.00		14.50		14.00		17.00			15.00
	144	5720	17.24	19.00		14.50		14.00		17.00			16.00
802.11n-HT40 MCS0	102	5510	12.09	13.50	Not Required	14.50	Not Required	13.50	Not Required	13.50	Not Required	94.72	
	110	5550	17.42	19.00		14.50		14.00		17.00			16.00
	126	5630	17.50	19.00		14.50		14.00		17.00			16.00
	134	5670	14.43	16.00		14.50		14.00		17.00			16.00
	142	5710	17.39	19.00		14.50		14.00		17.00			16.00
	144	5720	17.58	19.00		14.50		14.00		17.00			16.00
802.11ac-VHT20 MCS0	100	5500	14.07	15.50	Not Required	14.50	Not Required	14.00	Not Required	15.50	Not Required	97.31	
	116	5580	15.48	17.00		14.50		14.00		17.00			16.00
	124	5620	15.49	17.00		14.50		14.00		17.00			16.00
	132	5660	15.44	17.00		14.50		14.00		17.00			16.00
	140	5700	13.68	15.00		14.50		14.00		17.00			15.00
	144	5720	15.24	17.00		14.50		14.00		17.00			16.00
802.11ac-VHT40 MCS0	102	5510	12.03	13.50	Not Required	14.50	Not Required	13.50	Not Required	13.50	Not Required	94.72	
	110	5550	15.43	17.00		14.50		14.00		17.00			16.00
	126	5630	15.54	17.00		14.50		14.00		17.00			16.00
	134	5670	14.37	16.00		14.50		14.00		17.00			16.00
	142	5710	15.46	17.00		14.50		14.00		17.00			16.00
	144	5720	15.24	17.00		14.50		14.00		17.00			16.00
802.11ac-VHT80 MCS0	106	5530	10.60	12.00	10.60	12.00	10.60	12.00	10.60	12.00	10.60	12.00	90.00
	122	5610	14.97	16.50	12.94	14.50	12.37	14.00	14.97	16.50	14.97	16.50	
	138	5690	15.58	17.00	13.05	14.50	12.41	14.00	15.58	17.00	15.58	17.00	



5.8GHz WLAN				Art 6 Full Power Head Standalone Body Worn Standalone Handheld Standalone Handheld Simultaneous		Head Ant 6 Simultaneous		Body Worn/Hotspot Ant 6 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				
5.8GHz WLAN	802.11a 6Mbps	149	5745	16.84	18.50	Not Required	14.50	Not Required	15.00	97.46		
		157	5785	16.83	18.50		14.50		15.00			
		165	5825	16.66	18.50		14.50		15.00			
	802.11n-HT20 MCS0	149	5745	16.64	18.00		14.50		15.00	97.28		
		157	5785	16.60	18.00		14.50		15.00			
		165	5825	16.60	18.00		14.50		15.00			
	802.11n-HT40 MCS0	151	5755	16.78	18.00		14.50		15.00	94.72		
		159	5795	16.74	18.00		14.50		15.00			
	802.11ac-VHT20 MCS0	149	5745	14.63	16.50		14.50		15.00	97.31		
		157	5785	14.65	16.50		14.50		15.00			
		165	5825	14.69	16.50		14.50		15.00			
	802.11ac-VHT40 MCS0	151	5755	14.75	16.50		14.50		15.00	94.72		
		159	5795	14.81	16.50		14.50		15.00			
	802.11ac-VHT80 MCS0	155	5775	14.83	16.50		12.77		14.50	13.32	15.00	90.00

BT 2.0

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.94	9.71	9.72
	CH 39	2441	11.84	9.59	9.78
	CH 78	2480	11.89	9.29	9.68
Tune-up Limit			13	10.5	10.5

BLE 1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	1.64
	CH 19	2440	2.44
	CH 39	2480	1.61
Tune-up Limit			3

BLE 2M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	1.64
	CH 19	2440	2.64
	CH 39	2480	1.44
Tune-up Limit			3.00