



Full Power Mode

GSM850 Ant0 Default									
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	32.30	32.53	32.44	33.50	23.30	23.53	23.44	24.50	
GPRS 1 Tx slot	32.31	32.55	32.46	33.50	23.31	23.55	23.46	24.50	
GPRS 2 Tx slots	30.72	30.88	30.75	32.00	24.72	24.88	24.75	26.00	
GPRS 3 Tx slots	28.67	28.78	28.74	30.00	24.41	24.52	24.48	25.74	
GPRS 4 Tx slots	26.61	26.66	26.71	27.50	23.61	23.66	23.71	24.50	
EDGE 1 Tx slot	26.14	26.24	26.17	27.00	17.14	17.24	17.17	18.00	
EDGE 2 Tx slots	24.94	25.10	25.00	26.00	18.94	19.10	19.00	20.00	
EDGE 3 Tx slots	22.92	22.76	22.91	24.00	18.66	18.50	18.65	19.74	
EDGE 4 Tx slots	20.81	20.76	20.47	22.00	17.81	17.76	17.47	19.00	

GSM1900 Ant0 Default									
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8			
GSM 1 Tx slot	29.95	30.02	29.91	30.50	20.95	21.02	20.91	21.50	
GPRS 1 Tx slot	30.04	30.06	29.68	30.50	21.04	21.06	20.68	21.50	
GPRS 2 Tx slots	28.44	28.52	28.17	29.50	22.44	22.52	22.17	23.50	
GPRS 3 Tx slots	26.42	26.55	26.22	27.50	22.16	22.29	21.96	23.24	
GPRS 4 Tx slots	24.23	24.28	23.95	25.00	21.23	21.28	20.95	22.00	
EDGE 1 Tx slot	25.67	25.85	25.47	27.00	16.67	16.85	16.47	18.00	
EDGE 2 Tx slots	24.46	24.52	24.17	25.50	18.46	18.52	18.17	19.50	
EDGE 3 Tx slots	22.44	22.44	22.00	23.50	18.18	18.18	17.74	19.24	
EDGE 4 Tx slots	20.22	20.31	20.01	21.50	17.22	17.31	17.01	18.50	

Band	WCDMA II Ant0 Default			Tune-up Limit (dBm)	WCDMA IV Ant0 Default			Tune-up Limit (dBm)	WCDMA V Ant0 Default			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	22.80	22.82	22.61	24.00	22.91	23.02	22.93	24.00	22.86	23.12	23.10	24.00
3GPP Rel 99 RMC 12.2Kbps	22.95	22.89	22.77	24.00	23.02	23.17	23.06	24.00	23.00	23.24	23.23	24.00
3GPP Rel 6 HSDPA Subtest-1	21.86	21.97	21.85	23.00	21.69	21.62	21.70	23.00	21.81	22.00	21.81	23.00
3GPP Rel 6 HSDPA Subtest-2	21.87	22.02	21.96	23.00	21.75	21.89	21.81	23.00	21.84	22.06	21.91	23.00
3GPP Rel 6 HSDPA Subtest-3	21.48	21.45	21.55	22.50	21.34	21.25	21.35	22.50	21.50	21.40	21.54	22.50
3GPP Rel 6 HSDPA Subtest-4	21.41	21.51	21.51	22.50	21.30	21.38	21.42	22.50	21.47	21.51	21.62	22.50
3GPP Rel 6 HSDPA Subtest-1	22.01	22.00	21.76	23.00	21.83	21.89	21.62	23.00	21.95	22.00	21.73	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	21.81	22.06	21.88	23.00	21.72	21.89	21.76	23.00	21.85	22.10	21.88	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	21.52	21.54	21.46	22.50	21.37	21.42	21.37	22.50	21.47	21.62	21.52	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	21.37	21.58	21.53	22.50	21.18	21.47	21.40	22.50	21.37	21.57	21.51	22.50
3GPP Rel 6 HSUPA Subtest-1	21.81	21.98	21.88	23.00	21.67	21.81	21.76	23.00	21.82	21.99	21.90	23.00
3GPP Rel 6 HSUPA Subtest-2	20.01	20.07	19.97	21.00	19.92	19.88	19.88	21.00	20.04	20.06	20.08	21.00
3GPP Rel 6 HSUPA Subtest-3	20.90	20.99	20.87	22.00	20.78	20.85	20.89	22.00	20.91	21.01	20.94	22.00
3GPP Rel 6 HSUPA Subtest-4	20.01	19.94	19.82	21.00	19.80	19.85	19.70	21.00	19.92	19.95	19.83	21.00
3GPP Rel 6 HSUPA Subtest-5	21.93	21.91	22.03	23.00	21.79	21.78	21.92	23.00	21.95	21.95	22.03	23.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	19.43	19.52	19.44	20.50	19.29	19.36	19.29	20.50	19.48	19.55	19.40	20.50



Band 2 Ant0 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (min)	MPE (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.23	22.27	22.24			
20	QPSK	1	9	22.16	22.22	22.18		24	0
20	QPSK	50	0	21.35	21.36	21.35			
20	QPSK	50	24	21.23	21.28	21.25			
20	QPSK	50	50	21.19	21.24	21.28		23	1
20	QPSK	100	0	21.45	21.54	21.42			
20	QPSK	100	0	21.38	21.59	21.41			
20	HQAM	1	49	21.31	21.48	21.32		23	1
20	HQAM	1	99	21.24	21.49	21.34			
20	HQAM	50	0	20.39	20.45	20.36			
20	HQAM	50	24	20.33	20.35	20.28		22	2
20	HQAM	50	50	20.32	20.41	20.29			
20	HQAM	100	0	20.29	20.38	20.21			
20	HQAM	1	0	20.58	20.65	20.54			
20	HQAM	1	49	20.46	20.59	20.46		22	2
20	HQAM	1	99	20.53	20.33	20.48			
20	HQAM	50	0	19.35	19.44	19.39			
20	HQAM	50	24	19.22	19.31	19.26			
20	HQAM	50	50	19.27	19.32	19.24		21	3
20	HQAM	100	0	19.41	19.52	19.39			
20	HQAM	1	49	17.22	17.28	17.32		19	5
20	HQAM	1	99	17.16	17.35	17.25			
20	HQAM	50	0	17.24	17.46	17.41			
20	HQAM	50	24	17.15	17.20	17.21		19	5
20	HQAM	50	50	17.11	17.19	17.21			
20	HQAM	100	0	17.12	17.25	17.17			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.12	22.21	22.16			
15	QPSK	1	9	22.02	22.07	22.05		24	0
15	QPSK	1	74	22.01	22.13	22.08			
15	QPSK	96	0	21.28	21.29	21.27			
15	QPSK	25	0	21.07	21.14	21.04		23	1
15	QPSK	36	0	21.07	21.16	21.15			
15	QPSK	75	0	21.06	21.48	21.30			
15	QPSK	1	49	21.04	21.47	21.31			
15	HQAM	1	37	21.16	21.38	21.18		23	1
15	HQAM	1	74	21.08	21.08	21.08			
15	HQAM	36	0	20.33	20.39	20.19			
15	HQAM	36	20	20.24	20.21	20.14		22	2
15	HQAM	36	20	20.17	20.22	20.25			
15	HQAM	75	0	20.22	20.25	20.16			
15	HQAM	1	0	20.51	20.59	20.40		22	2
15	HQAM	1	49	20.38	20.48	20.38			
15	HQAM	1	74	20.45	20.35	20.33			
15	HQAM	36	0	19.25	19.34	19.29			
15	HQAM	36	20	19.13	19.15	19.15		21	3
15	HQAM	36	36	19.22	19.29	19.15			
15	HQAM	75	0	19.27	19.42	19.27			
15	HQAM	1	37	17.08	17.28	17.28		19	5
15	HQAM	1	74	17.08	17.35	17.14			
15	HQAM	36	0	17.24	17.38	17.38			
15	HQAM	36	20	17.02	17.12	17.14		19	5
15	HQAM	36	36	17.03	17.03	17.05			
15	HQAM	75	0	17.11	17.17	17.18			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.01	22.10	22.05			
10	QPSK	1	25	22.01	22.03	22.03		24	0
10	QPSK	1	49	22.03	22.19	22.08			
10	QPSK	25	0	21.17	21.16	21.08		23	1
10	QPSK	25	25	21.05	21.16	21.19			
10	HQAM	1	0	21.27	21.54	21.28			
10	HQAM	1	25	21.16	21.40	21.18		23	1
10	HQAM	25	0	20.24	20.37	20.19			
10	HQAM	25	12	20.24	20.22	20.14		22	2
10	HQAM	25	12	20.17	20.18	20.18			
10	HQAM	50	0	20.24	20.30	20.13			
10	HQAM	1	0	20.48	20.60	20.42		22	2
10	HQAM	1	25	20.33	20.38	20.33			
10	HQAM	1	49	20.39	20.44	20.40			
10	HQAM	25	0	19.21	19.37	19.20			
10	HQAM	25	12	19.11	19.24	19.10		21	3
10	HQAM	25	25	19.21	19.24	19.10			
10	HQAM	50	0	19.32	19.41	19.30			
10	HQAM	1	0	17.38	17.38	17.38		19	5
10	HQAM	1	49	17.14	17.16	17.16			
10	HQAM	1	99	17.11	17.21	17.13			
10	HQAM	1	25	17.22	17.26	17.22			
10	HQAM	25	12	17.07	17.08	17.16		19	5
10	HQAM	25	25	17.09	17.08	17.06			
10	HQAM	50	0	17.11	17.17	17.02			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.11	22.10	22.11			
5	QPSK	1	12	22.04	22.02	22.03		24	0
5	QPSK	1	24	22.07	22.07	22.02			
5	QPSK	12	0	21.33	21.33	21.33			
5	QPSK	12	7	21.16	21.14	21.04		23	1
5	QPSK	12	13	21.12	21.13	21.18			
5	QPSK	25	0	21.03	21.08	21.03			
5	HQAM	1	0	21.34	21.46	21.33		23	1
5	HQAM	1	12	21.21	21.36	21.18			
5	HQAM	12	0	20.32	20.35	20.26			
5	HQAM	12	7	20.32	20.35	20.16		22	2
5	HQAM	12	13	20.29	20.35	20.24			
5	HQAM	25	0	20.13	20.27	20.15			
5	HQAM	1	0	20.47	20.58	20.47		22	2
5	HQAM	1	12	20.41	20.58	20.35			
5	HQAM	1	24	20.43	20.39	20.43			
5	HQAM	12	0	19.26	19.30	19.24			
5	HQAM	12	7	19.09	19.15	19.14		21	3
5	HQAM	12	13	19.17	19.23	19.17			
5	HQAM	25	0	19.26	19.48	19.31			
5	HQAM	1	0	17.31	17.39	17.34		19	5
5	HQAM	1	12	17.09	17.16	17.25			
5	HQAM	1	24	17.11	17.23	17.16			
5	HQAM	12	0	17.25	17.18	17.17			
5	HQAM	12	7	17.05	17.06	17.06		19	5
5	HQAM	12	13	17.01	17.09	17.15			
5	HQAM	25	0	17.02	17.18	17.07			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.12	22.17	22.15			
3	QPSK	1	8	22.03	22.12	22.05		24	0
3	QPSK	1	14	22.01	22.09	22.02			
3	QPSK	8	0	21.03	21.02	21.01		23	1
3	QPSK	8	4	21.15	21.12	21.06			
3	QPSK	8	7	21.13	21.12	21.18			
3	HQAM	1	0	21.08	21.47	21.27			
3	HQAM	1	8	21.35	21.48	21.32		23	1
3	HQAM	1	14	21.13	21.44	21.24			
3	HQAM	8	0	20.27	20.31	20.23			
3	HQAM	8	4	20.20	20.23	20.19		22	2
3	HQAM	8	7	20.29	20.27	20.20			
3	HQAM	15	0	20.23	20.26	20.11			
3	HQAM	1	0	20.47	20.54	20.47		22	2
3	HQAM	1	8	20.43	20.43	20.35			
3	HQAM	1	14	20.44	20.42	20.37			
3	HQAM	8	0	19.27	19.32	19.32			
3	HQAM	8	4	19.13	19.19	19.22		21	3
3	HQAM	8	7	19.13	19.25	19.20			
3	HQAM	15	0	17.34	17.32	17.33			
3	HQAM	1	8	17.14	17.14	17.21		19	5
3	HQAM	1	14	17.04	17.09	17.03			
3	HQAM	8	0	17.23	17.27	17.22			
3	HQAM	8	4	17.09	17.05	17.05		19	5
3	HQAM	8	7	17.02	17.02	17.08			
3	HQAM	15	0	17.10	17.14	17.05			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.11	22.23	22.08			
1.4	QPSK	1	3	22.01	22.12	22.07		24	0
1.4	QPSK	1	5	22.00	22.11	22.04			
1.4	QPSK	3	1	22.05	22.16	22.10			
1.4	QPSK	3	1	22.05	22.06	22.06			
1.4	QPSK	3	3	22.03	22.08	22.03		23	1
1.4	QPSK	3	5	22.03	22.15	22.17			
1.4	HQAM	1	0	21.28	21.46	21.20			
1.4	HQAM	1	3	21.18	21.37	21.30		23	1
1.4	HQAM	1	5	21.12	21.38	21.24			
1.4	HQAM	3	1	21.28	21.38	21.21			
1.4	HQAM	3	1	21.12	21.29	21.23			
1.4	HQAM	3	3	20.21	20.23	20.69		22	2
1.4	HQAM	3	5	20.44	20.52	20.41			
1.4	HQAM	3	3	20.39	20.42	20.38			
1.4	HQAM	1	5	20.38	20.43	20.33		22	2
1.4	HQAM	1	3	20.44	20.46	20.36			
1.4	HQAM	3	1	20.37	20.34	20.27			
1.4	HQAM	3	3	20.39	20.33	20.31			
1.4	HQAM	3	5	19.35	19.44	19.34		21	3
1.4	HQAM	1	0	17.26	17.32	17.34			
1.4	HQAM	1	3	17.10	17.17	17.21			
1.4	HQAM	1	5	17.04	17.24	17.28		19	5
1.4	HQAM	3	1	17.20	17.28	17.22			
1.4	HQAM	3	1	17.04	17.07	17.09			
1.4	HQAM	3	3	17.14	17.14	17.07			
1.4	HQAM	3	5	17.12	17.18	17.02		19	5

Band 4 Ant0 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (min)	MPE (dB)



Band 12 Ant0 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	MPE (dB)				
Channel												
Frequency (MHz)				704	707.5	711						
10	QPSK	1	0	22.67	22.71	22.60	24	0				
10	QPSK	1	25	22.67	22.68	22.69						
10	QPSK	1	49	22.84	22.87	22.85						
10	QPSK	25	0	21.63	21.79	21.66						
10	QPSK	25	12	21.61	21.47	21.73						
10	QPSK	25	25	21.48	21.60	21.58						
10	QPSK	50	0	21.53	21.55	21.52						
10	HQAM	1	0	21.69	21.85	21.74						
10	HQAM	1	25	21.70	21.79	21.71						
10	HQAM	1	49	21.82	21.76	21.69						
10	HQAM	25	0	20.99	20.98	20.97						
10	HQAM	25	12	20.72	20.78	20.84						
10	HQAM	25	25	20.74	20.79	20.81						
10	HQAM	50	0	20.54	20.58	20.53						
10	HQAM	1	0	20.70	20.69	20.65						
10	HQAM	1	25	20.57	20.67	20.54						
10	HQAM	1	49	20.62	20.59	20.68						
10	HQAM	25	0	19.62	19.59	19.55						
10	HQAM	25	12	19.52	19.63	19.26						
10	HQAM	25	25	19.58	19.43	19.45						
10	HQAM	50	0	19.63	19.59	19.45						
10	SSBQAM	1	25	17.69	17.77	17.58						
10	SSBQAM	1	49	17.68	17.79	17.42						
10	SSBQAM	25	0	17.55	17.62	17.52						
10	SSBQAM	25	12	17.55	17.69	17.59						
10	SSBQAM	25	25	17.63	17.79	17.57						
10	SSBQAM	50	0	17.60	17.42	17.47						
Channel												
Frequency (MHz)				701.5	707.5	713.5						
5	QPSK	1	0	22.67	22.68	22.44	24	0				
5	QPSK	1	12	22.60	22.48	22.41						
5	QPSK	1	24	22.39	22.55	22.42						
5	QPSK	12	0	21.61	21.68	21.61						
5	QPSK	12	7	21.64	21.42	21.61						
5	QPSK	12	13	21.33	21.53	21.46						
5	QPSK	25	0	21.65	21.97	21.26						
5	HQAM	1	0	21.55	21.71	21.69						
5	HQAM	1	12	21.67	21.66	21.67						
5	HQAM	1	24	21.62	21.62	21.62						
5	HQAM	12	0	20.78	20.90	20.63						
5	HQAM	12	7	20.70	20.71	20.47						
5	HQAM	12	13	19.48	19.55	19.23						
5	HQAM	25	0	20.40	20.63	20.59						
5	HQAM	1	0	20.58	20.60	20.52						
5	HQAM	1	12	20.65	20.60	20.48						
5	HQAM	1	24	20.59	20.55	20.51						
5	HQAM	12	0	19.52	19.43	19.37						
5	HQAM	12	7	19.48	19.55	19.23						
5	HQAM	12	13	19.51	19.64	19.35						
5	HQAM	25	0	19.45	19.45	19.35						
5	SSBQAM	1	12	17.65	17.69	17.45						
5	SSBQAM	1	24	17.63	17.63	17.54						
5	SSBQAM	1	14	17.63	17.61	17.26						
5	SSBQAM	12	0	17.65	17.65	17.45						
5	SSBQAM	12	7	17.51	17.52	17.49						
5	SSBQAM	12	13	17.60	17.69	17.50						
5	SSBQAM	25	0	17.61	17.58	17.27						
Channel												
Frequency (MHz)				708.5	707.5	714.5						
3	QPSK	1	0	22.34	22.45	22.44	24	0				
3	QPSK	1	8	22.39	22.63	22.42						
3	QPSK	1	14	22.37	22.63	22.48						
3	QPSK	8	0	21.69	21.66	21.67						
3	QPSK	8	4	21.29	21.30	21.87						
3	QPSK	8	7	21.43	21.45	21.48						
3	QPSK	16	0	21.65	21.65	21.65						
3	HQAM	1	0	21.59	21.69	21.68						
3	HQAM	1	8	21.52	21.71	21.68						
3	HQAM	1	14	21.48	21.65	21.62						
3	HQAM	8	0	20.73	20.54	20.68						
3	HQAM	8	4	20.57	20.68	20.60						
3	HQAM	8	7	20.63	20.71	20.53						
3	HQAM	16	0	20.40	20.58	20.45						
3	HQAM	1	0	20.55	20.58	20.48						
3	HQAM	1	8	20.51	20.52	20.50						
3	HQAM	1	14	20.45	20.44	20.54						
3	HQAM	8	0	19.52	19.46	19.46						
3	HQAM	8	4	19.46	19.45	19.52						
3	HQAM	8	7	19.55	19.52	19.29						
3	HQAM	16	0	19.43	19.36	19.30						
3	SSBQAM	1	0	17.65	17.66	17.49						
3	SSBQAM	1	8	17.63	17.63	17.54						
3	SSBQAM	1	14	17.63	17.61	17.26						
3	SSBQAM	8	0	17.65	17.65	17.60						
3	SSBQAM	8	4	17.50	17.58	17.47						
3	SSBQAM	8	7	17.48	17.75	17.49						
3	SSBQAM	16	0	17.51	17.58	17.24						
Channel												
Frequency (MHz)				709.7	707.5	716.7						
1.4	QPSK	1	0	22.34	22.45	22.44	24	0				
1.4	QPSK	1	3	22.39	22.48	22.53						
1.4	QPSK	1	5	22.39	22.52	22.35						
1.4	QPSK	3	0	22.35	22.43	22.42						
1.4	QPSK	3	1	22.36	22.35	22.37						
1.4	QPSK	3	3	22.34	22.48	22.30						
1.4	HQAM	1	0	21.44	21.71	21.60						
1.4	HQAM	1	3	21.37	21.55	21.33						
1.4	HQAM	1	5	21.26	21.53	21.52						
1.4	HQAM	3	0	21.41	21.62	21.40						
1.4	HQAM	3	1	21.30	21.54	21.21						
1.4	HQAM	3	3	21.44	21.47	21.38						
1.4	HQAM	6	0	20.45	20.42	20.24						
1.4	HQAM	1	0	20.58	20.79	20.55						
1.4	HQAM	1	3	20.61	20.48	20.58						
1.4	HQAM	1	5	20.82	20.75	20.58						
1.4	HQAM	3	0	20.52	20.69	20.50						
1.4	HQAM	3	1	20.70	20.49	20.52						
1.4	HQAM	3	3	20.58	20.44	20.45						
1.4	HQAM	6	0	19.52	19.88	19.41						
1.4	SSBQAM	1	0	17.60	17.65	17.48						
1.4	SSBQAM	1	3	17.27	17.50	17.30						
1.4	SSBQAM	1	5	17.31	17.42	17.26						
1.4	SSBQAM	3	0	17.63	17.44	17.63						
1.4	SSBQAM	3	1	17.25	17.26	17.31						
1.4	SSBQAM	3	3	17.22	17.17	17.26						
1.4	SSBQAM	6	0	17.44	17.21	17.25						

Band 13 Ant0 Default											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	MPE (dB)			
Channel											
Frequency (MHz)				782							
10	QPSK	1	0	22.38							
10	QPSK	1	25	22.34							
10	QPSK	1	49	22.28							
10	QPSK	25	0	21.54							
10	QPSK	25	12	21.48							
10	QPSK	25	25	21.41							
10	QPSK	50	0	21.38							
10	HQAM	1	0	21.78							
10	HQAM	1	25	21.65							
10	HQAM	1	49	21.59							
10	HQAM	25	0	20.97							
10	HQAM	25	12	20.48							
10	HQAM	25	25	20.45							
10	HQAM	50	0	20.35							
10	HQAM	1	0	20.68							
10	HQAM	1	25	20.62							
10	HQAM	1	49	20.57							
10	HQAM	25	0	19.62							
10	HQAM	25	12	19.54							
10	HQAM	25	25	19.53							
10	HQAM	50	0	19.41							
10	SSBQAM	1	25	17.46							
10	SSBQAM	1	49	17.46							
10	SSBQAM	25	0	17.55							
10	SSBQAM	25	12	17.43							
10	SSBQAM	25	25	17.38							
10	SSBQAM	50	0	17.41							
Channel											
Frequency (MHz)				779.5	782	784.5					
5	QPSK	1	0	22.24	22.29	22.25	24				

**Band 25 Ant0 Default**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up limit (sec)	MPE (dB)
Channel								
		Frequency (MHz)	1800	1880	1960			
20	QPSK	1	0	22.25	22.32	22.28	24	0
20	QPSK	1	40	22.25	22.34	22.37		
20	QPSK	1	99	22.24	22.16	22.23		
20	QPSK	50	0	21.39	21.41	21.26		
20	QPSK	50	24	21.33	21.29	21.44		
20	QPSK	50	50	21.24	21.24	21.10	23	1
20	QPSK	100	0	21.55	21.52	21.51		
20	HQDM	1	0	21.48	21.48	21.49		
20	HQDM	1	49	21.37	21.45	21.34	23	1
20	HQDM	1	99	21.40	21.53	21.51		
20	HQDM	50	0	20.32	20.33	20.28		
20	HQDM	50	24	20.22	20.29	20.14	22	2
20	HQDM	50	50	20.19	20.20	20.25		
20	HQDM	100	0	20.15	20.17	20.19		
20	HQDM	1	0	20.29	20.32	20.25		
20	HQDM	1	49	20.11	20.16	20.22	22	2
20	HQDM	1	99	20.19	20.32	20.18		
20	HQDM	50	0	19.31	19.33	19.25		
20	HQDM	50	24	19.28	19.27	19.13	21	3
20	HQDM	50	50	19.23	19.22	19.21		
20	HQDM	100	0	19.21	19.28	19.15		
20	HQDM	1	0	17.38	17.36	17.29		
20	HQDM	1	49	17.13	17.25	17.13	19	5
20	HQDM	1	99	17.23	17.18	17.23		
20	HQDM	50	0	17.22	17.22	17.22		
20	HQDM	50	24	17.12	17.20	17.13	19	5
20	HQDM	50	50	17.25	17.15	17.21		
20	HQDM	100	0	17.15	17.16	17.23		
20	HQDM	1	0	16.15	16.16	16.15		
Channel								
		Frequency (MHz)	1827.5	1880	1937.5			
15	QPSK	1	0	22.18	22.21	22.19	24	0
15	QPSK	1	40	22.02	22.18	22.04		
15	QPSK	1	74	22.09	22.10	22.18		
15	QPSK	36	0	21.32	21.34	21.17		
15	QPSK	36	24	21.27	21.14	21.12	23	1
15	QPSK	36	36	21.14	21.11	21.15		
15	QPSK	75	0	21.49	21.56	21.46		
15	HQDM	1	0	21.38	21.43	21.40		
15	HQDM	1	37	21.28	21.34	21.29	23	1
15	HQDM	1	74	21.35	21.45	21.40		
15	HQDM	36	0	20.19	20.28	20.13		
15	HQDM	36	20	20.13	20.20	20.04	22	2
15	HQDM	36	36	20.19	20.26	20.15		
15	HQDM	75	0	20.10	20.14	20.04		
15	HQDM	1	0	20.21	20.22	20.15	22	2
15	HQDM	1	37	20.19	20.32	20.18		
15	HQDM	1	74	20.10	20.08	20.05		
15	HQDM	36	0	19.20	19.21	19.13	21	3
15	HQDM	36	20	19.21	19.16	19.10		
15	HQDM	36	36	19.12	19.13	19.05		
15	HQDM	75	0	19.12	19.17	19.02		
15	HQDM	1	0	17.07	17.06	17.02		
15	HQDM	1	37	17.07	17.12	17.02	19	5
15	HQDM	1	74	17.14	17.11	17.16		
15	HQDM	36	0	17.18	17.20	17.17		
15	HQDM	36	20	17.02	17.08	17.05	19	5
15	HQDM	36	36	17.17	17.04	17.13		
15	HQDM	75	0	17.15	17.16	17.23		
Channel								
		Frequency (MHz)	1855	1880	1910			
10	QPSK	1	0	22.10	22.14	22.12	24	0
10	QPSK	1	25	22.08	22.14	22.02		
10	QPSK	1	49	22.11	22.10	22.15		
10	QPSK	25	0	21.38	21.32	21.35		
10	QPSK	25	12	21.24	21.15	21.14	23	1
10	QPSK	25	25	21.19	21.16	21.00		
10	HQDM	1	0	21.39	21.41	21.40		
10	HQDM	1	25	21.31	21.32	21.20	23	1
10	HQDM	1	49	21.36	21.42	21.35		
10	HQDM	25	0	20.24	20.26	20.14		
10	HQDM	25	12	20.15	20.24	20.01	22	2
10	HQDM	25	25	20.12	20.13	20.09		
10	HQDM	50	0	20.08	20.08	20.07		
10	HQDM	1	0	20.21	20.18	20.11	22	2
10	HQDM	1	25	20.18	20.22	20.15		
10	HQDM	1	49	20.10	20.14	20.11		
10	HQDM	25	0	19.16	19.24	19.13	21	3
10	HQDM	25	12	19.20	19.13	19.05		
10	HQDM	25	25	19.10	19.10	19.08		
10	HQDM	50	0	19.08	19.13	19.09		
10	HQDM	1	0	17.12	17.22	17.12		
10	HQDM	1	25	17.06	17.14	17.06	19	5
10	HQDM	1	49	17.11	17.15	17.20		
10	HQDM	25	0	17.13	17.08	17.14	19	5
10	HQDM	25	12	17.03	17.13	17.02		
Channel								
		Frequency (MHz)	1882.5	1880	1912.5			
5	QPSK	1	0	22.16	22.18	22.14	24	0
5	QPSK	1	14	22.03	22.18	22.03		
5	QPSK	1	24	22.15	22.10	22.16		
5	QPSK	12	0	21.30	21.28	21.25		
5	QPSK	12	7	21.21	21.19	21.17	23	1
5	QPSK	12	13	21.13	21.12	21.05		
5	HQDM	1	0	21.41	21.55	21.41		
5	HQDM	1	0	21.41	21.45	21.43	23	1
5	HQDM	12	0	20.22	20.26	20.22		
5	HQDM	12	7	20.10	20.15	20.08	22	2
5	HQDM	12	13	20.08	20.08	20.12		
5	HQDM	25	0	20.01	20.16	20.11		
5	HQDM	1	0	20.21	20.23	20.12	22	2
5	HQDM	1	12	20.01	20.08	20.09		
5	HQDM	1	24	20.08	20.15	20.04		
5	HQDM	12	0	19.21	19.19	19.14	21	3
5	HQDM	12	7	19.16	19.14	19.05		
5	HQDM	12	13	19.15	19.16	19.07		
5	HQDM	25	0	19.13	19.22	19.05		
5	HQDM	1	0	17.11	17.24	17.22		
5	HQDM	1	12	17.01	17.19	17.06	19	5
5	HQDM	1	24	17.10	17.10	17.14		
5	HQDM	12	0	17.17	17.25	17.24		
5	HQDM	12	7	17.04	17.15	17.01	19	5
5	HQDM	12	13	17.14	17.08	17.15		
5	HQDM	25	0	17.19	17.08	17.05		
Channel								
		Frequency (MHz)	1906.5	1880	1869.5			
3	QPSK	1	0	22.18	22.27	22.15	24	0
3	QPSK	1	8	22.07	22.19	22.02		
3	QPSK	1	14	22.08	22.01	22.17		
3	QPSK	8	0	21.27	21.30	21.27		
3	QPSK	8	4	21.21	21.14	21.14	23	1
3	QPSK	8	7	21.17	21.10	21.03		
3	HQDM	1	0	21.41	21.49	21.41		
3	HQDM	1	0	21.37	21.45	21.43	23	1
3	HQDM	8	0	20.21	20.26	20.24		
3	HQDM	8	4	20.15	20.21	20.02	22	2
3	HQDM	8	7	20.07	20.08	20.14		
3	HQDM	16	0	20.08	20.10	20.10		
3	HQDM	1	0	20.16	20.20	20.11	22	2
3	HQDM	1	8	20.05	20.11	20.11		
3	HQDM	1	14	20.05	20.16	20.11		
3	HQDM	8	0	19.19	19.24	19.11	21	3
3	HQDM	8	4	19.20	19.16	19.11		
3	HQDM	8	7	19.17	19.17	19.13		
3	HQDM	16	0	17.09	17.23	17.18		
3	HQDM	1	0	17.05	17.10	17.05	19	5
3	HQDM	1	8	17.18	17.20	17.12		
3	HQDM	1	14	17.18	17.09	17.12		
3	HQDM	8	0	17.17	17.15	17.15		
3	HQDM	8	4	17.01	17.15	17.05	19	5
3	HQDM	8	7	17.15	17.07	17.14		
3	HQDM	16	0	17.10	17.11	17.02	19	5
Channel								
		Frequency (MHz)	1934.7	1880	1883.3			
1.4	QPSK	1	0	22.18	22.29	22.24	24	0
1.4	QPSK	1	3	22.04	22.28	22.22		
1.4	QPSK	1	6	22.08	22.28	22.17		
1.4	QPSK	3	0	22.04	22.08	22.18		
1.4	QPSK	3	1	22.04	22.08	22.18	23	1
1.4	QPSK	3	3	22.00	22.16	22.15		
1.4	QPSK	3	6	21.12	21.34			



Band 4 Ant1 Default											
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up	MPE			
Ch./Freq.	Ch./Freq.	Ch./Freq.	Ch./Freq.	Low Ch./Freq.	Med Ch./Freq.	High Ch./Freq.	lim1 (dB)	(dB)	Ch./Freq.	Ch./Freq.	Ch./Freq.
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.79	22.83	22.80					
20	QPSK	1	49	22.80	22.86	22.87					
20	QPSK	1	99	22.80	22.86	22.87	24	0			
20	QPSK	50	0	21.98	21.99	21.91					
20	QPSK	50	24	21.99	21.99	21.99					
20	QPSK	50	50	21.72	21.78	21.78	23	1			
20	QPSK	100	0	21.63	21.71	21.69					
20	QPSK	100	24	22.11	22.14	22.09					
20	HQAM	1	49	21.97	22.01	21.99	23	1			
20	HQAM	1	99	22.01	22.01	21.96					
20	HQAM	50	0	20.91	21.03	20.99					
20	HQAM	50	24	20.92	20.95	20.87	22	2			
20	HQAM	100	0	20.81	20.88	20.78					
20	HQAM	100	24	20.85	20.87	20.82					
20	HQAM	1	0	21.01	21.07	21.01					
20	HQAM	1	49	20.86	20.86	20.87					
20	HQAM	1	99	20.90	20.98	20.90					
20	HQAM	50	0	19.96	20.04	19.96					
20	HQAM	50	24	19.98	20.09	20.00					
20	HQAM	100	0	19.97	19.99	19.90					
20	HQAM	100	24	20.18	20.32	20.22	21	3			
20	HQAM	1	0	17.29	17.48	17.76					
20	HQAM	1	49	17.72	17.78	17.67	19	5			
20	HQAM	1	99	17.68	17.67	17.43					
20	HQAM	50	0	19.97	19.97	19.82					
20	HQAM	50	24	17.38	17.62	17.40	19	5			
20	HQAM	100	0	17.48	17.63	17.58					
20	HQAM	100	24	17.49	17.62	17.59					
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.67	22.76	22.73					
15	QPSK	1	37	22.62	22.64	22.62	24	0			
15	QPSK	1	74	22.62	22.48	22.42					
15	QPSK	50	0	21.88	21.91	21.78					
15	QPSK	50	24	21.79	21.86	21.79	23	1			
15	QPSK	36	36	21.65	21.65	21.61					
15	QPSK	75	0	21.87	21.89	21.84					
15	QPSK	75	24	21.97	22.07	22.02					
15	HQAM	1	37	21.84	21.92	21.84	23	1			
15	HQAM	1	74	21.86	21.87	21.82					
15	HQAM	50	0	20.77	20.91	20.83					
15	HQAM	50	24	20.70	20.80	20.79	22	2			
15	HQAM	100	0	20.73	20.81	20.68					
15	HQAM	100	24	20.73	20.81	20.68					
15	HQAM	1	0	20.88	21.01	20.92	22	2			
15	HQAM	1	37	20.88	20.88	20.84					
15	HQAM	1	74	20.76	20.86	20.83					
15	HQAM	36	0	19.81	19.97	19.81					
15	HQAM	36	24	19.86	19.99	19.96					
15	HQAM	36	36	19.87	19.94	19.95	21	3			
15	HQAM	75	0	20.50	20.24	20.09					
15	HQAM	75	24	17.66	17.66	17.66					
15	HQAM	1	37	17.58	17.67	17.61	19	5			
15	HQAM	1	74	17.38	17.47	17.30					
15	HQAM	50	0	17.44	17.42	17.44					
15	HQAM	50	24	17.36	17.43	17.33	19	5			
15	HQAM	36	36	17.40	17.53	17.45					
15	HQAM	75	0	17.45	17.40	17.48					
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.68	22.78	22.77					
10	QPSK	1	25	22.57	22.65	22.55	24	0			
10	QPSK	1	49	22.54	22.49	22.47					
10	QPSK	50	0	21.86	21.88	21.81					
10	QPSK	50	25	21.77	21.83	21.78	23	1			
10	QPSK	25	25	21.59	21.68	21.68					
10	QPSK	75	0	21.97	22.07	22.02					
10	HQAM	1	0	22.00	22.07	22.03					
10	HQAM	1	25	21.89	21.91	21.86	23	1			
10	HQAM	1	49	21.86	21.87	21.82					
10	HQAM	25	0	20.89	20.97	20.77					
10	HQAM	25	12	20.87	20.85	20.79	22	2			
10	HQAM	50	0	20.71	20.86	20.72					
10	HQAM	50	1	20.88	20.94	20.89					
10	HQAM	100	0	20.74	20.82	20.74	22	2			
10	HQAM	100	1	20.76	20.88	20.88					
10	HQAM	25	0	19.89	19.97	19.90					
10	HQAM	25	12	19.85	19.98	19.79	21	3			
10	HQAM	50	0	19.81	19.88	19.79					
10	HQAM	50	1	20.11	20.22	20.28					
10	HQAM	100	0	17.65	17.77	17.66	19	5			
10	HQAM	100	1	17.65	17.73	17.58					
10	HQAM	25	12	17.29	17.42	17.36	19	5			
10	HQAM	25	25	17.35	17.40	17.47					
10	HQAM	50	0	17.58	17.62	17.49					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.62	22.59	22.60					
5	QPSK	1	24	22.51	22.46	22.47	24	0			
5	QPSK	50	0	21.86	21.88	21.81					
5	QPSK	12	7	21.80	21.85	21.75	23	1			
5	QPSK	12	13	21.68	21.84	21.63					
5	QPSK	25	0	21.63	21.67	21.68					
5	HQAM	1	0	22.01	22.03	22.00					
5	HQAM	1	12	21.98	21.93	21.88	23	1			
5	HQAM	1	24	21.98	21.97	21.94					
5	HQAM	12	0	20.82	20.89	20.77					
5	HQAM	12	7	20.69	20.80	20.73	22	2			
5	HQAM	18	0	20.69	20.79	20.69					
5	HQAM	25	0	20.71	20.81	20.70					
5	HQAM	1	0	20.90	20.93	20.96	22	2			
5	HQAM	1	12	20.77	20.92	20.86					
5	HQAM	1	24	20.80	20.95	20.85					
5	HQAM	12	0	19.82	19.92	19.87					
5	HQAM	12	7	19.83	19.95	19.85	21	3			
5	HQAM	12	13	19.77	19.89	19.78					
5	HQAM	25	0	20.72	20.21	20.13					
5	HQAM	25	1	17.83	17.88	17.83	19	5			
5	HQAM	1	12	17.62	17.68	17.58					
5	HQAM	1	24	17.40	17.44	17.30					
5	HQAM	12	0	17.48	17.52	17.48					
5	HQAM	12	13	17.40	17.42	17.31	19	5			
5	HQAM	25	0	17.55	17.64	17.48					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	22.65	22.73	22.73					
1.4	QPSK	1	8	22.65	22.64	22.58	24	0			
1.4	QPSK	1	14	22.52	22.51	22.46					
1.4	QPSK	50	0	21.89	21.84	21.77					
1.4	QPSK	8	4	21.76	21.78	21.81	23	1			
1.4	QPSK	8	7	21.61	21.71	21.68					
1.4	QPSK	15	0	21.63	21.67	21.69					
1.4	HQAM	1	0	22.08	22.00	22.01					
1.4	HQAM	1	8	21.83	21.87	21.81	23	1			
1.4	HQAM	1	14	21.87	21.91	21.84					
1.4	HQAM	3	0	20.79	20.94	20.75					
1.4	HQAM	3	4	20.74	20.89	20.80	22	2			
1.4	HQAM	3	7	20.69	20.77	20.66					
1.4	HQAM	15	0	20.71	20.78	20.77					
1.4	HQAM	1	0	20.91	20.94	20.88					
1.4	HQAM	1	8	20.72	20.84	20.74	22	2			
1.4	HQAM	1	14	20.76	20.84	20.86					
1.4	HQAM	3	0	19.89	19.98	19.87					
1.4	HQAM	3	4	19.87	19.92	19.83	21	3			
1.4	HQAM	3	7	19.72	19.91	19.82					
1.4	HQAM	15	0	20.68	20.66	20.64					
1.4	HQAM	15	0	17.68	17.75	17.65	19	5			
1.4	HQAM	1	8	17.65	17.69	17.55					
1.4	HQAM	1	14	17.43	17.45	17.38					
1.4	HQAM	3	0	17.43	17.54	17.46	19	5			
1.4	HQAM	3	4	17.29	17.43	17.29					
1.4	HQAM	3	7	17.03	17.08	17.04	19	5			
1.4	HQAM	15	0	17.57	17.66	17.52					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	22.14	22.23	22.24					
1.4	QPSK	1	3	22.05	22.26	22.10	24	0			
1.4	QPSK	1	3	22.13	22.24	22.10					
1.4	QPSK	50	0	22.04	22.29	22.19					
1.4	QPSK	3	1	22.04	22.26	22.21	23	1			
1.4	QPSK	3	3	22.15	22.16	22.24					
1.4	HQAM	1	0	21.98	21.91	21.96					
1.4	HQAM	1	3	21.01	21.38	21.11	23	1			
1.4	HQAM	3	0	21.18	21.37	21.23			</		



Band 38 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.08	23.25	23.17			
20	QPSK	1	49	23.12	23.18	23.15			24
20	QPSK	1	99	23.03	23.08	23.06			
20	QPSK	50	0	22.21	22.26	22.20			
20	QPSK	50	24	22.01	22.15	22.10			23
20	QPSK	50	50	22.02	22.11	22.04			
20	QPSK	100	0	22.21	22.41	22.27			
20	16QAM	1	0	22.21	22.36	22.28			
20	16QAM	1	49	22.10	22.23	22.13			23
20	16QAM	1	99	22.12	22.19	22.14			
20	16QAM	50	0	21.54	21.54	21.48			
20	16QAM	50	24	21.40	21.47	21.32			22
20	16QAM	50	50	21.36	21.45	21.31			
20	16QAM	100	0	21.39	21.41	21.42			
20	64QAM	1	0	21.36	21.17	21.13			
20	64QAM	1	49	21.02	21.13	21.01			22
20	64QAM	1	99	21.04	21.15	21.08			
20	64QAM	50	0	20.43	20.56	20.54			
20	64QAM	50	24	20.38	20.52	20.43			21
20	64QAM	50	50	20.42	20.50	20.45			
20	64QAM	100	0	20.41	20.48	20.37			
20	256QAM	1	0	18.37	18.42	18.40			19
20	256QAM	1	49	18.24	18.31	18.16			
20	256QAM	1	99	18.23	18.24	18.14			
20	256QAM	50	0	18.36	18.36	18.40			19
20	256QAM	50	24	18.20	18.35	18.18			
20	256QAM	50	50	18.22	18.28	18.18			
20	256QAM	100	0	18.25	18.29	18.17			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.17	23.18	23.13			24
15	QPSK	1	37	23.10	23.11	23.09			
15	QPSK	1	74	23.05	23.13	23.09			
15	QPSK	36	0	22.06	22.13	22.12			
15	QPSK	36	20	22.02	22.06	22.07			23
15	QPSK	36	39	22.11	22.15	22.13			
15	QPSK	75	0	22.09	22.30	22.29			
15	16QAM	1	0	22.10	22.24	22.18			23
15	16QAM	1	37	22.05	22.11	22.07			
15	16QAM	1	74	22.03	22.13	22.04			
15	16QAM	36	0	21.47	21.43	21.38			22
15	16QAM	36	20	21.29	21.34	21.28			
15	16QAM	36	39	21.23	21.35	21.22			
15	16QAM	75	0	21.28	21.29	21.34			
15	64QAM	1	0	21.22	21.07	21.07			22
15	64QAM	1	37	21.03	21.09	21.01			
15	64QAM	1	74	21.08	21.11	21.06			
15	64QAM	36	0	20.29	20.43	20.43			21
15	64QAM	36	20	20.31	20.37	20.37			
15	64QAM	36	39	20.33	20.44	20.33			
15	64QAM	75	0	20.32	20.40	20.29			
15	256QAM	1	0	18.29	18.28	18.26			19
15	256QAM	1	37	18.17	18.21	18.03			
15	256QAM	1	74	18.08	18.18	18.00			
15	256QAM	36	0	18.22	18.30	18.31			19
15	256QAM	36	20	18.08	18.25	18.05			
15	256QAM	36	39	18.13	18.14	18.06			
15	256QAM	75	0	18.17	18.19	18.05			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.13	23.19	23.15			24
10	QPSK	1	25	23.10	23.12	23.13			
10	QPSK	1	49	23.08	23.14	23.02			
10	QPSK	25	0	22.14	22.20	22.10			
10	QPSK	25	12	22.06	22.08	22.07			23
10	QPSK	25	25	22.01	22.06	22.00			
10	QPSK	50	0	22.08	22.36	22.21			
10	16QAM	1	0	22.10	22.30	22.16			23
10	16QAM	1	25	22.05	22.12	22.04			
10	16QAM	1	49	22.01	22.07	22.09			
10	16QAM	25	0	21.47	21.44	21.38			22
10	16QAM	25	12	21.34	21.34	21.26			
10	16QAM	25	25	21.26	21.40	21.17			
10	16QAM	50	0	21.32	21.33	21.36			
10	64QAM	1	0	21.27	21.35	21.27			22
10	64QAM	1	25	21.28	21.33	21.23			
10	64QAM	1	49	21.24	21.31	21.21			
10	64QAM	25	0	20.33	20.46	20.40			21
10	64QAM	25	12	20.26	20.39	20.35			
10	64QAM	25	25	20.28	20.41	20.33			
10	64QAM	50	0	20.30	20.36	20.31			
10	256QAM	1	0	18.29	18.35	18.27			19
10	256QAM	1	25	18.10	18.20	18.10			
10	256QAM	1	49	18.10	18.18	18.03			
10	256QAM	25	0	18.26	18.29	18.27			19
10	256QAM	25	12	18.09	18.26	18.03			
10	256QAM	25	25	18.14	18.23	18.12			
10	256QAM	50	0	18.18	18.21	18.03			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.06	23.14	23.07			24
5	QPSK	1	12	23.05	23.11	23.00			
5	QPSK	1	24	23.04	23.09	23.08			
5	QPSK	12	0	22.07	22.11	22.07			
5	QPSK	12	7	22.05	22.09	22.06			23
5	QPSK	12	13	22.07	22.13	22.08			
5	QPSK	25	0	22.12	22.24	22.11			
5	16QAM	1	0	22.01	22.15	22.02			23
5	16QAM	1	12	22.03	22.17	22.15			
5	16QAM	1	24	22.09	22.16	22.00			
5	16QAM	12	0	21.40	21.29	21.26			22
5	16QAM	12	7	21.29	21.27	21.29			
5	16QAM	12	13	21.17	21.29	21.06			
5	16QAM	25	0	21.25	21.21	21.22			
5	64QAM	1	0	21.18	21.21	21.18			22
5	64QAM	1	12	21.23	21.24	21.15			
5	64QAM	1	24	21.16	21.21	21.07			
5	64QAM	12	0	20.24	20.35	20.27			21
5	64QAM	12	7	20.20	20.28	20.28			
5	64QAM	12	13	20.20	20.34	20.21			
5	64QAM	25	0	20.20	20.29	20.22			
5	256QAM	1	0	18.24	18.29	18.19			19
5	256QAM	1	12	18.03	18.12	18.02			
5	256QAM	1	24	18.03	18.07	18.05			
5	256QAM	12	0	18.18	18.21	18.20			19
5	256QAM	12	7	18.13	18.17	18.12			
5	256QAM	12	13	18.04	18.18	18.06			
5	256QAM	25	0	18.12	18.15	18.11			

Band 41 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40555			
Frequency (MHz)				2506	2549.5	2593			
20	QPSK	1	0	23.18	23.31	23.32			24
20	QPSK	1	49	23.02	23.13	23.21			
20	QPSK	1	99	23.08	23.15	23.16			
20	QPSK	50	0	22.64	22.56	22.97			
20	QPSK	50	24	22.51	22.52	22.86			23
20	QPSK	50	50	22.62	22.57	22.86			
20	QPSK	100	0	22.55	22.68	22.91			
20	16QAM	1	0	22.53	22.57	22.79			23
20	16QAM	1	49	22.67	22.62	22.82			
20	16QAM	1	99	22.46	22.46	22.79			
20	16QAM	50	0	21.48	21.53	21.51			22
20	16QAM	50	24	21.34	21.42	21.38			
20	16QAM	50	50	21.35	21.39	21.37			
20	16QAM	100	0	21.44	21.52	21.47			
20	64QAM	1	0	21.26	21.13	21.23			22
20	64QAM	1	49	21.13	21.03	21.13			
20	64QAM	1	99	21.14	21.02	21.17			
20	64QAM	50	0	20.47	20.51	20.52			21
20	64QAM	50	24	20.37	20.37	20.38			
20	64QAM	50	50	20.36	20.40	20.41			
20	64QAM	100	0	20.52	20.44	20.46			
20	256QAM	1	0	18.19	18.22	18.30			19
20	256QAM	1	49	18.05	18.14	18.21			
20	256QAM	1	99	18.06	18.14	18.20			
20	256QAM	50	0	18.12	18.28	18.32			19
20	256QAM	50	24	18.13	18.16	18.18			
20	256QAM	50	50	18.10	18.16	18.13			
20	256QAM	100	0	18.13	18.25	18.33			
Channel				39725	40173	40620			
Frequency (MHz)				2503.5	2548.3	2593			
15	QPSK	1	0	23.00	23.19	23.22			24
15	QPSK	1	37	23.09	23.08	23.14			
15	QPSK	1	74	23.02	23.06	23.07			
15	QPSK	36	0	22.52	22.48	22.86			
15	QPSK	36	20	22.39	22.46	22.77			23
15	QPSK	36	39	22.51	22.45	22.71			



Band 42 Part 27Q Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	22.55	22.72	22.35	24	0	
20	QPSK	1	49	22.40	22.66	22.36			
20	QPSK	1	99	22.42	22.63	22.45			
20	QPSK	50	0	21.54	21.72	21.42	23	1	
20	QPSK	50	24	21.47	21.81	21.28			
20	QPSK	50	50	21.49	21.84	21.31			
20	QPSK	100	0	21.47	21.56	21.54	23	1	
20	16QAM	1	0	21.67	21.73	21.59			
20	16QAM	1	49	21.57	21.59	21.46			
20	16QAM	1	99	21.53	21.68	21.50	22	2	
20	16QAM	50	0	20.51	20.64	20.47			
20	16QAM	50	24	20.46	20.54	20.41			
20	16QAM	50	50	20.39	20.59	20.34	22	2	
20	16QAM	100	0	20.24	20.25	20.34			
20	64QAM	1	0	20.10	20.17	20.18			
20	64QAM	1	49	20.00	20.09	20.17	22	2	
20	64QAM	1	99	20.02	20.18	20.12			
20	64QAM	50	0	19.33	19.35	19.37			
20	64QAM	50	24	19.20	19.22	19.26	21	3	
20	64QAM	50	50	19.23	19.25	19.25			
20	64QAM	100	0	19.24	19.29	19.30			
20	256QAM	1	0	17.50	17.71	17.36	19	5	
20	256QAM	1	49	17.37	17.65	17.37			
20	256QAM	1	99	17.43	17.63	17.41			
20	256QAM	50	0	17.59	17.69	17.37	19	5	
20	256QAM	50	24	17.40	17.64	17.32			
20	256QAM	50	50	17.38	17.64	17.40			
20	256QAM	100	0	17.51	17.70	17.35			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	22.41	22.62	22.30	24	0	
15	QPSK	1	37	22.25	22.57	22.30			
15	QPSK	1	74	22.28	22.53	22.38			
15	QPSK	36	0	21.41	21.64	21.31	23	1	
15	QPSK	36	20	21.36	21.48	21.17			
15	QPSK	36	39	21.42	21.57	21.23			
15	QPSK	75	0	21.39	21.41	21.43	23	1	
15	16QAM	1	0	21.55	21.66	21.52			
15	16QAM	1	37	21.50	21.46	21.32			
15	16QAM	1	74	21.39	21.56	21.40	22	2	
15	16QAM	36	0	20.44	20.56	20.35			
15	16QAM	36	20	20.36	20.48	20.29			
15	16QAM	36	39	20.30	20.47	20.26	22	2	
15	16QAM	75	0	20.15	20.20	20.27			
15	64QAM	1	0	20.03	20.03	20.12			
15	64QAM	1	37	20.07	20.11	20.06	22	2	
15	64QAM	1	74	20.16	20.06	20.05			
15	64QAM	36	0	19.22	19.23	19.25			
15	64QAM	36	20	19.08	19.14	19.18	21	3	
15	64QAM	36	39	19.16	19.17	19.14			
15	64QAM	75	0	19.14	19.24	19.22			
15	256QAM	1	0	17.37	17.61	17.23	19	5	
15	256QAM	1	37	17.29	17.50	17.23			
15	256QAM	1	74	17.34	17.52	17.28			
15	256QAM	36	0	17.48	17.60	17.27	19	5	
15	256QAM	36	20	17.31	17.56	17.26			
15	256QAM	36	39	17.25	17.52	17.35			
15	256QAM	75	0	17.40	17.58	17.28			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	22.48	22.66	22.27	24	0	
10	QPSK	1	25	22.32	22.56	22.22			
10	QPSK	1	49	22.37	22.50	22.38			
10	QPSK	25	0	21.45	21.63	21.35	23	1	
10	QPSK	25	12	21.38	21.48	21.18			
10	QPSK	25	25	21.36	21.49	21.20			
10	QPSK	50	0	21.36	21.46	21.39	23	1	
10	16QAM	1	0	21.59	21.59	21.47			
10	16QAM	1	25	21.50	21.45	21.36			
10	16QAM	1	49	21.41	21.60	21.43	22	2	
10	16QAM	25	0	20.36	20.55	20.38			
10	16QAM	25	12	20.32	20.44	20.26			
10	16QAM	25	25	20.31	20.47	20.22	22	2	
10	16QAM	50	0	20.10	20.18	20.20			
10	64QAM	1	0	20.00	20.08	20.05			
10	64QAM	1	25	20.10	20.09	20.04	22	2	
10	64QAM	1	49	20.19	20.13	20.04			
10	64QAM	25	0	19.21	19.29	19.31			
10	64QAM	25	12	19.13	19.12	19.17	21	3	
10	64QAM	25	25	19.14	19.18	19.19			
10	64QAM	50	0	19.12	19.23	19.22			
10	256QAM	1	0	17.45	17.57	17.30	19	5	
10	256QAM	1	25	17.28	17.56	17.23			
10	256QAM	1	49	17.29	17.57	17.30			
10	256QAM	25	0	17.53	17.63	17.26	19	5	
10	256QAM	25	12	17.28	17.57	17.26			
10	256QAM	25	25	17.28	17.49	17.26			
10	256QAM	50	0	17.41	17.62	17.22			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	22.40	22.62	22.22	24	0	
5	QPSK	1	12	22.30	22.51	22.31			
5	QPSK	1	24	22.34	22.51	22.38			
5	QPSK	12	0	21.42	21.64	21.32	23	1	
5	QPSK	12	7	21.33	21.48	21.16			
5	QPSK	12	13	21.40	21.58	21.20			
5	QPSK	25	0	21.36	21.42	21.46	23	1	
5	16QAM	1	0	21.53	21.66	21.51			
5	16QAM	1	12	21.43	21.46	21.39			
5	16QAM	1	24	21.43	21.54	21.45	22	2	
5	16QAM	12	0	20.43	20.50	20.33			
5	16QAM	12	7	20.40	20.43	20.30			
5	16QAM	12	13	20.34	20.47	20.19	22	2	
5	16QAM	25	0	20.11	20.17	20.25			
5	64QAM	1	0	20.03	20.06	20.12			
5	64QAM	1	12	20.08	20.07	20.07	22	2	
5	64QAM	1	24	20.12	20.13	20.02			
5	64QAM	12	0	19.22	19.23	19.29			
5	64QAM	12	7	19.09	19.16	19.16	21	3	
5	64QAM	12	13	19.16	19.14	19.12			
5	64QAM	25	0	19.14	19.19	19.16			
5	256QAM	1	0	17.41	17.60	17.31	19	5	
5	256QAM	1	12	17.31	17.51	17.28			
5	256QAM	1	24	17.38	17.55	17.31			
5	256QAM	12	0	17.49	17.54	17.24	19	5	
5	256QAM	12	7	17.28	17.49	17.18			
5	256QAM	12	13	17.27	17.55	17.31			
5	256QAM	25	0	17.45	17.59	17.27			

Band 7 Ant5 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	22.45	22.72	22.62	24	0		
20	QPSK	1	49	22.31	22.62	22.53				
20	QPSK	1	99	22.27	22.58	22.47				
20	QPSK	50	0	21.67	21.92	21.62	23	1		
20	QPSK	50	24	21.54	21.78	21.56				
20	QPSK	50	50	21.59	21.81	21.53				
20	QPSK	100	0	21.63	21.82	21.75	23	1		
20	16QAM	1	0	22.01	22.27	22.16				
20	16QAM	1	49	21.92	22.13	22.09				
20	16QAM	1	99	21.90	22.21	22.03	22	2		
20	16QAM	50	0	20.87	20.91	20.66				
20	16QAM	50	24	20.74	20.85	20.52				
20	16QAM	50	50	20.79	20.84	20.56	22	2		
20	16QAM	100	0	20.83	20.94	20.91				
20	64QAM	1	0	20.55	20.74	20.48				
20	64QAM	1	49	20.43	20.69	20.36	22	2		
20	64QAM	1	99	20.50	20.59	20.33				
20	64QAM	50	0	19.75	19.94	19.68				
20	64QAM	50	24	19.61	19.84	19.55	21	3		
20	64QAM	50	50	19.51	19.80	19.50				
20	64QAM	100	0	19.73	19.90	19.86				
20	256QAM	1	0	17.46	17.67	17.65	19	5		
20	256QAM	1	49	17.27	17.61	17.52				
20	256QAM	1	99	17.25	17.56	17.44				
20	256QAM	50	0	17.43	17.72	17.67	19	5		
20	256QAM	50	24	17.32	17.59	17.49				
20	256QAM	50	50	17.31	17.53	17.50				
20	256QAM	100	0	17.26	17.44	17.35				
Channel				20825	21100	21375				
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	22.31	22.57	22.51	24	0		
15	QPSK	1	37	22.22	22.51	22.47				
15	QPSK	1	74	22.16	22.45	22.40				
15	QPSK	36	0	21.53	21.80	21.55	23	1		
15	QPSK	36	20	21.42	21.73	21.46				
15	QPSK	36	39	21.49	21.74	21.43				
15	QPSK	75	0	21.57	21.68	21.61	23	1		
15	16QAM	1	0	21.92	22.14	22.06				
15	16QAM	1	37	21.85	22.03	21.97				
15	16QAM	1	74	21.82	22.14	21.90	22	2		
15	16QAM	36	0	20.73	20.83	20.54				
15	16QAM	36	20	20.63	20.75	20.42				
15	16QAM	36	39	20.66	20.77	20.46	22	2		
15	16QAM	75	0	20.75	20.88	20.80				
15	64QAM	1	0	20.43	20.60	20.40				
15	64QAM	1	37	20.37	20.54	20.27	21	3		
15	64QAM	1	74	20.43	20.53	20.26				
15	64QAM	36	0	19.60	19.84	19.54				
15	64QAM	36	20	19.50	19.75	19.45	19	5		
15	64QAM	36	39	19.40	19.68	19.39				
15	64QAM	75	0	19.65	19.79	19.71				
15	256QAM	1	0	17.50	17.73	17.66	19	5		
15	256QAM	1	37	17.35	17.62	17.55				
15	256QAM	1	74	17.30	17.59	17.50				
15	256QAM	36	0	17.47	17.74	17.67	19	5		
15	256QAM	36	20	17.29	17.57	17.58				
15	256QAM	36	39	17.27	17.55	17.48				
15	256QAM	75	0	17.29	17.57	17.46				
Channel				20800	21100	21400				
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	22.39	22.59	22.53	24	0		
10	QPSK	1	25	22.23	22.52	22.47				
10	QPSK	1	49	22.16	22.45	22.37				
10	QPSK	25	0	21.54	21.85	21.55	23	1		
10	QPSK	25	12	21.46	21.71	21.49				
10	QPSK	25	25	21.54	21.71	21.40				
10	QPSK	50	0	21.57	21.73	21.63	23	1		
10	16QAM	1	0	21.94	22.22	22.08				
10	16QAM	1	25	21.80	21.99	22.02				
10	16QAM	1	49	21.85	22.15	21.89	22	2		
10	16QAM	25	0	20.74	20.85	20.54				
10	16QAM	25	12	20.83	20.74	20.39				
10	16QAM	25	25	20.66	20.71	20.50	22	2		
10	16QAM	50	0	20.70	20.80	20.79				
10	64QAM	1	0	20.46	20.65	20.42				
10	64QAM	1	25	20.38	20.63	20.29	21	3		
10	64QAM	1	49	20.35	20.45	20.27				
10	64QAM	25	0	19.81	19.79	19.54				
10	64QAM	25	12	19.53	19.75	19.45	19	5		
10	64QAM	25	25	19.40	19.72	19.38				
10	64QAM	50	0	19.59	19.80	19.75				
10	256QAM	1	0	17.37	17.63	17.50	19	5		
10	256QAM	1	25	17.21	17.53	17.47				
10	256QAM	1	49	17.14	17.42	17.37				
10	256QAM	25	0	17.42	17.57	17.52	19	5		
10	256QAM	25	12	17.27	17.51	17.47				
10	256QAM	25	25	17.13	17.44	17.34				
10	256QAM	50	0	17.43	17.57	17.49				
Channel				20775	21160	21425				
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	22.30	22.59	22.53	24	0		
5	QPSK	1	12	22.17	22.49	22.39				
5	QPSK	1	24	22.20	22.46	22.38				
5	QPSK	12	0	21.54	21.83	21.51	23	1		
5	QPSK	12	7	21.42	21.67	21.48				
5	QPSK	12	13	21.53	21.71	21.48				
5	QPSK	25	0	21.57	21.75	21.67	23	1		
5	16QAM	1	0	21.89	22.19	22.10				
5	16QAM	1	12	21.85	22.00	22.01				
5	16QAM	1	24	21.81	22.10	21.92	22	2		
5	16QAM	12	0	20.78	20.81	20.58				
5	16QAM	12	7	20.65	20.73	20.46				
5	16QAM	12	13	20.66	20.76	20.42	22	2		
5	16QAM	25	0	20.78	20.86	20.76				
5	64QAM	1	0	20.49	20.62	20.34				
5	64QAM	1	12	20.33	20.55	20.28	21	3		
5	64QAM	1	24	20.38	20.47	20.28				
5	64QAM	12	0	19.67	19.80	19.58				
5	64QAM	12	7	19.48	19.73	19.46	19	5		
5	64QAM	12	13	19.40	19.73	19.42				
5	64QAM	25	0	19.61	19.76	19.73				
5	256QAM	1	0	17.52	17.64	17.55	19	5		
5	256QAM	1	12	17.37	17.51	17.34				
5	256QAM	1	24	17.20	17.45	17.43				
5	256QAM	12	0	17.29	17.62	17.56	19	5		
5	256QAM	12	7	17.16	17.47	17.39				
5	256QAM	12	13	17.18	17.45	17.37				
5	256QAM	25	0	17.25	17.58	17.51				

Band 38 Ant5 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	22.94	22.95	22.93	24	0		
20	QPSK	1	49	22.75	22.87	22.80				
20	QPSK	1	99	22.73	22.85	22.78				
20	QPSK	50	0	21.91	21.94	21.89	23	1		
20	QPSK	50	24	21.81	21.91	21.84				
20	QPSK	50	50	21.77	21.88	21.78				
20	QPSK	100	0	21.82	21.95	21.81	23	1		
20	16QAM	1	0	21.65	21.71	21.62				
20	16QAM	1	49	21.53	21.65	21.59				
20	16QAM	1	99	21.55	21.68	21.61	22	2		
20	16QAM	50	0	20.91	21.00	20.89				
20	16QAM	50	24	20.91	20.98	20.93				
20	16QAM	50	50	20.83	20.95	20.82	22	2		
20	16QAM	100	0	20.79	20.87	20.78				
20	64QAM	1	0	21.10	21.20	21.10				
20	64QAM	1	49	20.98	21.05	20.95	22	2		
20	64QAM	1	99	21.06	21.17	21.02				
20	64QAM	50	0	19.78	19.89	19.75				
20	64QAM	50	24	19.63	19.77	19.62	21	3		
20	64QAM	50	50	19.77	19.86	19.71				
20	64QAM	100	0	19.91	19.98	19.84				
20	256QAM	1	0	17.95	17.90	17.91	19	5		
20	256QAM	1	49	17.71	17.84	17.77				
20	256QAM	1	99	17.78	17.85	17.78				
20	256QAM	50	0	17.90	17.93	17.90	19	5		
20	256QAM	50	24	17.76	17.90	17.81				
20	256QAM	50	50	17.68	17.86	17.77				
20	256QAM	100	0	17.65	17.88	17.73				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.84	22.88	22.83	24	0		
15	QPSK	1	37	22.68	22.77	22.69				
15	QPSK	1	74	22.68	22.77	22.68				
15	QPSK	36	0	21.82	21.83	21.83	23	1		
15	QPSK	36	20	21.72	21.88	21.73				
15	QPSK	36	39	21.65	21.77	21.71				
15	QPSK	75	0	21.75	21.80	21.71	23	1		
15	16QAM	1	0	21.54	21.59	21.56				
15	16QAM	1	37	21.47	21.55	21.51				
15	16QAM	1	74	21.42	21.56	21.48	22	2		
15	16QAM	36	0	20.84	20.94	20.82				
15	16QAM	36	20	20.79	20.83	20.79				
15	16QAM	36	39	20.71	20.84	20.76	22	2		
15	16QAM	75	0	20.64	20.81	20.67				
15	64QAM	1	0	20.99	21.09	21.00				
15	64QAM	1	37	20.85	20.95	20.82	22	2		
15	64QAM	1	74	20.96	21.07	20.93				
15	64QAM	36	0	19.70	19.80	19.69				
15	64QAM	36	20	19.57	19.62	19.54	21	3		
15	64QAM	36	39	19.70	19.80	19.58				
15	64QAM	75	0	19.76	19.92	19.70				
15	256QAM	1	0	17.87	17.78	17.83	19	5		
15	256QAM	1	37	17.62	17.78	17.67				
15	256QAM	1	74	17.71	17.80	17.67				
15	256QAM	36	0	17.76	17.80	17.76	19	5		
15	256QAM	36	20	17.67	17.84	17.70				
15	256QAM	36	39	17.54	17.72	17.72				
15	256QAM	75	0	17.51	17.82	17.62				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.86	22.87	22.82	24	0		
10	QPSK	1	25	22.61	22.75	22.68				
10	QPSK	1	49	22.60	22.75	22.64				
10	QPSK	25	0	21.85	21.77	21.78	23	1		
10	QPSK	25	12	21.74	21.87	21.73				
10	QPSK	25	25	21.65	21.73	21.70				
10	QPSK	50	0	21.75	21.83	21.73	23	1		
10	16QAM	1	0	21.53	21.61	21.56				
10	16QAM	1	25	21.39	21.59	21.52				
10	16QAM	1	49	21.47	21.56	21.46	22	2		
10	16QAM	25	0	20.77	20.88	20.83				
10	16QAM	25	12	20.85	20.89	20.84				
10	16QAM	25	25	20.77	20.82	20.75	22	2		
10	16QAM	50	0	20.69	20.75	20.63				
10	64QAM	1	0	21.02	21.08	21.05				
10	64QAM	1	25	20.91	20.94	20.85	22	2		
10	64QAM	1	49	20.92	21.08	20.93				
10	64QAM	25	0	19.69	19.75	19.63				
10	64QAM	25	12	19.48	19.70	19.54	21	3		
10	64QAM	25	25	19.63	19.78	19.58				
10	64QAM	50	0	19.84	19.92	19.78				
10	256QAM	1	0	17.90	17.81	17.83	19	5		
10	256QAM	1	25	17.63	17.72	17.70				
10	256QAM	1	49	17.73	17.76	17.72				
10	256QAM	25	0	17.82	17.82	17.79	19	5		
10	256QAM	25	12	17.70	17.83	17.74				
10	256QAM	25	25	17.54	17.79	17.70				
10	256QAM	50	0	17.51	17.83	17.66				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.80	22.87	22.81	24	0		
5	QPSK	1	12	22.66	22.78	22.69				
5	QPSK	1	24	22.61	22.76	22.65				
5	QPSK	12	0	21.84	21.76	21.76	23	1		
5	QPSK	12	7	21.71	21.85	21.70				
5	QPSK	12	13	21.66	21.73	21.65				
5	QPSK	25	0	21.73	21.82	21.71	23	1		
5	16QAM	1	0	21.55	21.56	21.51				
5	16QAM	1	12	21.41	21.55	21.46				
5	16QAM	1	24	21.46	21.62	21.50	22	2		
5	16QAM	12	0	20.81	20.93	20.77				
5	16QAM	12	7	20.79	20.92	20.85				
5	16QAM	12	13	20.75	20.87	20.74	22	2		
5	16QAM	25	0	20.70	20.77	20.69				
5	64QAM	1	0	20.98	21.06	21.04				
5	64QAM	1	12	20.92	20.93	20.86	22	2		
5	64QAM	1	24	20.92	21.05	20.89				
5	64QAM	12	0	19.68	19.75	19.68				
5	64QAM	12	7	19.50	19.69	19.52	21	3		
5	64QAM	12	13	19.69	19.76	19.56				
5	64QAM	25	0	19.84	19.91	19.69				
5	256QAM	1	0	17.89	17.79	17.85	19	5		
5	256QAM	1	12	17.59	17.70	17.70				
5	256QAM	1	24	17.67	17.79	17.70				
5	256QAM	12	0	17.80	17.83	17.77	19	5		
5	256QAM	12	7	17.64	17.82	17.70				
5	256QAM	12	13	17.57	17.81	17.70				
5	256QAM	25	0	17.53	17.78	17.64				



Reduced Power Mode for DS12 Standalone

GSM850 Ant0 DS12 Standalone													
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	824.2	836.4	848.8	824.2	836.4	848.8							
Frequency (MHz)	32.30	32.53	32.44	33.50	23.30	23.53	23.44	24.50					
GSM 1 Tx slot	32.31	32.55	32.46	33.50	23.31	23.55	23.46	24.50					
GPRS 1 Tx slot	30.72	30.88	30.75	32.00	24.72	24.88	24.75	26.00					
GPRS 2 Tx slots	28.67	28.78	28.74	30.00	24.41	24.52	24.48	25.74					
GPRS 3 Tx slots	28.61	28.66	28.71	27.50	23.81	23.86	23.71	24.50					
GPRS 4 Tx slots	26.14	26.24	26.17	27.00	17.14	17.24	17.17	18.00					
EDGE 1 Tx slot	24.94	25.10	25.00	26.00	18.94	19.10	19.00	20.00					
EDGE 2 Tx slots	22.92	22.76	22.91	24.00	18.66	18.50	18.65	19.74					
EDGE 3 Tx slots	20.81	20.76	20.47	22.00	17.81	17.76	17.47	19.00					
EDGE 4 Tx slots													
GSM1900 Ant0 DS12 Standalone													
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)					
	512	661	810		512	661	810						
TX Channel	1559.2	1650	1699.8	1559.2	1650	1699.8							
Frequency (MHz)	29.95	30.02	29.91	30.50	20.95	21.02	20.91	21.50					
GSM 1 Tx slot	30.04	30.06	29.68	30.50	21.04	21.06	20.68	21.50					
GPRS 1 Tx slot	28.44	28.52	28.17	29.50	22.44	22.52	22.17	23.50					
GPRS 2 Tx slots	26.42	26.55	26.22	27.50	22.16	22.29	21.96	23.24					
GPRS 3 Tx slots	24.23	24.28	23.95	25.00	21.23	21.28	20.95	22.00					
GPRS 4 Tx slots	25.67	25.85	25.47	27.00	16.67	16.85	16.47	18.00					
EDGE 1 Tx slot	24.46	24.52	24.17	25.50	18.46	18.52	18.17	19.50					
EDGE 2 Tx slots	22.44	22.44	22.00	23.50	18.18	18.18	17.74	19.24					
EDGE 3 Tx slots	20.22	20.31	20.01	21.50	17.22	17.31	17.01	18.50					
EDGE 4 Tx slots													
WCDMA II Ant0 DS12 Standalone													
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V				
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9662	9800	9938	1537	1638	1738	4357	4407	4468				
Rx Channel	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
Frequency (MHz)													
3GPP Rel 99	AMR 12.2Kbps	22.80	22.82	22.61	24.00	22.91	23.02	22.93	24.00	22.86	23.12	23.10	24.00
3GPP Rel 99	RMC 12.2Kbps	22.95	22.99	22.77	24.00	23.02	23.17	23.06	24.00	23.00	23.24	23.23	24.00
3GPP Rel 6	HSDPA Subtest-1	21.86	21.97	21.85	23.00	21.69	21.82	21.70	23.00	21.81	22.00	21.81	23.00
3GPP Rel 6	HSDPA Subtest-2	21.87	22.02	21.96	23.00	21.75	21.89	21.81	23.00	21.84	22.06	21.91	23.00
3GPP Rel 6	HSDPA Subtest-3	21.48	21.45	21.55	22.50	21.34	21.25	21.35	22.50	21.50	21.40	21.54	22.50
3GPP Rel 6	HSDPA Subtest-4	21.41	21.51	21.51	22.50	21.30	21.38	21.42	22.50	21.47	21.51	21.62	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.01	22.00	21.76	23.00	21.83	21.89	21.62	23.00	21.95	22.00	21.73	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.81	22.06	21.88	23.00	21.72	21.89	21.76	23.00	21.85	22.10	21.88	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.52	21.54	21.46	22.50	21.37	21.42	21.37	22.50	21.47	21.62	21.52	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.37	21.58	21.53	22.50	21.18	21.47	21.40	22.50	21.37	21.57	21.51	22.50
3GPP Rel 6	HSUPA Subtest-1	21.81	21.98	21.88	23.00	21.67	21.81	21.76	23.00	21.82	21.99	21.90	23.00
3GPP Rel 6	HSUPA Subtest-2	20.01	20.07	19.97	21.00	19.92	19.88	19.88	21.00	20.04	20.06	20.08	21.00
3GPP Rel 6	HSUPA Subtest-3	20.90	20.99	20.87	22.00	20.78	20.85	20.69	22.00	20.91	21.01	20.84	22.00
3GPP Rel 6	HSUPA Subtest-4	20.01	19.94	19.82	21.00	19.80	19.85	19.70	21.00	19.92	19.95	19.83	21.00
3GPP Rel 6	HSUPA Subtest-5	21.93	21.91	22.03	23.00	21.79	21.78	21.92	23.00	21.95	21.95	22.03	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.43	19.52	19.44	20.50	19.29	19.36	19.29	20.50	19.48	19.55	19.40	20.50



Band 2 Ant0 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.23	22.27	22.24		
40	QPSK	1	49	22.18	22.19	22.18	24	0
20	QPSK	1	99	22.16	22.22	22.18		
20	QPSK	50	0	21.35	21.36	21.35		
24	QPSK	3	1	21.23	21.28	21.25		
20	QPSK	50	50	21.19	21.24	21.21	23	1
20	QPSK	100	0	21.05	21.04	21.02		
20	QPSK	100	0	21.09	21.09	21.01		
20	HQAM	1	49	21.31	21.48	21.32	23	1
20	HQAM	1	99	21.24	21.49	21.34		
20	HQAM	50	0	20.39	20.45	20.35		
20	HQAM	50	24	20.33	20.35	20.28		
20	HQAM	50	50	20.32	20.41	20.20		
20	HQAM	100	0	20.29	20.38	20.21		
20	HQAM	1	0	20.58	20.55	20.54		
20	HQAM	1	49	20.46	20.51	20.46		
20	HQAM	1	99	20.53	20.52	20.48		
20	HQAM	50	0	19.35	19.44	19.30		
20	HQAM	50	24	19.52	19.31	19.26		
20	HQAM	50	50	19.27	19.25	19.24		
20	HQAM	100	0	19.41	19.32	19.30		
20	HQAM	1	49	17.21	17.46	17.40		
20	SSQAM	1	49	17.22	17.28	17.32		
20	SSQAM	1	99	17.16	17.35	17.28		
20	SSQAM	3	1	17.23	17.28	17.25		
20	SSQAM	50	24	17.15	17.20	17.21		
20	SSQAM	50	50	17.11	17.19	17.21		
20	SSQAM	100	0	17.13	17.18	17.21		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.12	22.21	22.16		
15	QPSK	1	49	22.02	22.07	22.04	24	0
15	QPSK	1	74	22.01	22.13	22.08		
15	QPSK	96	0	21.28	21.29	21.27		
15	QPSK	20	1	21.07	21.14	21.04		
15	QPSK	36	39	21.07	21.16	21.15		
15	QPSK	75	0	21.06	21.08	21.05		
15	HQAM	1	0	21.04	21.47	21.30		
15	HQAM	1	37	21.16	21.38	21.18		
15	HQAM	1	74	21.01	21.38	21.19		
15	HQAM	36	20	20.33	20.30	20.19		
15	HQAM	36	20	20.24	20.21	20.14		
15	HQAM	39	29	20.17	20.22	20.18		
15	HQAM	75	0	20.22	20.25	20.16		
15	HQAM	1	0	20.51	20.59	20.40		
15	HQAM	1	37	20.45	20.58	20.45		
15	HQAM	1	74	20.45	20.35	20.33		
15	HQAM	36	0	19.25	19.34	19.29		
15	HQAM	36	20	19.13	19.15	19.15		
15	HQAM	36	39	19.22	19.20	19.15		
15	HQAM	75	0	19.27	19.42	19.27		
15	SSQAM	1	49	17.38	17.38	17.38		
15	SSQAM	1	99	17.16	17.17	17.22		
15	SSQAM	1	74	17.08	17.30	17.14		
15	SSQAM	3	1	17.24	17.26	17.28		
15	SSQAM	36	20	17.02	17.12	17.14		
15	SSQAM	36	20	17.03	17.03	17.16		
15	SSQAM	75	0	17.11	17.11	17.22		
Channel								
Frequency (MHz)								
10	QPSK	1	0	18.65	18.60	18.50		
10	QPSK	1	25	22.01	22.03	22.08	24	0
10	QPSK	1	49	22.03	22.10	22.08		
10	QPSK	25	12	21.17	21.16	21.08		
10	QPSK	25	25	21.05	21.16	21.19		
10	HQAM	1	0	21.27	21.54	21.28		
10	HQAM	1	25	21.16	21.40	21.18		
10	HQAM	25	0	20.24	20.37	20.19		
10	HQAM	25	12	20.24	20.22	20.14		
10	HQAM	50	0	20.24	20.30	20.13		
10	HQAM	1	0	20.48	20.60	20.42		
10	HQAM	1	25	20.33	20.38	20.30		
10	HQAM	1	49	20.39	20.44	20.40		
10	HQAM	25	0	19.21	19.37	19.20		
10	HQAM	25	12	19.11	19.24	19.10		
10	HQAM	25	25	19.21	19.24	19.10		
10	HQAM	50	0	19.32	19.41	19.30		
10	SSQAM	1	49	17.38	17.38	17.38		
10	SSQAM	1	25	17.14	17.16	17.18		
10	SSQAM	1	49	17.11	17.21	17.13		
10	SSQAM	1	99	17.22	17.26	17.22		
10	SSQAM	25	12	17.07	17.08	17.18		
10	SSQAM	25	25	17.09	17.08	17.06		
10	SSQAM	50	0	17.11	17.17	17.22		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.11	22.10	22.11		
5	QPSK	1	12	22.04	22.02	22.03		
5	QPSK	1	24	22.07	22.07	22.02		
5	QPSK	12	0	21.03	21.03	21.03		
5	QPSK	12	7	21.16	21.14	21.04		
5	QPSK	12	13	21.12	21.13	21.18		
5	HQAM	1	0	21.03	21.08	21.08		
5	HQAM	1	0	21.34	21.48	21.33		
5	HQAM	12	0	20.32	20.31	20.28		
5	HQAM	12	7	20.26	20.25	20.16		
5	HQAM	12	13	20.20	20.26	20.24		
5	HQAM	25	0	20.13	20.27	20.15		
5	HQAM	1	0	20.47	20.58	20.47		
5	HQAM	1	12	20.41	20.58	20.35		
5	HQAM	1	24	20.43	20.39	20.43		
5	HQAM	12	0	19.26	19.30	19.24		
5	HQAM	12	7	19.09	19.15	19.14		
5	HQAM	12	13	19.17	19.23	19.17		
5	HQAM	25	0	19.26	19.48	19.31		
5	SSQAM	1	0	17.31	17.39	17.34		
5	SSQAM	1	12	17.09	17.16	17.25		
5	SSQAM	1	24	17.11	17.23	17.16		
5	SSQAM	12	0	17.25	17.18	17.17		
5	SSQAM	12	7	17.09	17.05	17.09		
5	SSQAM	12	13	17.01	17.09	17.15		
5	SSQAM	25	0	17.02	17.18	17.07		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.12	22.17	22.15		
3	QPSK	1	8	22.03	22.22	22.05		
3	QPSK	1	14	22.01	22.09	22.02		
3	QPSK	3	0	21.03	21.20	21.21		
3	QPSK	3	4	21.15	21.12	21.08		
3	QPSK	8	7	21.13	21.12	21.18		
3	HQAM	1	0	21.08	21.47	21.27		
3	HQAM	1	0	21.35	21.48	21.32		
3	HQAM	1	8	21.27	21.33	21.21		
3	HQAM	1	14	21.13	21.44	21.24		
3	HQAM	3	0	20.27	20.31	20.23		
3	HQAM	3	4	20.20	20.23	20.19		
3	HQAM	3	7	20.29	20.27	20.20		
3	HQAM	15	0	20.23	20.26	20.11		
3	HQAM	1	0	20.47	20.54	20.47		
3	HQAM	1	8	20.43	20.43	20.35		
3	HQAM	1	14	20.44	20.42	20.37		
3	HQAM	3	0	19.27	19.32	19.32		
3	HQAM	3	4	19.13	19.19	19.22		
3	HQAM	3	7	19.13	19.25	19.20		
3	SSQAM	1	0	17.34	17.32	17.33		
3	SSQAM	1	8	17.14	17.14	17.21		
3	SSQAM	3	0	17.04	17.09	17.13		
3	SSQAM	3	4	17.23	17.27	17.22		
3	SSQAM	8	4	17.09	17.05	17.05		
3	SSQAM	8	7	17.00	17.02	17.08		
3	SSQAM	15	0	17.10	17.14	17.05		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.11	22.23	22.08		
1.4	QPSK	1	3	22.01	22.12	22.07		
1.4	QPSK	1	6	22.00	22.11	22.04		
1.4	QPSK	3	1	22.05	22.16	22.10		
1.4	QPSK	3	1	22.05	22.16	22.10		
1.4	QPSK	3	3	22.02	22.09	22.09		
1.4	QPSK	3	6	21.08	21.38	21.37		
1.4	HQAM	1	0	21.28	21.48	21.30		
1.4	HQAM	1	3	21.14	21.47	21.30		
1.4	HQAM	1	5	21.12	21.35	21.24		
1.4	HQAM	3	0	21.28	21.38	21.21		
1.4	HQAM	3	1	21.18	21.37	21.26		
1.4	HQAM	3	3	21.12	21.29	21.23		
1.4	HQAM	3	6	20.21	20.23	20.09		
1.4	HQAM	3	9	20.44	20.52	20.47		
1.4	HQAM	3	1	20.39	20.42	20.38		
1.4	HQAM	3	5	20.38	20.43	20.33		
1.4	HQAM	3	9	20.44	20.43	20.36		
1.4	HQAM	3	1	20.37	20.34	20.27		
1.4	HQAM	3	3	20.39	20.33	20.31		
1.4	HQAM	3	7	19.16	19.44	19.34		
1.4	SSQAM	1	0	17.26	17.32	17.34		
1.4	SSQAM	1	3	17.10	17.17	17.21		
1.4	SSQAM	1	6	17.28	17.24	17.28		
1.4	SSQAM	3	0	17.20	17.28	17.22		
1.4	SSQAM	3	1	17.04	17.07	17.09		
1.4	SSQAM	3	7	17.14	17.14	17.07		
1.4	SSQAM	6	0	17.12	17.18	17.02		

Band 4 Ant0 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.23	22.40	22.29		
20	QPSK	50	49	22.18	22.19	22.18	24	0
20	QPSK	1	99	22.16	22.22	22.18		
20	QPSK	50	0	21.41	21.58	21.59		
20	QPSK	50	24	21.41	21.49	21.49		
20	QPSK	50	50					



Band 12 Ant0 DS12 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPE (dB)		
Channel										
	Frequency (MHz)	704	707.5	711						
10	QPSK	1	0	22.67	22.71	22.60	24	0		
10	QPSK	1	25	22.67	22.68	22.60				
10	QPSK	1	49	22.64	22.67	22.58				
10	QPSK	25	0	21.63	21.70	21.66	23	1		
10	QPSK	25	12	21.61	21.67	21.53				
10	QPSK	25	25	21.48	21.60	21.58				
10	QPSK	50	0	21.53	21.55	21.32				
10	HQAM	1	0	21.69	21.69	21.73				
10	HQAM	1	25	21.70	21.70	21.71	23	1		
10	HQAM	1	49	21.62	21.76	21.69				
10	HQAM	25	0	20.69	20.68	20.73				
10	HQAM	25	12	20.72	20.78	20.54	22	2		
10	HQAM	25	25	20.74	20.78	20.61				
10	HQAM	50	0	20.54	20.58	20.53				
10	HQAM	1	0	20.70	20.69	20.55	22	2		
10	HQAM	1	25	20.57	20.57	20.54				
10	HQAM	1	49	20.62	20.59	20.66				
10	HQAM	25	0	19.62	19.59	19.55				
10	HQAM	25	12	19.52	19.63	19.26	21	3		
10	HQAM	25	25	19.58	19.63	19.45				
10	HQAM	50	0	19.53	19.59	19.45				
10	SSBQAM	1	0	17.69	17.77	17.58	19	5		
10	SSBQAM	1	25	17.69	17.77	17.58				
10	SSBQAM	1	49	17.68	17.79	17.42				
10	SSBQAM	25	0	17.55	17.60	17.52				
10	SSBQAM	25	12	17.55	17.69	17.59	19	5		
10	SSBQAM	25	25	17.63	17.79	17.57				
10	SSBQAM	50	0	17.60	17.62	17.50				
Channel										
	Frequency (MHz)	701.5	707.5	713.5						
5	QPSK	1	0	22.67	22.68	22.44	24	0		
5	QPSK	1	12	22.60	22.68	22.41				
5	QPSK	1	24	22.39	22.55	22.42				
5	QPSK	12	0	21.61	21.68	21.51	23	1		
5	QPSK	12	7	21.64	21.62	21.61				
5	QPSK	12	13	21.33	21.53	21.46				
5	QPSK	25	0	21.65	21.97	21.26				
5	HQAM	1	0	21.55	21.71	21.69	23	1		
5	HQAM	1	12	21.67	21.66	21.67				
5	HQAM	1	24	21.62	21.62	21.63				
5	HQAM	12	0	20.78	20.90	20.63				
5	HQAM	12	7	20.70	20.71	20.47	22	2		
5	HQAM	12	13	20.67	20.65	20.48				
5	HQAM	25	0	20.40	20.63	20.59				
5	HQAM	1	0	20.58	20.60	20.52	22	2		
5	HQAM	1	12	20.65	20.69	20.48				
5	HQAM	1	24	20.59	20.55	20.53				
5	HQAM	12	0	19.52	19.43	19.37	21	3		
5	HQAM	12	7	19.48	19.55	19.23				
5	HQAM	12	13	19.51	19.64	19.35				
5	HQAM	25	0	19.45	19.45	19.38				
5	SSBQAM	1	0	17.52	17.52	17.52	19	5		
5	SSBQAM	1	12	17.53	17.74	17.52				
5	SSBQAM	1	24	17.51	17.63	17.26				
5	SSBQAM	12	0	17.62	17.62	17.62				
5	SSBQAM	12	7	17.51	17.52	17.49	19	5		
5	SSBQAM	12	13	17.60	17.69	17.50				
5	SSBQAM	25	0	17.51	17.58	17.27				
Channel										
	Frequency (MHz)	708.5	707.5	714.5						
3	QPSK	1	0	22.67	22.68	22.44	24	0		
3	QPSK	1	14	22.37	22.63	22.42				
3	QPSK	1	14	22.37	22.63	22.42				
3	QPSK	8	0	21.69	21.66	21.67	23	1		
3	QPSK	8	7	21.43	21.45	21.48				
3	QPSK	8	14	21.35	21.35	21.35				
3	HQAM	1	0	21.59	21.69	21.68	23	1		
3	HQAM	1	8	21.52	21.71	21.68				
3	HQAM	1	14	21.48	21.62	21.62				
3	HQAM	8	0	20.73	20.54	20.68				
3	HQAM	8	4	20.57	20.68	20.60	22	2		
3	HQAM	8	7	20.63	20.71	20.53				
3	HQAM	15	0	20.40	20.58	20.45				
3	HQAM	1	0	20.55	20.58	20.48	22	2		
3	HQAM	1	8	20.51	20.52	20.50				
3	HQAM	1	14	20.45	20.44	20.54				
3	HQAM	8	0	19.52	19.46	19.46	21	3		
3	HQAM	8	4	19.46	19.45	19.32				
3	HQAM	8	7	19.55	19.52	19.29				
3	HQAM	15	0	19.43	19.36	19.30				
3	SSBQAM	1	0	17.55	17.66	17.49	19	5		
3	SSBQAM	1	8	17.63	17.63	17.54				
3	SSBQAM	1	14	17.63	17.61	17.28				
3	SSBQAM	8	0	17.45	17.63	17.60				
3	SSBQAM	8	4	17.50	17.58	17.47	19	5		
3	SSBQAM	8	7	17.48	17.76	17.49				
3	SSBQAM	15	0	17.51	17.58	17.24				
Channel										
	Frequency (MHz)	709.7	707.5	716.3						
1.4	QPSK	1	0	22.34	22.49	22.44	24	0		
1.4	QPSK	1	3	22.39	22.48	22.53				
1.4	QPSK	1	5	22.39	22.52	22.35				
1.4	QPSK	3	0	22.35	22.43	22.42	23	1		
1.4	QPSK	3	3	22.36	22.35	22.37				
1.4	QPSK	3	3	22.34	22.48	22.30				
1.4	HQAM	1	0	21.44	21.71	21.60	23	1		
1.4	HQAM	1	3	21.37	21.55	21.33				
1.4	HQAM	1	5	21.26	21.53	21.52				
1.4	HQAM	3	0	21.41	21.62	21.40				
1.4	HQAM	3	1	21.30	21.54	21.21				
1.4	HQAM	3	3	21.44	21.47	21.38				
1.4	HQAM	6	0	20.45	20.42	20.24	22	2		
1.4	HQAM	1	0	20.58	20.79	20.55				
1.4	HQAM	1	3	20.61	20.48	20.58				
1.4	HQAM	1	5	20.82	20.75	20.58	22	2		
1.4	HQAM	3	0	20.52	20.66	20.50				
1.4	HQAM	3	1	20.70	20.49	20.52				
1.4	HQAM	3	3	20.58	20.44	20.45				
1.4	HQAM	6	0	19.52	19.68	19.41	21	3		
1.4	SSBQAM	1	0	17.40	17.45	17.45	19	5		
1.4	SSBQAM	1	3	17.27	17.50	17.30				
1.4	SSBQAM	1	5	17.31	17.42	17.26				
1.4	SSBQAM	3	0	17.28	17.44	17.63				
1.4	SSBQAM	3	1	17.25	17.26	17.31				
1.4	SSBQAM	3	3	17.22	17.17	17.26	19	5		
1.4	SSBQAM	6	0	17.44	17.21	17.25				

Band 13 Ant0 DS12 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPE (dB)		
Channel										
	Frequency (MHz)	782								
10	QPSK	1	0	22.36			24	0		
10	QPSK	1	25	22.34						
10	QPSK	1	49	22.28						
10	QPSK	25	0	21.54			23	1		
10	QPSK	25	12	21.48						
10	QPSK	25	25	21.41						
10	QPSK	50	0	21.38						
10	HQAM	1	0	21.78			23	1		
10	HQAM	1	25	21.85						
10	HQAM	1	49	21.59						
10	HQAM	25	0	20.57						
10	HQAM	25	12	20.48			22	2		
10	HQAM	25	25	20.45						
10	HQAM	50	0	20.38						
10	HQAM	1	0	20.68			22	2		
10	HQAM	1	25	20.62						
10	H									



Band 25 Ant0 DS12 Standalone									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.25	22.32	22.26			
20	QPSK	1	49	22.24	22.31	22.25	24	0	
20	QPSK	1	99	22.23	22.16	22.23			
20	QPSK	50	0	21.39	21.41	21.26			
20	QPSK	50	24	21.33	21.29	21.24			
20	QPSK	50	50	21.24	21.24	21.10	23	1	
20	QPSK	100	0	21.55	21.52	21.51			
20	QPSK	100	0	21.48	21.58	21.59			
20	HQAM	1	49	21.37	21.45	21.34	23	1	
20	HQAM	1	99	21.40	21.53	21.51			
20	HQAM	50	0	20.32	20.33	20.28			
20	HQAM	50	24	20.22	20.29	20.14	22	2	
20	HQAM	50	50	20.19	20.20	20.25			
20	HQAM	100	0	20.15	20.15	20.19			
20	HQAM	1	0	20.29	20.32	20.25			
20	HQAM	1	49	20.11	20.16	20.22	22	2	
20	HQAM	50	0	20.19	20.22	20.16			
20	HQAM	50	0	19.31	19.33	19.25			
20	HQAM	50	24	19.28	19.27	19.13	21	3	
20	HQAM	50	24	19.21	19.22	19.21			
20	HQAM	100	0	19.21	19.28	19.15			
20	SSQAM	1	49	17.28	17.28	17.29			
20	SSQAM	1	49	17.13	17.25	17.13	19	5	
20	SSQAM	1	99	17.23	17.18	17.23			
20	SSQAM	50	0	17.26	17.26	17.27			
20	SSQAM	50	24	17.12	17.20	17.13	19	5	
20	SSQAM	50	50	17.25	17.15	17.21			
20	SSQAM	100	0	17.16	17.16	17.28			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.18	22.21	22.19			
15	QPSK	1	49	22.02	22.10	22.04	24	0	
15	QPSK	1	74	22.09	22.10	22.18			
15	QPSK	36	0	21.32	21.34	21.17			
15	QPSK	36	24	21.27	21.14	21.12	23	1	
15	QPSK	36	36	21.14	21.11	21.15			
15	QPSK	75	0	21.49	21.58	21.47			
15	QPSK	75	0	21.38	21.43	21.40			
15	HQAM	1	37	21.28	21.34	21.29	23	1	
15	HQAM	1	74	21.35	21.36	21.29			
15	HQAM	36	0	20.19	20.28	20.13			
15	HQAM	36	20	20.13	20.20	20.04	22	2	
15	HQAM	36	20	20.12	20.14	20.14			
15	HQAM	75	0	20.10	20.14	20.04			
15	HQAM	1	0	20.21	20.22	20.15	22	2	
15	HQAM	37	0	20.19	20.22	20.15			
15	HQAM	1	74	20.10	20.08	20.05			
15	HQAM	36	0	19.20	19.21	19.13			
15	HQAM	36	20	19.21	19.16	19.15	21	3	
15	HQAM	36	36	19.12	19.13	19.05			
15	HQAM	75	0	19.12	19.17	19.02			
15	SSQAM	1	49	17.07	17.06	17.07			
15	SSQAM	1	37	17.07	17.12	17.07	19	5	
15	SSQAM	1	74	17.14	17.11	17.16			
15	SSQAM	50	0	17.18	17.24	17.17			
15	SSQAM	50	24	17.22	17.08	17.05	19	5	
15	SSQAM	50	50	17.17	17.04	17.13			
15	SSQAM	75	0	17.16	17.16	17.28			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.03	22.04	22.03			
10	QPSK	1	25	22.08	22.14	22.02	24	0	
10	QPSK	1	49	22.11	22.10	22.15			
10	QPSK	12	0	21.38	21.39	21.36			
10	QPSK	25	12	21.24	21.15	21.14	23	1	
10	QPSK	25	25	21.19	21.16	21.09			
10	QPSK	50	0	21.41	21.51	21.41			
10	HQAM	1	0	21.39	21.51	21.40			
10	HQAM	1	25	21.31	21.32	21.26	23	1	
10	HQAM	1	49	21.36	21.45	21.36			
10	HQAM	25	0	20.24	20.26	20.14			
10	HQAM	25	12	20.15	20.24	20.01	22	2	
10	HQAM	25	12	20.12	20.14	20.13			
10	HQAM	50	0	20.08	20.08	20.07			
10	HQAM	1	0	20.21	20.18	20.11	22	2	
10	HQAM	25	0	20.16	20.16	20.13			
10	HQAM	1	49	20.10	20.14	20.11			
10	HQAM	25	0	19.16	19.24	19.13			
10	HQAM	25	12	19.10	19.10	19.08	21	3	
10	HQAM	50	0	19.08	19.13	19.09			
10	HQAM	50	0	17.12	17.22	17.12			
10	SSQAM	1	49	17.06	17.14	17.06	19	5	
10	SSQAM	1	49	17.06	17.15	17.09			
10	SSQAM	25	12	17.11	17.05	17.00	19	5	
10	SSQAM	25	25	17.13	17.09	17.14			
10	SSQAM	50	0	17.03	17.13	17.07			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.16	22.16	22.14			
5	QPSK	1	24	22.03	22.18	22.03	24	0	
5	QPSK	1	24	22.15	22.10	22.16			
5	QPSK	12	0	21.30	21.38	21.30			
5	QPSK	12	7	21.21	21.19	21.17	23	1	
5	QPSK	12	13	21.13	21.12	21.05			
5	HQAM	1	0	21.41	21.51	21.41			
5	HQAM	1	0	21.41	21.45	21.43			
5	HQAM	12	0	20.22	20.26	20.22			
5	HQAM	12	7	20.10	20.15	20.08	22	2	
5	HQAM	12	13	20.08	20.08	20.12			
5	HQAM	25	0	20.01	20.16	20.11			
5	HQAM	1	0	20.21	20.23	20.12	22	2	
5	HQAM	12	0	20.01	20.18	20.19			
5	HQAM	1	24	20.08	20.15	20.04			
5	HQAM	12	0	19.21	19.19	19.14			
5	HQAM	12	7	19.16	19.14	19.05	21	3	
5	HQAM	12	13	19.15	19.16	19.07			
5	HQAM	25	0	19.13	19.22	19.06			
5	HQAM	1	0	17.11	17.24	17.22			
5	SSQAM	1	12	17.01	17.19	17.06	19	5	
5	SSQAM	1	24	17.10	17.10	17.14			
5	SSQAM	12	0	17.17	17.25	17.24			
5	SSQAM	12	7	17.04	17.15	17.01	19	5	
5	SSQAM	12	13	17.14	17.08	17.10			
5	SSQAM	25	0	17.10	17.08	17.06			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.16	22.17	22.15			
3	QPSK	1	8	22.07	22.19	22.02	24	0	
3	QPSK	1	14	22.08	22.01	22.17			
3	QPSK	3	0	21.27	21.30	21.27			
3	QPSK	3	4	21.21	21.14	21.14	23	1	
3	QPSK	3	7	21.17	21.10	21.03			
3	QPSK	15	0	21.41	21.49	21.41			
3	HQAM	1	0	21.37	21.45	21.43			
3	HQAM	1	8	21.31	21.32	21.26	23	1	
3	HQAM	1	14	21.09	21.08	21.02			
3	HQAM	3	0	20.27	20.18	20.14			
3	HQAM	3	4	20.15	20.21	20.02	22	2	
3	HQAM	3	7	20.07	20.08	20.14			
3	HQAM	15	0	20.06	20.10	20.10			
3	HQAM	1	0	20.18	20.20	20.11	22	2	
3	HQAM	1	8	20.05	20.11	20.11			
3	HQAM	1	14	20.05	20.16	20.11			
3	HQAM	3	0	19.19	19.24	19.11			
3	HQAM	3	7	19.20	19.18	19.11	21	3	
3	HQAM	3	7	19.17	19.17	19.13			
3	SSQAM	1	0	17.09	17.23	17.18			
3	SSQAM	1	8	17.05	17.19	17.00	19	5	
3	SSQAM	1	14	17.18	17.09	17.10			
3	SSQAM	3	0	17.17	17.18	17.15			
3	SSQAM	3	4	17.01	17.15	17.05	19	5	
3	SSQAM	3	7	17.15	17.07	17.14			
3	SSQAM	15	0	17.10	17.11	17.05			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.18	22.29	22.24			
1.4	QPSK	1	3	22.09	22.21	22.16	24	0	
1.4	QPSK	1	3	22.04	22.26	22.22			
1.4	QPSK	3	0	22.08	22.28	22.17			
1.4	QPSK	3	1	22.04	22.08	22.18			
1.4	QPSK	3	1	22.00	22.16	22.15	23	1	
1.4	QPSK	3	3	21.32	21.34	21.24			
1.4	HQAM	1	0	21.28	21.36	21.27			
1.4	HQAM	1	3	21.16	21.30	21.27	23	1	
1.4	HQAM	1	3	21.01	21.38	21.14			
1.4	HQAM	3	0	21.21	21.33	21.20			
1.4	HQAM	3	1	21.07	21.22	21.12			
1.4	HQAM	3	0	20.12	20.15	20.01	22	2	
1.4	HQAM	3	3	20.37	20.33	20.34			
1.4	HQAM	3	5	20.33	20.39	20.24	22	2	
1.4	HQAM	3	20.37	20.38	20.29				
1.4	HQAM	3	20.31	20.31	20.28				
1.4	HQAM	3	20.37	20.27	20.20				
1.4	HQAM	3	19.31	19.38	19.18	21	3		
1.4	HQAM	3	0	17.31	17.23	17.21			
1.4	SSQAM	1	3	17.02	17.15	17.18			
1.4	SSQAM	3	0	17.03	17.20	17.02	19	5	
1.4	SSQAM	3	0	17.14	17.27	17.13			
1.4	SSQAM	3	1	17.01	17.05	17.08			
1.4	SSQAM	3	1	17.06	17.11	17.07			
1.4	SSQAM	3	0	17.12	17.11	17.02	19	5	

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Band 4 Ant1 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.79	22.83	22.80	24	0
20	QPSK	1	99	22.80	22.86	22.87		
20	QPSK	50	0	21.98	21.99	21.91	23	1
20	QPSK	24	1	21.90	21.91	21.98		
20	QPSK	50	50	21.72	21.78	21.78		
20	QPSK	100	0	21.83	21.71	21.69		
20	QPSK	50	0	22.11	22.14	22.09		
20	HQAM	1	49	21.87	22.01	21.89	23	1
20	HQAM	1	99	22.01	22.01	21.96		
20	HQAM	50	0	20.91	21.93	20.90		
20	HQAM	50	24	20.82	20.95	20.87	22	2
20	HQAM	50	50	20.81	20.88	20.78		
20	HQAM	100	0	20.85	20.75	20.82		
20	HQAM	1	0	21.01	21.07	21.01		
20	HQAM	1	49	20.86	20.86	20.87		
20	HQAM	1	99	20.90	20.88	20.90		
20	HQAM	50	0	19.06	20.04	19.06		
20	HQAM	50	24	19.06	20.06	20.00		
20	HQAM	50	50	19.07	19.06	19.06		
20	HQAM	100	0	20.18	20.32	20.22	21	3
20	HQAM	1	49	17.73	17.67	17.76		
20	HQAM	1	99	17.72	17.78	17.67	19	5
20	HQAM	1	99	17.48	17.67	17.43		
20	HQAM	50	0	17.48	17.68	17.48		
20	HQAM	50	24	17.38	17.62	17.40		
20	HQAM	50	50	17.48	17.63	17.58		
20	HQAM	100	0	17.38	17.63	17.48		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.67	22.76	22.71	24	0
15	QPSK	1	37	22.62	22.64	22.61		
15	QPSK	1	74	22.62	22.48	22.42		
15	QPSK	36	0	21.88	21.91	21.78	23	1
15	QPSK	20	1	21.79	21.86	21.79		
15	QPSK	36	36	21.65	21.65	21.61		
15	QPSK	75	0	21.67	21.69	21.64		
15	QPSK	1	0	21.07	22.07	22.02		
15	HQAM	1	37	21.84	21.92	21.84	23	1
15	HQAM	1	74	21.86	21.87	21.85		
15	HQAM	36	0	20.77	20.91	20.83		
15	HQAM	36	20	20.70	20.80	20.79	22	2
15	HQAM	75	0	20.73	20.81	20.68		
15	HQAM	1	0	20.88	21.01	20.92	22	2
15	HQAM	37	0	20.88	20.88	20.88		
15	HQAM	1	74	20.76	20.86	20.83		
15	HQAM	36	0	19.81	19.87	19.81		
15	HQAM	36	20	19.85	19.89	19.88		
15	HQAM	36	36	19.80	19.84	19.80		
15	HQAM	75	0	20.07	20.24	20.09	21	3
15	HQAM	1	0	17.66	17.66	17.66		
15	HQAM	1	37	17.58	17.67	17.61	19	5
15	HQAM	1	74	17.38	17.47	17.30		
15	HQAM	50	0	17.44	17.62	17.48		
15	HQAM	36	20	17.26	17.42	17.33		
15	HQAM	36	36	17.49	17.53	17.45	19	5
15	HQAM	75	0	17.45	17.62	17.48		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.68	22.76	22.72	24	0
10	QPSK	1	25	22.67	22.65	22.65		
10	QPSK	1	49	22.64	22.49	22.47		
10	QPSK	1	74	22.65	22.58	22.47		
10	QPSK	25	12	21.77	21.83	21.78	23	1
10	QPSK	25	25	21.59	21.68	21.68		
10	QPSK	50	0	21.65	21.68	21.65		
10	HQAM	1	0	22.09	22.07	22.03		
10	HQAM	1	25	21.89	21.91	21.88	23	1
10	HQAM	1	49	21.88	21.87	21.87		
10	HQAM	25	0	20.88	20.97	20.77		
10	HQAM	25	12	20.87	20.85	20.79	22	2
10	HQAM	50	0	20.71	20.86	20.72		
10	HQAM	1	0	20.88	20.94	20.89		
10	HQAM	1	25	20.88	20.88	20.88	22	2
10	HQAM	1	49	20.76	20.88	20.88		
10	HQAM	25	0	19.89	19.97	19.90		
10	HQAM	25	12	19.88	19.96	19.88		
10	HQAM	25	25	19.81	19.88	19.79	21	3
10	HQAM	50	0	20.11	20.22	20.28		
10	HQAM	1	49	17.65	17.71	17.68		
10	HQAM	1	99	17.66	17.73	17.68	19	5
10	HQAM	1	99	17.42	17.49	17.33		
10	HQAM	50	0	17.50	17.61	17.43		
10	HQAM	25	12	17.29	17.42	17.38		
10	HQAM	25	25	17.35	17.49	17.47	19	5
10	HQAM	50	0	17.58	17.62	17.49		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.65	22.69	22.67	24	0
5	QPSK	1	14	22.65	22.64	22.66		
5	QPSK	1	28	22.61	22.46	22.47		
5	QPSK	12	7	21.80	21.85	21.75	23	1
5	QPSK	12	13	21.68	21.84	21.83		
5	QPSK	25	0	21.63	21.67	21.66		
5	HQAM	1	0	22.01	22.03	22.00		
5	HQAM	1	12	21.90	21.93	21.88	23	1
5	HQAM	1	24	21.88	21.87	21.88		
5	HQAM	12	0	20.82	20.89	20.77		
5	HQAM	12	7	20.69	20.80	20.73	22	2
5	HQAM	25	0	20.71	20.81	20.70		
5	HQAM	1	0	20.90	20.93	20.96		
5	HQAM	1	12	20.77	20.92	20.86	22	2
5	HQAM	1	24	20.80	20.85	20.85		
5	HQAM	12	0	19.82	19.92	19.87		
5	HQAM	12	7	19.83	19.95	19.85		
5	HQAM	12	13	19.77	19.89	19.78	21	3
5	HQAM	25	0	20.12	20.21	20.13		
5	HQAM	1	0	17.63	17.68	17.63		
5	HQAM	1	12	17.62	17.68	17.58	19	5
5	HQAM	1	24	17.40	17.44	17.30		
5	HQAM	12	0	17.48	17.52	17.48		
5	HQAM	12	7	17.30	17.42	17.31	19	5
5	HQAM	25	0	17.55	17.64	17.48		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.14	22.33	22.24	24	0
1.4	QPSK	1	3	22.05	22.26	22.10		
1.4	QPSK	1	6	22.04	22.09	22.10		
1.4	QPSK	3	1	22.04	22.06	22.21		
1.4	QPSK	3	3	22.15	21.92	22.24	23	1
1.4	QPSK	3	6	21.93	21.92	21.98		
1.4	HQAM	1	0	21.83	21.87	21.86	23	1
1.4	HQAM	1	14	21.87	21.91	21.88		
1.4	HQAM	3	0	20.79	20.94	20.75		
1.4	HQAM	3	1	20.74	20.89	20.80	22	2
1.4	HQAM	3	3	20.69	20.77	20.66		
1.4	HQAM	15	0	20.71	20.78	20.77		
1.4	HQAM	1	0	20.81	20.84	20.88		
1.4	HQAM	1	8	20.72	20.84	20.74	22	2
1.4	HQAM	1	14	20.76	20.84	20.86		
1.4	HQAM	3	0	19.89	19.96	19.87		
1.4	HQAM	3	7	19.87	19.92	19.83		
1.4	HQAM	3	14	19.72	19.91	19.82	21	3
1.4	HQAM	15	0	20.08	20.22	20.16		
1.4	HQAM	3	0	17.68	17.75	17.65		
1.4	HQAM	3	8	17.65	17.69	17.55	19	5
1.4	HQAM	3	14	17.43	17.46	17.28		
1.4	HQAM	3	17	17.43	17.54	17.48		
1.4	HQAM	3	24	17.28	17.42	17.31	19	5
1.4	HQAM	15	0	17.57	17.66	17.52		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.14	22.33	22.24	24	0
1.4	QPSK	1	3	22.05	22.26	22.10		
1.4	QPSK	1	6	22.04	22.09	22.10		
1.4	QPSK	3	1	22.04	22.06	22.21		
1.4	QPSK	3	3	22.15	21.92	22.24	23	1
1.4	QPSK	3	6	21.93	21.92	21.98		
1.4	HQAM	1	0	21.83	21.87	21.86	23	1
1.4	HQAM	1	14	21.87	21.91	21.88		
1.4	HQAM	3	0	20.79	20.94	20.75		
1.4	HQAM	3	1	20.74	20.89	20.80	22	2
1.4	HQAM	3	3	20.69	20.77	20.66		
1.4	HQAM	15	0	20.71	20.78	20.77		
1.4	HQAM	1	0	20.81	20.84	20.88		
1.4	HQAM	1	8	20.72	20.84	20.74	22	2
1.4	HQAM	1	14	20.76	20.84	20.86		
1.4	HQAM	3	0	19.89	19.96	19.87		
1.4	HQAM	3	7	19.87	19.92	19.83		
1.4	HQAM	3	14	19.72	19.91	19.82	21	3
1.4	HQAM	15	0	20.08	20.22	20.16		
1.4	HQAM	3	0	17.68	17.75	17.65		
1.4	HQAM	3	8	17.65	17.69	17.55	19	5
1.4	HQAM	3	14	17.43	17.46	17.28		
1.4	HQAM	3	17	17.43	17.54	17.48		
1.4	HQAM	3	24	17.28	17.42	17.31	19	5
1.4	HQAM	15	0	17.57	17.66	17.52		

Band 5 Ant1 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.81	22.08	21.99	23	0
10	QPSK	1	25	21.81	22.02	21.99		
10	QPSK	1	49	21.83	21.86	21.90		
10	QPSK	25	0	21.01	21.14	21.07		
10	QPSK	25	12	20.90	20.99	20.94		
10	QPSK	25	25	20.87	20.86	21.00	22	1
10	QPSK	50	0	21.01	21.05	21.02		
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Band 38 Ant1 DSI2 Standalone

BW [MHz]	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)				37850	38000	38150		
				2580	2595	2610		
20	QPSK	1	0	18.70	18.87	18.76	19.8	0
20	QPSK	1	49	18.58	18.69	18.68		
20	QPSK	1	99	18.64	18.74	18.56		
20	QPSK	50	0	18.61	18.73	18.69		
20	QPSK	50	24	18.47	18.59	18.55	19.8	0
20	QPSK	50	50	18.63	18.54	18.46		
20	QPSK	100	0	18.55	18.63	18.48		
20	16QAM	1	0	18.61	18.64	18.73		
20	16QAM	1	49	18.52	18.48	18.58	19.8	0
20	16QAM	1	99	18.62	18.63	18.57		
20	16QAM	50	0	18.60	18.66	18.57		
20	16QAM	50	24	18.42	18.46	18.57		
20	16QAM	50	50	18.54	18.56	18.40	19.8	0
20	16QAM	100	0	18.48	18.55	18.41		
20	84QAM	1	0	18.50	18.63	18.64		
20	84QAM	1	49	18.35	18.57	18.46		
20	84QAM	1	99	18.52	18.58	18.49	19.8	0
20	84QAM	50	0	18.43	18.44	18.36		
20	84QAM	50	24	18.29	18.21	18.28		
20	84QAM	50	50	18.23	18.22	18.28		
20	84QAM	100	0	18.34	18.35	18.47	19.8	0
20	256QAM	1	0	17.37	17.42	17.40		
20	256QAM	1	49	17.24	17.31	17.18		
20	256QAM	1	99	17.23	17.24	17.14		
20	256QAM	50	0	17.36	17.36	17.40	19	0.8
20	256QAM	50	24	17.20	17.35	17.18		
20	256QAM	50	50	17.22	17.28	17.18		
20	256QAM	100	0	17.25	17.29	17.17		
Channel								
Frequency (MHz)				37925	38000	38175		
				2577.5	2595	2612.5		
15	QPSK	1	0	18.56	18.68	18.59	19.8	0
15	QPSK	1	37	18.52	18.68	18.49		
15	QPSK	1	74	18.54	18.56	18.47		
15	QPSK	36	0	18.46	18.62	18.53		
15	QPSK	36	20	18.41	18.46	18.48	19.8	0
15	QPSK	36	39	18.49	18.50	18.32		
15	QPSK	75	0	18.44	18.52	18.31		
15	16QAM	1	0	18.46	18.64	18.64		
15	16QAM	1	37	18.51	18.40	18.45	19.8	0
15	16QAM	1	74	18.46	18.61	18.44		
15	16QAM	36	0	18.40	18.49	18.47		
15	16QAM	36	20	18.39	18.39	18.46		
15	16QAM	36	39	18.39	18.51	18.31	19.8	0
15	16QAM	75	0	18.40	18.50	18.24		
15	84QAM	1	0	18.42	18.53	18.56		
15	84QAM	1	37	18.30	18.46	18.34		
15	84QAM	1	74	18.47	18.43	18.31	19.8	0
15	84QAM	36	0	18.31	18.38	18.20		
15	84QAM	36	20	18.19	18.16	18.17		
15	84QAM	36	39	18.18	18.18	18.15		
15	84QAM	75	0	18.25	18.29	18.23	19.8	0
15	256QAM	1	0	17.29	17.28	17.28		
15	256QAM	1	37	17.17	17.21	17.03		
15	256QAM	1	74	17.08	17.18	17.00		
15	256QAM	36	0	17.22	17.30	17.31	19	0.8
15	256QAM	36	20	17.08	17.25	17.05		
15	256QAM	36	39	17.13	17.14	17.06		
15	256QAM	75	0	17.17	17.19	17.05		
Channel								
Frequency (MHz)				37800	38000	38200		
				2575	2595	2615		
10	QPSK	1	0	18.52	18.74	18.67	19.8	0
10	QPSK	1	25	18.53	18.57	18.56		
10	QPSK	1	49	18.53	18.48	18.53		
10	QPSK	25	0	18.46	18.67	18.62		
10	QPSK	25	12	18.34	18.45	18.46	19.8	0
10	QPSK	25	25	18.48	18.58	18.25		
10	QPSK	50	0	18.46	18.59	18.29		
10	16QAM	1	0	18.54	18.60	18.60		
10	16QAM	1	25	18.49	18.37	18.48	19.8	0
10	16QAM	1	49	18.42	18.52	18.42		
10	16QAM	25	0	18.49	18.46	18.45		
10	16QAM	25	12	18.35	18.37	18.50		
10	16QAM	25	25	18.43	18.55	18.31	19.8	0
10	16QAM	50	0	18.36	18.47	18.29		
10	84QAM	1	0	18.48	18.50	18.57		
10	84QAM	1	25	18.27	18.36	18.30		
10	84QAM	1	49	18.43	18.43	18.37	19.8	0
10	84QAM	25	0	18.41	18.37	18.16		
10	84QAM	25	12	18.16	18.07	18.22		
10	84QAM	25	25	18.14	18.14	18.10		
10	84QAM	50	0	18.25	18.36	18.30	19.8	0
10	256QAM	1	0	17.29	17.35	17.27		
10	256QAM	1	25	17.10	17.20	17.10		
10	256QAM	1	49	17.10	17.18	17.03		
10	256QAM	25	0	17.26	17.29	17.27	19	0.8
10	256QAM	25	12	17.09	17.26	17.03		
10	256QAM	25	25	17.14	17.23	17.12		
10	256QAM	50	0	17.18	17.21	17.03		
Channel								
Frequency (MHz)				37775	38000	38225		
				2572.5	2595	2617.5		
5	QPSK	1	0	18.62	18.65	18.61	19.8	0
5	QPSK	1	12	18.44	18.61	18.48		
5	QPSK	1	24	18.56	18.58	18.51		
5	QPSK	12	0	18.49	18.65	18.54		
5	QPSK	12	7	18.35	18.45	18.41	19.8	0
5	QPSK	12	13	18.43	18.46	18.26		
5	QPSK	25	0	18.36	18.57	18.31		
5	16QAM	1	0	18.53	18.55	18.66		
5	16QAM	1	12	18.49	18.39	18.55	19.8	0
5	16QAM	1	24	18.41	18.54	18.44		
5	16QAM	12	0	18.39	18.43	18.47		
5	16QAM	12	7	18.37	18.37	18.47		
5	16QAM	12	13	18.41	18.53	18.26	19.8	0
5	16QAM	25	0	18.46	18.43	18.32		
5	84QAM	1	0	18.46	18.52	18.49		
5	84QAM	1	12	18.22	18.37	18.30		
5	84QAM	1	24	18.45	18.51	18.30	19.8	0
5	84QAM	12	0	18.34	18.41	18.15		
5	84QAM	12	7	18.24	18.14	18.15		
5	84QAM	12	13	18.14	18.18	18.17		
5	84QAM	25	0	18.32	18.27	18.22	19.8	0
5	256QAM	1	0	17.24	17.29	17.19		
5	256QAM	1	12	17.03	17.12	17.02		
5	256QAM	1	24	17.03	17.07	17.05		
5	256QAM	12	0	17.18	17.21	17.20	19	0.8
5	256QAM	12	7	17.13	17.17	17.12		
5	256QAM	12	13	17.04	17.18	17.06		
5	256QAM	25	0	17.12	17.15	17.11		

Band 41 Ant1 DSI2 Standalone

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.79	18.81	18.92	18.84	18.79	19.8	0
20	QPSK	1	49	18.63	18.71	18.76	18.75	18.74		
20	QPSK	1	99	18.65	18.76	18.80	18.69	18.77		
20	QPSK	50	0	18.74	18.74	18.79	18.78	18.66		
20	QPSK	50	24	18.54	18.63	18.69	18.65	18.59	19.8	0
20	QPSK	50	50	18.58	18.70	18.67	18.54	18.67		
20	QPSK	100	0	18.52	18.62	18.70	18.54	18.62		
20	16QAM	1	0	18.68	18.68	18.77	18.79	18.74		
20	16QAM	1	49	18.50	18.67	18.63	18.71	18.68	19.8	0
20	16QAM	1	99	18.61	18.68	18.71	18.63	18.66		
20	16QAM	50	0	18.67	18.66	18.75	18.63	18.60		
20	16QAM	50	24	18.51	18.55	18.56	18.63	18.63		
20	16QAM	50	50	18.54	18.51	18.68	18.55	18.65	19.8	0
20	16QAM	100	0	18.51	18.59	18.67	18.51	18.58		
20	84QAM	1	0	18.59	18.65	18.72	18.71	18.64		
20	84QAM	1	49	18.50	18.50	18.65	18.58	18.63		
20	84QAM	1	99	18.50	18.61	18.62	18.57	18.61	19.8	0
20	84QAM	50	0	18.47	18.54	18.55	18.46	18.65		
20	84QAM	50	24	18.39	18.42	18.36	18.39	18.52		
20	84QAM	50	50	18.30	18.34	18.36	18.33	18.53		
20	84QAM	100	0	18.47	18.41	18.46	18.52	18.54	19	0.8
20	256QAM	1	0	17.19	17.22	17.30	17.22	17.22		
20	256QAM	1	49	17.05	17.14	17.21	17.18	17.10		
20	256QAM	1	99	17.06	17.14	17.20	17.10	17.12		
20	256QAM	50	0	17.12	17.28	17.32	17.25	17.21	19	0.8
20	256QAM	50	24	17.13	17.18	17.18	17.12	17.15		
20	256QAM	50	50	17.10	17.18	17.13	17.14	17.14		
20	256QAM	100	0	17.13	17.25	17.33	17.24	17.23		
Channel										
Frequency (MHz)				39726	40173	40620	41068	41515		
				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.73	18.75	18.80	18.78	18.69	19.80	0
15	QPSK	1	37	18.50	18.67	18.69	18.64	18.70		
15	QPSK	1	74	18.49	18.71	18.72	18.56	18.65		
15	QPSK	36	0	18.62	18.65	18.68	18.67	18.56		
15	QPSK	36	20	18.42	18.51	18.54	18.55	18.45	19.8	0
15	QPSK	36	39	18.50	18.54	18.51	18.42	18.62		
15	QPSK	75	0	18.42	18.49	18.59	18.48	18.57		
15	16QAM	1	0	18.63	18.54	18.66	18.71	18.69		
15	16QAM	1	37	18.43	18.57	18.56	18.58	18.61	19.8	0
15	16QAM	1	74	18.51	18.63	18.57	18.56	18.55		

Band 42 Part 27Q Ant2 DSI2 Standalone

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42590	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	19.18	19.34	18.91	20.6	0
20	QPSK	1	49	19.00	19.31	18.94		
20	QPSK	1	99	19.07	19.25	19.04		
20	QPSK	50	0	19.06	19.23	18.83	20.6	0
20	QPSK	50	24	18.88	19.21	18.78		
20	QPSK	50	50	19.00	19.16	18.95		
20	QPSK	100	0	18.96	19.17	18.95	20.6	0
20	16QAM	1	0	19.10	19.23	18.83		
20	16QAM	1	49	18.91	19.24	18.79		
20	16QAM	1	99	18.97	19.10	18.89	20.6	0
20	16QAM	50	0	19.00	19.13	18.75		
20	16QAM	50	24	18.84	19.14	18.82		
20	16QAM	50	50	18.96	19.06	18.93	20.6	0
20	16QAM	100	0	18.93	19.14	18.91		
20	64QAM	1	0	19.05	19.21	18.75		
20	64QAM	1	49	18.80	19.22	18.73	20.6	0
20	64QAM	1	99	18.91	19.16	18.89		
20	64QAM	50	0	19.07	19.08	19.18		
20	64QAM	50	24	18.98	19.00	19.12	20.6	0
20	64QAM	50	50	18.95	18.93	18.89		
20	64QAM	100	0	18.98	18.96	19.07		
20	256QAM	1	0	17.50	17.71	17.36	19	1.6
20	256QAM	1	49	17.37	17.65	17.37		
20	256QAM	1	99	17.43	17.63	17.41		
20	256QAM	50	0	17.59	17.69	17.37	19	1.6
20	256QAM	50	24	17.40	17.64	17.32		
20	256QAM	50	50	17.38	17.64	17.40		
20	256QAM	100	0	17.51	17.70	17.35		
Channel				42165	42590	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	19.11	19.24	18.85	20.6	0
15	QPSK	1	37	18.85	19.20	18.80		
15	QPSK	1	74	18.93	19.20	18.96		
15	QPSK	36	0	19.01	19.10	18.69	20.6	0
15	QPSK	36	20	18.73	19.18	18.68		
15	QPSK	36	39	18.85	19.05	18.85		
15	QPSK	75	0	18.86	19.06	18.88	20.6	0
15	16QAM	1	0	18.98	19.11	18.73		
15	16QAM	1	37	18.81	19.17	18.73		
15	16QAM	1	74	18.87	18.98	18.75	20.6	0
15	16QAM	36	0	18.96	19.02	18.66		
15	16QAM	36	20	18.70	19.00	18.70		
15	16QAM	36	39	18.80	18.94	18.85	20.6	0
15	16QAM	75	0	18.84	19.01	18.82		
15	64QAM	1	0	18.99	19.08	18.77		
15	64QAM	1	37	18.67	19.14	18.75	20.6	0
15	64QAM	1	74	18.82	19.07	18.74		
15	64QAM	36	0	18.94	19.04	19.03		
15	64QAM	36	20	18.93	18.93	19.04	20.6	0
15	64QAM	36	39	18.90	18.78	18.76		
15	64QAM	75	0	18.92	18.90	18.93		
15	256QAM	1	0	17.37	17.61	17.23	19	1.6
15	256QAM	1	37	17.29	17.50	17.23		
15	256QAM	1	74	17.34	17.52	17.28		
15	256QAM	36	0	17.48	17.60	17.27	19	1.6
15	256QAM	36	20	17.31	17.56	17.26		
15	256QAM	36	39	17.25	17.52	17.35		
15	256QAM	75	0	17.40	17.58	17.28		
Channel				42140	42590	43040		
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	19.13	19.26	18.86	20.6	0
10	QPSK	1	25	18.95	19.21	18.90		
10	QPSK	1	49	19.01	19.18	18.99		
10	QPSK	25	0	19.02	19.12	18.68	20.6	0
10	QPSK	25	12	18.79	19.12	18.67		
10	QPSK	25	25	18.85	19.12	18.82		
10	QPSK	50	0	18.81	19.05	18.87	20.6	0
10	16QAM	1	0	18.97	19.10	18.67		
10	16QAM	1	25	18.83	19.14	18.68		
10	16QAM	1	49	18.88	18.99	18.77	20.6	0
10	16QAM	25	0	18.85	19.06	18.70		
10	16QAM	25	12	18.73	19.01	18.72		
10	16QAM	25	25	18.87	18.91	18.87	20.6	0
10	16QAM	50	0	18.79	19.08	18.81		
10	64QAM	1	0	18.93	19.11	18.69		
10	64QAM	1	25	18.67	19.08	18.65	20.6	0
10	64QAM	1	49	18.81	19.04	18.83		
10	64QAM	25	0	18.92	18.96	19.05		
10	64QAM	25	12	18.93	18.95	19.04	20.6	0
10	64QAM	25	25	18.80	18.87	18.82		
10	64QAM	50	0	18.85	18.89	19.02		
10	256QAM	1	0	17.45	17.57	17.30	19	1.6
10	256QAM	1	25	17.28	17.56	17.23		
10	256QAM	1	49	17.29	17.57	17.30		
10	256QAM	25	0	17.53	17.63	17.26	19	1.6
10	256QAM	25	12	17.28	17.57	17.26		
10	256QAM	25	25	17.28	17.49	17.26		
10	256QAM	50	0	17.41	17.62	17.22		
Channel				42115	42590	43065		
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	19.12	19.28	18.79	20.6	0
5	QPSK	1	12	18.94	19.24	18.87		
5	QPSK	1	24	19.00	19.17	18.90		
5	QPSK	12	0	18.91	19.11	18.73	20.6	0
5	QPSK	12	7	18.74	19.21	18.72		
5	QPSK	12	13	18.88	19.12	18.85		
5	QPSK	25	0	18.88	19.01	18.82	20.6	0
5	16QAM	1	0	18.98	19.18	18.79		
5	16QAM	1	12	18.77	19.20	18.72		
5	16QAM	1	24	18.92	18.97	18.80	20.6	0
5	16QAM	12	0	18.91	19.02	18.62		
5	16QAM	12	7	18.72	19.03	18.66		
5	16QAM	12	13	18.89	18.93	18.86	20.6	0
5	16QAM	25	0	18.85	19.04	18.78		
5	64QAM	1	0	18.99	19.12	18.64		
5	64QAM	1	12	18.74	19.11	18.64	20.6	0
5	64QAM	1	24	18.75	19.07	18.83		
5	64QAM	12	0	19.00	18.95	19.06		
5	64QAM	12	7	18.93	18.90	19.07	20.6	0
5	64QAM	12	13	18.82	18.85	18.74		
5	64QAM	25	0	18.89	18.83	18.96		
5	256QAM	1	0	17.41	17.60	17.31	19	1.6
5	256QAM	1	12	17.31	17.51	17.28		
5	256QAM	1	24	17.38	17.55	17.31		
5	256QAM	12	0	17.49	17.54	17.24	19	1.6
5	256QAM	12	7	17.28	17.49	17.18		
5	256QAM	12	13	17.27	17.55	17.31		
5	256QAM	25	0	17.45	17.59	17.27		



Band 7 Ant5 DS12 Standalone									
BW [MHz]	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)				2510	2535	2560			
20	QPSK	1	0	22.45	22.72	22.62	24	0	
20	QPSK	1	49	22.31	22.62	22.53			
20	QPSK	1	99	22.27	22.58	22.47			
20	QPSK	50	0	21.67	21.92	21.62	23	1	
20	QPSK	50	24	21.54	21.78	21.56			
20	QPSK	50	50	21.59	21.81	21.53			
20	QPSK	100	0	21.63	21.82	21.75	23	1	
20	16QAM	1	0	22.01	22.27	22.16			
20	16QAM	1	49	21.92	22.13	22.09			
20	16QAM	1	99	21.90	22.21	22.03	22	2	
20	16QAM	50	0	20.87	20.91	20.66			
20	16QAM	50	24	20.74	20.85	20.52			
20	16QAM	50	50	20.79	20.84	20.56	22	2	
20	16QAM	100	0	20.83	20.94	20.91			
20	64QAM	1	0	20.55	20.74	20.48			
20	64QAM	1	49	20.43	20.69	20.36	22	2	
20	64QAM	1	99	20.50	20.59	20.33			
20	64QAM	50	0	19.75	19.94	19.68			
20	64QAM	50	24	19.61	19.84	19.55	21	3	
20	64QAM	50	50	19.51	19.80	19.50			
20	64QAM	100	0	19.73	19.90	19.86			
20	256QAM	1	0	17.46	17.67	17.65	19	5	
20	256QAM	1	49	17.27	17.61	17.52			
20	256QAM	1	99	17.25	17.56	17.44			
20	256QAM	50	0	17.43	17.72	17.67	19	5	
20	256QAM	50	24	17.32	17.59	17.49			
20	256QAM	50	50	17.31	17.53	17.50			
20	256QAM	100	0	17.26	17.44	17.35			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.31	22.57	22.51	24	0	
15	QPSK	1	37	22.22	22.51	22.47			
15	QPSK	1	74	22.16	22.45	22.40			
15	QPSK	36	0	21.53	21.80	21.55	23	1	
15	QPSK	36	20	21.42	21.73	21.46			
15	QPSK	36	39	21.49	21.74	21.43			
15	QPSK	75	0	21.57	21.68	21.61	23	1	
15	16QAM	1	0	21.92	22.14	22.06			
15	16QAM	1	37	21.85	22.03	21.97			
15	16QAM	1	74	21.82	22.14	21.90	22	2	
15	16QAM	36	0	20.73	20.83	20.54			
15	16QAM	36	20	20.63	20.75	20.42			
15	16QAM	36	39	20.66	20.77	20.46	22	2	
15	16QAM	75	0	20.75	20.88	20.80			
15	64QAM	1	0	20.43	20.60	20.40			
15	64QAM	1	37	20.37	20.54	20.27	21	3	
15	64QAM	1	74	20.43	20.53	20.26			
15	64QAM	36	0	19.60	19.84	19.54			
15	64QAM	36	20	19.50	19.75	19.45	19	5	
15	64QAM	36	39	19.40	19.68	19.39			
15	64QAM	75	0	19.65	19.79	19.71			
15	256QAM	1	0	17.50	17.73	17.66	19	5	
15	256QAM	1	37	17.35	17.62	17.55			
15	256QAM	1	74	17.30	17.59	17.50			
15	256QAM	36	0	17.47	17.74	17.67	19	5	
15	256QAM	36	20	17.29	17.57	17.58			
15	256QAM	36	39	17.27	17.55	17.48			
15	256QAM	75	0	17.29	17.57	17.46			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.39	22.59	22.53	24	0	
10	QPSK	1	25	22.23	22.52	22.47			
10	QPSK	1	49	22.16	22.45	22.37			
10	QPSK	25	0	21.54	21.85	21.55	23	1	
10	QPSK	25	12	21.46	21.71	21.49			
10	QPSK	25	25	21.54	21.71	21.40			
10	QPSK	50	0	21.57	21.73	21.63	23	1	
10	16QAM	1	0	21.94	22.22	22.08			
10	16QAM	1	25	21.80	21.99	22.02			
10	16QAM	1	49	21.85	22.15	21.89	22	2	
10	16QAM	25	0	20.74	20.85	20.54			
10	16QAM	25	12	20.63	20.74	20.39			
10	16QAM	25	25	20.66	20.71	20.50	22	2	
10	16QAM	50	0	20.70	20.80	20.79			
10	64QAM	1	0	20.46	20.65	20.42			
10	64QAM	1	25	20.38	20.63	20.29	21	3	
10	64QAM	1	49	20.35	20.45	20.27			
10	64QAM	25	0	19.61	19.79	19.54			
10	64QAM	25	12	19.53	19.75	19.45	19	5	
10	64QAM	25	25	19.40	19.72	19.38			
10	64QAM	50	0	19.59	19.80	19.75			
10	256QAM	1	0	17.37	17.63	17.50	19	5	
10	256QAM	1	25	17.21	17.53	17.47			
10	256QAM	1	49	17.14	17.42	17.37			
10	256QAM	25	0	17.42	17.57	17.52	19	5	
10	256QAM	25	12	17.27	17.51	17.47			
10	256QAM	25	25	17.13	17.44	17.34			
10	256QAM	50	0	17.43	17.57	17.49			
Channel				20775	21160	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.30	22.59	22.53	24	0	
5	QPSK	1	12	22.17	22.49	22.39			
5	QPSK	1	24	22.20	22.46	22.38			
5	QPSK	12	0	21.54	21.83	21.51	23	1	
5	QPSK	12	7	21.42	21.67	21.48			
5	QPSK	12	13	21.53	21.71	21.48			
5	QPSK	25	0	21.57	21.75	21.67	23	1	
5	16QAM	1	0	21.89	22.19	22.10			
5	16QAM	1	12	21.85	22.00	22.01			
5	16QAM	1	24	21.81	22.10	21.92	22	2	
5	16QAM	12	0	20.78	20.81	20.58			
5	16QAM	12	7	20.65	20.73	20.46			
5	16QAM	12	13	20.66	20.76	20.42	22	2	
5	16QAM	25	0	20.78	20.86	20.76			
5	64QAM	1	0	20.49	20.62	20.34			
5	64QAM	1	12	20.33	20.55	20.28	21	3	
5	64QAM	1	24	20.38	20.47	20.28			
5	64QAM	12	0	19.67	19.80	19.58			
5	64QAM	12	7	19.48	19.73	19.46	19	5	
5	64QAM	12	13	19.40	19.73	19.42			
5	64QAM	25	0	19.61	19.76	19.73			
5	256QAM	1	0	17.52	17.64	17.55	19	5	
5	256QAM	1	12	17.37	17.51	17.34			
5	256QAM	1	24	17.20	17.45	17.43			
5	256QAM	12	0	17.29	17.62	17.56	19	5	
5	256QAM	12	7	17.16	17.47	17.39			
5	256QAM	12	13	17.18	17.45	17.37			
5	256QAM	25	0	17.25	17.58	17.51			



Band 38 Ant5 DSI2 Standalone

BW [MHz]	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	22.94	22.95	22.93	24	0
20	QPSK	1	49	22.75	22.87	22.80		
20	QPSK	1	99	22.73	22.85	22.78		
20	QPSK	50	0	21.91	21.94	21.89	23	1
20	QPSK	50	24	21.81	21.91	21.84		
20	QPSK	50	50	21.77	21.88	21.78		
20	QPSK	100	0	21.82	21.95	21.81	23	1
20	16QAM	1	0	21.65	21.71	21.62		
20	16QAM	1	49	21.53	21.65	21.59		
20	16QAM	1	99	21.55	21.68	21.61	22	2
20	16QAM	50	0	20.91	21.00	20.89		
20	16QAM	50	24	20.91	20.98	20.93		
20	16QAM	50	50	20.83	20.95	20.82	22	2
20	16QAM	100	0	20.79	20.87	20.78		
20	64QAM	1	0	21.10	21.20	21.10		
20	64QAM	1	49	20.98	21.05	20.95	22	2
20	64QAM	1	99	21.06	21.17	21.02		
20	64QAM	50	0	19.78	19.89	19.75		
20	64QAM	50	24	19.63	19.77	19.62	21	3
20	64QAM	50	50	19.77	19.86	19.71		
20	64QAM	100	0	19.91	19.98	19.84		
20	256QAM	1	0	17.95	17.90	17.91	19	5
20	256QAM	1	49	17.71	17.84	17.77		
20	256QAM	1	99	17.78	17.85	17.78		
20	256QAM	50	0	17.90	17.93	17.90	19	5
20	256QAM	50	24	17.76	17.90	17.81		
20	256QAM	50	50	17.68	17.86	17.77		
20	256QAM	100	0	17.65	17.88	17.73		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.84	22.88	22.83	24	0
15	QPSK	1	37	22.88	22.77	22.69		
15	QPSK	1	74	22.68	22.77	22.68		
15	QPSK	36	0	21.82	21.83	21.83	23	1
15	QPSK	36	20	21.72	21.88	21.73		
15	QPSK	36	39	21.65	21.77	21.71		
15	QPSK	75	0	21.75	21.80	21.71	23	1
15	16QAM	1	0	21.54	21.59	21.56		
15	16QAM	1	37	21.47	21.55	21.51		
15	16QAM	1	74	21.42	21.56	21.48	22	2
15	16QAM	36	0	20.84	20.94	20.82		
15	16QAM	36	20	20.79	20.83	20.79		
15	16QAM	36	39	20.71	20.84	20.76	22	2
15	16QAM	75	0	20.64	20.81	20.67		
15	64QAM	1	0	20.99	21.09	21.00		
15	64QAM	1	37	20.85	20.95	20.82	22	2
15	64QAM	1	74	20.96	21.07	20.93		
15	64QAM	36	0	19.70	19.80	19.69		
15	64QAM	36	20	19.57	19.62	19.54	21	3
15	64QAM	36	39	19.70	19.80	19.58		
15	64QAM	75	0	19.76	19.92	19.70		
15	256QAM	1	0	17.87	17.78	17.83	19	5
15	256QAM	1	37	17.62	17.78	17.67		
15	256QAM	1	74	17.71	17.80	17.67		
15	256QAM	36	0	17.76	17.80	17.76	19	5
15	256QAM	36	20	17.67	17.84	17.70		
15	256QAM	36	39	17.54	17.72	17.72		
15	256QAM	75	0	17.51	17.82	17.62		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.86	22.87	22.82	24	0
10	QPSK	1	25	22.61	22.75	22.68		
10	QPSK	1	49	22.60	22.75	22.64		
10	QPSK	25	0	21.85	21.77	21.78	23	1
10	QPSK	25	12	21.74	21.87	21.73		
10	QPSK	25	25	21.65	21.73	21.70		
10	QPSK	50	0	21.75	21.83	21.73	23	1
10	16QAM	1	0	21.53	21.61	21.56		
10	16QAM	1	25	21.39	21.59	21.52		
10	16QAM	1	49	21.47	21.56	21.46	22	2
10	16QAM	25	0	20.77	20.88	20.83		
10	16QAM	25	12	20.85	20.89	20.84		
10	16QAM	25	25	20.77	20.82	20.75	22	2
10	16QAM	50	0	20.69	20.75	20.63		
10	64QAM	1	0	21.02	21.08	21.05		
10	64QAM	1	25	20.91	20.94	20.85	22	2
10	64QAM	1	49	20.92	21.08	20.93		
10	64QAM	25	0	19.69	19.75	19.63		
10	64QAM	25	12	19.48	19.70	19.54	21	3
10	64QAM	25	25	19.63	19.78	19.58		
10	64QAM	50	0	19.84	19.92	19.78		
10	256QAM	1	0	17.90	17.81	17.83	19	5
10	256QAM	1	25	17.63	17.72	17.70		
10	256QAM	1	49	17.73	17.76	17.72		
10	256QAM	25	0	17.82	17.82	17.79	19	5
10	256QAM	25	12	17.70	17.83	17.74		
10	256QAM	25	25	17.54	17.79	17.70		
10	256QAM	50	0	17.51	17.83	17.66		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.80	22.87	22.81	24	0
5	QPSK	1	12	22.66	22.78	22.69		
5	QPSK	1	24	22.61	22.76	22.65		
5	QPSK	12	0	21.84	21.76	21.76	23	1
5	QPSK	12	7	21.71	21.85	21.70		
5	QPSK	12	13	21.66	21.73	21.65		
5	QPSK	25	0	21.73	21.82	21.71	23	1
5	16QAM	1	0	21.55	21.56	21.51		
5	16QAM	1	12	21.41	21.55	21.46		
5	16QAM	1	24	21.46	21.62	21.50	22	2
5	16QAM	12	0	20.81	20.93	20.77		
5	16QAM	12	7	20.79	20.92	20.85		
5	16QAM	12	13	20.75	20.87	20.74	22	2
5	16QAM	25	0	20.70	20.77	20.69		
5	64QAM	1	0	20.98	21.06	21.04		
5	64QAM	1	12	20.92	20.93	20.86	22	2
5	64QAM	1	24	20.92	21.05	20.89		
5	64QAM	12	0	19.68	19.75	19.68		
5	64QAM	12	7	19.50	19.69	19.52	21	3
5	64QAM	12	13	19.69	19.76	19.56		
5	64QAM	25	0	19.84	19.91	19.69		
5	256QAM	1	0	17.89	17.79	17.85	19	5
5	256QAM	1	12	17.59	17.70	17.70		
5	256QAM	1	24	17.67	17.79	17.70		
5	256QAM	12	0	17.80	17.83	17.77	19	5
5	256QAM	12	7	17.64	17.82	17.70		
5	256QAM	12	13	17.57	17.81	17.70		
5	256QAM	25	0	17.53	17.78	17.64		



Reduced Power Mode for DS12 Simultaneous

GSM850 Ant0 DS12 Simultaneous													
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	32.30	32.53	32.44	33.50	23.30	23.53	23.44	24.50					
GPRS 1 Tx slot	32.31	32.55	32.46	33.50	23.31	23.55	23.46	24.50					
GPRS 2 Tx slots	30.72	30.88	30.75	32.00	24.72	24.88	24.75	26.00					
GPRS 3 Tx slots	28.67	28.78	28.74	30.00	24.41	24.52	24.48	25.74					
GPRS 4 Tx slot	26.61	26.66	26.71	27.50	23.61	23.66	23.71	24.50					
EDGE 1 Tx slot	26.14	26.24	26.17	27.00	17.14	17.24	17.17	18.00					
EDGE 2 Tx slots	24.94	25.10	25.00	26.00	18.94	19.10	19.00	20.00					
EDGE 3 Tx slots	22.92	22.76	22.91	24.00	18.66	18.50	18.65	19.74					
EDGE 4 Tx slots	20.81	20.76	20.47	22.00	17.81	17.76	17.47	19.00					
GSM1900 Ant0 DS12 Simultaneous													
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	1880	1909.8		1850.2	1880	1909.8						
GSM 1 Tx slot	29.95	30.02	29.91	30.50	20.95	21.02	20.91	21.50					
GPRS 1 Tx slot	30.04	30.06	29.68	30.50	21.04	21.06	20.68	21.50					
GPRS 2 Tx slots	28.44	28.52	28.17	29.50	22.44	22.52	22.17	23.50					
GPRS 3 Tx slots	26.42	26.55	26.22	27.50	22.16	22.29	21.96	23.24					
GPRS 4 Tx slots	24.23	24.28	23.95	25.00	21.23	21.28	20.95	22.00					
EDGE 1 Tx slot	25.67	25.85	25.47	27.00	16.67	16.85	16.47	18.00					
EDGE 2 Tx slots	24.46	24.52	24.17	25.50	18.46	18.52	18.17	19.50					
EDGE 3 Tx slots	22.44	22.44	22.00	23.50	18.18	18.18	17.74	19.24					
EDGE 4 Tx slots	20.22	20.31	20.01	21.50	17.22	17.31	17.01	18.50					
WCDMA II Ant0 DS12 Simultaneous													
WCDMA IV Ant0 DS12 Simultaneous													
WCDMA V Ant0 DS12 Simultaneous													
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
TX Channel	9262	8400	9638		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	22.80	22.82	22.61	24.00	22.91	23.02	22.93	24.00	22.86	23.12	23.10	24.00
3GPP Rel 99	RMC 12.2Kbps	22.95	22.99	22.77	24.00	23.02	23.17	23.06	24.00	23.00	23.24	23.23	24.00
3GPP Rel 6	HSDPA Subtest-1	21.86	21.97	21.85	23.00	21.69	21.82	21.70	23.00	21.81	22.00	21.81	23.00
3GPP Rel 6	HSDPA Subtest-2	21.87	22.02	21.96	23.00	21.75	21.89	21.81	23.00	21.84	22.06	21.91	23.00
3GPP Rel 6	HSDPA Subtest-3	21.48	21.45	21.55	22.50	21.34	21.25	21.35	22.50	21.50	21.40	21.54	22.50
3GPP Rel 6	HSDPA Subtest-4	21.41	21.51	21.51	22.50	21.30	21.38	21.42	22.50	21.47	21.51	21.62	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.01	22.00	21.76	23.00	21.83	21.89	21.82	23.00	21.95	22.00	21.73	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.81	22.06	21.88	23.00	21.72	21.89	21.76	23.00	21.85	22.10	21.88	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.52	21.54	21.46	22.50	21.37	21.42	21.37	22.50	21.47	21.62	21.52	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.37	21.58	21.53	22.50	21.18	21.47	21.40	22.50	21.37	21.57	21.51	22.50
3GPP Rel 6	HSDPA Subtest-1	21.81	21.98	21.88	23.00	21.67	21.81	21.76	23.00	21.82	21.99	21.90	23.00
3GPP Rel 6	HSDPA Subtest-2	20.01	20.07	19.97	21.00	19.92	19.88	19.88	21.00	20.04	20.06	20.08	21.00
3GPP Rel 6	HSDPA Subtest-3	20.90	20.99	20.87	22.00	20.78	20.85	20.89	22.00	20.91	21.01	20.84	22.00
3GPP Rel 6	HSDPA Subtest-4	20.01	19.94	19.82	21.00	19.80	19.85	19.70	21.00	19.92	19.95	19.83	21.00
3GPP Rel 6	HSDPA Subtest-5	21.93	21.81	22.03	23.00	21.79	21.78	21.92	23.00	21.95	21.95	22.03	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.43	19.52	19.44	20.50	19.29	19.36	19.29	20.50	19.48	19.55	19.40	20.50



Band 2 Ant0 DSI2 Simultaneous															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MPE (dB)							
Channel															
Frequency (MHz)															
20	QPSK	1	0	22.23	22.27	22.24									
40	QPSK	1	59	22.16	22.22	22.18			24	0					
20	QPSK	50	0	21.33	21.36	21.33									
20	QPSK	24	0	21.23	21.28	21.25									
20	QPSK	50	50	21.19	21.24	21.28			23	1					
20	QPSK	100	0	21.03	21.04	21.02									
20	QPSK	1	49	21.31	21.48	21.32			23	1					
20	HQAM	1	99	21.24	21.49	21.34									
20	HQAM	50	0	20.39	20.45	20.36									
20	HQAM	50	24	20.33	20.35	20.28			22	2					
20	HQAM	50	50	20.32	20.41	20.29									
20	HQAM	100	0	20.29	20.38	20.21									
20	HQAM	1	0	20.58	20.65	20.54									
20	HQAM	1	49	20.46	20.59	20.46			22	2					
20	HQAM	1	99	20.53	20.53	20.48									
20	HQAM	50	0	19.35	19.44	19.29									
20	HQAM	50	24	19.22	19.31	19.26			21	3					
20	HQAM	50	50	19.27	19.25	19.24									
20	HQAM	100	0	19.41	19.32	19.30									
20	HQAM	1	49	17.22	17.28	17.32			19	5					
20	HQAM	1	99	17.16	17.17	17.28									
20	HQAM	50	0	17.23	17.46	17.41									
20	HQAM	50	24	17.15	17.20	17.21			19	5					
20	HQAM	50	50	17.11	17.19	17.21									
20	HQAM	100	0	17.13	17.18	17.21									
Channel															
Frequency (MHz)															
15	QPSK	1	0	22.12	22.21	22.16									
15	QPSK	1	74	22.02	22.07	22.05			24	0					
15	QPSK	1	74	22.01	22.13	22.08									
15	QPSK	36	0	21.28	21.29	21.27									
15	QPSK	20	0	21.07	21.14	21.04									
15	QPSK	36	36	21.07	21.16	21.15			23	1					
15	QPSK	75	0	21.06	21.48	21.34									
15	HQAM	1	0	21.04	21.47	21.31									
15	HQAM	1	37	21.19	21.38	21.18			23	1					
15	HQAM	1	74	21.15	21.32	21.18									
15	HQAM	36	0	20.33	20.30	20.19									
15	HQAM	36	20	20.24	20.21	20.14			22	2					
15	HQAM	36	36	20.19	20.20	20.20									
15	HQAM	75	0	20.22	20.25	20.16									
15	HQAM	1	0	20.51	20.59	20.40			22	2					
15	HQAM	1	37	20.51	20.56	20.41									
15	HQAM	1	74	20.45	20.38	20.35									
15	HQAM	36	0	19.25	19.34	19.29									
15	HQAM	36	20	19.13	19.15	19.15			21	3					
15	HQAM	36	36	19.22	19.20	19.15									
15	HQAM	75	0	19.27	19.42	19.27									
15	HQAM	1	49	17.22	17.38	17.27									
15	HQAM	1	99	17.17	17.17	17.22			19	5					
15	HQAM	1	74	17.08	17.30	17.14									
15	HQAM	36	0	17.24	17.46	17.41									
15	HQAM	36	20	17.02	17.12	17.14			19	5					
15	HQAM	36	36	17.03	17.03	17.16									
15	HQAM	75	0	17.11	17.18	17.22									
Channel															
Frequency (MHz)															
10	QPSK	1	0	22.01	22.08	22.03									
10	QPSK	1	25	22.01	22.03	22.08			24	0					
10	QPSK	1	49	22.12	22.12	22.07									
10	QPSK	1	74	22.13	22.13	22.09									
10	QPSK	25	12	21.17	21.16	21.08									
10	QPSK	25	25	21.06	21.16	21.19			23	1					
10	QPSK	50	0	21.06	21.06	21.05									
10	HQAM	1	0	21.27	21.54	21.28									
10	HQAM	1	25	21.18	21.40	21.18			23	1					
10	HQAM	1	49	21.14	21.38	21.14									
10	HQAM	25	0	20.24	20.37	20.19									
10	HQAM	25	12	20.24	20.22	20.14			22	2					
10	HQAM	25	25	20.17	20.19	20.15									
10	HQAM	50	0	20.24	20.30	20.13									
10	HQAM	1	0	20.48	20.60	20.42			22	2					
10	HQAM	1	25	20.33	20.36	20.30									
10	HQAM	1	49	20.39	20.44	20.40									
10	HQAM	25	0	19.21	19.37	19.20									
10	HQAM	25	12	19.11	19.24	19.10			21	3					
10	HQAM	25	25	19.21	19.24	19.10									
10	HQAM	50	0	19.32	19.41	19.30									
10	HQAM	50	12	19.38	19.38	19.29									
10	HQAM	50	25	17.14	17.16	17.18			19	5					
10	HQAM	1	49	17.11	17.21	17.13									
10	HQAM	1	99	17.22	17.26	17.22									
10	HQAM	25	12	17.07	17.08	17.16			19	5					
10	HQAM	25	25	17.09	17.08	17.06									
10	HQAM	50	0	17.11	17.17	17.22									
Channel															
Frequency (MHz)															
5	QPSK	1	0	22.11	22.10	22.11									
5	QPSK	1	12	22.04	22.02	22.03			24	0					
5	QPSK	1	24	22.07	22.07	22.02									
5	QPSK	12	0	21.03	21.03	21.01									
5	QPSK	12	7	21.16	21.14	21.04			23	1					
5	QPSK	25	0	21.13	21.18	21.18									
5	HQAM	1	0	21.34	21.48	21.33									
5	HQAM	1	12	21.21	21.36	21.18			23	1					
5	HQAM	1	24	21.03	21.16	21.07									
5	HQAM	12	0	20.32	20.31	20.28									
5	HQAM	12	7	20.26	20.26	20.16			22	2					
5	HQAM	12	12	20.23	20.35	20.24									
5	HQAM	25	0	20.13	20.27	20.15									
5	HQAM	1	0	20.47	20.58	20.47			22	2					
5	HQAM	1	12	20.41	20.58	20.35									
5	HQAM	1	24	20.43	20.39	20.43									
5	HQAM	12	0	19.26	19.30	19.24									
5	HQAM	12	7	19.09	19.15	19.14			21	3					
5	HQAM	12	12	19.17	19.23	19.17									
5	HQAM	25	0	19.26	19.46	19.31									
5	HQAM	25	12	17.31	17.39	17.34			19	5					
5	HQAM	25	25	17.09	17.16	17.25									
5	HQAM	50	0	17.02	17.18	17.07			19	5					
Channel															
Frequency (MHz)															
18	QPSK	1	0	22.12	22.17	22.15									
18	QPSK	1	8	22.03	22.12	22.05			24	0					
18	QPSK	1	14	22.01	22.09	22.02									
18	QPSK	3	0	21.03	21.02	21.01									
18	QPSK	8	4	21.15	21.12	21.08			23	1					
18	QPSK	8	7	21.13	21.12	21.18									
18	QPSK	15	0	21.08	21.47	21.37									
18	HQAM	1	0	21.35	21.48	21.32									
18	HQAM	1	8	21.27	21.33	21.21			23	1					
18	HQAM	1	14	21.13	21.44	21.24									
18	HQAM	3	0	20.27	20.31	20.23									
18	HQAM	8	4	20.20	20.23	20.19			22	2					
18	HQAM	8	7	20.29	20.27	20.20									
18	HQAM	15	0	20.23	20.26	20.11									
18	HQAM	1	0	20.47	20.54	20.47			22	2					
18	HQAM	1	8	20.43	20.43	20.35									
18	HQAM	1	14	20.44	20.42	20.37									
18	HQAM	3	0	19.27	19.32	19.32									
18	HQAM	3	14	19.13	19.19	19.22			21	3					
18	HQAM	8	7	19.13	19.25	19.20									
18	HQAM	15	0	17.34	17.32	17.33									



Band 12 Ant0 DS12 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	MFR (dB)
Channel							
Frequency (MHz)	704	707.5	711	715	718.5	722	725.5
10	QPSK	1	0	22.67	22.71	22.60	
10	QPSK	1	25	22.57	22.61	22.49	24
10	QPSK	1	49	22.34	22.47	22.58	
10	QPSK	25	0	21.63	21.79	21.66	
10	QPSK	25	12	21.41	21.47	21.21	23
10	QPSK	25	25	21.46	21.60	21.58	
10	QPSK	50	0	21.53	21.55	21.32	
10	HQAM	1	0	21.69	21.66	21.73	23
10	HQAM	1	25	21.70	21.79	21.71	
10	HQAM	1	49	21.62	21.76	21.69	
10	HQAM	25	0	20.89	20.95	20.73	22
10	HQAM	25	12	20.72	20.76	20.54	
10	HQAM	25	25	20.74	20.79	20.61	
10	HQAM	50	0	20.54	20.58	20.53	
10	HQAM	1	0	20.70	20.69	20.65	22
10	HQAM	1	25	20.57	20.67	20.54	
10	HQAM	1	49	20.62	20.59	20.66	
10	HQAM	25	0	19.62	19.59	19.55	21
10	HQAM	25	12	19.52	19.63	19.26	
10	HQAM	25	25	19.58	19.65	19.65	
10	HQAM	50	0	19.63	19.59	19.45	
10	HQAM	1	25	17.69	17.77	17.58	19
10	HQAM	1	49	17.68	17.79	17.42	
10	HQAM	1	73	17.69	17.77	17.58	
10	HQAM	25	12	17.55	17.69	17.59	19
10	HQAM	25	25	17.63	17.79	17.57	
10	HQAM	50	0	17.60	17.62	17.27	
Channel							
Frequency (MHz)							
5	QPSK	1	0	22.67	22.66	22.44	
5	QPSK	1	12	22.60	22.48	22.41	24
5	QPSK	1	24	22.39	22.55	22.42	
5	QPSK	12	0	21.61	21.68	21.51	
5	QPSK	12	7	21.54	21.42	21.61	23
5	QPSK	12	13	21.33	21.53	21.46	
5	QPSK	25	0	21.45	21.97	21.26	
5	HQAM	1	0	21.65	21.71	21.69	23
5	HQAM	1	12	21.67	21.66	21.67	
5	HQAM	1	24	21.57	21.60	21.62	
5	HQAM	12	0	20.78	20.90	20.63	22
5	HQAM	12	7	20.70	20.71	20.47	
5	HQAM	12	13	20.68	20.65	20.48	
5	HQAM	25	0	20.40	20.63	20.59	
5	HQAM	1	0	20.58	20.60	20.52	22
5	HQAM	1	12	20.65	20.69	20.48	
5	HQAM	1	24	20.59	20.55	20.53	
5	HQAM	12	0	19.52	19.43	19.37	21
5	HQAM	12	7	19.48	19.55	19.25	
5	HQAM	12	13	19.51	19.64	19.35	
5	HQAM	25	0	19.45	19.45	19.35	
5	HQAM	1	0	17.63	17.69	17.43	19
5	HQAM	1	12	17.53	17.74	17.52	
5	HQAM	1	24	17.51	17.83	17.26	
5	HQAM	12	0	17.62	17.66	17.45	19
5	HQAM	12	7	17.51	17.52	17.49	
5	HQAM	12	13	17.69	17.69	17.50	
5	HQAM	25	0	17.51	17.58	17.27	
Channel							
Frequency (MHz)							
3	QPSK	1	0	22.67	22.66	22.44	
3	QPSK	1	8	22.39	22.63	22.42	24
3	QPSK	1	14	22.37	22.63	22.48	
3	QPSK	8	0	21.66	21.66	21.44	
3	QPSK	8	4	21.29	21.30	21.87	23
3	QPSK	8	7	21.43	21.45	21.48	
3	HQAM	1	0	21.69	21.69	21.68	23
3	HQAM	1	8	21.62	21.71	21.68	
3	HQAM	1	14	21.46	21.55	21.52	
3	HQAM	8	0	20.73	20.54	20.68	22
3	HQAM	8	4	20.57	20.68	20.60	
3	HQAM	8	7	20.63	20.71	20.53	
3	HQAM	15	0	20.40	20.58	20.45	
3	HQAM	1	0	20.55	20.58	20.48	22
3	HQAM	1	8	20.51	20.52	20.50	
3	HQAM	1	14	20.45	20.44	20.54	
3	HQAM	8	0	19.52	19.46	19.46	21
3	HQAM	8	4	19.46	19.45	19.52	
3	HQAM	8	7	19.55	19.52	19.29	
3	HQAM	15	0	19.43	19.35	19.30	
3	HQAM	1	0	17.65	17.66	17.49	19
3	HQAM	1	8	17.63	17.63	17.54	
3	HQAM	1	14	17.63	17.61	17.26	
3	HQAM	8	0	17.45	17.53	17.60	19
3	HQAM	8	4	17.50	17.58	17.47	
3	HQAM	8	7	17.48	17.75	17.49	
3	HQAM	15	0	17.51	17.38	17.24	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	22.34	22.45	22.44	
1.4	QPSK	1	3	22.39	22.48	22.53	24
1.4	QPSK	1	5	22.39	22.52	22.35	
1.4	QPSK	3	0	22.35	22.43	22.42	
1.4	QPSK	3	1	22.30	22.35	22.37	
1.4	QPSK	3	3	22.34	22.48	22.30	23
1.4	HQAM	1	0	21.47	21.70	21.62	
1.4	HQAM	1	0	21.44	21.71	21.60	23
1.4	HQAM	1	3	21.37	21.55	21.33	
1.4	HQAM	1	5	21.26	21.53	21.52	
1.4	HQAM	3	0	21.41	21.62	21.40	
1.4	HQAM	3	1	21.30	21.54	21.21	
1.4	HQAM	3	3	21.44	21.47	21.38	
1.4	HQAM	8	0	20.45	20.42	20.24	22
1.4	HQAM	1	0	20.58	20.79	20.55	
1.4	HQAM	1	3	20.61	20.48	20.58	
1.4	HQAM	1	5	20.82	20.75	20.58	22
1.4	HQAM	3	0	20.52	20.69	20.50	
1.4	HQAM	3	1	20.79	20.49	20.52	
1.4	HQAM	3	3	20.58	20.44	20.45	
1.4	HQAM	8	0	19.52	19.68	19.41	21
1.4	HQAM	1	0	17.49	17.49	17.32	19
1.4	HQAM	1	3	17.27	17.50	17.30	
1.4	HQAM	1	5	17.31	17.42	17.26	
1.4	HQAM	3	0	17.28	17.44	17.63	19
1.4	HQAM	3	1	17.25	17.26	17.31	
1.4	HQAM	3	3	17.23	17.17	17.26	
1.4	HQAM	8	0	17.44	17.21	17.25	19

Band 13 Ant0 DS12 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	MFR (dB)
Channel							
Frequency (MHz)	702	706	710	714	718	722	726
10	QPSK	1	0	22.38			
10	QPSK	1	25	22.34			24
10	QPSK	1	49	22.28			
10	QPSK	25	0	21.54			
10	QPSK	25	12	21.48			23
10	QPSK	25	25	21.41			
10	QPSK	50	0	21.38			
10	HQAM	1	0	21.78			23
10	HQAM	1	25	21.65			
10	HQAM	1	49	21.59			
10	HQAM	25	0	20.57			22
10	HQAM	25	12	20.48			
10	HQAM	25	25	20.45			
10	HQAM	50	0	20.35			
10	HQAM	1	0	20.68			22
10	HQAM	1	25	20.62			
10	HQAM	1	49	20.57			
10	HQAM	25	0	19.62			21
10	HQAM	25	12	19.54			
10	HQAM	25	25	19.53			
10	HQAM	50	0	19.41			
10	HQAM	1	25	17.45			19
10	HQAM	1	49	17.46			
10	HQAM	1	73	17.55			
10	HQAM	25	12	17.43			19
10	HQAM	25	25	17.38			
10	HQAM	50	0	17.41			
Channel							
Frequency (MHz)							
5	QPSK	1	0	22.24	22.29	22.25	
5	QPSK	1	12	22.52	22.36	22.59	24
5	QPSK	1	24	22.06	22.19	22.02	
5	QPSK	12	0	21.26	21.46	21.38	
5	QPSK	12	7	21.50	21.41	21.26	23
5	QPSK	12	13	21.26	21.37	21.33	
5	QPSK	25	0	21.11	21.50	21.14	
5	HQAM	1	0	21.67	21.72	21.68	23
5	HQAM	1	12	21.36	21.49	21.46	
5	HQAM	1	24	21.25	21.41	21.24	
5	HQAM	12	0	20.44	20.51	20.45	22
5	HQAM	12	7	20.31	20.36	20.19	
5	HQAM	12	13	20.20	20.35	20.29	
5	HQAM	25	0	20.16	20.24	20.18	
5	HQAM	1	0	20.24	20.51	20.37	22
5	HQAM	1	12	20.44	20.47	20.37	
5	HQAM	1	24	20.39	20.48	20.43	
5	HQAM	12	0	19.48	19.53	19.50	21
5	HQAM	12	7	19.40	19.51	19.35	
5	HQAM	12	13	19.22	19.38	19.25	
5	HQAM	25	0	19.22	19.25	19.15	
5	HQAM	1	0	17.28	17.44	17.33	19
5	HQAM	1	12	17.18	17.32	17.22	
5	HQAM	1	24	17.25	17.42	17.38	
5	HQAM	12	0	17.24	17.36	17.13	19
5	HQAM	12	7	17.21	17.32	17.20	
5	HQAM	12	13	17.17	17.21	17.59	
5	HQAM	25	0	17.32	17.37	17.24	

Band 17 Ant0 DS12 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	MFR (dB)
Channel							
Frequency (MHz)	709	710	711	712	713	714	715
10	QPSK	1	0	22.62	22.65	22.49	
10	QPSK	1	25	22.52	22.57	22.41	24
10	QPSK	1	49	22.52	22.48	22.33	
10	QPSK	25	0	21.57	21.54	21.60	
10	QPSK	25	12	21.56	21.43	21.50	23
10	QPSK	25	25	21.47	21.45	21.50	
10	QPSK	50	0	21.48	21.54	21.41	
10	HQAM	1	0	21.59	21.76	21.54	23
10	HQAM	1	25	21.62	21.65	21.39	
10	HQAM	1	49	21.41	21.65	21.42	
10	HQAM	25	0	20.57	20.54	20.51	22
10	HQAM	25	12	20.51	20.8		

**Band 25 Ant0 DS12 Simultaneous**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up (MHz)	TPR (dB)	TPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.25	22.25	22.25			
20	QPSK	1	49	22.25	22.24	22.23	24	0	
20	QPSK	1	99	22.25	22.16	22.23	24	0	
20	QPSK	50	0	21.30	21.41	21.26			
20	QPSK	50	24	21.30	21.23	21.30	23	1	
20	QPSK	50	50	21.24	21.24	21.10			
20	QPSK	100	0	21.25	21.22	21.15			
20	QPSK	100	24	21.48	21.58	21.49	23	1	
20	QPSK	1	49	21.37	21.45	21.34	23	1	
20	16QAM	1	0	21.40	21.33	21.31			
20	16QAM	50	0	20.30	20.33	20.28			
20	16QAM	50	24	20.22	20.29	20.14	22	2	
20	16QAM	100	0	20.10	20.20	20.20			
20	16QAM	100	24	20.10	20.21	20.19	22	2	
20	16QAM	1	0	20.20	20.32	20.25			
20	16QAM	1	49	20.11	20.19	20.22	22	2	
20	16QAM	1	0	20.30	20.22	20.18			
20	16QAM	50	0	19.31	19.33	19.25			
20	16QAM	50	24	19.30	19.27	19.13	21	3	
20	16QAM	100	0	19.25	19.22	19.11			
20	16QAM	100	24	19.21	19.28	19.15	21	3	
20	256QAM	1	0	17.28	17.36	17.29			
20	256QAM	1	49	17.13	17.25	17.13	19	5	
20	256QAM	1	99	17.28	17.18	17.23			
20	256QAM	50	0	17.30	17.23	17.29			
20	256QAM	50	24	17.12	17.20	17.13	19	5	
20	256QAM	50	50	17.28	17.15	17.21			
20	256QAM	100	0	17.28	17.11	17.17			
20	256QAM	100	24	16.15	16.40	16.61	19	5	
Channel									
Frequency (MHz)									
16	QPSK	1	0	22.16	22.21	22.19			
16	QPSK	1	49	22.16	22.18	22.09	24	0	
16	QPSK	1	74	22.09	22.10	22.19	24	0	
16	QPSK	36	0	21.32	21.34	21.17			
16	QPSK	36	24	21.27	21.14	21.12	23	1	
16	QPSK	36	36	21.14	21.11	21.12			
16	QPSK	75	0	21.46	21.45	21.48			
16	QPSK	75	0	21.38	21.43	21.40	23	1	
16	16QAM	1	37	21.29	21.34	21.29	23	1	
16	16QAM	1	74	21.29	21.42	21.26			
16	16QAM	25	0	20.19	20.26	20.13			
16	16QAM	36	20	20.13	20.20	20.04	22	2	
16	16QAM	36	0	20.10	20.12	20.08			
16	16QAM	75	0	20.10	20.14	20.04			
16	16QAM	1	0	20.21	20.22	20.15			
16	16QAM	1	49	20.10	20.18	20.20	22	2	
16	16QAM	1	74	20.10	20.09	20.05			
16	16QAM	36	0	19.20	19.21	19.13			
16	16QAM	36	20	19.20	19.16	19.05	21	3	
16	16QAM	36	36	19.15	19.13	19.02			
16	16QAM	75	0	19.12	19.17	19.02			
16	256QAM	1	0	17.06	17.08	17.06			
16	256QAM	1	37	17.02	17.12	17.07	19	5	
16	256QAM	1	74	17.14	17.11	17.16			
16	256QAM	36	0	17.14	17.23	17.13			
16	256QAM	36	20	17.02	17.08	17.05	19	5	
16	256QAM	36	36	17.17	17.04	17.13			
16	256QAM	75	0	17.14	17.11	17.11			
16	256QAM	100	0	16.09	16.40	16.60	19	5	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.02	22.02	22.01			
10	QPSK	1	49	22.02	22.14	22.02	24	0	
10	QPSK	1	99	22.02	22.02	22.02			
10	QPSK	25	0	21.26	21.22	21.16			
10	QPSK	25	12	21.24	21.15	21.14	23	1	
10	QPSK	25	25	21.18	21.11	21.00			
10	16QAM	1	0	21.38	21.51	21.40			
10	16QAM	1	25	21.31	21.32	21.20	23	1	
10	16QAM	1	49	21.26	21.42	21.26			
10	16QAM	25	0	20.34	20.26	20.14			
10	16QAM	25	12	20.15	20.24	20.11	22	2	
10	16QAM	25	12	20.15	20.24	20.11			
10	16QAM	50	0	20.08	20.08	20.07			
10	16QAM	1	0	20.21	20.18	20.11			
10	16QAM	1	49	20.10	20.14	20.11	22	2	
10	16QAM	1	99	20.10	20.14	20.11			
10	16QAM	25	0	19.16	19.24	19.18			
10	16QAM	25	12	19.16	19.18	19.08	21	3	
10	16QAM	25	12	19.10	19.10	19.08			
10	16QAM	50	0	19.08	19.13	19.09			
10	16QAM	50	24	19.08	19.11	19.06	21	3	
10	256QAM	1	0	17.06	17.14	17.06			
10	256QAM	1	49	17.13	17.05	17.09	19	5	
10	256QAM	1	99	17.14	17.23	17.12			
10	256QAM	25	0	17.11	17.05	17.09			
10	256QAM	25	12	17.11	17.05	17.14	19	5	
10	256QAM	25	25	17.13	17.09	17.14			
10	256QAM	50	0	17.02	17.13	17.07			
10	256QAM	100	0	16.09	16.40	16.60	19	5	
Channel									
Frequency (MHz)									
8	QPSK	1	0	22.14	22.18	22.16			
8	QPSK	1	49	22.14	22.18	22.02	24	0	
8	QPSK	1	12	22.05	22.14	22.03			
8	QPSK	1	24	22.15	22.10	22.16	24	0	
8	QPSK	12	0	21.28	21.28	21.36			
8	QPSK	12	7	21.21	21.19	21.17	23	1	
8	QPSK	12	13	21.18	21.18	21.36			
8	QPSK	12	19	21.28	21.47	21.36	23	1	
8	16QAM	1	0	21.43	21.47	21.39			
8	16QAM	1	12	21.25	21.30	21.31	23	1	
8	16QAM	1	25	21.21	21.32	21.20			
8	16QAM	12	0	20.20	20.30	20.15			
8	16QAM	12	7	20.23	20.21	20.08	22	2	
8	16QAM	12	8	20.23	20.21	20.08			
8	16QAM	25	0	20.07	20.08	20.04			
8	16QAM	1	0	20.62	20.62	20.40	22	2	
8	16QAM	1	49	20.38	20.42	20.36			
8	16QAM	1	24	20.38	20.42	20.36	22	2	
8	16QAM	12	0	19.41	19.43	19.34			
8	16QAM	12	7	19.36	19.37	19.24	21	3	
8	16QAM	12	13	19.26	19.28	19.22			
8	16QAM	25	0	19.39	19.40	19.33			
8	16QAM	25	7	19.28	19.31	19.20	21	3	
8	256QAM	1	0	17.05	17.18	17.12			
8	256QAM	1	24	17.27	17.21	17.17	19	5	
8	256QAM	1	49	17.23	17.25	17.22			
8	256QAM	12	7	17.14	17.23	17.12	19	5	
8	256QAM	12	13	17.24	17.09	17.21			
8	256QAM	25	0	17.06	17.21	17.08			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.11	22.22	22.23			
3	QPSK	1	14	22.11	22.22	22.23	24	0	
3	QPSK	1	8	22.12	22.21	22.09			
3	QPSK	1	16	22.27	22.18	22.22	24	0	
3	QPSK	8	0	21.26	21.26	21.36			
3	QPSK	8	4	21.23	21.24	21.27	23	1	
3	QPSK	8	7	21.21	21.24	21.39			
3	16QAM	1	0	21.51	21.49	21.43			
3	16QAM	1	0	21.44	21.46	21.37			
3	16QAM	1	8	21.26	21.32	21.29	23	1	
3	16QAM	1	8	21.27	21.21	21.24			
3	16QAM	8	0	20.33	20.28	20.22			
3	16QAM	8	4	20.24	20.18	20.03	22	2	
3	16QAM	15	0	20.05	20.15	20.01			
3	16QAM	1	0	20.65	20.67	20.44	22	2	
3	16QAM	1	8	20.39	20.42	20.35			
3	16QAM	1	14	20.33	20.38	20.25			
3	16QAM	8	0	19.39	19.46	19.34			
3	16QAM	8	7	19.27	19.31	19.20	21	3	
3	16QAM	8	7	19.33	19.33	19.15			
3	16QAM	15	0	19.41	19.43	19.37			
3	256QAM	1	0	17.23	17.35	17.29			
3	256QAM	1	8	17.11	17.26	17.10	19	5	
3	256QAM	1	14	17.26	17.15	17.22			
3	256QAM	8	4	17.28	17.29	17.26	19	5	
3	256QAM	8	4	17.13	17.26	17.10			
3	256QAM	15	0	17.28	17.21	17.15			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.11	22.22	22.15			
1.4	QPSK	1	8	22.15	22.28	22.25			
1.4	QPSK	1	5	22.10	22.31	22.27	24	0	
1.4	QPSK	1	9	22.15	22.20	22.24			
1.4	QPSK	3	1	21.18	22.20	22.27			
1.4	QPSK	3	3	22.06	22.21	22.29	23	1	
1.4	QPSK	3	5	21.58	21.49	21.39			
1.4	16QAM	1	0	21.43	21.44	21.39			
1.4	16QAM	1	9	21.30	21.44	21.21	23	1	
1.4	16QAM	3	1	21.24	21.41	21.30			
1.4	16QAM	3	1	21.24	21.41	21.14	23	1	
1.4	16QAM	6	0	20.19	20.20	20.15			
1.4	16QAM	1	0	20.42	20.61	20.61	22	2	
1.4	16QAM	1	8	20.46	20.40				



Band 4 Ant1 DS2i Simultaneous													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MPE (dB)					
Channel									Frequency (MHz)				
20	QPSK	1	0	22.07	22.23	22.13	23.3	0					
20	QPSK	1	49	21.89	21.92	21.86	23.3	0					
20	QPSK	50	0	21.98	21.99	21.91	23	0.3					
20	QPSK	50	24	21.99	21.91	21.99	23	0.3					
20	QPSK	50	50	21.72	21.78	21.78	23	0.3					
20	QPSK	100	0	21.83	21.71	21.69	23	0.3					
20	QPSK	100	24	22.11	22.14	22.09	23	0.3					
20	HQAM	1	49	21.87	22.01	21.89	22	1.3					
20	HQAM	1	99	22.01	22.01	21.98	22	1.3					
20	HQAM	50	0	20.91	21.93	20.90	22	1.3					
20	HQAM	50	24	20.82	20.95	20.87	22	1.3					
20	HQAM	50	50	20.81	20.88	20.78	21	2.3					
20	HQAM	100	0	20.85	20.87	20.82	21	2.3					
20	HQAM	1	0	21.01	21.07	21.01	19	4.3					
20	HQAM	1	49	20.86	20.86	20.87	19	4.3					
20	HQAM	50	24	19.98	20.05	20.00	19	4.3					
20	HQAM	50	50	19.97	19.97	19.92	19	4.3					
20	HQAM	100	0	20.18	20.32	20.22	19	4.3					
20	HQAM	1	49	17.72	17.78	17.67	19	4.3					
20	HQAM	1	99	17.48	17.67	17.43	19	4.3					
20	HQAM	50	24	17.58	17.62	17.58	19	4.3					
20	HQAM	50	24	17.38	17.62	17.40	19	4.3					
20	HQAM	50	50	17.48	17.63	17.58	19	4.3					
20	HQAM	100	0	17.58	17.62	17.48	19	4.3					
Channel									Frequency (MHz)				
15	QPSK	1	0	21.93	22.14	21.98	23.3	0					
15	QPSK	1	49	21.84	21.99	21.91	23.3	0					
15	QPSK	1	74	21.83	21.88	21.80	23.3	0					
15	QPSK	50	0	21.88	21.91	21.78	23	0.3					
15	QPSK	50	24	21.79	21.85	21.79	23	0.3					
15	QPSK	36	36	21.65	21.65	21.61	23	0.3					
15	QPSK	75	0	21.87	22.09	21.84	23	0.3					
15	HQAM	1	49	21.07	22.07	22.02	22	1.3					
15	HQAM	1	99	21.84	21.92	21.84	22	1.3					
15	HQAM	50	0	20.77	20.91	20.83	22	1.3					
15	HQAM	50	24	20.70	20.80	20.79	22	1.3					
15	HQAM	50	50	20.73	20.81	20.68	22	1.3					
15	HQAM	75	0	20.73	20.81	20.68	22	1.3					
15	HQAM	1	0	20.88	21.01	20.82	21	2.3					
15	HQAM	1	49	20.88	21.01	20.82	21	2.3					
15	HQAM	50	24	20.76	20.85	20.73	21	2.3					
15	HQAM	50	50	20.81	20.88	20.81	21	2.3					
15	HQAM	75	0	20.87	20.94	20.69	21	2.3					
15	HQAM	1	49	17.58	17.67	17.51	19	4.3					
15	HQAM	1	99	17.38	17.47	17.30	19	4.3					
15	HQAM	50	24	17.44	17.52	17.44	19	4.3					
15	HQAM	50	24	17.24	17.42	17.33	19	4.3					
15	HQAM	50	50	17.40	17.53	17.45	19	4.3					
15	HQAM	75	0	17.58	17.62	17.48	19	4.3					
Channel									Frequency (MHz)				
10	QPSK	1	0	22.09	22.17	22.02	23.3	0					
10	QPSK	1	25	21.81	21.93	21.88	23.3	0					
10	QPSK	1	49	21.86	21.96	21.86	23	0					
10	QPSK	50	0	21.88	21.88	21.88	23	0.3					
10	QPSK	25	12	21.77	21.83	21.78	23	0.3					
10	QPSK	25	25	21.59	21.68	21.68	23	0.3					
10	HQAM	1	0	22.09	22.07	22.03	23	0.3					
10	HQAM	1	25	21.89	21.91	21.86	23	0.3					
10	HQAM	1	49	21.88	21.98	21.88	22	1.3					
10	HQAM	50	0	20.89	20.97	20.77	22	1.3					
10	HQAM	25	12	20.87	20.85	20.79	22	1.3					
10	HQAM	25	25	20.70	20.78	20.68	22	1.3					
10	HQAM	50	0	20.71	20.85	20.72	22	1.3					
10	HQAM	1	0	20.88	20.94	20.89	22	1.3					
10	HQAM	1	25	20.88	20.94	20.89	22	1.3					
10	HQAM	50	24	20.76	20.88	20.88	22	1.3					
10	HQAM	50	50	20.89	20.97	20.90	22	1.3					
10	HQAM	75	0	20.81	20.88	20.79	21	2.3					
10	HQAM	50	25	19.81	19.88	19.79	21	2.3					
10	HQAM	50	0	20.11	20.22	20.28	21	2.3					
10	HQAM	1	49	17.65	17.71	17.62	19	4.3					
10	HQAM	1	99	17.45	17.58	17.58	19	4.3					
10	HQAM	50	24	17.44	17.49	17.33	19	4.3					
10	HQAM	50	24	17.50	17.51	17.43	19	4.3					
10	HQAM	25	12	17.29	17.42	17.38	19	4.3					
10	HQAM	25	25	17.35	17.49	17.47	19	4.3					
10	HQAM	50	0	17.58	17.62	17.48	19	4.3					
Channel									Frequency (MHz)				
5	QPSK	1	0	21.87	22.05	21.88	23.3	0					
5	QPSK	1	12	21.81	22.00	21.81	23.3	0					
5	QPSK	1	24	21.91	21.92	21.90	23	0					
5	QPSK	12	0	21.86	21.86	21.86	23	0.3					
5	QPSK	12	7	21.80	21.85	21.75	23	0.3					
5	QPSK	12	13	21.68	21.84	21.63	23	0.3					
5	HQAM	1	0	22.01	22.03	22.00	23	0.3					
5	HQAM	1	12	21.90	21.93	21.88	23	0.3					
5	HQAM	12	0	20.89	20.97	20.89	22	1.3					
5	HQAM	12	7	20.82	20.89	20.77	22	1.3					
5	HQAM	12	13	20.69	20.80	20.73	22	1.3					
5	HQAM	25	0	20.71	20.81	20.70	22	1.3					
5	HQAM	25	0	20.90	20.93	20.96	22	1.3					
5	HQAM	50	0	20.77	20.79	20.69	22	1.3					
5	HQAM	1	24	20.80	20.85	20.85	21	2.3					
5	HQAM	12	0	19.82	19.92	19.87	21	2.3					
5	HQAM	12	7	19.83	19.95	19.85	21	2.3					
5	HQAM	12	13	19.77	19.89	19.78	21	2.3					
5	HQAM	25	0	20.12	20.21	20.15	20	3					
5	HQAM	1	0	17.83	17.88	17.83	19	4.3					
5	HQAM	1	12	17.62	17.68	17.58	19	4.3					
5	HQAM	1	24	17.40	17.44	17.30	19	4.3					
5	HQAM	12	0	17.48	17.52	17.48	19	4.3					
5	HQAM	12	7	17.30	17.42	17.31	19	4.3					
5	HQAM	25	0	17.55	17.64	17.48	19	4.3					
Channel									Frequency (MHz)				
1.4	QPSK	1	0	21.93	22.15	22.05	23.3	0					
1.4	QPSK	1	3	21.75	21.99	21.85	23.3	0					
1.4	QPSK	1	5	21.88	21.89	21.87	23	0					
1.4	QPSK	3	1	21.89	21.84	21.77	23	0.3					
1.4	QPSK	8	4	21.76	21.78	21.81	23	0.3					
1.4	QPSK	8	7	21.61	21.71	21.68	23	0.3					
1.4	HQAM	1	0	22.08	22.07	22.05	23	0.3					
1.4	HQAM	1	8	21.83	21.87	21.86	23	0.3					
1.4	HQAM	14	0	21.07	21.91	21.83	22	1.3					
1.4	HQAM	3	0	20.79	20.94	20.75	22	1.3					
1.4	HQAM	8	4	20.74	20.89	20.80	22	1.3					
1.4	HQAM	15	0	20.69	20.77	20.69	22	1.3					
1.4	HQAM	1	0	20.71	20.78	20.77	21	2.3					
1.4	HQAM	1	8	20.81	20.84	20.80	21	2.3					
1.4	HQAM	3	0	20.72	20.84	20.74	21	2.3					
1.4	HQAM	14	0	20.76	20.84	20.85	21	2.3					
1.4	HQAM	8	7	19.87	19.92	19.83	21	2.3					
1.4	HQAM	8	7	19.72	19.91	19.82	21	2.3					
1.4	HQAM	15	0	20.88	20.95	20.82	19	4.3					
1.4	HQAM	1	8	17.68	17.75	17.65	19	4.3					
1.4	HQAM	1	8	17.65	17.69	17.55	19	4.3					
1.4	HQAM	3	14	17.43	17.45	17.38	19	4.3					
1.4	HQAM	8	4	17.43	17.54	17.46	19	4.3					
1.4	HQAM	8	7	17.33	17.47	17.48	19	4.3					
1.4	HQAM	15	0	17.57	17.66	17.52	19	4.3					
Channel									Frequency (MHz)				
1.4	QPSK	1	0	21.93	22.16	22.06	23.3	0					
1.4	QPSK	1	3	21.75	21.99	21.85	23.3	0					
1.4	QPSK	1	5	21.88	21.89	21.87	23	0					
1.4	QPSK	3	1	21.89	21.84	21.77	23	0.3					
1.4	QPSK	8	4	21.76	21.78	21.81	23	0.3					
1.4	QPSK	8	7	21.61	21.71	21.68	23	0.3					
1.4	HQAM	1	0	22.08	22.07	22.05	23	0.3					
1.4	HQAM	1	8	21.83	21.87	21.86	23	0.3					
1.4	HQAM	14	0	21.07	21.91	21.83	22	1.3					
1.4	HQAM	3	0	20.79	20.94	20.75	22	1.3					
1.4	HQAM	8	4	20.74	20.89	20.80	22	1.3					
1.4	HQAM	15	0	20.69	20.77	20.69	22	1.3					
1.4	HQAM	1	0	20.71	20.78	20.77	21	2.3					
1.4	HQAM	1	8	20.81	20.84	20.80	21	2.3					
1.4	HQAM	3	0	20.72	20.84	20.74	21	2.3					
1.4	HQAM	14	0	20.76	20.84	20.85	21	2.3					
1.4	HQAM	8	7	19.87	19.92	19.83	21	2.3					
1.4	HQAM	8	7	19.72	19.91	19.82	21	2.3					
1.4	HQAM	15	0	20.88	20.95	20.82	19	4.3					
1.4	HQAM	1	8	17.68	17.75	17.65	1						



Band 38 Ant1 DSI2 Simultaneous														
BW [MHz]	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	17.81	17.85	17.63	18.8	0						
20	QPSK	1	49	17.39	17.62	17.61								
20	QPSK	1	99	17.72	17.76	17.57								
20	QPSK	50	0	17.47	17.73	17.53								
20	QPSK	50	24	17.52	17.45	17.53								
20	QPSK	50	50	17.56	17.49	17.44								
20	QPSK	100	0	17.37	17.61	17.27	18.8	0						
20	16QAM	1	0	17.45	17.72	17.86								
20	16QAM	1	49	17.77	17.39	17.76								
20	16QAM	1	99	17.45	17.51	17.43								
20	16QAM	50	0	17.64	17.51	17.57								
20	16QAM	50	24	17.26	17.41	17.38								
20	16QAM	50	50	17.57	17.73	17.50	18.8	0						
20	16QAM	100	0	17.41	17.72	17.37								
20	84QAM	1	0	17.56	17.75	17.67								
20	84QAM	1	49	17.37	17.62	17.56								
20	84QAM	1	99	17.56	17.52	17.41								
20	84QAM	50	0	17.44	17.53	17.51								
20	84QAM	50	24	17.25	17.20	17.20	18.8	0						
20	84QAM	50	50	17.45	17.39	17.29								
20	84QAM	100	0	17.15	17.30	17.33								
20	256QAM	1	0	17.08	17.14	17.18								
20	256QAM	1	49	17.01	17.12	17.06								
20	256QAM	1	99	17.09	17.15	17.04								
20	256QAM	50	0	17.16	17.26	17.15	18.8	0						
20	256QAM	50	24	17.08	17.05	17.07								
20	256QAM	50	50	17.12	16.99	17.08								
20	256QAM	100	0	17.18	17.25	17.14								
Channel				37825	38000	38175								
Frequency (MHz)				2577.5	2595	2612.5								
15	QPSK	1	0	17.70	17.82	17.55	18.8	0						
15	QPSK	1	37	17.51	17.58	17.51								
15	QPSK	1	74	17.53	17.60	17.60								
15	QPSK	36	0	17.42	17.57	17.42								
15	QPSK	36	20	17.41	17.36	17.39								
15	QPSK	36	39	17.39	17.29	17.35			18.8	0				
15	QPSK	75	0	17.30	17.52	17.22								
15	16QAM	1	0	17.31	17.52	17.59								
15	16QAM	1	37	17.63	17.32	17.64								
15	16QAM	1	74	17.28	17.30	17.30								
15	16QAM	36	0	17.62	17.41	17.38	18.8	0						
15	16QAM	36	20	17.22	17.33	17.33								
15	16QAM	36	39	17.47	17.62	17.42								
15	16QAM	75	0	17.42	17.62	17.35								
15	84QAM	1	0	17.45	17.52	17.71								
15	84QAM	1	37	17.25	17.51	17.53			18.8	0				
15	84QAM	1	74	17.54	17.38	17.40								
15	84QAM	36	0	17.30	17.39	17.47								
15	84QAM	36	20	17.20	17.22	17.17								
15	84QAM	36	39	17.30	17.32	17.17	18.8	0						
15	84QAM	75	0	17.15	17.14	17.22								
15	256QAM	1	0	16.99	17.13	17.04								
15	256QAM	1	37	16.93	17.08	16.98								
15	256QAM	1	74	16.94	17.06	16.90								
15	256QAM	36	0	17.02	17.16	17.04			18.8	0				
15	256QAM	36	20	16.95	16.98	16.92								
15	256QAM	36	39	16.97	16.94	16.94								
15	256QAM	75	0	17.00	17.08	17.06								
Channel				37800	38000	38200								
Frequency (MHz)				2575	2595	2615								
10	QPSK	1	0	17.71	17.79	17.50	18.8	0						
10	QPSK	1	25	17.33	17.58	17.50								
10	QPSK	1	49	17.53	17.57	17.53								
10	QPSK	25	0	17.32	17.53	17.49								
10	QPSK	25	12	17.39	17.35	17.40								
10	QPSK	25	25	17.43	17.35	17.33			18.8	0				
10	QPSK	50	0	17.24	17.49	17.15								
10	16QAM	1	0	17.33	17.54	17.63								
10	16QAM	1	25	17.65	17.31	17.58								
10	16QAM	1	49	17.33	17.30	17.32								
10	16QAM	25	0	17.66	17.33	17.45	18.8	0						
10	16QAM	25	12	17.21	17.34	17.34								
10	16QAM	25	25	17.45	17.54	17.37								
10	16QAM	50	0	17.36	17.66	17.36								
10	84QAM	1	0	17.45	17.61	17.60								
10	84QAM	1	25	17.33	17.51	17.49			18.8	0				
10	84QAM	1	49	17.50	17.42	17.37								
10	84QAM	25	0	17.31	17.41	17.48								
10	84QAM	25	12	17.20	17.16	17.13								
10	84QAM	25	25	17.38	17.23	17.19	18.8	0						
10	84QAM	50	0	17.16	17.19	17.20								
10	256QAM	1	0	17.00	17.10	17.01								
10	256QAM	1	25	16.94	17.08	16.95								
10	256QAM	1	49	17.05	17.07	16.93								
10	256QAM	25	0	17.06	17.18	17.14			18.8	0				
10	256QAM	25	12	16.95	17.00	16.81								
10	256QAM	25	25	17.03	16.94	16.95								
10	256QAM	50	0	17.04	17.11	17.11								
Channel				37775	38000	38225								
Frequency (MHz)				2572.5	2595	2617.5								
5	QPSK	1	0	17.70	17.72	17.55	18.8	0						
5	QPSK	1	12	17.39	17.57	17.41								
5	QPSK	1	24	17.63	17.58	17.58								
5	QPSK	12	0	17.32	17.53	17.37								
5	QPSK	12	7	17.41	17.33	17.39								
5	QPSK	12	13	17.45	17.27	17.34			18.8	0				
5	QPSK	25	0	17.24	17.48	17.21								
5	16QAM	1	0	17.32	17.56	17.62								
5	16QAM	1	12	17.68	17.29	17.56								
5	16QAM	1	24	17.24	17.35	17.30								
5	16QAM	12	0	17.66	17.36	17.47	18.8	0						
5	16QAM	12	7	17.25	17.32	17.38								
5	16QAM	12	13	17.50	17.53	17.46								
5	16QAM	25	0	17.43	17.59	17.35								
5	84QAM	1	0	17.44	17.62	17.66								
5	84QAM	1	12	17.32	17.52	17.45			18.8	0				
5	84QAM	1	24	17.49	17.48	17.42								
5	84QAM	12	0	17.24	17.31	17.46								
5	84QAM	12	7	17.26	17.21	17.10								
5	84QAM	12	13	17.29	17.32	17.18	18.8	0						
5	84QAM	25	0	17.13	17.18	17.22								
5	256QAM	1	0	17.00	17.04	16.97								
5	256QAM	1	12	17.00	17.06	16.97								
5	256QAM	1	24	16.96	17.06	16.92								
5	256QAM	12	0	17.01	17.12	17.14			18.8	0				
5	256QAM	12	7	16.95	17.00	16.83								
5	256QAM	12	13	17.06	16.94	17.01								
5	256QAM	25	0	17.10	17.08	17.05								

Band 41 Ant1 DSI2 Simultaneous															
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High 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	17.83	17.94	17.94	17.75	17.72	18.8	0					
20	QPSK	1	49	17.62	17.54	17.77	17.70	17.60							
20	QPSK	1	99	17.75	17.77	17.84	17.71	17.85							
20	QPSK	50	0	17.82	17.61	17.83	17.59	17.66							
20	QPSK	50	24	17.59	17.64	17.58	17.60	17.50							
20	QPSK	50	50	17.68	17.63	17.57	17.52	17.62			18.8	0			
20	QPSK	100	0	17.34	17.44	17.73	17.38	17.65							
20	16QAM	1	0	17.56	17.54	17.81	17.90	17.89							
20	16QAM	1	49	17.55	17.84	17.55	17.84	17.61							
20	16QAM	1	99	17.78	17.53	17.59	17.53	17.77							
20	16QAM	50	0	17.58	17.78	17.62	17.68	17.63	18.8	0					
20	16QAM	50	24	17.64	17.40	17.56	17.51	17.53							
20	16QAM	50	50	17.51	17.65	17.80	17.62	17.64							
20	16QAM	100	0	17.51	17.55	17.84	17.52	17.66							
20	84QAM	1	0	17.64	17.66	17.82	17.81	17.77							
20	84QAM	1	49	17.42	17.44	17.70	17.64	17.60			18.8	0			
20	84QAM	1	99	17.66	17.67	17.58	17.55	17.57							
20	84QAM	50	0	17.56	17.48	17.60	17.63	17.78							
20	84QAM	50	24	17.56	17.40	17.35	17.35	17.52							
20	84QAM	50	50	17.45	17.52	17.44	17.34	17.35	18.8	0					
20	84QAM	100	0	17.33	17.28	17.38	17.39	17.62							
20	256QAM	1	0	17.19	17.22	17.30	17.22	17.22							
20	256QAM	1	49	17.05	17.14	17.21	17.18	17.10			18.8	0			
20	256QAM	1	99	17.06	17.14	17.20	17.10	17.12							
20	256QAM	50	0	17.12	17.28	17.32	17.25	17.21							
20	256QAM	50	24	17.13	17.18	17.18	17.12	17.15	18.8	0					
20	256QAM	50	50	17.10	17.16	17.13	17.14	17.16							
20	256QAM	100	0	17.13	17.25	17.33	17.24	17.23							
Channel				39726	40173	40620	41068	41515							
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5							
15	QPSK	1	0	17.40	17.72	17.84	17.75	17.49			18.80				

Band 42 Part 27Q Ant2 DSI2 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	18.21	18.30	17.90	19.6	0	
20	QPSK	1	49	17.98	18.28	17.98			
20	QPSK	1	99	18.11	18.21	18.04			
20	QPSK	50	0	18.07	18.21	17.80	19.6	0	
20	QPSK	50	24	17.88	18.20	17.82			
20	QPSK	50	50	17.97	18.14	17.97			
20	QPSK	100	0	17.99	18.17	17.95	19.6	0	
20	16QAM	1	0	18.05	18.22	17.79			
20	16QAM	1	49	17.90	18.21	17.76			
20	16QAM	1	99	17.99	18.14	17.86	19.6	0	
20	16QAM	50	0	18.00	18.09	17.75			
20	16QAM	50	24	17.86	18.19	17.82			
20	16QAM	50	50	18.01	18.04	17.96	19.6	0	
20	16QAM	100	0	17.92	18.17	17.94			
20	64QAM	1	0	18.08	18.17	17.79			
20	64QAM	1	49	17.81	18.20	17.75	19.6	0	
20	64QAM	1	99	17.88	18.12	17.93			
20	64QAM	50	0	18.05	18.09	18.21			
20	64QAM	50	24	17.98	18.04	18.09	19.6	0	
20	64QAM	50	50	17.98	17.95	17.85			
20	64QAM	100	0	18.00	18.00	18.06			
20	256QAM	1	0	17.50	17.71	17.36	19	0.6	
20	256QAM	1	49	17.37	17.65	17.37			
20	256QAM	1	99	17.43	17.63	17.41			
20	256QAM	50	0	17.59	17.69	17.37	19	0.6	
20	256QAM	50	24	17.40	17.64	17.32			
20	256QAM	50	50	17.38	17.64	17.40			
20	256QAM	100	0	17.51	17.70	17.35			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	18.09	18.15	17.85	19.6	0	
15	QPSK	1	37	17.91	18.19	17.91			
15	QPSK	1	74	17.98	18.10	17.92			
15	QPSK	36	0	17.95	18.09	17.66	19.6	0	
15	QPSK	36	20	17.75	18.15	17.70			
15	QPSK	36	39	17.83	18.06	17.90			
15	QPSK	75	0	17.85	18.12	17.81	19.6	0	
15	16QAM	1	0	17.97	18.11	17.73			
15	16QAM	1	37	17.82	18.13	17.65			
15	16QAM	1	74	17.91	18.09	17.77	19.6	0	
15	16QAM	36	0	17.88	18.03	17.67			
15	16QAM	36	20	17.77	18.04	17.74			
15	16QAM	36	39	17.88	17.94	17.89	19.6	0	
15	16QAM	75	0	17.81	18.11	17.86			
15	64QAM	1	0	17.96	18.04	17.73			
15	64QAM	1	37	17.70	18.07	17.65	19.6	0	
15	64QAM	1	74	17.74	18.02	17.83			
15	64QAM	36	0	17.94	18.02	18.11			
15	64QAM	36	20	17.91	17.90	18.03	19.6	0	
15	64QAM	36	39	17.91	17.82	17.74			
15	64QAM	75	0	17.86	17.94	17.95			
15	256QAM	1	0	17.37	17.61	17.23	19	0.6	
15	256QAM	1	37	17.29	17.50	17.23			
15	256QAM	1	74	17.34	17.52	17.28			
15	256QAM	36	0	17.48	17.60	17.27	19	0.6	
15	256QAM	36	20	17.31	17.56	17.26			
15	256QAM	36	39	17.25	17.52	17.35			
15	256QAM	75	0	17.40	17.58	17.28			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.15	18.19	17.78	19.6	0	
10	QPSK	1	25	17.91	18.17	17.91			
10	QPSK	1	49	18.00	18.13	17.98			
10	QPSK	25	0	18.00	18.09	17.67	19.6	0	
10	QPSK	25	12	17.83	18.15	17.68			
10	QPSK	25	25	17.87	17.99	17.83			
10	QPSK	50	0	17.88	18.07	17.88	19.6	0	
10	16QAM	1	0	17.98	18.11	17.64			
10	16QAM	1	25	17.78	18.09	17.68			
10	16QAM	1	49	17.85	18.05	17.73	19.6	0	
10	16QAM	25	0	17.86	17.96	17.62			
10	16QAM	25	12	17.71	18.08	17.75			
10	16QAM	25	25	17.91	17.92	17.82	19.6	0	
10	16QAM	50	0	17.80	18.07	17.89			
10	64QAM	1	0	17.97	18.04	17.66			
10	64QAM	1	25	17.66	18.07	17.66	19.6	0	
10	64QAM	1	49	17.78	17.97	17.82			
10	64QAM	25	0	17.93	17.94	18.11			
10	64QAM	25	12	17.89	17.95	18.01	19.6	0	
10	64QAM	25	25	17.89	17.84	17.73			
10	64QAM	50	0	17.94	17.87	18.00			
10	256QAM	1	0	17.45	17.57	17.30	19	0.6	
10	256QAM	1	25	17.28	17.56	17.23			
10	256QAM	1	49	17.29	17.57	17.30			
10	256QAM	25	0	17.53	17.63	17.26	19	0.6	
10	256QAM	25	12	17.28	17.57	17.26			
10	256QAM	25	25	17.28	17.49	17.26			
10	256QAM	50	0	17.41	17.62	17.22			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	18.08	18.24	17.79	19.6	0	
5	QPSK	1	12	17.85	18.16	17.89			
5	QPSK	1	24	17.99	18.10	17.93			
5	QPSK	12	0	17.99	18.07	17.74	19.6	0	
5	QPSK	12	7	17.76	18.14	17.75			
5	QPSK	12	13	17.87	18.07	17.88			
5	QPSK	25	0	17.89	18.11	17.86	19.6	0	
5	16QAM	1	0	17.93	18.12	17.69			
5	16QAM	1	12	17.85	18.07	17.65			
5	16QAM	1	24	17.91	18.04	17.81	19.6	0	
5	16QAM	12	0	17.88	17.98	17.65			
5	16QAM	12	7	17.73	18.08	17.71			
5	16QAM	12	13	17.95	17.90	17.83	19.6	0	
5	16QAM	25	0	17.85	18.03	17.85			
5	64QAM	1	0	17.99	18.06	17.67			
5	64QAM	1	12	17.75	18.08	17.62	19.6	0	
5	64QAM	1	24	17.80	18.05	17.79			
5	64QAM	12	0	17.91	18.02	18.06			
5	64QAM	12	7	17.87	17.97	18.03	19.6	0	
5	64QAM	12	13	17.84	17.89	17.77			
5	64QAM	25	0	17.94	17.89	17.95			
5	256QAM	1	0	17.41	17.60	17.31	19	0.6	
5	256QAM	1	12	17.31	17.51	17.28			
5	256QAM	1	24	17.38	17.55	17.31			
5	256QAM	12	0	17.49	17.54	17.24	19	0.6	
5	256QAM	12	7	17.28	17.49	17.18			
5	256QAM	12	13	17.27	17.55	17.31			
5	256QAM	25	0	17.45	17.59	17.27			



Band 7 Ant5 DSI2 Simultaneous

BW [MHz]	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)				2510	2535	2560		
20	QPSK	1	0	22.45	22.72	22.62	24	0
20	QPSK	1	49	22.31	22.62	22.53		
20	QPSK	1	99	22.27	22.58	22.47		
20	QPSK	50	0	21.67	21.92	21.62	23	1
20	QPSK	50	24	21.54	21.78	21.56		
20	QPSK	50	50	21.59	21.81	21.53		
20	QPSK	100	0	21.63	21.82	21.75	23	1
20	16QAM	1	0	22.01	22.27	22.16		
20	16QAM	1	49	21.92	22.13	22.09		
20	16QAM	1	99	21.90	22.21	22.03	22	2
20	16QAM	50	0	20.87	20.91	20.66		
20	16QAM	50	24	20.74	20.85	20.52		
20	16QAM	50	50	20.79	20.84	20.56	22	2
20	16QAM	100	0	20.83	20.94	20.91		
20	64QAM	1	0	20.55	20.74	20.48		
20	64QAM	1	49	20.43	20.69	20.36	22	2
20	64QAM	1	99	20.50	20.59	20.33		
20	64QAM	50	0	19.75	19.94	19.68		
20	64QAM	50	24	19.61	19.84	19.55	21	3
20	64QAM	50	50	19.51	19.80	19.50		
20	64QAM	100	0	19.73	19.90	19.86		
20	256QAM	1	0	17.46	17.67	17.65	19	5
20	256QAM	1	49	17.27	17.61	17.52		
20	256QAM	1	99	17.25	17.56	17.44		
20	256QAM	50	0	17.43	17.72	17.67	19	5
20	256QAM	50	24	17.32	17.59	17.49		
20	256QAM	50	50	17.31	17.53	17.50		
20	256QAM	100	0	17.26	17.44	17.35		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.31	22.57	22.51	24	0
15	QPSK	1	37	22.22	22.51	22.47		
15	QPSK	1	74	22.16	22.45	22.40		
15	QPSK	36	0	21.53	21.80	21.55	23	1
15	QPSK	36	20	21.42	21.73	21.46		
15	QPSK	36	39	21.49	21.74	21.43		
15	QPSK	75	0	21.57	21.68	21.61	23	1
15	16QAM	1	0	21.92	22.14	22.06		
15	16QAM	1	37	21.85	22.03	21.97		
15	16QAM	1	74	21.82	22.14	21.90	22	2
15	16QAM	36	0	20.73	20.83	20.54		
15	16QAM	36	20	20.63	20.75	20.42		
15	16QAM	36	39	20.66	20.77	20.46	22	2
15	16QAM	75	0	20.75	20.88	20.80		
15	64QAM	1	0	20.43	20.60	20.40		
15	64QAM	1	37	20.37	20.54	20.27	21	3
15	64QAM	1	74	20.43	20.53	20.26		
15	64QAM	36	0	19.60	19.84	19.54		
15	64QAM	36	20	19.50	19.75	19.45	19	5
15	64QAM	36	39	19.40	19.68	19.39		
15	64QAM	75	0	19.65	19.79	19.71		
15	256QAM	1	0	17.50	17.73	17.66	19	5
15	256QAM	1	37	17.35	17.62	17.55		
15	256QAM	1	74	17.30	17.59	17.50		
15	256QAM	36	0	17.47	17.74	17.67	19	5
15	256QAM	36	20	17.29	17.57	17.58		
15	256QAM	36	39	17.27	17.55	17.48		
15	256QAM	75	0	17.29	17.57	17.46		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.39	22.59	22.53	24	0
10	QPSK	1	25	22.23	22.52	22.47		
10	QPSK	1	49	22.16	22.45	22.37		
10	QPSK	25	0	21.54	21.85	21.55	23	1
10	QPSK	25	12	21.46	21.71	21.49		
10	QPSK	25	25	21.54	21.71	21.40		
10	QPSK	50	0	21.57	21.73	21.63	23	1
10	16QAM	1	0	21.94	22.22	22.08		
10	16QAM	1	25	21.80	21.99	22.02		
10	16QAM	1	49	21.85	22.15	21.89	22	2
10	16QAM	25	0	20.74	20.85	20.54		
10	16QAM	25	12	20.83	20.74	20.39		
10	16QAM	25	25	20.66	20.71	20.50	22	2
10	16QAM	50	0	20.70	20.80	20.79		
10	64QAM	1	0	20.46	20.65	20.42		
10	64QAM	1	25	20.38	20.63	20.29	21	3
10	64QAM	1	49	20.35	20.45	20.27		
10	64QAM	25	0	19.81	19.79	19.54		
10	64QAM	25	12	19.53	19.75	19.45	19	5
10	64QAM	25	25	19.40	19.72	19.38		
10	64QAM	50	0	19.59	19.80	19.75		
10	256QAM	1	0	17.37	17.63	17.50	19	5
10	256QAM	1	25	17.21	17.53	17.47		
10	256QAM	1	49	17.14	17.42	17.37		
10	256QAM	25	0	17.42	17.57	17.52	19	5
10	256QAM	25	12	17.27	17.51	17.47		
10	256QAM	25	25	17.13	17.44	17.34		
10	256QAM	50	0	17.43	17.57	17.49		
Channel				20775	21160	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.30	22.59	22.53	24	0
5	QPSK	1	12	22.17	22.49	22.39		
5	QPSK	1	24	22.20	22.46	22.38		
5	QPSK	12	0	21.54	21.83	21.51	23	1
5	QPSK	12	7	21.42	21.67	21.48		
5	QPSK	12	13	21.53	21.71	21.48		
5	QPSK	25	0	21.57	21.75	21.67	23	1
5	16QAM	1	0	21.89	22.19	22.10		
5	16QAM	1	12	21.85	22.00	22.01		
5	16QAM	1	24	21.81	22.10	21.92	22	2
5	16QAM	12	0	20.78	20.81	20.58		
5	16QAM	12	7	20.65	20.73	20.46		
5	16QAM	12	13	20.66	20.76	20.42	22	2
5	16QAM	25	0	20.78	20.86	20.76		
5	64QAM	1	0	20.49	20.62	20.34		
5	64QAM	1	12	20.33	20.55	20.28	21	3
5	64QAM	1	24	20.38	20.47	20.28		
5	64QAM	12	0	19.67	19.80	19.58		
5	64QAM	12	7	19.48	19.73	19.46	19	5
5	64QAM	12	13	19.40	19.73	19.42		
5	64QAM	25	0	19.61	19.76	19.73		
5	256QAM	1	0	17.52	17.64	17.55	19	5
5	256QAM	1	12	17.37	17.51	17.34		
5	256QAM	1	24	17.20	17.45	17.43		
5	256QAM	12	0	17.29	17.62	17.56	19	5
5	256QAM	12	7	17.16	17.47	17.39		
5	256QAM	12	13	17.18	17.45	17.37		
5	256QAM	25	0	17.25	17.58	17.51		



Band 38 Ant5 DSI2 Simultaneous									
BW [MHz]	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	22.94	22.95	22.93	24	0	
20	QPSK	1	49	22.75	22.87	22.80			
20	QPSK	1	99	22.73	22.85	22.78			
20	QPSK	50	0	21.91	21.94	21.89	23	1	
20	QPSK	50	24	21.81	21.91	21.84			
20	QPSK	50	50	21.77	21.88	21.78			
20	QPSK	100	0	21.82	21.95	21.81	23	1	
20	16QAM	1	0	21.65	21.71	21.62			
20	16QAM	1	49	21.53	21.65	21.59			
20	16QAM	1	99	21.55	21.68	21.61	22	2	
20	16QAM	50	0	20.91	21.00	20.89			
20	16QAM	50	24	20.91	20.98	20.93			
20	16QAM	50	50	20.83	20.95	20.82	22	2	
20	16QAM	100	0	20.79	20.87	20.78			
20	64QAM	1	0	21.10	21.20	21.10			
20	64QAM	1	49	20.98	21.05	20.95	22	2	
20	64QAM	1	99	21.06	21.17	21.02			
20	64QAM	50	0	19.78	19.89	19.75			
20	64QAM	50	24	19.63	19.77	19.62	21	3	
20	64QAM	50	50	19.77	19.86	19.71			
20	64QAM	100	0	19.91	19.98	19.84			
20	256QAM	1	0	17.95	17.90	17.91	19	5	
20	256QAM	1	49	17.71	17.84	17.77			
20	256QAM	1	99	17.78	17.85	17.78			
20	256QAM	50	0	17.90	17.93	17.90	19	5	
20	256QAM	50	24	17.76	17.90	17.81			
20	256QAM	50	50	17.68	17.86	17.77			
20	256QAM	100	0	17.65	17.88	17.73			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.84	22.88	22.83	24	0	
15	QPSK	1	37	22.68	22.77	22.69			
15	QPSK	1	74	22.68	22.77	22.68			
15	QPSK	36	0	21.82	21.83	21.83	23	1	
15	QPSK	36	20	21.72	21.88	21.73			
15	QPSK	36	39	21.65	21.77	21.71			
15	QPSK	75	0	21.75	21.80	21.71	23	1	
15	16QAM	1	0	21.54	21.59	21.56			
15	16QAM	1	37	21.47	21.55	21.51			
15	16QAM	1	74	21.42	21.56	21.48	22	2	
15	16QAM	36	0	20.84	20.94	20.82			
15	16QAM	36	20	20.79	20.83	20.79			
15	16QAM	36	39	20.71	20.84	20.76	22	2	
15	16QAM	75	0	20.64	20.81	20.67			
15	64QAM	1	0	20.99	21.09	21.00			
15	64QAM	1	37	20.85	20.95	20.82	22	2	
15	64QAM	1	74	20.96	21.07	20.93			
15	64QAM	36	0	19.70	19.80	19.69			
15	64QAM	36	20	19.57	19.62	19.54	21	3	
15	64QAM	36	39	19.70	19.80	19.58			
15	64QAM	75	0	19.76	19.92	19.70			
15	256QAM	1	0	17.87	17.78	17.83	19	5	
15	256QAM	1	37	17.62	17.78	17.67			
15	256QAM	1	74	17.71	17.80	17.67			
15	256QAM	36	0	17.76	17.80	17.76	19	5	
15	256QAM	36	20	17.67	17.84	17.70			
15	256QAM	36	39	17.54	17.72	17.72			
15	256QAM	75	0	17.51	17.82	17.62			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.86	22.87	22.82	24	0	
10	QPSK	1	25	22.61	22.75	22.68			
10	QPSK	1	49	22.60	22.75	22.64			
10	QPSK	25	0	21.85	21.77	21.78	23	1	
10	QPSK	25	12	21.74	21.87	21.73			
10	QPSK	25	25	21.65	21.73	21.70			
10	QPSK	50	0	21.75	21.83	21.73	23	1	
10	16QAM	1	0	21.53	21.61	21.56			
10	16QAM	1	25	21.39	21.59	21.52			
10	16QAM	1	49	21.47	21.56	21.46	22	2	
10	16QAM	25	0	20.77	20.88	20.83			
10	16QAM	25	12	20.85	20.89	20.84			
10	16QAM	25	25	20.77	20.82	20.75	22	2	
10	16QAM	50	0	20.69	20.75	20.63			
10	64QAM	1	0	21.02	21.08	21.05			
10	64QAM	1	25	20.91	20.94	20.85	22	2	
10	64QAM	1	49	20.92	21.08	20.93			
10	64QAM	25	0	19.69	19.75	19.63			
10	64QAM	25	12	19.48	19.70	19.54	21	3	
10	64QAM	25	25	19.63	19.78	19.58			
10	64QAM	50	0	19.84	19.92	19.78			
10	256QAM	1	0	17.90	17.81	17.83	19	5	
10	256QAM	1	25	17.63	17.72	17.70			
10	256QAM	1	49	17.73	17.76	17.72			
10	256QAM	25	0	17.82	17.82	17.79	19	5	
10	256QAM	25	12	17.70	17.83	17.74			
10	256QAM	25	25	17.54	17.79	17.70			
10	256QAM	50	0	17.51	17.83	17.66			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.80	22.87	22.81	24	0	
5	QPSK	1	12	22.66	22.78	22.69			
5	QPSK	1	24	22.61	22.76	22.65			
5	QPSK	12	0	21.84	21.76	21.76	23	1	
5	QPSK	12	7	21.71	21.85	21.70			
5	QPSK	12	13	21.66	21.73	21.65			
5	QPSK	25	0	21.73	21.82	21.71	23	1	
5	16QAM	1	0	21.55	21.56	21.51			
5	16QAM	1	12	21.41	21.55	21.46			
5	16QAM	1	24	21.46	21.62	21.50	22	2	
5	16QAM	12	0	20.81	20.93	20.77			
5	16QAM	12	7	20.79	20.92	20.85			
5	16QAM	12	13	20.75	20.87	20.74	22	2	
5	16QAM	25	0	20.70	20.77	20.69			
5	64QAM	1	0	20.98	21.06	21.04			
5	64QAM	1	12	20.92	20.93	20.86	22	2	
5	64QAM	1	24	20.92	21.05	20.89			
5	64QAM	12	0	19.68	19.75	19.68			
5	64QAM	12	7	19.50	19.69	19.52	21	3	
5	64QAM	12	13	19.69	19.76	19.56			
5	64QAM	25	0	19.84	19.91	19.69			
5	256QAM	1	0	17.89	17.79	17.85	19	5	
5	256QAM	1	12	17.59	17.70	17.70			
5	256QAM	1	24	17.67	17.79	17.70			
5	256QAM	12	0	17.80	17.83	17.77	19	5	
5	256QAM	12	7	17.64	17.82	17.70			
5	256QAM	12	13	17.57	17.81	17.70			
5	256QAM	25	0	17.53	17.78	17.64			



Reduced Power Mode for DS13 Stalonde

GSM850 And DS3 Stalonde									
GSM850	Serial Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power (dBm)			Turn-up Limit (dBm)	
	198	199	201		198	199	201		
TX Channel	198	199	201	198	199	201	198	199	201
Frequency (MHz)	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
GSM-TX Mod	31.89	31.91	31.78	32.90	22.69	22.91	22.78	23.09	23.09
GPRS-TX Mod	31.86	31.96	31.95	32.90	22.80	22.95	22.95	23.00	23.00
GPRS-TX Mod	29.79	29.81	29.89	29.90	22.79	22.91	22.88	23.00	23.00
GPRS-TX Mod	27.11	27.30	27.29	28.10	22.85	23.04	23.03	23.84	23.84
GPRS-TX Mod	26.00	26.23	26.18	26.90	22.90	23.21	23.10	23.80	23.80
EDGE-TX Mod	26.14	26.24	26.17	27.00	17.14	17.24	17.17	18.00	18.00
EDGE-TX Mod	24.84	24.74	24.80	25.60	16.84	16.74	16.80	17.60	17.60
EDGE-TX Mod	22.50	22.79	22.91	24.00	16.68	16.50	16.65	16.74	16.74
EDGE-TX Mod	20.81	20.78	20.47	22.00	17.81	17.76	17.47	18.00	18.00

GSM1900 And DS3 Stalonde									
GSM1900	Serial Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power (dBm)			Turn-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	512 <td>661 <td>810 <td>512 <td>661 <td>810 <td>512 <td>661 <td>810 </td></td></td></td></td></td></td></td>	661 <td>810 <td>512 <td>661 <td>810 <td>512 <td>661 <td>810 </td></td></td></td></td></td></td>	810 <td>512 <td>661 <td>810 <td>512 <td>661 <td>810 </td></td></td></td></td></td>	512 <td>661 <td>810 <td>512 <td>661 <td>810 </td></td></td></td></td>	661 <td>810 <td>512 <td>661 <td>810 </td></td></td></td>	810 <td>512 <td>661 <td>810 </td></td></td>	512 <td>661 <td>810 </td></td>	661 <td>810 </td>	810
Frequency (MHz)	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2
GSM-TX Mod	28.41	28.22	28.36	28.80	19.41	19.22	19.30	19.60	19.60
GPRS-TX Mod	28.24	28.27	28.20	28.80	19.24	19.21	19.20	19.60	19.60
GPRS-TX Mod	24.51	24.65	24.54	25.55	15.43	15.45	15.24	16.20	16.20
GPRS-TX Mod	22.48	22.47	22.43	24.00	18.14	18.21	18.17	19.74	19.74
GPRS-TX Mod	21.00	21.05	21.05	22.80	18.40	18.43	18.40	19.60	19.60
EDGE-TX Mod	25.42	25.70	25.31	27.00	16.42	16.70	16.31	18.00	18.00
EDGE-TX Mod	24.16	24.24	24.54	25.55	16.16	16.24	16.54	17.60	17.60
EDGE-TX Mod	22.12	22.08	21.67	23.50	17.66	17.50	17.41	18.24	18.24
EDGE-TX Mod	19.93	20.00	19.96	21.50	18.93	17.00	16.96	18.50	18.50

Band	WCDMA V			WCDMA IV			WCDMA V And DS3 Stalonde						
	5962	8400	9598	1912	1413	1413	4150	4160	4233				
TX Channel	5962	8400	9598	1912	1413	1413	4150	4160	4233				
Frequency (MHz)	1952.4	1880	1997.8	1712.4	1752.6	1752.6	846.4	856.4	846.4				
HSPD Rel 6	AMR 12.2Kbps	17.31	17.39	17.11	18.90	16.38	16.52	16.45	18.00	22.29	22.47	22.48	23.50
HSPD Rel 6	AMR 12.2Kbps	17.44	17.50	17.31	18.90	16.51	16.61	16.56	18.00	22.44	22.68	22.63	23.50
HSPD Rel 8	HSPA Release-1	16.40	16.49	16.31	17.90	15.23	15.34	15.23	17.00	21.25	21.44	21.20	22.50
HSPD Rel 8	HSPA Release-2	16.21	16.47	16.44	17.00	15.20	15.42	15.34	17.00	21.25	21.44	21.54	22.50
HSPD Rel 8	HSPA Release-3	16.03	16.23	16.03	17.40	15.08	15.15	15.00	18.50	20.89	20.85	20.94	22.00
HSPD Rel 8	HSPA Release-4	15.86	15.92	16.00	17.40	15.04	15.24	15.00	18.50	20.90	20.96	21.07	22.00
HSPD Rel 8	DC-HSPA Release-1	16.40	16.54	16.31	17.90	15.33	15.41	15.12	17.00	21.33	21.38	21.12	22.50
HSPD Rel 8	DC-HSPA Release-2	16.27	16.56	16.38	17.90	15.24	15.38	15.24	17.00	22.22	21.49	21.25	22.50
HSPD Rel 8	DC-HSPA Release-3	16.01	16.06	15.96	17.40	15.06	15.01	15.21	18.00	20.82	21.00	20.93	22.00
HSPD Rel 8	DC-HSPA Release-4	15.87	16.05	16.05	17.40	15.07	15.22	15.00	20.81	20.98	20.92	22.00	
HSPD Rel 8	HSPA Release-1	16.20	16.23	16.31	17.00	15.22	15.22	15.00	17.00	21.23	21.43	21.26	22.00
HSPD Rel 8	HSPA Release-2	14.52	14.54	14.43	15.00	13.93	14.01	14.02	15.00	19.39	19.44	19.44	20.50
HSPD Rel 8	HSPA Release-3	15.44	15.48	15.32	16.00	14.90	14.90	14.78	16.00	20.31	20.40	20.29	21.50
HSPD Rel 8	HSPA Release-4	14.47	14.46	14.33	15.90	13.84	13.90	13.82	15.00	19.27	19.37	19.24	20.50
HSPD Rel 8	HSPA Release-5	16.40	16.41	16.55	17.90	15.52	15.20	15.45	17.00	21.39	21.39	21.48	22.50
HSPD Rel 8	HSPA Release-6	13.97	14.05	13.90	14.40	13.05	13.03	12.94	14.00	16.83	16.97	16.75	20.00



Band 2 Ant0 DS13 Standalone														
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Turn-up (dB)	MPE (dB)						
Channel														
	Frequency (MHz)			1860	1880	1900								
20	QPSK	1	0	17.56	17.73	17.62								
20	QPSK	1	49	17.56	17.73	17.62	18.3	0						
20	QPSK	1	99	17.56	17.73	17.62								
20	QPSK	50	0	17.47	17.68	17.58								
20	QPSK	50	24	17.47	17.68	17.58								
20	QPSK	50	50	17.47	17.68	17.58	18.3	0						
20	QPSK	100	0	17.52	17.55	17.20								
20	QPSK	100	0	17.49	17.57	17.48								
20	HQAM	1	49	17.40	17.62	17.49	18.3	0						
20	HQAM	1	99	17.55	17.57	17.20								
20	HQAM	5	0	17.37	17.47	17.69								
20	HQAM	50	24	17.32	17.40	17.29	18.3	0						
20	HQAM	50	50	17.36	17.34	17.48								
20	HQAM	100	0	17.37	17.38	17.66								
20	HQAM	1	0	17.44	17.39	17.36								
20	HQAM	1	49	17.23	17.36	17.34	18.3	0						
20	HQAM	50	0	17.37	17.45	17.54								
20	HQAM	50	0	17.37	17.35	17.54								
20	HQAM	50	24	17.24	17.38	17.20	18.3	0						
20	HQAM	100	0	17.43	17.25	17.40								
20	HQAM	100	0	17.37	17.39	17.39								
20	HQAM	1	49	17.22	17.28	17.32	18.3	0						
20	HQAM	1	99	17.16	17.35	17.26								
20	HQAM	50	24	17.23	17.28	17.44								
20	HQAM	50	24	17.15	17.20	17.21	18.3	0						
20	HQAM	100	0	17.11	17.19	17.21								
20	HQAM	100	0	17.13	17.17	17.17								
Channel														
	Frequency (MHz)			1867.5	1880	1912.5	Turn-up (dB)	MPE (dB)						
15	QPSK	1	0	17.68	17.71	17.55								
15	QPSK	1	37	17.68	17.62	17.62	18.3	0						
15	QPSK	1	74	17.68	17.54	17.62								
15	QPSK	36	0	17.39	17.39	17.58								
15	QPSK	36	39	17.38	17.31	17.42	18.3	0						
15	QPSK	36	39	17.39	17.36	17.40								
15	QPSK	75	0	17.46	17.40	17.45								
15	QPSK	75	0	17.51	17.33	17.54								
15	HQAM	1	37	17.25	17.43	17.38	18.3	0						
15	HQAM	1	74	17.41	17.46	17.40								
15	HQAM	5	0	17.34	17.42	17.56								
15	HQAM	36	20	17.23	17.42	17.34	18.3	0						
15	HQAM	36	39	17.38	17.39	17.50								
15	HQAM	75	0	17.42	17.25	17.37								
15	HQAM	1	0	17.38	17.29	17.45								
15	HQAM	37	0	17.43	17.46	17.57	18.3	0						
15	HQAM	74	0	17.43	17.46	17.34								
15	HQAM	36	0	17.23	17.31	17.55								
15	HQAM	36	39	17.35	17.32	17.25	18.3	0						
15	HQAM	75	0	17.46	17.27	17.28								
15	HQAM	75	0	17.38	17.38	17.48								
15	HQAM	1	37	17.16	17.17	17.22	18.3	0						
15	HQAM	1	74	17.08	17.30	17.14								
15	HQAM	36	20	17.02	17.12	17.14	18.3	0						
15	HQAM	36	39	17.03	17.03	17.16								
15	HQAM	75	0	17.11	17.06	17.07								
Channel														
	Frequency (MHz)			1865	1880	1910	Turn-up (dB)	MPE (dB)						
10	QPSK	1	0	17.60	17.70	17.60								
10	QPSK	1	25	17.46	17.49	17.47	18.3	0						
10	QPSK	1	49	17.61	17.41	17.60								
10	QPSK	25	0	17.65	17.56	17.56								
10	QPSK	25	12	17.33	17.32	17.36	18.3	0						
10	QPSK	25	25	17.49	17.47	17.54								
10	QPSK	50	0	17.43	17.38	17.37								
10	QPSK	50	0	17.49	17.47	17.52								
10	HQAM	1	25	17.37	17.51	17.40	18.3	0						
10	HQAM	5	0	17.28	17.48	17.37								
10	HQAM	25	0	17.23	17.44	17.58								
10	HQAM	25	12	17.26	17.45	17.27	18.3	0						
10	HQAM	50	0	17.45	17.34	17.43								
10	HQAM	50	0	17.39	17.37	17.42								
10	HQAM	25	25	17.18	17.38	17.37	18.3	0						
10	HQAM	1	49	17.38	17.48	17.35								
10	HQAM	25	0	17.33	17.30	17.59								
10	HQAM	25	12	17.24	17.34	17.37	18.3	0						
10	HQAM	25	25	17.29	17.14	17.37								
10	HQAM	50	0	17.43	17.22	17.40								
10	HQAM	50	0	17.38	17.38	17.38								
10	HQAM	1	49	17.14	17.16	17.18	18.3	0						
10	HQAM	1	99	17.11	17.21	17.13								
10	HQAM	50	0	17.22	17.26	17.25								
10	HQAM	50	12	17.07	17.08	17.18	18.3	0						
10	HQAM	25	25	17.09	17.08	17.06								
10	HQAM	50	0	17.11	17.17	17.02								
Channel														
	Frequency (MHz)			1862.5	1880	1917.5	Turn-up (dB)	MPE (dB)						
5	QPSK	1	0	17.62	17.58	17.74								
5	QPSK	1	12	17.47	17.59	17.44	18.3	0						
5	QPSK	1	24	17.63	17.46	17.55								
5	QPSK	12	0	17.47	17.56	17.56								
5	QPSK	12	7	17.29	17.54	17.52	18.3	0						
5	QPSK	12	13	17.40	17.45	17.54								
5	QPSK	25	0	17.43	17.46	17.57								
5	HQAM	1	0	17.47	17.45	17.42								
5	HQAM	1	12	17.30	17.36	17.38	18.3	0						
5	HQAM	5	0	17.22	17.38	17.42								
5	HQAM	12	0	17.24	17.36	17.58								
5	HQAM	12	7	17.29	17.49	17.23	18.3	0						
5	HQAM	12	13	17.20	17.40	17.29								
5	HQAM	25	0	17.45	17.20	17.34								
5	HQAM	1	0	17.38	17.37	17.20								
5	HQAM	12	13	17.23	17.48	17.45	18.3	0						
5	HQAM	1	24	17.38	17.38	17.40								
5	HQAM	12	0	17.26	17.38	17.60								
5	HQAM	12	7	17.19	17.37	17.52	18.3	0						
5	HQAM	12	13	17.37	17.24	17.38								
5	HQAM	25	0	17.48	17.28	17.34								
5	HQAM	1	0	17.31	17.39	17.34								
5	HQAM	1	12	17.09	17.19	17.25	18.3	0						
5	HQAM	1	24	17.11	17.23	17.19								
5	HQAM	12	0	17.25	17.18	17.17								
5	HQAM	12	7	17.00	17.06	17.06	18.3	0						
5	HQAM	12	13	17.01	17.09	17.15								
5	HQAM	25	0	17.02	17.18	17.07								
Channel														
	Frequency (MHz)			1861.5	1880	1918.5	Turn-up (dB)	MPE (dB)						
3	QPSK	1	0	17.64	17.66	17.55								
3	QPSK	1	8	17.43	17.55	17.51	18.3	0						
3	QPSK	1	14	17.51	17.43	17.57								
3	QPSK	3	0	17.41	17.62	17.57								
3	QPSK	8	4	17.25	17.48	17.38	18.3	0						
3	QPSK	8	7	17.41	17.35	17.48								
3	HQAM	1	0	17.43	17.48	17.27								
3	HQAM	1	8	17.45	17.48	17.47								
3	HQAM	1	14	17.33	17.36	17.34	18.3	0						
3	HQAM	3	0	17.23	17.39	17.44								
3	HQAM	8	4	17.20	17.40	17.20	18.3	0						
3	HQAM	8	7	17.27	17.40	17.29								
3	HQAM	15	0	17.41	17.22	17.37								
3	HQAM	1	0	17.39	17.34	17.34								
3	HQAM	1	8	17.14	17.48	17.37	18.3	0						
3	HQAM	1	14	17.47	17.39	17.41								
3	HQAM	3	0	17.31	17.37	17.48								
3	HQAM	8	4	17.18	17.41	17.48								
3	HQAM	8	7	17.34	17.25	17.32	18.3	0						
3	HQAM	15	0	17.34	17.32	17.33								
3	HQAM	1	8	17.14	17.14	17.21	18.3	0						



Band 12 Ant0 DS13 Standalone												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MPE (dB)				
Channel												
	Frequency (MHz)	704	707.5	711								
10	QPSK	1	0	22.67	22.71	22.60						
10	QPSK	1	25	22.57	22.59	22.49						
10	QPSK	1	49	22.34	22.37	22.55	24	0				
10	QPSK	25	0	21.63	21.79	21.66						
10	QPSK	25	12	21.41	21.47	21.73						
10	QPSK	25	25	21.46	21.60	21.58	23	1				
10	QPSK	50	0	21.53	21.55	21.32						
10	HQAM	1	0	21.69	21.69	21.73						
10	HQAM	1	25	21.70	21.79	21.71	23	1				
10	HQAM	1	49	21.62	21.76	21.69						
10	HQAM	25	0	20.89	20.95	20.73						
10	HQAM	25	12	20.72	20.78	20.54	22	2				
10	HQAM	25	25	20.74	20.79	20.61						
10	HQAM	50	0	20.54	20.56	20.53						
10	HQAM	1	0	20.70	20.69	20.55						
10	HQAM	1	25	20.57	20.67	20.54	22	2				
10	HQAM	1	49	20.62	20.59	20.68						
10	HQAM	25	0	19.62	19.59	19.25						
10	HQAM	25	12	19.52	19.63	19.26						
10	HQAM	25	25	19.58	19.43	19.43	21	3				
10	HQAM	50	0	19.53	19.59	19.45						
10	SSBQAM	1	0	17.69	17.77	17.58						
10	SSBQAM	1	25	17.69	17.77	17.58	19	5				
10	SSBQAM	1	49	17.68	17.79	17.42						
10	SSBQAM	25	0	17.55	17.55	17.52						
10	SSBQAM	25	12	17.55	17.69	17.59	19	5				
10	SSBQAM	25	25	17.63	17.79	17.57						
10	SSBQAM	50	0	17.60	17.62	17.40						
Channel												
	Frequency (MHz)	701.5	707.5	713.5								
5	QPSK	1	0	22.67	22.68	22.44						
5	QPSK	1	12	22.09	22.39	22.41	24	0				
5	QPSK	1	24	22.39	22.55	22.42						
5	QPSK	12	0	21.51	21.68	21.51						
5	QPSK	12	7	21.04	21.42	21.61	23	1				
5	QPSK	12	13	21.33	21.53	21.46						
5	QPSK	25	0	21.45	21.97	21.26						
5	HQAM	1	0	21.55	21.71	21.69						
5	HQAM	1	12	21.57	21.66	21.67	23	1				
5	HQAM	1	24	21.62	21.69	21.63						
5	HQAM	12	0	20.78	20.90	20.63						
5	HQAM	12	7	20.70	20.71	20.47	22	2				
5	HQAM	12	13	20.69	20.68	20.46						
5	HQAM	25	0	20.40	20.63	20.59						
5	HQAM	1	0	20.58	20.60	20.52	22	2				
5	HQAM	1	12	20.45	20.69	20.48						
5	HQAM	1	24	20.59	20.56	20.53						
5	HQAM	12	0	19.52	19.43	19.37						
5	HQAM	12	7	19.48	19.55	19.23						
5	HQAM	12	13	19.51	19.64	19.35	21	3				
5	HQAM	25	0	19.45	19.45	19.36						
5	SSBQAM	1	0	17.65	17.66	17.43						
5	SSBQAM	1	12	17.63	17.74	17.52	19	5				
5	SSBQAM	1	24	17.51	17.63	17.26						
5	SSBQAM	12	0	17.62	17.63	17.49						
5	SSBQAM	12	7	17.51	17.62	17.49	19	5				
5	SSBQAM	12	13	17.60	17.69	17.50						
5	SSBQAM	25	0	17.61	17.58	17.27						
Channel												
	Frequency (MHz)	706.5	707.5	714.5								
3	QPSK	1	0	22.34	22.39	22.44						
3	QPSK	1	8	22.39	22.63	22.42	24	0				
3	QPSK	1	14	22.37	22.63	22.48						
3	QPSK	8	0	21.49	21.66	21.47						
3	QPSK	8	4	21.29	21.30	21.67	23	1				
3	QPSK	8	7	21.43	21.45	21.48						
3	HQAM	1	0	21.59	21.69	21.68						
3	HQAM	1	8	21.52	21.71	21.68	23	1				
3	HQAM	1	14	21.46	21.60	21.52						
3	HQAM	8	0	20.73	20.94	20.68						
3	HQAM	8	4	20.57	20.68	20.60	22	2				
3	HQAM	8	7	20.63	20.71	20.51						
3	HQAM	15	0	20.40	20.58	20.45						
3	HQAM	1	0	20.55	20.58	20.48						
3	HQAM	8	8	20.51	20.52	20.50	22	2				
3	HQAM	8	14	20.45	20.44	20.54						
3	HQAM	8	0	19.52	19.46	19.46						
3	HQAM	8	4	19.46	19.45	19.52						
3	HQAM	8	7	19.55	19.52	19.29	21	3				
3	HQAM	15	0	19.43	19.36	19.30						
3	SSBQAM	1	0	17.65	17.66	17.49						
3	SSBQAM	1	8	17.63	17.63	17.54	19	5				
3	SSBQAM	1	14	17.63	17.61	17.36						
3	SSBQAM	8	0	17.45	17.53	17.60						
3	SSBQAM	8	4	17.50	17.58	17.47	19	5				
3	SSBQAM	8	7	17.46	17.75	17.49						
3	SSBQAM	15	0	17.51	17.58	17.24						
Channel												
	Frequency (MHz)	706.7	707.5	716.3								
1.4	QPSK	1	0	22.34	22.39	22.44						
1.4	QPSK	1	3	22.39	22.48	22.53						
1.4	QPSK	1	5	22.39	22.52	22.35	24	0				
1.4	QPSK	3	0	22.35	22.43	22.42						
1.4	QPSK	3	1	22.36	22.35	22.37						
1.4	QPSK	3	3	22.34	22.48	22.30	23	1				
1.4	HQAM	1	0	21.47	21.70	21.62						
1.4	HQAM	1	0	21.44	21.71	21.60						
1.4	HQAM	1	3	21.37	21.55	21.33	23	1				
1.4	HQAM	3	0	21.41	21.62	21.46						
1.4	HQAM	3	1	21.30	21.54	21.21						
1.4	HQAM	3	1	21.44	21.47	21.38						
1.4	HQAM	6	0	20.45	20.42	20.24	22	2				
1.4	HQAM	1	0	20.58	20.79	20.55						
1.4	HQAM	3	0	20.61	20.48	20.58						
1.4	HQAM	3	1	20.79	20.49	20.52	22	2				
1.4	HQAM	3	3	20.58	20.44	20.45						
1.4	HQAM	6	0	19.52	19.68	19.41	21	3				
1.4	SSBQAM	1	0	17.40	17.45	17.41						
1.4	SSBQAM	1	3	17.27	17.50	17.30						
1.4	SSBQAM	1	5	17.31	17.42	17.26	19	5				
1.4	SSBQAM	3	0	17.29	17.44	17.43						
1.4	SSBQAM	3	1	17.25	17.26	17.31						
1.4	SSBQAM	3	3	17.22	17.17	17.26						
1.4	SSBQAM	6	0	17.44	17.21	17.25	19	5				

Band 13 Ant0 DS13 Standalone												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MPE (dB)				
Channel												
	Frequency (MHz)											
10	QPSK	1	0	22.38								
10	QPSK	1	25	22.34								
10	QPSK	1	49	22.28								
10	QPSK	25	0	21.54								
10	QPSK	25	12	21.48								
10	QPSK	25	25	21.41								
10	QPSK	50	0	21.38								
10	HQAM	1	0	21.78								
10	HQAM	1	25	21.65	23	0.3						
10	HQAM	1	49	21.59								
10	HQAM	25	0	20.57								
10	HQAM	25	12	20.48	22	1.3						
10	HQAM	25	25	20.45								
10	HQAM	50	0	20.36								
10	HQAM	1	0	20.68								
10	HQAM	1	25	20.62	22	1.3						
10	HQAM	1	49	20.57								
10	HQAM	25	0	19.62								
10	HQAM	25	12	19.54								
10	HQAM	25	25	19.53	21	2.3						
10	HQAM	50	0	19.41								
10	SSBQAM	1	0	17.55								
10	SSBQAM	1	25	17.46	19	4.3						
10	SSBQAM	1	49	17.46								
10	SSBQAM	25	0	17.45								
10	SSBQAM	25	12	17.43	19	4.3						
10	SSBQAM	25	25	17.38								
10	SSBQAM	50	0	17.41								
Channel												
	Frequency (MHz)	2320.5	2330	2355	Turn-up limit (dB)	MPE (dB)						
5	QPSK	1	0	22.24	22.29	22.25	23.3	0				
5	QPSK	1	12	22.52	22.36	22.59						
5	QPSK	1	24	22.06	22.19	22.62						
5	QPSK	12	0	21.26	21.46	21.38						
5	QPSK	12	7	21.50	21.41	21.26	23	0.3				
5	QPSK	12	13	21.26	21.37	21.33						
5	QPSK	25	0	21.11	21.30	21.14						
5	HQAM	1	0	21.67	21.72	21.58						
5	HQAM	1	12	21.36	21.49	21.46	23	0.3				
5	HQAM	1										



Band 25 Ant0 DS13 Standalone												
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up time (s)	MPR (dB)				
Channel												
20	QPSK	1	0	17.73	17.73	17.76						
20	QPSK	1	99	17.72	17.64	17.70		18.3				
20	QPSK	50	0	17.61	17.72	17.67						
20	QPSK	50	24	17.65	17.63	17.62						
20	QPSK	50	50	17.68	17.55	17.62		18.3				
20	QPSK	100	0	17.59	17.61	17.64						
20	QPSK	100	0	17.61	17.63	17.62						
20	HQAM	1	49	17.45	17.56	17.54		18.3				
20	HQAM	1	99	17.71	17.60	17.57						
20	HQAM	50	0	17.44	17.46	17.72						
20	HQAM	50	24	17.38	17.57	17.43		18.3				
20	HQAM	50	50	17.50	17.40	17.44						
20	HQAM	100	0	17.54	17.43	17.58						
20	HQAM	1	0	17.51	17.47	17.52						
20	HQAM	1	49	17.53	17.61	17.49		18.3				
20	HQAM	1	99	17.49	17.57	17.54						
20	HQAM	50	0	17.40	17.47	17.58						
20	HQAM	50	24	17.47	17.36	17.43		18.3				
20	HQAM	50	29	17.49	17.48	17.46						
20	HQAM	50	50	17.56	17.36	17.40						
20	HQAM	100	0	17.48	17.56	17.49						
20	HQAM	1	49	17.13	17.25	17.13		18.3				
20	SSBQAM	1	99	17.23	17.18	17.23						
20	SSBQAM	50	0	17.20	17.29	17.27						
20	SSBQAM	50	24	17.12	17.20	17.13		18.3				
20	SSBQAM	50	50	17.26	17.15	17.21						
20	SSBQAM	100	0	17.16	17.21	17.20						
Channel												
26515				26540	26515		Turn-up (s)	MPR (dB)				
15	QPSK	1	0	18.07	18.00	18.07						
15	QPSK	1	99	17.93	17.84	17.80		18.3				
15	QPSK	1	74	17.85	17.47	17.59						
15	QPSK	36	0	17.80	17.64	17.64						
15	QPSK	36	24	17.63	17.50	17.49		18.3				
15	QPSK	36	39	17.44	17.40	17.39						
15	QPSK	75	0	17.57	17.47	17.59						
15	HQAM	1	0	17.57	17.31	17.54						
15	HQAM	1	37	17.29	17.54	17.46		18.3				
15	HQAM	1	99	17.49	17.37	17.50						
15	HQAM	36	0	17.29	17.60	17.62						
15	HQAM	36	20	17.35	17.45	17.32		18.3				
15	HQAM	36	29	17.37	17.40	17.41						
15	HQAM	75	0	17.46	17.37	17.48						
15	HQAM	1	0	17.48	17.42	17.46						
15	HQAM	37	0	17.50	17.36	17.39		18.3				
15	HQAM	1	74	17.49	17.40	17.35						
15	HQAM	36	0	17.29	17.40	17.38						
15	HQAM	36	29	17.32	17.36	17.34		18.3				
15	HQAM	75	0	17.34	17.20	17.31						
15	HQAM	1	37	17.07	17.12	17.07		18.3				
15	SSBQAM	1	99	17.17	17.11	17.16						
15	SSBQAM	50	0	17.15	17.28	17.27						
15	SSBQAM	50	24	17.12	17.20	17.13		18.3				
15	SSBQAM	50	50	17.27	17.14	17.13						
15	SSBQAM	100	0	17.16	17.14	17.13						
Channel												
26590				26565	26590		Turn-up (s)	MPR (dB)				
10	QPSK	1	0	18.55	18.50	18.50						
10	QPSK	1	25	17.49	17.57	17.58		18.3				
10	QPSK	1	49	17.66	17.47	17.68						
10	QPSK	1	74	17.69	17.56	17.63						
10	QPSK	25	0	17.33	17.56	17.43		18.3				
10	QPSK	25	25	17.47	17.47	17.48						
10	QPSK	50	0	17.40	17.47	17.48						
10	HQAM	1	0	17.59	17.46	17.54						
10	HQAM	1	25	17.30	17.54	17.46		18.3				
10	HQAM	25	0	17.35	17.53	17.50						
10	HQAM	25	12	17.31	17.40	17.40		18.3				
10	HQAM	36	0	17.38	17.38	17.37						
10	HQAM	36	20	17.42	17.34	17.49		18.3				
10	HQAM	50	0	17.38	17.41	17.36						
10	HQAM	50	24	17.36	17.33	17.38		18.3				
10	HQAM	1	49	17.33	17.35	17.48						
10	HQAM	25	0	17.33	17.44	17.38						
10	HQAM	25	12	17.31	17.27	17.41		18.3				
10	HQAM	50	0	17.35	17.37	17.41						
10	SSBQAM	1	25	17.15	17.22	17.25						
10	SSBQAM	1	49	17.16	17.16	17.20		18.3				
10	SSBQAM	50	0	17.20	17.26	17.23						
10	SSBQAM	50	24	17.11	17.16	17.20		18.3				
10	SSBQAM	50	50	17.23	17.09	17.14						
10	SSBQAM	100	0	17.03	17.13	17.07						
Channel												
26695				26670	26695		Turn-up (s)	MPR (dB)				
5	QPSK	1	0	17.47	17.55	17.47						
5	QPSK	1	12	17.55	17.55	17.53		18.3				
5	QPSK	1	24	17.61	17.52	17.63						
5	QPSK	12	0	17.46	17.44	17.49						
5	QPSK	12	13	17.41	17.37	17.47		18.3				
5	QPSK	25	0	17.46	17.52	17.55						
5	QPSK	25	25	17.46	17.46	17.46						
5	HQAM	1	0	17.58	17.52	17.47						
5	HQAM	1	12	17.36	17.54	17.49		18.3				
5	HQAM	12	0	17.56	17.51	17.68						
5	HQAM	12	7	17.28	17.41	17.37		18.3				
5	HQAM	12	13	17.42	17.38	17.33						
5	HQAM	25	0	17.38	17.38	17.40						
5	HQAM	25	1	17.39	17.36	17.41		18.3				
5	HQAM	25	12	17.16	17.26	17.30						
5	HQAM	1	24	17.46	17.50	17.50						
5	HQAM	12	0	17.35	17.31	17.60						
5	HQAM	12	7	17.29	17.46	17.35		18.3				
5	HQAM	12	13	17.30	17.30	17.27						
5	HQAM	25	0	17.40	17.28	17.24						
5	SSBQAM	1	0	17.11	17.24	17.22						
5	SSBQAM	1	12	17.01	17.19	17.06		18.3				
5	SSBQAM	1	24	17.10	17.10	17.14						
5	SSBQAM	12	0	17.17	17.25	17.24						
5	SSBQAM	12	7	17.04	17.15	17.01		18.3				
5	SSBQAM	12	13	17.14	17.08	17.13						
5	SSBQAM	25	0	17.19	17.08	17.06						
Channel												
26695				26640	26695		Turn-up (s)	MPR (dB)				
3	QPSK	1	0	17.58	17.70	17.71						
3	QPSK	1	8	17.63	17.57	17.58		18.3				
3	QPSK	1	14	17.68	17.56	17.63						
3	QPSK	1	17	17.59	17.48	17.59						
3	QPSK	8	0	17.43	17.45	17.41		18.3				
3	QPSK	8	7	17.54	17.38	17.46						
3	QPSK	15	0	17.42	17.45	17.47						
3	HQAM	1	0	17.54	17.56	17.46						
3	HQAM	1	8	17.30	17.51	17.47		18.3				
3	HQAM	1	14	17.64	17.51	17.52						
3	HQAM	8	0	17.40	17.54	17.55		18.3				
3	HQAM	8	4	17.23	17.47	17.36						
3	HQAM	15	0	17.45	17.42	17.33						
3	HQAM	15	0	17.45	17.33	17.54						
3	HQAM	1	0	17.48	17.43	17.46						
3	HQAM	1	8	17.38	17.56	17.36		18.3				
3	HQAM	1	14	17.52	17.41	17.46						
3	HQAM	8	0	17.34	17.39	17.46						
3	HQAM	8	7	17.30	17.48	17.23		18.3				
3	HQAM	8	7	17.45	17.29	17.28						
3	SSBQAM	1	0	17.09	17.23	17.16						
3	SSBQAM	1	8	17.05	17.19	17.00		18.3				
3	SSBQAM	1	14	17.09	17.10	17.17						
3	SSBQAM	8	0	17.17	17.15	17.15						
3	SSBQAM	8	4	17.01	17.15	17.						



Band 4 Ant1 DS13 Standalone															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MPE (dB)							
Channel															
Frequency (MHz)															
20	QPSK	1	0	22.79	22.83	22.87	24	0							
20	QPSK	1	49	22.86	22.90	22.94	24	0							
20	QPSK	1	99	22.93	22.97	23.01	23	1							
20	QPSK	50	0	21.98	21.99	21.91	23	1							
20	QPSK	50	24	21.91	21.91	21.83	23	1							
20	QPSK	50	50	21.72	21.78	21.78	23	1							
20	QPSK	100	0	21.63	21.71	21.69	23	1							
20	HQAM	1	49	21.87	21.91	21.89	23	1							
20	HQAM	1	99	22.01	22.01	21.98	22	2							
20	HQAM	50	0	20.91	20.93	20.90	22	2							
20	HQAM	50	24	20.82	20.85	20.87	22	2							
20	HQAM	50	50	20.81	20.88	20.78	22	2							
20	HQAM	100	0	20.85	20.75	20.82	22	2							
20	HQAM	1	0	21.61	21.67	21.61	21	3							
20	HQAM	1	49	20.86	20.96	20.87	21	3							
20	HQAM	50	0	19.96	20.04	19.95	21	3							
20	HQAM	50	24	19.98	20.09	20.00	21	3							
20	HQAM	50	50	19.97	19.92	19.82	21	3							
20	HQAM	100	0	20.18	20.32	20.22	19	5							
20	HQAM	1	49	17.73	17.75	17.76	19	5							
20	HQAM	1	99	17.48	17.57	17.43	19	5							
20	HQAM	50	0	17.72	17.68	17.76	19	5							
20	HQAM	50	24	17.38	17.52	17.45	19	5							
20	HQAM	50	50	17.48	17.63	17.58	19	5							
20	HQAM	100	0	17.58	17.61	17.49	19	5							
Channel															
Frequency (MHz)															
15	QPSK	1	0	22.67	22.76	22.71	24	0							
15	QPSK	1	74	22.62	22.64	22.61	24	0							
15	QPSK	1	149	22.52	22.48	22.42	24	0							
15	QPSK	36	0	21.88	21.91	21.78	23	1							
15	QPSK	36	36	21.78	21.85	21.79	23	1							
15	QPSK	36	36	21.65	21.65	21.61	23	1							
15	QPSK	75	0	21.07	21.09	21.04	23	1							
15	HQAM	1	49	21.07	21.07	21.02	23	1							
15	HQAM	1	99	21.84	21.92	21.84	23	1							
15	HQAM	50	0	20.77	20.81	20.83	22	2							
15	HQAM	50	24	20.70	20.80	20.79	22	2							
15	HQAM	50	50	20.73	20.81	20.88	22	2							
15	HQAM	100	0	20.88	21.01	20.92	22	2							
15	HQAM	1	0	17.66	17.69	17.68	21	3							
15	HQAM	1	74	17.75	17.82	17.61	21	3							
15	HQAM	36	0	19.81	19.97	19.81	21	3							
15	HQAM	36	36	19.85	19.99	19.88	21	3							
15	HQAM	36	36	19.87	19.94	19.82	21	3							
15	HQAM	75	0	20.50	20.24	20.09	21	3							
15	HQAM	1	0	17.66	17.69	17.68	19	5							
15	HQAM	1	99	17.58	17.67	17.51	19	5							
15	HQAM	50	0	17.38	17.47	17.30	19	5							
15	HQAM	50	24	17.44	17.55	17.48	19	5							
15	HQAM	50	50	17.38	17.43	17.33	19	5							
15	HQAM	100	0	17.48	17.53	17.45	19	5							
15	HQAM	75	0	17.65	17.62	17.49	19	5							
Channel															
Frequency (MHz)															
10	QPSK	1	0	22.68	22.76	22.71	24	0							
10	QPSK	1	25	22.57	22.65	22.55	24	0							
10	QPSK	1	49	22.54	22.49	22.47	24	0							
10	QPSK	36	0	21.88	21.88	21.81	23	1							
10	QPSK	36	36	21.77	21.83	21.78	23	1							
10	QPSK	36	36	21.59	21.68	21.68	23	1							
10	QPSK	75	0	21.07	21.09	21.04	23	1							
10	HQAM	1	0	22.09	22.07	22.03	23	1							
10	HQAM	1	25	21.89	21.91	21.88	23	1							
10	HQAM	50	0	20.77	20.81	20.77	22	2							
10	HQAM	50	24	20.69	20.85	20.79	22	2							
10	HQAM	50	50	20.71	20.85	20.72	22	2							
10	HQAM	100	0	20.88	20.94	20.89	22	2							
10	HQAM	1	0	17.66	17.69	17.68	21	3							
10	HQAM	1	49	17.76	17.88	17.79	21	3							
10	HQAM	36	0	19.89	19.97	19.90	21	3							
10	HQAM	36	36	19.81	19.88	19.79	21	3							
10	HQAM	75	0	20.51	20.22	20.08	21	3							
10	HQAM	1	0	17.65	17.71	17.62	19	5							
10	HQAM	1	49	17.66	17.73	17.58	19	5							
10	HQAM	50	0	17.42	17.49	17.33	19	5							
10	HQAM	50	24	17.50	17.61	17.43	19	5							
10	HQAM	50	50	17.29	17.42	17.38	19	5							
10	HQAM	100	0	17.35	17.49	17.47	19	5							
10	HQAM	75	0	17.58	17.62	17.49	19	5							
Channel															
Frequency (MHz)															
5	QPSK	1	0	22.67	22.76	22.71	24	0							
5	QPSK	1	24	22.51	22.46	22.47	24	0							
5	QPSK	1	49	22.46	22.41	22.41	24	0							
5	QPSK	36	0	21.63	21.65	21.55	23	1							
5	QPSK	36	36	21.50	21.65	21.55	23	1							
5	HQAM	1	0	22.01	22.03	22.00	23	1							
5	HQAM	1	12	21.98	21.93	21.88	23	1							
5	HQAM	50	0	21.08	21.07	21.02	23	1							
5	HQAM	50	24	20.82	20.89	20.77	22	2							
5	HQAM	50	50	20.69	20.80	20.73	22	2							
5	HQAM	100	0	20.71	20.81	20.70	22	2							
5	HQAM	1	0	20.90	20.93	20.96	22	2							
5	HQAM	1	12	20.77	20.92	20.86	22	2							
5	HQAM	1	24	20.80	20.95	20.85	22	2							
5	HQAM	36	0	19.82	19.92	19.87	21	3							
5	HQAM	36	36	19.83	19.95	19.85	21	3							
5	HQAM	75	0	19.77	19.89	19.78	21	3							
5	HQAM	1	0	17.63	17.68	17.63	19	5							
5	HQAM	1	12	17.62	17.68	17.58	19	5							
5	HQAM	50	0	17.40	17.44	17.30	19	5							
5	HQAM	50	24	17.48	17.56	17.48	19	5							
5	HQAM	50	50	17.30	17.42	17.31	19	5							
5	HQAM	100	0	17.55	17.64	17.49	19	5							
Channel															
Frequency (MHz)															
1.4	QPSK	1	0	22.14	22.33	22.24	24	0							
1.4	QPSK	1	3	22.05	22.26	22.16	24	0							
1.4	QPSK	1	5	22.13	22.24	22.19	24	0							
1.4	QPSK	3	0	21.89	21.94	21.77	23	1							
1.4	QPSK	3	1	21.76	21.78	21.81	23	1							
1.4	QPSK	8	4	21.61	21.71	21.68	23	1							
1.4	QPSK	8	7	21.63	21.67	21.69	23	1							
3	HQAM	1	0	22.08	22.00	22.01	23	1							
3	HQAM	1	8	21.83	21.87	21.86	23	1							
3	HQAM	1	14	21.87	21.91	21.88	23	1							
3	HQAM	8	0	20.79	20.94	20.75	22	2							
3	HQAM	8	4	20.74	20.89	20.80	22	2							
3	HQAM	15	0	20.69	20.77	20.86	22	2							
3	HQAM	15	0	20.71	20.78	20.77	22	2							
3	HQAM	1	0	20.91	20.94	20.98	22	2							
3	HQAM	1	8	20.72	20.84	20.74	22	2							
3	HQAM	1	14	20.76	20.84	20.85	22	2							
3	HQAM	8	0	19.87	19.98	19.87	21	3							
3	HQAM	8	7	19.72	19.91	19.82	21	3							
3	HQAM	15	0	20.68	20.82	20.78	21	3							
3	HQAM	15	0	17.68	17.75	17.65	19	5							
3	HQAM	1	0	17.65	17.69	17.58	19	5							
3	HQAM	1	14	17.43	17.45	17.38	19	5		</					



Band 38 Ant1 DSI3 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq				
Channel				38750	38900	38150				
Frequency (MHz)										
20	QPSK	1	0	19.24	19.34	19.41	20.4	0		
20	QPSK	1	49	19.34	19.39	19.28				
20	QPSK	50	24	19.34	19.39	19.34				
20	QPSK	50	24	19.34	19.39	19.34				
20	QPSK	50	24	19.34	19.39	19.34	20.4	0		
20	IQAM	1	0	19.24	19.34	19.31				
20	IQAM	1	49	19.34	19.31	19.27				
20	IQAM	1	99	19.34	19.31	19.31				
20	IQAM	50	0	19.17	19.24	19.40	20.4	0		
20	IQAM	50	24	19.20	19.18	19.29				
20	IQAM	50	50	19.09	19.07	19.20				
20	IQAM	100	0	19.35	19.12	19.06				
20	IQAM	1	49	18.88	18.81	19.02	20.4	0		
20	IQAM	1	99	19.36	19.07	19.06				
20	IQAM	50	0	19.37	19.34	19.38				
20	IQAM	50	24	19.22	19.32	19.24				
20	IQAM	50	50	19.31	19.31	19.20	20.4	0		
20	IQAM	100	0	19.31	19.33	19.32				
20	25QAM	1	0	17.37	17.42	17.40				
20	25QAM	1	49	17.24	17.31	17.28				
20	25QAM	1	99	17.23	17.24	17.14	19	1.4		
20	25QAM	50	0	17.20	17.26	17.60				
20	25QAM	50	24	17.20	17.35	17.18				
20	25QAM	50	50	17.22	17.28	17.18				
20	25QAM	100	0	17.25	17.29	17.17	19	1.4		
Channel				37525	38000	38175				
Frequency (MHz)										
15	QPSK	1	0	19.42	19.42	19.29			20.4	0
15	QPSK	1	37	19.33	19.45	19.25				
15	QPSK	1	74	19.20	19.38	19.27				
15	QPSK	36	0	19.30	19.38	19.34				
15	QPSK	36	20	19.25	19.26	19.23	20.4	0		
15	QPSK	36	39	19.25	19.29	19.14				
15	QPSK	75	0	19.25	19.15	19.00				
15	IQAM	1	0	19.20	19.26	19.22				
15	IQAM	1	37	19.23	19.23	19.25	20.4	0		
15	IQAM	1	74	19.28	19.18	19.11				
15	IQAM	36	0	19.20	19.29	19.27				
15	IQAM	36	20	19.08	19.10	19.21				
15	IQAM	36	39	19.07	19.04	19.15	20.4	0		
15	IQAM	75	0	19.14	19.22	19.05				
15	IQAM	1	0	18.84	18.80	19.00				
15	IQAM	1	37	18.75	18.88	18.97				
15	IQAM	1	74	18.86	18.92	18.77	20.4	0		
15	IQAM	36	0	19.30	19.45	19.33				
15	IQAM	36	20	19.20	19.27	19.25				
15	IQAM	36	39	19.33	19.18	19.28				
15	IQAM	75	0	19.25	19.25	19.30	19	1.4		
15	25QAM	1	0	17.29	17.28	17.28				
15	25QAM	1	37	17.17	17.21	17.03				
15	25QAM	1	74	17.08	17.18	17.00				
15	25QAM	36	0	17.22	17.30	17.31	19	1.4		
15	25QAM	36	20	17.08	17.25	17.05				
15	25QAM	36	39	17.13	17.14	17.06				
15	25QAM	75	0	17.17	17.19	17.05				
Channel				25775	25950	26125				
Frequency (MHz)										
10	QPSK	1	0	19.46	19.41	19.41	20.4	0		
10	QPSK	1	25	19.32	19.33	19.30				
10	QPSK	1	49	19.32	19.40	19.24				
10	QPSK	25	12	19.36	19.36	19.33				
10	QPSK	25	25	19.34	19.19	19.03	20.4	0		
10	IQAM	1	0	19.18	19.30	19.28				
10	IQAM	1	25	19.21	19.23	19.33				
10	IQAM	1	49	19.30	19.11	19.13				
10	IQAM	25	0	19.14	19.25	19.30	20.4	0		
10	IQAM	25	12	19.08	19.07	19.25				
10	IQAM	25	25	19.09	19.07	19.25				
10	IQAM	50	0	19.22	19.16	19.04				
10	IQAM	1	0	19.14	19.03	19.07	20.4	0		
10	IQAM	1	25	18.81	18.92	18.87				
10	IQAM	1	49	18.86	18.96	18.90				
10	IQAM	25	0	19.35	19.35	19.24				
10	IQAM	25	12	19.23	19.19	19.25	20.4	0		
10	IQAM	25	25	19.24	19.27	19.20				
10	IQAM	50	0	19.23	19.23	19.38				
10	25QAM	1	0	17.29	17.35	17.27				
10	25QAM	1	25	17.10	17.20	17.10	19	1.4		
10	25QAM	1	49	17.10	17.18	17.03				
10	25QAM	25	0	17.28	17.23	17.27				
10	25QAM	25	12	17.09	17.20	17.04				
10	25QAM	25	25	17.14	17.23	17.12	19	1.4		
10	25QAM	50	0	17.18	17.21	17.03				
Channel				25725	25950	26175				
Frequency (MHz)										
5	QPSK	1	0	19.50	19.47	19.37	20.4	0		
5	QPSK	1	19	19.25	19.41	19.32				
5	QPSK	1	24	19.30	19.36	19.28				
5	QPSK	12	0	19.24	19.29	19.24				
5	QPSK	12	7	19.21	19.36	19.28	20.4	0		
5	QPSK	12	19	19.25	19.19	19.07				
5	QPSK	25	0	19.19	19.29	19.09				
5	IQAM	0	19	19.12	19.27	19.35				
5	IQAM	1	12	19.23	19.14	19.08	20.4	0		
5	IQAM	1	24	19.33	19.23	19.06				
5	IQAM	12	0	19.12	19.30	19.32				
5	IQAM	12	7	19.00	19.02	19.27				
5	IQAM	12	13	19.09	19.05	19.12	20.4	0		
5	IQAM	25	0	19.23	19.15	19.02				
5	IQAM	1	0	18.75	18.92	19.03				
5	IQAM	1	12	18.83	18.93	18.91				
5	IQAM	1	24	18.91	18.94	18.81	20.4	0		
5	IQAM	12	0	19.25	19.26	19.25				
5	IQAM	12	7	19.17	19.25	19.23				
5	IQAM	12	13	19.30	19.34	19.17				
5	IQAM	25	0	19.28	19.38	19.07	19	1.4		
5	25QAM	1	0	17.24	17.29	17.19				
5	25QAM	1	12	17.03	17.12	17.05				
5	25QAM	1	24	17.03	17.07	17.05				
5	25QAM	12	0	17.18	17.21	17.20	19	1.4		
5	25QAM	12	7	17.13	17.17	17.12				
5	25QAM	12	13	17.06	17.18	17.08				
5	25QAM	25	0	17.12	17.15	17.11				

Band 41 Ant1 DSI3 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq				
Channel				38750	40185	40660				
Frequency (MHz)										
20	QPSK	1	0	19.43	19.67	19.63	20.4	0		
20	QPSK	1	49	19.30	19.44	19.33				
20	QPSK	50	24	19.30	19.45	19.42				
20	QPSK	50	24	19.32	19.39	19.45				
20	QPSK	50	24	19.31	19.44	19.32	20.4	0		
20	IQAM	1	0	19.21	19.32	19.30				
20	IQAM	1	49	19.36	19.30	19.47				
20	IQAM	1	99	19.34	19.45	19.34				
20	IQAM	50	0	19.50	19.26	19.39	20.4	0		
20	IQAM	50	24	19.39	19.18	19.22				
20	IQAM	50	50	19.19	19.26	19.12				
20	IQAM	100	0	19.27	19.20	19.17				
20	IQAM	1	49	19.36	18.95	18.99	20.4	0		
20	IQAM	1	99	19.38	19.30	19.30				
20	IQAM	50	0	19.47	19.57	19.52				
20	IQAM	50	24	19.37	19.37	19.38				
20	IQAM	50	24	19.36	19.40	19.41	20.4	0		
20	IQAM	100	0	19.62	19.44	19.48				
20	25QAM	1	0	17.19	17.22	17.30				
20	25QAM	1	49	17.05	17.14	17.21				
20	25QAM	1	99	17.06	17.14	17.30	19	1.4		
20	25QAM	50	0	17.17	17.20	17.26				
20	25QAM	50	24	17.13	17.18	17.12				
20	25QAM	50	50	17.10	17.18	17.13				
20	25QAM	100	0	17.13	17.33	17.30	19	1.4		
Channel				39750	40173	40660				
Frequency (MHz)										
16	QPSK	1	0	19.39	19.61	19.62			20.4	0
16	QPSK	1	37	19.48	19.63	19.58				
16	QPSK	1	74	19.47	19.62	19.58				
16	QPSK	36	0	19.62	19.62	19.62				
16	QPSK	36	20	19.44	19.56	19.51	20.4	0		
16	QPSK	36	39	19.48	19.58	19.54				
16	QPSK	75	0	19.52	19.56	19.34				
16	IQAM	1	0	19.47	19.34	19.37				
16	IQAM	1	37	19.34	19.42	19.45	20.4	0		
16	IQAM	1	74	19.27	19.57	19.43				
16	IQAM	36	0	19.53	19.49	19.54				
16	IQAM	36	20	19.27	19.29	19.28				
16	IQAM	36	39	19.32	19.42	19.32	20.4	0		
16	IQAM	75	0	19.20	19.27	19.45				
16	IQAM	1	0	19.20	19.20	19.21				
16	IQAM	1	37	19.18	19.02	19.10				
16	IQAM	1	74	19.10	19.16	19.22	20.4	0		
16	IQAM	36	0	19.38	19.42	19.42				
16	IQAM	36	20	19.23	19.29	19.28				
16	IQAM	36	39	19.23	19.29	19.28				
16	IQAM	75	0	19.45	19.37	19.35	19	1.4		
16	25QAM	1	0	17.19	17.10	17.18				
16	25QAM	1	37	17.05	17.07	17.03				
16	25QAM	36	0	17.00	17.14	17.10				
16	25QAM	36	20	17.00	17.07	17.12	19	1.4		
16	25QAM	36	39	17.02	17.01	17.08				
16	25QAM	75	0	17.08	17.12	17.12				
16	25QAM	100	0	17.08	17.12	17.12				
Channel				30975	30963	30960				
Frequency (MHz)										
10	QPSK	1	0	19.69	19.61	19.60	20.4	0		
10	QPSK	1	25	19.34	19.58	19.56				
10	QPSK	1	49	19.41	19.48	19.58				
10	QPSK	25	12	19.43	19.46	19.51				
10	QPSK	25	25	19.48	19.60	19.50	20.4	0		
10	IQAM	1	0	19.37	19.60	19.58				
10	IQAM	1	25	19.48</						



Band 42 Part 27Q Ant2 DS13 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch / Freq	Power Mid Ch / Freq	Power Hgt Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel							42190	42990	42990
Frequency (MHz)							3410	3500	3410
20	QPSK	1	0	18.35	18.60	18.25	19.6	0	
20	QPSK	1	49	18.35	18.62	18.28			
20	QPSK	1	99	18.29	18.51	18.31			
20	QPSK	50	0	18.31	18.55	18.19			
20	QPSK	50	24	18.18	18.50	18.15	19.6	0	
20	QPSK	50	50	18.35	18.42	18.22			
20	QPSK	100	0	18.30	18.44	18.09			
20	16QAM	1	0	18.27	18.59	18.12			
20	16QAM	1	49	18.22	18.37	18.20	19.6	0	
20	16QAM	1	99	18.30	18.52	18.20			
20	16QAM	50	0	18.20	18.52	18.15			
20	16QAM	50	24	18.30	18.37	18.10			
20	16QAM	50	50	18.30	18.40	18.10	19.6	0	
20	64QAM	100	0	18.25	18.39	18.05			
20	64QAM	1	49	18.18	18.51	18.25			
20	64QAM	1	99	18.35	18.52	18.22			
20	64QAM	50	0	18.21	18.48	18.16	19.6	0	
20	64QAM	50	24	18.05	18.38	18.05			
20	64QAM	50	50	18.19	18.45	18.18			
20	64QAM	100	0	18.25	18.38	17.99			
20	256QAM	1	0	17.80	17.71	17.38	19	0.6	
20	256QAM	1	49	17.92	17.65	17.37			
20	256QAM	1	99	17.43	17.63	17.41			
20	256QAM	50	0	17.59	17.69	17.37			
20	256QAM	50	24	17.40	17.64	17.32	19	0.6	
20	256QAM	50	50	17.38	17.64	17.40			
20	256QAM	100	0	17.61	17.70	17.35			
Channel									42185
Frequency (MHz)							3457.5	3500	3472.5
15	QPSK	1	0	18.21	18.40	18.13	19.6	0	
15	QPSK	1	37	18.33	18.46	18.13			
15	QPSK	1	74	18.26	18.37	18.27			
15	QPSK	50	0	18.21	18.43	18.12			
15	QPSK	50	20	18.14	18.34	18.07	19.6	0	
15	QPSK	50	50	18.19	18.45	18.18			
15	QPSK	75	0	18.20	18.37	18.01			
15	16QAM	1	0	18.18	18.41	18.07			
15	16QAM	1	37	18.19	18.53	18.14	19.6	0	
15	16QAM	1	74	18.27	18.50	18.08			
15	16QAM	50	0	18.03	18.42	18.03			
15	16QAM	50	20	17.98	18.51	18.06			
15	16QAM	50	50	18.10	18.32	17.93	19.6	0	
15	16QAM	75	0	18.13	18.24	17.83			
15	64QAM	1	0	18.30	18.38	18.14			
15	64QAM	1	37	18.10	18.37	18.17			
15	64QAM	1	74	18.25	18.58	18.11	19.6	0	
15	64QAM	50	0	18.08	18.35	18.00			
15	64QAM	50	20	17.91	18.30	18.01			
15	64QAM	50	50	18.05	18.38	18.05			
15	64QAM	75	0	18.23	18.21	17.97	19	0.6	
15	256QAM	1	0	17.97	17.81	17.23			
15	256QAM	1	37	17.90	17.93	17.23			
15	256QAM	1	74	17.34	17.62	17.28			
15	256QAM	50	0	17.48	17.60	17.27	19	0.6	
15	256QAM	50	20	17.21	17.66	17.26			
15	256QAM	50	50	17.25	17.52	17.35			
15	256QAM	75	0	17.42	17.88	17.58			
Channel							42180	42990	42990
Frequency (MHz)							3410	3500	3410
10	QPSK	1	0	18.20	18.58	18.15	19.6	0	
10	QPSK	1	25	18.28	18.51	18.21			
10	QPSK	1	49	18.34	18.51	18.25			
10	QPSK	50	0	18.28	18.47	18.08			
10	QPSK	25	12	18.04	18.41	18.04	19.6	0	
10	QPSK	25	25	18.27	18.38	18.06			
10	16QAM	1	0	18.17	18.33	18.01			
10	16QAM	1	0	18.23	18.45	18.06			
10	16QAM	1	25	18.13	18.50	18.09	19.6	0	
10	16QAM	1	49	18.33	18.54	18.06			
10	16QAM	25	0	18.10	18.42	18.00			
10	16QAM	25	12	17.94	18.30	18.05			
10	16QAM	25	25	18.27	18.32	18.05	19.6	0	
10	16QAM	50	0	18.23	18.22	17.90			
10	64QAM	1	0	18.08	18.46	18.13			
10	64QAM	1	25	18.15	18.49	18.08			
10	64QAM	1	49	18.13	18.43	18.19	19.6	0	
10	64QAM	25	0	18.41	18.31	18.13			
10	64QAM	25	12	17.98	18.24	17.97			
10	64QAM	25	25	18.14	18.32	18.14			
10	64QAM	50	0	18.17	18.23	17.93	19	0.6	
10	256QAM	1	0	17.45	17.57	17.30			
10	256QAM	1	25	17.28	17.58	17.23			
10	256QAM	1	49	17.28	17.57	17.30			
10	256QAM	25	0	17.53	17.63	17.26	19	0.6	
10	256QAM	25	12	17.28	17.57	17.26			
10	256QAM	25	25	17.25	17.40	17.26			
10	256QAM	50	0	17.41	17.62	17.22			
Channel							42185	42990	43005
Frequency (MHz)							3462.5	3500	3547.5
5	QPSK	1	0	18.35	18.49	18.22	19.6	0	
5	QPSK	1	12	18.10	18.52	18.11			
5	QPSK	1	24	18.32	18.51	18.25			
5	QPSK	12	0	18.19	18.47	18.14			
5	QPSK	12	7	18.10	18.43	18.00	19.6	0	
5	QPSK	12	13	18.32	18.46	18.09			
5	QPSK	25	0	18.17	18.27	18.04			
5	16QAM	1	0	18.24	18.45	18.09			
5	16QAM	1	12	18.08	18.50	18.07	19.6	0	
5	16QAM	1	24	18.25	18.44	18.15			
5	16QAM	12	0	18.03	18.41	18.04			
5	16QAM	12	7	17.95	18.28	18.02			
5	16QAM	12	13	18.21	18.38	17.96	19.6	0	
5	16QAM	25	0	18.20	18.19	17.88			
5	64QAM	1	0	18.28	18.34	18.12			
5	64QAM	1	12	18.04	18.48	18.18			
5	64QAM	1	24	18.14	18.44	18.05	19.6	0	
5	64QAM	12	0	18.05	18.35	18.04			
5	64QAM	12	7	18.03	18.18	17.94			
5	64QAM	12	13	18.12	18.33	18.11			
5	64QAM	25	0	18.20	18.21	17.96	19	0.6	
5	256QAM	1	0	17.41	17.60	17.31			
5	256QAM	1	12	17.31	17.51	17.28			
5	256QAM	1	24	17.38	17.55	17.31			
5	256QAM	12	0	17.40	17.54	17.24	19	0.6	
5	256QAM	12	7	17.28	17.49	17.18			
5	256QAM	12	13	17.27	17.55	17.31			
5	256QAM	25	0	17.45	17.59	17.27			



Band 7 Ant5 DS13 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPE (dB)
Channel 20850 - 21000 20850								
Frequency (MHz)								
20	QPSK	1	0	17.60	17.96	17.78		
20	QPSK	1	49	17.43	17.77	17.58	19.1	0
20	QPSK	1	99	17.43	17.83	17.57		
20	QPSK	50	0	17.44	17.77	17.60		
20	QPSK	50	24	17.32	17.54	17.40	19.1	0
20	QPSK	50	50	17.37	17.52	17.53		
20	QPSK	100	0	17.33	17.52	17.43		
20	HQAM	1	0	17.52	17.55	17.50		
20	HQAM	1	49	17.30	17.50	17.48	19.1	0
20	HQAM	11	59	17.39	17.57	17.51		
20	HQAM	50	0	17.38	17.52	17.45		
20	HQAM	50	24	17.17	17.35	17.35	19.1	0
20	HQAM	50	50	17.26	17.42	17.42		
20	HQAM	100	0	17.25	17.43	17.43		
20	64QAM	1	0	17.44	17.65	17.64		
20	64QAM	1	49	17.17	17.53	17.42	19.1	0
20	64QAM	1	99	17.38	17.59	17.45		
20	64QAM	50	0	17.23	17.64	17.43		
20	64QAM	50	24	17.15	17.38	17.29	19.1	0
20	64QAM	50	50	17.26	17.48	17.45		
20	64QAM	100	0	17.30	17.41	17.33		
20	256QAM	1	0	17.46	17.67	17.65		
20	256QAM	1	49	17.27	17.61	17.52	19	0.1
20	256QAM	11	59	17.25	17.56	17.44		
20	256QAM	50	0	17.43	17.72	17.67		
20	256QAM	50	24	17.32	17.59	17.49	19	0.1
20	256QAM	50	50	17.31	17.53	17.50		
20	256QAM	100	0	17.25	17.44	17.35		
Channel 20825 - 21000 20825								
Frequency (MHz)								
15	QPSK	1	0	17.57	17.65	17.66		
15	QPSK	1	37	17.25	17.56	17.44	19.1	0
15	QPSK	1	74	17.38	17.50	17.55		
15	QPSK	36	0	17.40	17.60	17.44		
15	QPSK	36	20	17.30	17.48	17.28	19.1	0
15	QPSK	36	36	17.24	17.38	17.44		
15	QPSK	75	0	17.25	17.41	17.29		
15	HQAM	1	0	17.43	17.46	17.45		
15	HQAM	1	37	17.13	17.38	17.34	19.1	0
15	HQAM	1	74	17.21	17.34	17.27		
15	HQAM	36	0	17.32	17.37	17.45		
15	HQAM	36	20	17.13	17.20	17.24	19.1	0
15	HQAM	36	36	17.17	17.25	17.28		
15	HQAM	75	0	17.22	17.28	17.34		
15	64QAM	1	0	17.39	17.57	17.49		
15	64QAM	1	37	17.23	17.51	17.38	19.1	0
15	64QAM	1	74	17.27	17.53	17.31		
15	64QAM	36	0	17.15	17.48	17.34		
15	64QAM	36	20	17.11	17.35	17.28	19.1	0
15	64QAM	36	36	17.19	17.33	17.23		
15	64QAM	75	0	17.18	17.24	17.21		
15	256QAM	1	0	17.50	17.73	17.68		
15	256QAM	1	37	17.35	17.62	17.55	19	0.1
15	256QAM	11	74	17.30	17.59	17.50		
15	256QAM	36	0	17.47	17.74	17.63		
15	256QAM	36	20	17.29	17.57	17.52	19	0.1
15	256QAM	36	36	17.27	17.55	17.48		
15	256QAM	75	0	17.29	17.57	17.46		
Channel 20800 - 21000 20800								
Frequency (MHz)								
10	QPSK	1	0	17.58	17.66	17.62		
10	QPSK	1	25	17.17	17.54	17.51	19.1	0
10	QPSK	1	49	17.27	17.48	17.46		
10	QPSK	25	0	17.40	17.61	17.49		
10	QPSK	25	12	17.28	17.48	17.37	19.1	0
10	QPSK	25	25	17.29	17.45	17.44		
10	QPSK	50	0	17.28	17.39	17.31		
10	HQAM	1	0	17.40	17.47	17.43		
10	HQAM	1	25	17.25	17.34	17.36	19.1	0
10	HQAM	1	49	17.28	17.47	17.47		
10	HQAM	25	0	17.21	17.45	17.35		
10	HQAM	25	12	17.14	17.20	17.25	19.1	0
10	HQAM	25	25	17.10	17.30	17.30		
10	HQAM	50	0	17.14	17.39	17.32		
10	64QAM	1	0	17.40	17.61	17.60		
10	64QAM	1	25	17.14	17.47	17.38	19.1	0
10	64QAM	1	49	17.28	17.51	17.43		
10	64QAM	25	0	17.25	17.46	17.28		
10	64QAM	25	12	17.15	17.35	17.11	19.1	0
10	64QAM	25	25	17.11	17.31	17.37		
10	64QAM	50	0	17.16	17.34	17.16		
10	256QAM	1	0	17.27	17.63	17.50		
10	256QAM	1	25	17.21	17.53	17.47	19	0.1
10	256QAM	11	49	17.14	17.42	17.37		
10	256QAM	25	0	17.45	17.57	17.52		
10	256QAM	25	12	17.27	17.51	17.47	19	0.1
10	256QAM	25	25	17.13	17.44	17.34		
10	256QAM	50	0	17.43	17.57	17.49		
Channel 20775 - 21000 20775								
Frequency (MHz)								
5	QPSK	1	0	17.50	17.60	17.55		
5	QPSK	1	12	17.27	17.60	17.48	19.1	0
5	QPSK	1	24	17.31	17.55	17.52		
5	QPSK	13	0	17.27	17.62	17.51		
5	QPSK	12	7	17.15	17.51	17.38	19.1	0
5	QPSK	12	13	17.21	17.44	17.38		
5	QPSK	25	0	17.22	17.43	17.24		
5	HQAM	1	0	17.35	17.48	17.58		
5	HQAM	1	12	17.28	17.33	17.42	19.1	0
5	HQAM	1	24	17.24	17.43	17.41		
5	HQAM	12	0	17.21	17.36	17.42		
5	HQAM	12	7	17.15	17.29	17.20	19.1	0
5	HQAM	25	0	17.13	17.34	17.35		
5	HQAM	25	0	17.13	17.32	17.27		
5	HQAM	1	0	17.28	17.47	17.59	19.1	0
5	HQAM	1	12	17.13	17.47	17.27		
5	HQAM	1	24	17.28	17.43	17.36		
5	HQAM	12	0	17.26	17.54	17.29	19.1	0
5	HQAM	12	7	17.10	17.22	17.25		
5	HQAM	12	13	17.22	17.35	17.37		
5	HQAM	25	0	17.19	17.28	17.26		
5	256QAM	1	0	17.52	17.64	17.55		
5	256QAM	1	12	17.37	17.51	17.34	19	0.1
5	256QAM	11	24	17.20	17.45	17.43		
5	256QAM	12	0	17.29	17.65	17.56		
5	256QAM	12	7	17.16	17.47	17.39	19	0.1
5	256QAM	12	13	17.18	17.45	17.37		
5	256QAM	25	0	17.25	17.58	17.51		



Band 38 Ant5 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power Hgh. Ch. / Freq.	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.66	17.01	16.87				
20	QPSK	1	49	16.66	16.81	16.81	18	0		
20	QPSK	1	59	16.66	16.79	16.74				
20	QPSK	50	0	16.72	16.88	16.76				
20	QPSK	50	24	16.63	16.71	16.68	18	0		
20	QPSK	50	50	16.53	16.67	16.64				
20	QPSK	100	0	16.45	16.60	16.54				
20	16QAM	1	0	16.84	16.84	16.72				
20	16QAM	1	49	16.59	16.65	16.65	18	0		
20	16QAM	1	59	16.51	16.68	16.68				
20	16QAM	50	0	16.71	16.86	16.81				
20	16QAM	50	24	16.57	16.56	16.81	18	0		
20	16QAM	50	50	16.34	16.57	16.52				
20	16QAM	100	0	16.40	16.51	16.50				
20	16QAM	1	0	16.62	16.84	16.75				
20	16QAM	1	49	16.64	16.76	16.71	18	0		
20	16QAM	1	59	16.61	16.70	16.67				
20	16QAM	50	0	16.59	16.62	16.62				
20	16QAM	50	24	16.55	16.67	16.64	18	0		
20	16QAM	50	50	16.36	16.52	16.55				
20	16QAM	100	0	16.32	16.46	16.41				
20	256QAM	1	0	16.77	16.81	16.76				
20	256QAM	1	49	16.50	16.72	16.65	18	0		
20	256QAM	1	59	16.51	16.73	16.64				
20	256QAM	50	0	16.70	16.71	16.65				
20	256QAM	50	24	16.47	16.65	16.62	18	0		
20	256QAM	50	50	16.42	16.61	16.55				
20	256QAM	100	0	16.40	16.56	16.42				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.81	16.77	16.72				
15	QPSK	1	37	16.66	16.72	16.68	18	0		
15	QPSK	1	74	16.57	16.73	16.60				
15	QPSK	36	0	16.62	16.68	16.60				
15	QPSK	36	20	16.60	16.62	16.58	18	0		
15	QPSK	36	39	16.44	16.60	16.51				
15	QPSK	75	0	16.34	16.59	16.43				
15	16QAM	1	0	16.74	16.78	16.57				
15	16QAM	1	37	16.49	16.62	16.59	18	0		
15	16QAM	1	74	16.28	16.69	16.63				
15	16QAM	36	0	16.57	16.69	16.64				
15	16QAM	36	20	16.49	16.47	16.55	18	0		
15	16QAM	36	39	16.27	16.47	16.45				
15	16QAM	75	0	16.35	16.47	16.38				
15	16QAM	1	0	16.73	16.69	16.65				
15	16QAM	1	37	16.46	16.66	16.57	18	0		
15	16QAM	1	74	16.35	16.66	16.61				
15	16QAM	36	0	16.57	16.63	16.47				
15	16QAM	36	20	16.47	16.59	16.48	18	0		
15	16QAM	36	39	16.33	16.37	16.49				
15	16QAM	75	0	16.26	16.37	16.27				
15	256QAM	1	0	16.66	16.76	16.64				
15	256QAM	1	37	16.43	16.62	16.55	18	0		
15	256QAM	1	74	16.41	16.60	16.49				
15	256QAM	36	0	16.63	16.62	16.53				
15	256QAM	36	20	16.33	16.40	16.53	18	0		
15	256QAM	36	39	16.29	16.35	16.41				
15	256QAM	75	0	16.27	16.47	16.38				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.60	16.60	16.60				
10	QPSK	1	25	16.53	16.75	16.74	18	0		
10	QPSK	1	49	16.59	16.65	16.60				
10	QPSK	25	0	16.60	16.71	16.61	18	0		
10	QPSK	25	12	16.58	16.56	16.65				
10	QPSK	25	25	16.43	16.57	16.54				
10	16QAM	1	0	16.58	16.54	16.49				
10	16QAM	1	25	16.51	16.61	16.64	18	0		
10	16QAM	1	49	16.45	16.62	16.60				
10	16QAM	25	0	16.67	16.55	16.54				
10	16QAM	25	12	16.45	16.43	16.46	18	0		
10	16QAM	25	25	16.31	16.40	16.48				
10	16QAM	50	0	16.20	16.47	16.41				
10	16QAM	1	0	16.71	16.68	16.61				
10	16QAM	1	25	16.54	16.60	16.66	18	0		
10	16QAM	1	49	16.40	16.57	16.51				
10	16QAM	25	0	16.59	16.47	16.52				
10	16QAM	25	12	16.30	16.56	16.54	18	0		
10	16QAM	25	25	16.35	16.40	16.45				
10	16QAM	50	0	16.24	16.39	16.27				
10	256QAM	1	0	16.60	16.74	16.68				
10	256QAM	1	25	16.40	16.64	16.56	18	0		
10	256QAM	1	49	16.37	16.59	16.55				
10	256QAM	25	0	16.62	16.63	16.56				
10	256QAM	25	12	16.38	16.40	16.38	18	0		
10	256QAM	25	25	16.35	16.37	16.45				
10	256QAM	50	0	16.22	16.40	16.38				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.70	16.51	16.52				
5	QPSK	1	12	16.55	16.69	16.68	18	0		
5	QPSK	1	24	16.50	16.74	16.69				
5	QPSK	12	0	16.60	16.64	16.61				
5	QPSK	12	7	16.55	16.59	16.63	18	0		
5	QPSK	12	13	16.39	16.52	16.54				
5	QPSK	25	0	16.30	16.46	16.42				
5	16QAM	1	0	16.78	16.80	16.62				
5	16QAM	1	12	16.52	16.62	16.51	18	0		
5	16QAM	1	24	16.35	16.67	16.56				
5	16QAM	12	0	16.60	16.50	16.52				
5	16QAM	12	7	16.52	16.44	16.52	18	0		
5	16QAM	12	13	16.20	16.53	16.43				
5	16QAM	25	0	16.24	16.36	16.39				
5	16QAM	1	0	16.67	16.71	16.63				
5	16QAM	1	12	16.53	16.71	16.62	18	0		
5	16QAM	1	24	16.30	16.64	16.59				
5	16QAM	12	0	16.62	16.59	16.57				
5	16QAM	12	7	16.42	16.62	16.58	18	0		
5	16QAM	12	13	16.34	16.42	16.50				
5	16QAM	25	0	16.21	16.32	16.30				
5	256QAM	1	0	16.65	16.69	16.65				
5	256QAM	1	12	16.48	16.63	16.50	18	0		
5	256QAM	1	24	16.40	16.68	16.49				
5	256QAM	12	0	16.65	16.63	16.53				
5	256QAM	12	7	16.34	16.41	16.49	18	0		
5	256QAM	12	13	16.27	16.46	16.43				
5	256QAM	25	0	16.27	16.50	16.27				



Reduced Power Mode for DS13 Simultaneous

GSM850 Ant0 DS13 Simultaneous												
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)				
	158	189	251		158	189	251					
TX Channel	158	189	251		158	189	251					
Frequency (MHz)	824.2	835.4	843.3		824.2	835.4	843.3					
GSM 1 Tx slot	31.89	31.91	31.78	32.90	22.89	22.91	22.78	23.90				
GPRS 1 Tx slot	31.86	31.96	31.95	32.90	22.86	22.96	22.95	23.90				
GPRS 2 Tx slots	28.79	28.91	28.88	29.90	22.79	22.91	22.88	23.90				
GPRS 3 Tx slots	27.11	27.30	27.29	28.10	22.85	23.04	23.03	23.84				
GPRS 4 Tx slots	26.20	26.23	26.10	26.90	23.20	23.23	23.10	23.90				
EDGE 1 Tx slot	26.14	26.24	26.17	27.00	17.14	17.24	17.17	18.00				
EDGE 2 Tx slots	24.94	25.10	25.00	26.00	18.94	19.10	19.00	20.00				
EDGE 3 Tx slots	22.92	22.76	22.91	24.00	18.66	18.50	18.65	19.74				
EDGE 4 Tx slots	20.81	20.78	20.47	22.00	17.81	17.76	17.47	19.00				

GSM1900 Ant0 DS13 Simultaneous												
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)				
	512	661	810		512	661	810					
TX Channel	512	661	810		512	661	810					
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8					
GSM 1 Tx slot	25.62	25.44	25.39	25.90	16.62	16.44	16.39	16.90				
GPRS 1 Tx slot	25.57	25.63	25.23	25.90	16.57	16.63	16.23	16.90				
GPRS 2 Tx slots	21.52	21.58	21.34	22.90	15.52	15.58	15.34	16.90				
GPRS 3 Tx slots	19.61	19.70	19.44	21.10	15.35	15.44	15.18	16.84				
GPRS 4 Tx slots	18.66	18.57	18.91	19.90	15.66	15.97	15.91	16.90				
EDGE 1 Tx slot	24.75	24.84	24.43	25.90	15.75	15.84	15.43	16.90				
EDGE 2 Tx slots	21.65	21.45	21.69	22.90	15.65	15.45	15.69	16.90				
EDGE 3 Tx slots	19.56	19.54	19.15	21.10	15.30	15.28	14.89	16.84				
EDGE 4 Tx slots	18.42	18.49	18.41	19.90	15.42	15.49	15.41	16.90				

WCDMA II Ant0 DS13 Simultaneous												
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1860	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	15.77	15.81	15.66	17.30	14.87	14.97	14.90	16.40	22.23	22.47	22.46
3GPP Rel 99	RMC 12.2Kbps	15.75	15.83	15.75	17.30	15.04	15.11	15.10	16.40	22.44	22.68	22.63
3GPP Rel 6	HSDPA Subtest-1	14.88	15.03	14.85	16.30	13.76	13.89	13.71	15.40	21.25	21.44	21.20
3GPP Rel 6	HSDPA Subtest-2	14.93	14.93	14.92	16.30	13.67	13.88	13.87	15.40	21.25	21.46	21.34
3GPP Rel 6	HSDPA Subtest-3	14.56	14.41	14.54	15.80	13.55	13.54	13.69	14.90	20.89	20.85	20.84
3GPP Rel 6	HSDPA Subtest-4	14.33	14.53	14.49	15.80	13.55	13.67	13.66	14.90	20.90	20.96	21.07
3GPP Rel 8	DC-HSDPA Subtest-1	15.00	15.08	14.79	16.30	13.78	13.86	13.62	15.40	21.33	21.36	21.12
3GPP Rel 8	DC-HSDPA Subtest-2	14.80	15.09	14.86	16.30	13.80	13.91	13.79	15.40	21.22	21.49	21.26
3GPP Rel 8	DC-HSDPA Subtest-3	14.50	14.58	14.49	15.80	13.59	13.52	13.74	14.90	20.82	21.02	20.93
3GPP Rel 8	DC-HSDPA Subtest-4	14.32	14.53	14.60	15.80	13.52	13.73	13.74	14.90	20.81	20.98	20.92
3GPP Rel 6	HSUPA Subtest-1	14.81	15.04	14.89	16.30	13.75	13.82	13.76	15.40	21.23	21.42	21.26
3GPP Rel 6	HSUPA Subtest-2	12.96	13.02	12.88	14.30	12.39	12.50	12.50	13.40	19.39	19.44	19.44
3GPP Rel 6	HSUPA Subtest-3	13.96	14.02	13.86	15.30	13.38	13.49	13.32	14.40	20.31	20.40	20.29
3GPP Rel 6	HSUPA Subtest-4	12.95	12.98	12.89	14.30	12.31	12.50	12.38	13.40	19.27	19.37	19.24
3GPP Rel 6	HSUPA Subtest-5	14.84	14.92	15.03	16.30	13.78	13.81	13.95	15.40	21.39	21.39	21.48
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.51	12.54	12.35	13.80	11.55	11.49	11.44	12.90	18.83	18.97	18.75



Band 2 Ant0 DS13 Simultaneous													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	15.58	15.57	15.60							
20	QPSK	1	49	15.83	15.55	15.53	16.7	0					
20	QPSK	50	0	15.48	15.50	15.59							
20	QPSK	50	24	15.48	15.52	15.49							
20	QPSK	50	50	15.48	15.42	15.53	16.7	0					
20	QPSK	100	0	15.48	15.50	15.40							
20	HQAM	1	49	15.41	15.56	15.59	16.7	0					
20	HQAM	1	99	15.58	15.48	15.49							
20	HQAM	50	24	15.29	15.47	15.25							
20	HQAM	50	24	15.29	15.47	15.25							
20	HQAM	50	50	15.46	15.40	15.27							
20	HQAM	100	0	15.39	15.29	15.29							
20	HQAM	1	0	15.36	15.31	15.32							
20	HQAM	1	49	15.20	15.26	15.45	16.7	0					
20	HQAM	50	24	15.24	15.40	15.48							
20	HQAM	50	0	15.25	15.33	15.26							
20	HQAM	50	24	15.29	15.39	15.23	16.7	0					
20	HQAM	100	0	15.25	15.31	15.43							
20	SSQAM	1	49	15.05	15.13	15.02	16.7	0					
20	SSQAM	1	99	15.12	15.05	15.22							
20	SSQAM	50	24	15.25	15.41	15.32							
20	SSQAM	50	24	15.06	15.14	15.06	16.7	0					
20	SSQAM	50	50	15.07	15.02	15.14							
20	SSQAM	100	0	14.99	15.04	15.07							
Channel													
Frequency (MHz)													
15	QPSK	1	0	15.26	15.26	15.25							
15	QPSK	1	37	15.48	15.47	15.48	16.7	0					
15	QPSK	1	74	15.51	15.54	15.54							
15	QPSK	36	0	15.43	15.32	15.37							
15	QPSK	36	36	15.41	15.34	15.35	16.7	0					
15	QPSK	36	36	15.35	15.40	15.25							
15	QPSK	75	0	15.32	15.47	15.28							
15	HQAM	1	37	15.28	15.36	15.44	16.7	0					
15	HQAM	1	74	15.11	15.24	15.12							
15	HQAM	36	0	15.22	15.47	15.50							
15	HQAM	36	20	15.30	15.40	15.24	16.7	0					
15	HQAM	75	0	15.27	15.28	15.48							
15	HQAM	1	0	15.29	15.33	15.35							
15	HQAM	37	0	15.24	15.30	15.27	16.7	0					
15	HQAM	1	74	15.38	15.37	15.38							
15	HQAM	36	0	15.15	15.32	15.27	16.7	0					
15	HQAM	36	20	15.15	15.28	15.29							
15	HQAM	36	36	15.30	15.21	15.23							
15	HQAM	75	0	15.48	15.14	15.41							
15	SSQAM	1	37	14.99	15.11	15.00	16.7	0					
15	SSQAM	1	74	15.07	15.03	15.15							
15	SSQAM	36	20	15.03	15.08	15.00	16.7	0					
15	SSQAM	36	36	15.12	15.00	15.15							
15	SSQAM	75	0	14.99	15.00	15.15							
Channel													
Frequency (MHz)													
10	QPSK	1	0	15.44	15.50	15.52	16.7	0					
10	QPSK	1	49	15.56	15.54	15.50							
10	QPSK	25	0	15.48	15.51	15.47							
10	QPSK	25	12	15.42	15.55	15.37	16.7	0					
10	QPSK	25	25	15.35	15.44	15.47							
10	QPSK	50	0	15.42	15.46	15.49							
10	HQAM	1	0	15.51	15.41	15.47							
10	HQAM	1	25	15.26	15.55	15.44	16.7	0					
10	HQAM	25	0	15.28	15.38	15.35							
10	HQAM	25	12	15.30	15.45	15.55							
10	HQAM	25	12	15.28	15.52	15.29	16.7	0					
10	HQAM	50	0	15.38	15.28	15.40							
10	HQAM	50	0	15.42	15.25	15.42							
10	HQAM	1	0	15.51	15.31	15.29	16.7	0					
10	HQAM	25	0	15.15	15.08	15.04							
10	HQAM	1	49	15.49	15.44	15.38							
10	HQAM	25	0	15.21	15.32	15.25							
10	HQAM	25	12	15.15	15.41	15.35							
10	HQAM	50	0	15.43	15.24	15.33	16.7	0					
10	SSQAM	1	25	15.05	15.18	15.01							
10	SSQAM	1	25	14.92	15.01	14.91	16.7	0					
10	SSQAM	1	49	15.02	15.01	15.18							
10	SSQAM	25	12	15.18	15.19	15.09							
10	SSQAM	25	12	15.05	15.09	15.09	16.7	0					
10	SSQAM	25	25	15.13	15.03	15.12							
10	SSQAM	50	0	15.01	15.02	15.04							
Channel													
Frequency (MHz)													
5	QPSK	1	0	15.67	15.57	15.54							
5	QPSK	1	12	15.48	15.47	15.49	16.7	0					
5	QPSK	1	24	15.55	15.59	15.48							
5	QPSK	12	0	15.46	15.45	15.47							
5	QPSK	12	7	15.41	15.47	15.35	16.7	0					
5	QPSK	12	13	15.39	15.46	15.48							
5	QPSK	25	0	15.15	15.46	15.48							
5	HQAM	1	0	15.47	15.48	15.50							
5	HQAM	1	12	15.27	15.38	15.39	16.7	0					
5	HQAM	1	24	15.33	15.44	15.38							
5	HQAM	12	0	15.28	15.45	15.49							
5	HQAM	12	7	15.25	15.43	15.26	16.7	0					
5	HQAM	13	13	15.41	15.28	15.41							
5	HQAM	25	0	15.41	15.26	15.38							
5	HQAM	1	0	15.27	15.28	15.38	16.7	0					
5	HQAM	1	12	15.21	15.34	15.12							
5	HQAM	1	24	15.49	15.44	15.48							
5	HQAM	12	0	15.17	15.38	15.50							
5	HQAM	12	7	15.22	15.34	15.12	16.7	0					
5	HQAM	12	13	15.34	15.20	15.21							
5	HQAM	25	0	15.41	15.14	15.21							
5	SSQAM	1	0	15.00	15.17	15.15							
5	SSQAM	1	12	14.98	15.11	14.92	16.7	0					
5	SSQAM	1	24	15.04	15.07	15.09							
5	SSQAM	12	0	15.09	15.30	15.17							
5	SSQAM	12	7	14.97	15.05	15.02	16.7	0					
5	SSQAM	12	13	15.05	14.96	15.08							
5	SSQAM	25	0	15.03	14.99	15.02							
Channel													
Frequency (MHz)													
3	QPSK	1	0	15.52	15.54	15.52							
3	QPSK	1	8	15.41	15.51	15.50	16.7	0					
3	QPSK	1	14	15.50	15.54	15.55							
3	QPSK	8	0	15.50	15.55	15.57							
3	QPSK	8	4	15.37	15.53	15.40	16.7	0					
3	QPSK	8	7	15.42	15.46	15.50							
3	QPSK	15	0	15.38	15.58	15.53							
3	HQAM	1	0	15.51	15.41	15.46							
3	HQAM	1	8	15.33	15.51	15.42	16.7	0					
3	HQAM	1	14	15.48	15.52	15.40							
3	HQAM	8	0	15.30	15.46	15.58							
3	HQAM	8	4	15.24	15.51	15.26	16.7	0					
3	HQAM	15	0	15.39	15.29	15.30							
3	HQAM	1	0	15.39	15.30	15.47							
3	HQAM	1	8	15.11	15.48	15.39	16.7	0					
3	HQAM	1	14	15.38	15.37	15.37							
3	HQAM	8	0	15.22	15.36	15.28							
3	HQAM	8	4	15.21	15.32	15.15	16.7	0					
3	HQAM	8	7	15.27	15.16	15.28							
3	SSQAM	15	0	15.03	14.99	15.01							
3	SSQAM	1	8	14.97	15.08	14.98	16.7	0					
3	SSQAM	1	14	15.06	14.99	15.01							
3	SSQAM	8	0	15.08	15.25	15.17							
3	SSQAM	8	4	15.02	15.08	15.09	16.7	0					
3	SSQAM	8	7	15.08	14.97	15.04							
3	SSQAM	15	0	15.10	15.05	15.05							
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	15.55	15.57	15.53							
1.4	QPSK	1	3	15.39	15.46	15.48	16.7	0					
1.4	QPSK	1	5	15.50	15.54	15.46							
1.4	QPSK	1	15	15.48	15.38	15.45							
1.4	QPSK	3	1	15.39	15.48	15.39							
1.4	QPSK	3	1	15.37	15.42	15.43	16.7	0					
1.4	QPSK	3	1	15.35	15.34	15.35							
1.4	HQAM	1	0	15.55	15.43	15.46							
1.4	HQAM	1	5	15.52	15.41	15.43	16.7	0					
1.4	HQAM	3	0	15.26	15.49	15.55							
1.4	HQAM	3	1	15.23	15.46	15.52							
1.4	HQAM	3	1	15.45	15.34	15.33							
1.4	HQAM	6	0	15.42	15.25	15.48	16.7	0					
1.4	HQAM	1	0	15.28	15.36	15.45							
1.4	HQAM	1	3	15.11	15.42	15.38							
1.4	HQAM	1	5	15.43	15.42	15.38	16.7	0					
1.4	HQAM	3	1	15.25	15.38	15.28							
1.4	HQAM	3	1	15.20	15.30	15.18							
1.4	HQAM	3	1	15.31	15.24	15.22							
1.4	HQAM	6	0	15.51	15.34	15.48	16.7	0					
1.4	SSQAM	1	0	15.01	15.16	15.11							
1.4	SSQAM	1	3	14.96	15.09	14.94	16.7	0					
1.4	SSQAM	3	1	15.07	14.93	15.18							
1.													



Band 12 Ant0 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
	Frequency (MHz)			704	707.5	711				
10	QPSK	1	0	22.67	22.71	22.60				
10	QPSK	1	25	22.67	22.68	22.63			23.3	0
10	QPSK	1	49	22.84	22.87	22.85				
10	QPSK	25	0	21.63	21.79	21.66				
10	QPSK	25	12	21.41	21.47	21.53				
10	QPSK	25	25	21.46	21.80	21.68			23	1
10	QPSK	50	0	21.63	21.55	21.32				
10	HQAM	1	0	21.69	21.85	21.74				
10	HQAM	1	25	21.70	21.79	21.71			23	1
10	HQAM	1	49	21.62	21.76	21.65				
10	HQAM	25	0	20.99	20.85	20.73				
10	HQAM	25	12	20.72	20.75	20.54			22	2
10	HQAM	25	25	20.74	20.79	20.81				
10	HQAM	50	0	20.54	20.65	20.55				
10	BQAM	1	0	20.70	20.69	20.65				
10	BQAM	1	25	20.57	20.67	20.54			22	2
10	BQAM	1	49	20.62	20.59	20.66				
10	BQAM	25	0	19.62	19.59	19.25				
10	BQAM	25	12	19.52	19.63	19.26				
10	BQAM	25	25	19.58	19.65	19.45			21	3
10	BQAM	50	0	19.63	19.59	19.45				
10	25SQAM	1	0	17.62	17.77	17.58				
10	25SQAM	1	25	17.60	17.77	17.58			19	5
10	25SQAM	1	49	17.66	17.79	17.42				
10	25SQAM	12	0	17.62	17.47	17.52				
10	25SQAM	25	12	17.55	17.69	17.59			19	5
10	25SQAM	25	25	17.63	17.79	17.57				
10	25SQAM	50	0	17.62	17.47	17.52				
Channel										
	Frequency (MHz)			2055	2055	2055				
5	QPSK	1	0	22.57	22.58	22.54				
5	QPSK	1	14	22.59	22.63	22.42			24	0
5	QPSK	12	0	21.51	21.68	21.51				
5	QPSK	12	7	21.34	21.42	21.61				
5	QPSK	12	13	21.33	21.53	21.48			23	1
5	QPSK	25	0	21.46	21.37	21.26				
5	HQAM	1	0	21.65	21.71	21.66				
5	HQAM	1	12	21.37	21.36	21.67			23	1
5	HQAM	1	24	21.28	21.50	21.44				
5	HQAM	12	0	20.76	20.90	20.63				
5	HQAM	12	7	20.70	20.71	20.47			22	2
5	HQAM	12	13	20.73	20.62	20.55				
5	HQAM	25	0	20.40	20.63	20.59				
5	BQAM	1	0	20.58	20.60	20.52				
5	BQAM	1	12	20.43	20.60	20.48			22	2
5	BQAM	1	24	20.59	20.56	20.59				
5	BQAM	12	0	19.52	19.43	19.37				
5	BQAM	12	7	19.48	19.52	19.25			21	3
5	BQAM	12	13	19.51	19.94	19.35				
5	BQAM	25	0	19.45	19.45	19.36				
5	25SQAM	1	0	17.62	17.62	17.62				
5	25SQAM	1	12	17.63	17.74	17.52			19	5
5	25SQAM	1	24	17.51	17.83	17.26				
5	25SQAM	12	0	17.62	17.52	17.45				
5	25SQAM	12	7	17.51	17.52	17.40			19	5
5	25SQAM	12	13	17.60	17.89	17.50				
5	25SQAM	25	0	17.62	17.52	17.45				
Channel										
	Frequency (MHz)			2017	2055	2055				
1.4	QPSK	1	0	22.54	22.62	22.48				
1.4	QPSK	1	3	22.39	22.48	22.52			24	0
1.4	QPSK	1	5	22.59	22.52	22.35				
1.4	QPSK	3	0	22.35	22.43	22.42				
1.4	QPSK	3	1	22.36	22.35	22.37				
1.4	QPSK	3	3	22.34	22.48	22.50			23	1
1.4	HQAM	1	0	21.44	21.71	21.60				
1.4	HQAM	1	3	21.37	21.55	21.39				
1.4	HQAM	1	5	21.36	21.53	21.35			23	1
1.4	HQAM	3	0	21.41	21.62	21.40				
1.4	HQAM	3	1	21.30	21.54	21.27				
1.4	HQAM	3	3	21.44	21.47	21.38				
1.4	BQAM	1	0	20.45	20.42	20.24			22	2
1.4	BQAM	1	3	20.58	20.79	20.55				
1.4	BQAM	1	5	20.61	20.48	20.58				
1.4	BQAM	1	5	20.62	20.75	20.58			22	2
1.4	BQAM	3	0	20.70	20.49	20.52				
1.4	BQAM	3	3	20.58	20.44	20.40				
1.4	BQAM	6	0	19.52	19.88	19.41			21	3
1.4	25SQAM	1	0	17.62	17.62	17.62				
1.4	25SQAM	1	3	17.27	17.50	17.30				
1.4	25SQAM	1	5	17.31	17.42	17.20			19	5
1.4	25SQAM	3	0	17.59	17.44	17.45				
1.4	25SQAM	3	1	17.25	17.26	17.31				
1.4	25SQAM	3	3	17.43	17.17	17.26			19	5
1.4	25SQAM	6	0	17.44	17.21	17.25				

Band 13 Ant0 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
	Frequency (MHz)			782						
10	QPSK	1	0	22.38						
10	QPSK	1	25	22.34					23.3	0
10	QPSK	1	49	22.28						
10	QPSK	25	0	21.54						
10	QPSK	25	12	21.48						
10	QPSK	25	25	21.41					23	0.3
10	QPSK	50	0	21.38						
10	HQAM	1	0	21.78						
10	HQAM	1	25	21.65					23	0.3
10	HQAM	1	49	21.59						
10	HQAM	25	0	20.57						
10	HQAM	25	12	20.48					22	1.3
10	HQAM	25	25	20.45						
10	HQAM	50	0	20.38						
10	BQAM	1	0	20.68						
10	BQAM	1	25	20.62					22	1.3
10	BQAM	1	49	20.57						
10	BQAM	25	0	19.62						
10	BQAM	25	12	19.54					21	2.3
10	BQAM	25	25	19.53						
10	BQAM	50	0	19.41						
10	25SQAM	1	0	17.55						
10	25SQAM	1	25	17.49					19	4.3
10	25SQAM	1	49	17.46						
10	25SQAM	12	0	17.45						
10	25SQAM	25	12	17.43					19	4.3
10	25SQAM	25	25	17.38						
10	25SQAM	50	0	17.41						
Channel										
	Frequency (MHz)			2325	2330	2355				
5	QPSK	1	0	22.24	22.29	22.25				
5	QPSK	1	12	22.25	22.26	22.09			23.3	0
5	QPSK	1	24	22.08	22.19	22.02				
5	QPSK	12	0	21.26	21.46	21.38				
5	QPSK	12	7	21.30	21.41	21.30				
5	QPSK	12	13	21.26	21.37	21.33			23	0.3
5	QPSK	25	0	21.10	21.50	21.14				
5	HQAM	1	0	21.67	21.72	21.68				
5	HQAM	1	12	21.38	21.49	21.46			23	0.3
5	HQAM	1	24	21.28	21.41	21.24				
5	HQAM	12	0	20.44	20.51	20.49				
5	HQAM	12	7	20.31	20.36	20.18			22	1.3
5	HQAM	12	13	20.29	20.35	20.20				
5	HQAM	25	0	20.16	20.24	20.18				
5	BQAM	1	0	20.34	20.51	20.37			22	1.3
5	BQAM	1	12	20.41	20.47	20.37				
5	BQAM	1	24	20.39	20.48	20.43				
5	BQAM	12	0	19.48	19.53	19.50				
5	BQAM	1								



Band 25 Ant0 DS13 Simultaneous											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)	MFR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	15.71	15.75	15.79					
20	QPSK	1	49	15.69	15.69	15.69	16.7	0			
20	QPSK	1	99	15.70	15.69	15.66					
20	QPSK	50	0	15.60	15.71	15.70					
20	QPSK	50	24	15.61	15.63	15.64	16.7	0			
20	QPSK	50	49	15.64	15.66	15.64					
20	QPSK	100	0	15.56	15.66	15.64					
20	QPSK	100	49	15.60	15.59	15.60					
20	16QAM	1	49	15.46	15.67	15.55	16.7	0			
20	16QAM	1	99	15.46	15.62	15.54					
20	16QAM	50	0	15.43	15.61	15.59					
20	16QAM	50	24	15.40	15.61	15.39	16.7	0			
20	16QAM	50	49	15.52	15.40	15.48					
20	16QAM	100	0	15.32	15.40	15.37					
20	16QAM	100	49	15.47	15.45	15.47					
20	16QAM	1	49	15.37	15.61	15.39	16.7	0			
20	16QAM	1	99	15.47	15.64	15.39					
20	16QAM	50	0	15.26	15.48	15.70					
20	16QAM	50	24	15.36	15.52	15.31	16.7	0			
20	16QAM	50	49	15.47	15.35	15.39					
20	16QAM	100	0	15.60	15.34	15.51					
20	256QAM	1	49	15.12	15.21	15.12	16.7	0			
20	256QAM	1	99	15.23	15.13	15.22					
20	256QAM	50	0	15.23	15.18	15.29					
20	256QAM	50	24	15.15	15.18	15.19	16.7	0			
20	256QAM	50	49	15.22	15.15	15.27					
20	256QAM	100	0	15.01	15.16	15.44					
Channel											
Frequency (MHz)											
15	QPSK	1	0	15.48	15.71	15.66					
15	QPSK	1	37	15.66	15.64	15.67	16.7	0			
15	QPSK	1	74	15.66	15.60	15.64					
15	QPSK	36	0	15.47	15.68	15.61					
15	QPSK	36	24	15.44	15.62	15.43	16.7	0			
15	QPSK	36	36	15.63	15.45	15.50					
15	QPSK	75	0	15.48	15.50	15.39					
15	16QAM	1	37	15.37	15.58	15.49	16.7	0			
15	16QAM	1	74	15.70	15.64	15.67					
15	16QAM	36	0	15.37	15.49	15.61					
15	16QAM	36	24	15.29	15.52	15.28	16.7	0			
15	16QAM	36	36	15.63	15.45	15.56					
15	16QAM	75	0	15.41	15.36	15.45					
15	16QAM	75	0	15.40	15.31	15.38					
15	16QAM	1	37	15.54	15.64	15.67	16.7	0			
15	16QAM	1	74	15.45	15.47	15.45					
15	16QAM	36	0	15.26	15.43	15.54					
15	16QAM	36	24	15.45	15.35	15.34	16.7	0			
15	16QAM	36	36	15.40	15.23	15.37					
15	16QAM	75	0	15.43	15.26	15.38					
15	256QAM	1	37	14.97	15.12	15.04	16.7	0			
15	256QAM	1	74	15.14	15.08	15.12					
15	256QAM	36	0	15.12	15.08	15.16					
15	256QAM	36	24	15.06	15.08	15.07	16.7	0			
15	256QAM	36	36	15.09	15.02	15.14					
15	256QAM	75	0	15.01	15.04	15.27					
Channel											
Frequency (MHz)											
10	QPSK	1	0	15.65	15.80	15.65					
10	QPSK	1	49	15.68	15.69	15.66	16.7	0			
10	QPSK	1	99	15.68	15.56	15.53					
10	QPSK	20	0	15.47	15.49	15.66					
10	QPSK	20	49	15.42	15.49	15.46	16.7	0			
10	QPSK	25	25	15.48	15.44	15.47					
10	16QAM	1	49	15.46	15.60	15.49	16.7	0			
10	16QAM	1	99	15.51	15.51	15.52					
10	16QAM	25	0	15.30	15.59	15.57					
10	16QAM	25	49	15.25	15.50	15.36	16.7	0			
10	16QAM	50	0	15.38	15.37	15.40					
10	16QAM	50	49	15.43	15.31	15.48	16.7	0			
10	16QAM	1	49	15.55	15.44	15.40					
10	16QAM	25	0	15.24	15.38	15.57					
10	16QAM	25	49	15.40	15.44	15.44	16.7	0			
10	16QAM	50	0	15.41	15.29	15.40					
10	16QAM	50	49	15.41	15.29	15.40					
10	256QAM	1	37	14.88	15.15	15.07	16.7	0			
10	256QAM	1	74	15.09	15.12	15.07					
10	256QAM	36	0	15.08	15.09	15.07					
10	256QAM	36	24	15.03	15.08	15.04	16.7	0			
10	256QAM	36	36	15.02	15.02	15.04					
10	256QAM	75	0	15.02	15.04	15.10					
10	256QAM	75	0	15.01	15.12	15.10	16.7	0			
Channel											
Frequency (MHz)											
5	QPSK	1	0	15.43	15.71	15.61					
5	QPSK	1	12	15.58	15.65	15.58	16.7	0			
5	QPSK	1	24	15.63	15.68	15.64					
5	QPSK	15	0	15.45	15.60	15.54					
5	QPSK	15	12	15.40	15.58	15.36	16.7	0			
5	QPSK	12	13	15.61	15.47	15.55					
5	QPSK	20	0	15.50	15.48	15.48					
5	QPSK	20	12	15.50	15.55	15.55					
5	16QAM	1	12	15.33	15.53	15.42	16.7	0			
5	16QAM	1	24	15.48	15.48	15.48					
5	16QAM	12	0	15.30	15.60	15.65					
5	16QAM	12	7	15.26	15.61	15.36	16.7	0			
5	16QAM	15	0	15.47	15.34	15.49					
5	16QAM	15	12	15.40	15.34	15.51					
5	16QAM	20	0	15.46	15.42	15.36	16.7	0			
5	16QAM	20	12	15.27	15.48	15.39					
5	16QAM	24	14	15.54	15.60	15.40					
5	16QAM	24	15	15.40	15.60	15.40	16.7	0			
5	16QAM	12	0	15.27	15.37	15.49					
5	16QAM	12	7	15.30	15.51	15.29					
5	16QAM	12	13	15.40	15.23	15.36	16.7	0			
5	16QAM	20	0	15.43	15.21	15.44					
5	16QAM	20	12	15.02	15.25	15.15					
5	256QAM	1	12	14.98	15.19	15.04	16.7	0			
5	256QAM	1	24	15.16	15.11	15.11					
5	256QAM	12	0	15.26	15.24	15.16					
5	256QAM	12	7	14.96	15.09	15.01	16.7	0			
5	256QAM	12	13	15.17	15.06	15.08					
5	256QAM	20	0	15.06	15.03	15.11					
Channel											
Frequency (MHz)											
3	QPSK	1	0	15.41	15.71	15.61					
3	QPSK	1	8	15.58	15.61	15.53	16.7	0			
3	QPSK	1	14	15.63	15.48	15.61					
3	QPSK	8	0	15.47	15.60	15.62					
3	QPSK	8	8	15.37	15.48	15.42	16.7	0			
3	QPSK	8	7	15.61	15.47	15.55					
3	QPSK	15	0	15.45	15.48	15.48					
3	16QAM	1	0	15.50	15.55	15.55					
3	16QAM	1	12	15.33	15.53	15.42	16.7	0			
3	16QAM	1	24	15.48	15.48	15.48					
3	16QAM	12	0	15.30	15.60	15.65					
3	16QAM	12	7	15.26	15.61	15.36	16.7	0			
3	16QAM	15	0	15.47	15.34	15.51					
3	16QAM	15	7	15.40	15.42	15.3					



Band 4 Ant1 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
				1720	1732	1744				
20	QPSK	1	0	20.61	20.65	20.63				
20	QPSK	1	49	20.64	20.48	20.48	22.1	0		
20	QPSK	1	99	20.64	20.48	20.48				
20	QPSK	50	0	20.47	20.52	20.47				
20	QPSK	24	24	20.37	20.44	20.39				
20	QPSK	50	50	20.43	20.36	20.35	22.1	0		
20	QPSK	100	0	20.30	20.41	20.33				
20	QPSK	50	0	20.48	20.48	20.48				
20	HQAM	1	49	20.47	20.48	20.34	22.1	0		
20	HQAM	1	99	20.44	20.39	20.32				
20	HQAM	50	0	20.43	20.45	20.28				
20	HQAM	50	24	20.23	20.38	20.22	22	0.1		
20	HQAM	100	0	20.32	20.19	20.23				
20	HQAM	100	0	20.16	20.37	20.33				
20	HQAM	1	0	20.49	20.54	20.51				
20	HQAM	1	49	20.36	20.43	20.32	22	0.1		
20	HQAM	1	99	20.47	20.48	20.31				
20	HQAM	50	0	19.96	20.04	19.95				
20	HQAM	50	24	19.98	20.09	20.00	21	1.1		
20	HQAM	50	24	19.97	19.92	19.92				
20	HQAM	100	0	20.18	20.32	20.22				
20	HQAM	1	0	17.23	17.48	17.28				
20	HQAM	1	49	17.72	17.78	17.67	19	3.1		
20	HQAM	1	99	17.48	17.57	17.43				
20	HQAM	50	0	17.28	17.35	17.35				
20	HQAM	50	24	17.48	17.52	17.40	19	3.1		
20	HQAM	50	50	17.38	17.63	17.58				
20	HQAM	100	0	17.28	17.43	17.31				
Channel										
				20025	20175	20325				
				1717.5	1732.5	1747.5				
15	QPSK	1	0	20.24	20.32	20.28				
15	QPSK	1	49	20.42	20.44	20.38	22.1	0		
15	QPSK	1	74	20.43	20.41	20.37				
15	QPSK	36	0	20.51	20.47	20.38				
15	QPSK	20	20	20.23	20.37	20.32	22.1	0		
15	QPSK	36	36	20.29	20.28	20.21				
15	QPSK	75	0	20.49	20.27	20.23				
15	HQAM	1	0	20.49	20.51	20.48				
15	HQAM	1	37	20.37	20.38	20.28	22.1	0		
15	HQAM	1	74	20.38	20.40	20.35				
15	HQAM	36	0	20.30	20.39	20.18				
15	HQAM	36	20	20.21	20.37	20.28	22	0.1		
15	HQAM	36	39	20.17	20.32	20.21				
15	HQAM	75	0	20.10	20.15	20.11				
15	HQAM	1	0	20.44	20.41	20.44	22	0.1		
15	HQAM	1	37	20.47	20.48	20.34				
15	HQAM	1	74	20.35	20.40	20.24				
15	HQAM	36	0	19.81	19.97	19.81				
15	HQAM	36	20	19.85	19.99	19.84	21	1.1		
15	HQAM	36	39	19.87	19.94	19.82				
15	HQAM	75	0	19.80	19.24	19.69				
15	HQAM	1	0	17.26	17.68	17.48				
15	HQAM	1	37	17.58	17.67	17.51	19	3.1		
15	HQAM	1	74	17.38	17.47	17.30				
15	HQAM	36	0	17.44	17.62	17.48				
15	HQAM	36	20	17.26	17.43	17.33	19	3.1		
15	HQAM	36	39	17.49	17.53	17.45				
15	HQAM	75	0	17.15	17.42	17.48				
Channel										
				20060	20175	20300				
				1715	1732	1750				
10	QPSK	1	0	20.42	20.54	20.48				
10	QPSK	1	25	20.44	20.48	20.44	22.1	0		
10	QPSK	1	49	20.50	20.43	20.44				
10	QPSK	14	14	20.47	20.40	20.47				
10	QPSK	25	12	20.25	20.39	20.22	22.1	0		
10	QPSK	25	25	20.29	20.36	20.28				
10	QPSK	50	0	20.39	20.50	20.48				
10	HQAM	1	0	20.39	20.50	20.48	22.1	0		
10	HQAM	1	25	20.38	20.34	20.28				
10	HQAM	1	49	20.43	20.38	20.32				
10	HQAM	25	0	20.34	20.41	20.27				
10	HQAM	25	12	20.18	20.31	20.22	22	0.1		
10	HQAM	50	0	20.13	20.12	20.11				
10	HQAM	1	0	20.50	20.47	20.43	22	0.1		
10	HQAM	1	25	20.45	20.39	20.34				
10	HQAM	1	49	20.40	20.44	20.32				
10	HQAM	25	0	19.89	19.97	19.90				
10	HQAM	25	12	19.93	19.92	19.84	21	1.1		
10	HQAM	25	25	19.81	19.88	19.79				
10	HQAM	50	0	20.11	20.22	20.20				
10	HQAM	1	0	17.65	17.77	17.61				
10	HQAM	1	25	17.86	17.73	17.58	19	3.1		
10	HQAM	1	49	17.42	17.49	17.33				
10	HQAM	1	74	17.58	17.61	17.43				
10	HQAM	25	12	17.29	17.42	17.35	19	3.1		
10	HQAM	25	25	17.35	17.49	17.47				
10	HQAM	50	0	17.58	17.62	17.49				
Channel										
				19975	20175	20375				
				1742.5	1752.5	1762.5				
5	QPSK	1	0	20.42	20.54	20.48				
5	QPSK	1	12	20.43	20.47	20.45	22.1	0		
5	QPSK	1	24	20.51	20.48	20.34				
5	QPSK	12	6	20.47	20.46	20.45				
5	QPSK	12	7	20.22	20.35	20.26	22.1	0		
5	QPSK	12	13	20.27	20.38	20.33				
5	HQAM	1	0	20.40	20.41	20.44	22.1	0		
5	HQAM	1	12	20.39	20.44	20.33				
5	HQAM	1	24	20.45	20.33	20.28				
5	HQAM	12	0	20.31	20.39	20.22				
5	HQAM	12	7	20.16	20.33	20.22	22	0.1		
5	HQAM	12	13	20.22	20.18	20.20				
5	HQAM	25	0	20.10	20.11	20.03				
5	HQAM	1	0	20.49	20.48	20.43	22	0.1		
5	HQAM	1	12	20.34	20.44	20.31				
5	HQAM	1	24	20.42	20.35	20.28				
5	HQAM	12	0	19.82	19.92	19.87				
5	HQAM	12	7	19.83	19.95	19.85	21	1.1		
5	HQAM	12	13	19.77	19.89	19.78				
5	HQAM	25	0	20.12	20.21	20.13				
5	HQAM	1	0	17.63	17.68	17.63				
5	HQAM	1	12	17.62	17.68	17.58	19	3.1		
5	HQAM	1	24	17.40	17.44	17.30				
5	HQAM	1	49	17.48	17.52	17.48				
5	HQAM	12	7	17.30	17.42	17.31	19	3.1		
5	HQAM	12	13	17.40	17.54	17.46				
5	HQAM	25	0	17.55	17.64	17.49				
Channel										
				19965	20175	20365				
				1742.5	1752.5	1762.5				
1.4	QPSK	1	0	20.48	20.54	20.41	22.1	0		
1.4	QPSK	1	3	20.37	20.35	20.32				
1.4	QPSK	1	5	20.46	20.37	20.33				
1.4	QPSK	3	3	20.37	20.40	20.39				
1.4	QPSK	3	1	20.20	20.25	20.15				
1.4	QPSK	3	2	20.21	20.19	20.13	22.1	0		
1.4	QPSK	3	1	20.23	20.17	20.32				
1.4	HQAM	1	0	20.40	20.39	20.32	22.1	0		
1.4	HQAM	1	14	20.40	20.31	20.25				
1.4	HQAM	3	0	20.35	20.46	20.22				
1.4	HQAM	3	4	20.25	20.28	20.17	22	0.1		
1.4	HQAM	3	7	20.29	20.19	20.20				
1.4	HQAM	15	0	20.15	20.16	20.02				



Band 38 Ant1 DSI3 Simultaneous											
BW [MHz]	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	15.43	15.61	15.28	16.9	0			
20	QPSK	1	49	15.27	15.43	15.14					
20	QPSK	1	99	15.19	15.28	15.28					
20	QPSK	50	0	15.28	15.46	15.17	16.9	0			
20	QPSK	50	24	15.21	15.36	15.13					
20	QPSK	50	50	15.12	15.09	15.24					
20	QPSK	100	0	15.22	15.53	15.11	16.9	0			
20	16QAM	1	0	15.25	15.28	15.17					
20	16QAM	1	49	15.17	15.23	15.22	16.9	0			
20	16QAM	1	99	15.32	15.51	15.20					
20	16QAM	50	0	15.16	15.41	15.12	16.9	0			
20	16QAM	50	24	15.11	15.24	15.24					
20	16QAM	50	50	15.26	15.49	15.14					
20	16QAM	100	0	15.09	15.27	15.11	16.9	0			
20	84QAM	1	0	15.18	15.11	15.30					
20	84QAM	1	49	15.29	15.45	15.27	16.9	0			
20	84QAM	1	99	15.20	15.40	15.14					
20	84QAM	50	0	15.10	15.13	15.22	16.9	0			
20	84QAM	50	24	15.23	15.17	15.21					
20	84QAM	50	50	15.24	15.24	15.17	16.9	0			
20	84QAM	100	0	15.23	15.23	15.42					
20	256QAM	1	0	15.18	15.42	15.25	16.9	0			
20	256QAM	1	49	15.19	15.41	15.17					
20	256QAM	1	99	15.10	15.12	15.20	16.9	0			
20	256QAM	50	0	15.12	15.27	15.14					
20	256QAM	50	24	15.01	15.07	15.25	16.9	0			
20	256QAM	50	50	15.04	15.17	15.14					
20	256QAM	100	0	15.09	15.10	15.34	16.9	0			
Channel				37825	38000	38175					
Frequency (MHz)				2577.5	2595	2612.5					
15	QPSK	1	0	15.39	15.56	15.11	16.9	0			
15	QPSK	1	37	15.15	15.30	15.16					
15	QPSK	1	74	15.20	15.24	15.19	16.9	0			
15	QPSK	36	0	15.07	15.42	15.02	16.9	0			
15	QPSK	36	20	15.16	15.26	15.07					
15	QPSK	36	39	15.15	15.01	15.24	16.9	0			
15	QPSK	75	0	15.16	15.47	15.01					
15	16QAM	1	0	15.24	15.30	15.07	16.9	0			
15	16QAM	1	37	15.13	15.01	15.14					
15	16QAM	1	74	15.22	15.49	15.15	16.9	0			
15	16QAM	36	0	15.10	15.31	15.14					
15	16QAM	36	20	15.05	15.08	15.07	16.9	0			
15	16QAM	36	39	15.25	15.45	15.10					
15	16QAM	75	0	15.14	15.17	15.12	16.9	0			
15	84QAM	1	0	15.05	15.07	15.13					
15	84QAM	1	37	15.21	15.47	15.14	16.9	0			
15	84QAM	1	74	15.11	15.31	15.12					
15	84QAM	36	0	15.14	15.14	15.08	16.9	0			
15	84QAM	36	20	15.16	15.04	15.18					
15	84QAM	36	39	15.17	15.17	15.15	16.9	0			
15	84QAM	75	0	15.16	15.24	15.33					
15	256QAM	1	0	15.12	15.29	15.16	16.9	0			
15	256QAM	1	37	15.12	15.25	15.13					
15	256QAM	1	74	15.05	15.06	15.12	16.9	0			
15	256QAM	36	0	15.12	15.25	15.00					
15	256QAM	36	20	15.14	15.07	15.16	16.9	0			
15	256QAM	36	39	15.17	15.09	15.00					
15	256QAM	75	0	15.16	15.04	15.28	16.9	0			
Channel				37800	38000	38200					
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	15.33	15.46	15.17	16.9	0			
10	QPSK	1	25	15.19	15.30	15.11					
10	QPSK	1	49	15.16	15.29	15.23	16.9	0			
10	QPSK	25	0	15.17	15.37	15.12					
10	QPSK	25	12	15.18	15.23	15.05	16.9	0			
10	QPSK	25	25	15.07	15.02	15.22					
10	QPSK	50	0	15.26	15.40	15.04	16.9	0			
10	16QAM	1	0	15.18	15.22	15.13					
10	16QAM	1	25	15.08	15.03	15.21	16.9	0			
10	16QAM	1	49	15.23	15.49	15.07					
10	16QAM	25	0	15.16	15.38	15.15	16.9	0			
10	16QAM	25	12	15.10	15.12	15.10					
10	16QAM	25	25	15.22	15.49	15.11	16.9	0			
10	16QAM	50	0	15.02	15.21	15.07					
10	84QAM	1	0	15.07	15.11	15.15	16.9	0			
10	84QAM	1	25	15.26	15.44	15.15					
10	84QAM	1	49	15.18	15.32	15.14	16.9	0			
10	84QAM	25	0	15.49	15.08	15.08					
10	84QAM	25	12	15.23	15.03	15.13	16.9	0			
10	84QAM	25	25	15.19	15.15	15.18					
10	84QAM	50	0	15.25	15.24	15.34	16.9	0			
10	256QAM	1	0	15.13	15.36	15.09	16.9	0			
10	256QAM	1	25	15.12	15.29	15.14					
10	256QAM	1	49	15.09	15.13	15.15	16.9	0			
10	256QAM	25	0	15.17	15.20	15.05					
10	256QAM	25	12	15.01	15.13	15.16	16.9	0			
10	256QAM	25	25	15.49	15.02	15.08					
10	256QAM	50	0	15.49	15.12	15.23	16.9	0			
Channel				37775	38000	38225					
Frequency (MHz)				2572.5	2595	2617.5					
5	QPSK	1	0	15.36	15.49	15.09	16.9	0			
5	QPSK	1	12	15.14	15.37	15.06					
5	QPSK	1	24	15.12	15.21	15.24	16.9	0			
5	QPSK	12	0	15.11	15.37	15.03	16.9	0			
5	QPSK	12	7	15.14	15.29	15.07					
5	QPSK	12	13	15.08	15.04	15.17	16.9	0			
5	QPSK	25	0	15.18	15.39	15.03					
5	16QAM	1	0	15.18	15.19	15.14	16.9	0			
5	16QAM	1	12	15.16	15.11	15.14					
5	16QAM	1	24	15.29	15.51	15.15	16.9	0			
5	16QAM	12	0	15.11	15.30	15.01					
5	16QAM	12	7	15.10	15.16	15.11	16.9	0			
5	16QAM	12	13	15.18	15.43	15.06					
5	16QAM	25	0	15.01	15.11	15.04	16.9	0			
5	84QAM	1	0	15.08	15.13	15.13					
5	84QAM	1	12	15.24	15.40	15.06	16.9	0			
5	84QAM	1	24	15.12	15.35	15.07					
5	84QAM	12	0	15.03	15.09	15.03	16.9	0			
5	84QAM	12	7	15.20	15.09	15.24					
5	84QAM	12	13	15.18	15.24	15.15	16.9	0			
5	84QAM	25	0	15.18	15.16	15.36					
5	256QAM	1	0	15.13	15.33	15.10	16.9	0			
5	256QAM	1	12	15.07	15.28	15.06					
5	256QAM	1	24	15.08	15.10	15.15	16.9	0			
5	256QAM	12	0	15.13	15.24	15.08					
5	256QAM	12	7	15.03	15.15	15.11	16.9	0			
5	256QAM	12	13	15.00	15.03	15.03					
5	256QAM	25	0	15.02	15.03	15.22	16.9	0			

Band 41 Ant1 DSI3 Simultaneous												
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	15.42	15.46	15.64	15.34	15.29	16.9	0		
20	QPSK	1	49	15.18	15.36	15.51	15.27	15.30				
20	QPSK	1	99	15.24	15.30	15.36	15.38	15.39	16.9	0		
20	QPSK	50	0	15.29	15.34	15.58	15.25	15.17	16.9	0		
20	QPSK	50	24	15.13	15.31	15.39	15.19	15.20				
20	QPSK	50	50	15.11	15.2							

Band 42 Part 27Q Ant2 DSI3 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42590	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	16.84	17.14	16.69	18.6	0
20	QPSK	1	49	16.88	17.12	16.76		
20	QPSK	1	99	16.92	17.11	16.83		
20	QPSK	50	0	16.88	17.04	16.72	18.6	0
20	QPSK	50	24	16.71	16.98	16.76		
20	QPSK	50	50	16.79	17.03	16.75		
20	QPSK	100	0	16.84	16.94	16.65	18.6	0
20	16QAM	1	0	16.74	17.10	16.66		
20	16QAM	1	49	16.84	17.01	16.64		
20	16QAM	1	99	16.80	16.99	16.74	18.6	0
20	16QAM	50	0	16.74	17.00	16.65		
20	16QAM	50	24	16.62	16.86	16.64		
20	16QAM	50	50	16.66	16.92	16.64	18.6	0
20	16QAM	100	0	16.81	16.82	16.61		
20	64QAM	1	0	16.72	17.01	16.62		
20	64QAM	1	49	16.79	16.99	16.68	18.6	0
20	64QAM	1	99	16.89	17.04	16.81		
20	64QAM	50	0	16.75	16.91	16.68		
20	64QAM	50	24	16.65	16.84	16.62	18.6	0
20	64QAM	50	50	16.68	16.95	16.66		
20	64QAM	100	0	16.75	16.89	16.61		
20	256QAM	1	0	16.80	17.11	16.63	18.6	0
20	256QAM	1	49	16.77	17.03	16.66		
20	256QAM	1	99	16.87	17.05	16.71		
20	256QAM	50	0	16.86	16.95	16.68	18.6	0
20	256QAM	50	24	16.67	16.92	16.64		
20	256QAM	50	50	16.73	16.97	16.71		
20	256QAM	100	0	16.73	16.92	16.60		
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	16.82	17.13	16.64	18.6	0
15	QPSK	1	37	16.88	17.02	16.66		
15	QPSK	1	74	16.82	17.10	16.79		
15	QPSK	36	0	16.77	16.92	16.67	18.6	0
15	QPSK	36	20	16.69	16.88	16.75		
15	QPSK	36	39	16.67	16.99	16.72		
15	QPSK	75	0	16.79	16.85	16.62	18.6	0
15	16QAM	1	0	16.73	17.07	16.70		
15	16QAM	1	37	16.81	17.01	16.66		
15	16QAM	1	74	16.80	17.01	16.79	18.6	0
15	16QAM	36	0	16.77	16.96	16.62		
15	16QAM	36	20	16.64	16.83	16.67		
15	16QAM	36	39	16.67	16.88	16.60	18.6	0
15	16QAM	75	0	16.86	16.79	16.65		
15	64QAM	1	0	16.75	17.06	16.67		
15	64QAM	1	37	16.75	16.97	16.62	18.6	0
15	64QAM	1	74	16.88	17.05	16.79		
15	64QAM	36	0	16.74	16.86	16.66		
15	64QAM	36	20	16.65	16.90	16.60	18.6	0
15	64QAM	36	39	16.67	17.00	16.69		
15	64QAM	75	0	16.76	16.90	16.60		
15	256QAM	1	0	16.84	17.11	16.65	18.6	0
15	256QAM	1	37	16.82	17.01	16.72		
15	256QAM	1	74	16.82	17.07	16.73		
15	256QAM	36	0	16.90	16.99	16.65	18.6	0
15	256QAM	36	20	16.72	16.87	16.64		
15	256QAM	36	39	16.73	17.02	16.70		
15	256QAM	75	0	16.69	16.87	16.66		
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	16.79	17.11	16.77	18.6	0
10	QPSK	1	25	16.75	17.05	16.70		
10	QPSK	1	49	16.82	16.96	16.69		
10	QPSK	25	0	16.73	16.90	16.62	18.6	0
10	QPSK	25	12	16.62	16.84	16.61		
10	QPSK	25	25	16.68	16.90	16.64		
10	QPSK	50	0	16.71	16.85	16.86	18.6	0
10	16QAM	1	0	16.69	17.10	16.64		
10	16QAM	1	25	16.82	16.97	16.62		
10	16QAM	1	49	16.81	16.93	16.73	18.6	0
10	16QAM	25	0	16.73	16.96	16.60		
10	16QAM	25	12	16.65	16.91	16.60		
10	16QAM	25	25	16.61	16.96	16.66	18.6	0
10	16QAM	50	0	16.85	16.78	16.62		
10	64QAM	1	0	16.73	17.00	16.61		
10	64QAM	1	25	16.75	16.97	16.64	18.6	0
10	64QAM	1	49	16.93	17.05	16.86		
10	64QAM	25	0	16.73	16.89	16.64		
10	64QAM	25	12	16.68	16.89	16.68	18.6	0
10	64QAM	25	25	16.63	16.93	16.70		
10	64QAM	50	0	16.72	16.92	16.63		
10	256QAM	1	0	16.75	17.08	16.62	18.6	0
10	256QAM	1	25	16.77	17.01	16.61		
10	256QAM	1	49	16.91	17.05	16.65		
10	256QAM	25	0	16.84	16.94	16.74	18.6	0
10	256QAM	25	12	16.70	16.91	16.69		
10	256QAM	25	25	16.74	16.98	16.68		
10	256QAM	50	0	16.69	16.91	16.60		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	16.75	17.09	16.63	18.6	0
5	QPSK	1	12	16.81	17.03	16.69		
5	QPSK	1	24	16.81	17.06	16.76		
5	QPSK	12	0	16.64	17.00	16.66	18.6	0
5	QPSK	12	7	16.62	16.93	16.66		
5	QPSK	12	13	16.73	16.95	16.70		
5	QPSK	25	0	16.76	16.85	16.61	18.6	0
5	16QAM	1	0	16.71	17.08	16.70		
5	16QAM	1	12	16.84	17.05	16.62		
5	16QAM	1	24	16.75	17.02	16.73	18.6	0
5	16QAM	12	0	16.69	17.00	16.71		
5	16QAM	12	7	16.62	16.85	16.70		
5	16QAM	12	13	16.70	16.94	16.68	18.6	0
5	16QAM	25	0	16.83	16.86	16.62		
5	64QAM	1	0	16.73	17.06	16.63		
5	64QAM	1	12	16.80	16.98	16.64	18.6	0
5	64QAM	1	24	16.83	17.04	16.82		
5	64QAM	12	0	16.78	16.85	16.66		
5	64QAM	12	7	16.68	16.79	16.63	18.6	0
5	64QAM	12	13	16.66	16.95	16.63		
5	64QAM	25	0	16.75	16.91	16.66		
5	256QAM	1	0	16.84	17.09	16.63	18.6	0
5	256QAM	1	12	16.82	17.05	16.62		
5	256QAM	1	24	16.87	17.09	16.72		
5	256QAM	12	0	16.84	16.92	16.70	18.6	0
5	256QAM	12	7	16.63	16.90	16.60		
5	256QAM	12	13	16.78	16.93	16.76		
5	256QAM	25	0	16.76	16.87	16.60		

Band 7 Ant5 DSI3 Simultaneous								
BW [MHz]	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	19.1	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.60	17.86	17.78	19.1	0
20	QPSK	1	49	17.46	17.77	17.58		
20	QPSK	1	99	17.43	17.63	17.57		
20	QPSK	50	0	17.44	17.77	17.60	19.1	0
20	QPSK	50	24	17.32	17.54	17.40		
20	QPSK	50	50	17.37	17.52	17.53		
20	QPSK	100	0	17.33	17.52	17.41	19.1	0
20	16QAM	1	0	17.52	17.55	17.62		
20	16QAM	1	49	17.30	17.50	17.48		
20	16QAM	1	99	17.39	17.57	17.51	19.1	0
20	16QAM	50	0	17.36	17.52	17.49		
20	16QAM	50	24	17.17	17.36	17.36		
20	16QAM	50	50	17.28	17.42	17.42	19.1	0
20	16QAM	100	0	17.25	17.43	17.36		
20	64QAM	1	0	17.44	17.65	17.64		
20	64QAM	1	49	17.17	17.63	17.42	19.1	0
20	64QAM	1	99	17.36	17.59	17.48		
20	64QAM	50	0	17.33	17.64	17.43		
20	64QAM	50	24	17.15	17.38	17.29	19.1	0
20	64QAM	50	50	17.26	17.46	17.42		
20	64QAM	100	0	17.30	17.41	17.33		
20	256QAM	1	0	17.46	17.67	17.65	19	0.1
20	256QAM	1	49	17.27	17.61	17.52		
20	256QAM	1	99	17.25	17.56	17.44		
20	256QAM	50	0	17.43	17.72	17.67	19	0.1
20	256QAM	50	24	17.32	17.59	17.49		
20	256QAM	50	50	17.31	17.53	17.50		
20	256QAM	100	0	17.26	17.44	17.35		
Channel				20825	21100	21375	19.1	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.57	17.65	17.66	19.1	0
15	QPSK	1	37	17.25	17.56	17.44		
15	QPSK	1	74	17.38	17.50	17.55		
15	QPSK	36	0	17.41	17.60	17.44	19.1	0
15	QPSK	36	20	17.30	17.46	17.28		
15	QPSK	36	39	17.24	17.38	17.44		
15	QPSK	75	0	17.25	17.41	17.26	19.1	0
15	16QAM	1	0	17.43	17.46	17.57		
15	16QAM	1	37	17.13	17.38	17.34		
15	16QAM	1	74	17.21	17.54	17.37	19.1	0
15	16QAM	36	0	17.32	17.37	17.45		
15	16QAM	36	20	17.13	17.20	17.24		
15	16QAM	36	39	17.17	17.25	17.39	19.1	0
15	16QAM	75	0	17.22	17.29	17.34		
15	64QAM	1	0	17.39	17.57	17.49		
15	64QAM	1	37	17.33	17.51	17.28	19.1	0
15	64QAM	1	74	17.27	17.53	17.31		
15	64QAM	36	0	17.15	17.48	17.34		
15	64QAM	36	20	17.11	17.26	17.26	19.1	0
15	64QAM	36	39	17.19	17.33	17.28		
15	64QAM	75	0	17.18	17.24	17.21		
15	256QAM	1	0	17.50	17.73	17.66	19	0.1
15	256QAM	1	37	17.35	17.62	17.55		
15	256QAM	1	74	17.30	17.59	17.50		
15	256QAM	36	0	17.47	17.74	17.67	19	0.1
15	256QAM	36	20	17.29	17.57	17.58		
15	256QAM	36	39	17.27	17.55	17.48		
15	256QAM	75	0	17.29	17.57	17.46		
Channel				20800	21100	21400	19.1	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.58	17.66	17.52	19.1	0
10	QPSK	1	25	17.17	17.54	17.51		
10	QPSK	1	49	17.27	17.48	17.46		
10	QPSK	25	0	17.40	17.61	17.49	19.1	0
10	QPSK	25	12	17.28	17.48	17.37		
10	QPSK	25	25	17.29	17.45	17.44		
10	QPSK	50	0	17.28	17.39	17.31	19.1	0
10	16QAM	1	0	17.40	17.47	17.48		
10	16QAM	1	25	17.25	17.34	17.36		
10	16QAM	1	49	17.28	17.47	17.47	19.1	0
10	16QAM	25	0	17.21	17.45	17.35		
10	16QAM	25	12	17.14	17.20	17.25		
10	16QAM	25	25	17.10	17.39	17.32	19.1	0
10	16QAM	50	0	17.14	17.39	17.32		
10	64QAM	1	0	17.40	17.61	17.50		
10	64QAM	1	25	17.14	17.47	17.38	19.1	0
10	64QAM	1	49	17.28	17.51	17.43		
10	64QAM	25	0	17.25	17.46	17.28		
10	64QAM	25	12	17.15	17.35	17.11	19.1	0
10	64QAM	25	25	17.11	17.31	17.37		
10	64QAM	50	0	17.16	17.34	17.16		
10	256QAM	1	0	17.37	17.63	17.50	19	0.1
10	256QAM	1	25	17.21	17.53	17.47		
10	256QAM	1	49	17.14	17.42	17.37		
10	256QAM	25	0	17.42	17.57	17.52	19	0.1
10	256QAM	25	12	17.27	17.51	17.47		
10	256QAM	25	25	17.13	17.44	17.34		
10	256QAM	50	0	17.43	17.57	17.49		
Channel				20775	21160	21425	19.1	0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.50	17.69	17.75	19.1	0
5	QPSK	1	12	17.27	17.60	17.48		
5	QPSK	1	24	17.31	17.55	17.52		
5	QPSK	12	0	17.37	17.62	17.57	19.1	0
5	QPSK	12	7	17.15	17.51	17.38		
5	QPSK	12	13	17.21	17.44	17.38		
5	QPSK	25	0	17.22	17.43	17.24	19.1	0
5	16QAM	1	0	17.35	17.49	17.58		
5	16QAM	1	12	17.28	17.33	17.42		
5	16QAM	1	24	17.24	17.43	17.41	19.1	0
5	16QAM	12	0	17.21	17.36	17.42		
5	16QAM	12	7	17.15	17.29	17.20		
5	16QAM	12	13	17.13	17.34	17.35	19.1	0
5	16QAM	25	0	17.13	17.32	17.27		
5	64QAM	1	0	17.28	17.47	17.59		
5	64QAM	1	12	17.13	17.47	17.27	19.1	0
5	64QAM	1	24	17.28	17.43	17.36		
5	64QAM	12	0	17.26	17.54	17.29		
5	64QAM	12	7	17.10	17.22	17.25	19.1	0
5	64QAM	12	13	17.22	17.35	17.37		
5	64QAM	25	0	17.19	17.28	17.28		
5	256QAM	1	0	17.52	17.64	17.55	19	0.1
5	256QAM	1	12	17.37	17.51	17.34		
5	256QAM	1	24	17.20	17.45	17.43		
5	256QAM	12	0	17.29	17.62	17.56	19	0.1
5	256QAM	12	7	17.16	17.47	17.39		
5	256QAM	12	13	17.18	17.45	17.37		
5	256QAM	25	0	17.25	17.58	17.51		

Band 38 Ant5 DSI3 Simultaneous									
BW [MHz]	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	16.98	17.01	16.87	18	0	
20	QPSK	1	49	16.69	16.81	16.81			
20	QPSK	1	99	16.66	16.79	16.74			
20	QPSK	50	0	16.72	16.88	16.76	18	0	
20	QPSK	50	24	16.63	16.71	16.69			
20	QPSK	50	50	16.53	16.67	16.64			
20	QPSK	100	0	16.45	16.60	16.54	18	0	
20	16QAM	1	0	16.84	16.84	16.72			
20	16QAM	1	49	16.58	16.68	16.66			
20	16QAM	1	99	16.51	16.68	16.68	18	0	
20	16QAM	50	0	16.70	16.66	16.61			
20	16QAM	50	24	16.57	16.56	16.61			
20	16QAM	50	50	16.39	16.57	16.52	18	0	
20	16QAM	100	0	16.40	16.51	16.50			
20	64QAM	1	0	16.83	16.84	16.75			
20	64QAM	1	49	16.59	16.75	16.71	18	0	
20	64QAM	1	99	16.51	16.70	16.67			
20	64QAM	50	0	16.69	16.62	16.62			
20	64QAM	50	24	16.53	16.67	16.64	18	0	
20	64QAM	50	50	16.39	16.52	16.55			
20	64QAM	100	0	16.33	16.45	16.41			
20	256QAM	1	0	16.77	16.81	16.78	18	0	
20	256QAM	1	49	16.56	16.72	16.65			
20	256QAM	1	99	16.51	16.73	16.64			
20	256QAM	50	0	16.70	16.71	16.65	18	0	
20	256QAM	50	24	16.47	16.55	16.62			
20	256QAM	50	50	16.42	16.61	16.55			
20	256QAM	100	0	16.40	16.55	16.42			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	16.81	16.77	16.72	18	0	
15	QPSK	1	37	16.55	16.72	16.68			
15	QPSK	1	74	16.57	16.73	16.60			
15	QPSK	36	0	16.82	16.68	16.60	18	0	
15	QPSK	36	20	16.50	16.62	16.58			
15	QPSK	36	39	16.44	16.60	16.51			
15	QPSK	75	0	16.34	16.55	16.43	18	0	
15	16QAM	1	0	16.74	16.78	16.57			
15	16QAM	1	37	16.49	16.62	16.59			
15	16QAM	1	74	16.36	16.60	16.63	18	0	
15	16QAM	36	0	16.57	16.59	16.54			
15	16QAM	36	20	16.48	16.47	16.55			
15	16QAM	36	39	16.27	16.47	16.45	18	0	
15	16QAM	75	0	16.35	16.47	16.36			
15	64QAM	1	0	16.73	16.69	16.65			
15	64QAM	1	37	16.46	16.68	16.57	18	0	
15	64QAM	1	74	16.38	16.66	16.61			
15	64QAM	36	0	16.57	16.53	16.47			
15	64QAM	36	20	16.47	16.59	16.48	18	0	
15	64QAM	36	39	16.33	16.37	16.49			
15	64QAM	75	0	16.25	16.37	16.27			
15	256QAM	1	0	16.64	16.70	16.64	18	0	
15	256QAM	1	37	16.43	16.62	16.55			
15	256QAM	1	74	16.41	16.60	16.49			
15	256QAM	36	0	16.63	16.57	16.53	18	0	
15	256QAM	36	20	16.33	16.40	16.53			
15	256QAM	36	39	16.29	16.55	16.41			
15	256QAM	75	0	16.27	16.47	16.28			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	16.82	16.79	16.82	18	0	
10	QPSK	1	25	16.53	16.75	16.74			
10	QPSK	1	49	16.58	16.65	16.60			
10	QPSK	25	0	16.60	16.71	16.61	18	0	
10	QPSK	25	12	16.58	16.56	16.65			
10	QPSK	25	25	16.43	16.57	16.54			
10	QPSK	50	0	16.36	16.54	16.49	18	0	
10	16QAM	1	0	16.74	16.79	16.64			
10	16QAM	1	25	16.51	16.61	16.59			
10	16QAM	1	49	16.43	16.62	16.60	18	0	
10	16QAM	25	0	16.61	16.55	16.54			
10	16QAM	25	12	16.45	16.43	16.46			
10	16QAM	25	25	16.33	16.49	16.48	18	0	
10	16QAM	50	0	16.29	16.47	16.41			
10	64QAM	1	0	16.71	16.88	16.61			
10	64QAM	1	25	16.54	16.60	16.66	18	0	
10	64QAM	1	49	16.45	16.57	16.51			
10	64QAM	25	0	16.58	16.47	16.52			
10	64QAM	25	12	16.39	16.56	16.54	18	0	
10	64QAM	25	25	16.35	16.40	16.45			
10	64QAM	50	0	16.24	16.39	16.27			
10	256QAM	1	0	16.69	16.74	16.68	18	0	
10	256QAM	1	25	16.40	16.64	16.56			
10	256QAM	1	49	16.37	16.59	16.55			
10	256QAM	25	0	16.62	16.63	16.56	18	0	
10	256QAM	25	12	16.36	16.40	16.58			
10	256QAM	25	25	16.35	16.57	16.45			
10	256QAM	50	0	16.25	16.49	16.28			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	16.78	16.81	16.78	18	0	
5	QPSK	1	12	16.56	16.69	16.68			
5	QPSK	1	24	16.50	16.74	16.69			
5	QPSK	12	0	16.66	16.64	16.61	18	0	
5	QPSK	12	7	16.56	16.59	16.63			
5	QPSK	12	13	16.39	16.52	16.54			
5	QPSK	25	0	16.39	16.46	16.42	18	0	
5	16QAM	1	0	16.78	16.80	16.62			
5	16QAM	1	12	16.52	16.62	16.51			
5	16QAM	1	24	16.35	16.57	16.55	18	0	
5	16QAM	12	0	16.59	16.50	16.52			
5	16QAM	12	7	16.52	16.44	16.52			
5	16QAM	12	13	16.29	16.53	16.43	18	0	
5	16QAM	25	0	16.24	16.36	16.39			
5	64QAM	1	0	16.67	16.71	16.63			
5	64QAM	1	12	16.53	16.71	16.62	18	0	
5	64QAM	1	24	16.35	16.64	16.59			
5	64QAM	12	0	16.62	16.56	16.57			
5	64QAM	12	7	16.42	16.62	16.58	18	0	
5	64QAM	12	13	16.34	16.42	16.50			
5	64QAM	25	0	16.21	16.32	16.30			
5	256QAM	1	0	16.61	16.66	16.65	18	0	
5	256QAM	1	12	16.48	16.63	16.50			
5	256QAM	1	24	16.46	16.68	16.49			
5	256QAM	12	0	16.55	16.63	16.53	18	0	
5	256QAM	12	7	16.34	16.41	16.49			
5	256QAM	12	13	16.27	16.46	16.43			
5	256QAM	25	0	16.27	16.50	16.27			



Reduced Power Mode for DSI6

GSM850 Amd DS85										
	Band Average Power (dBm)			Turn-up	Frame-Average Power (dBm)			Turn-up		
TA Channel	198	199	201	Limit	198	199	201	Limit		
Frequency (MHz)	824.2	824.4	824.8	(dBm)	824.2	824.4	824.8	(dBm)		
OPBS-1 Tx Mode	32.30	32.53	32.44	33.50	23.30	23.53	23.44	24.50		
OPBS-1 Tx Mode	32.31	32.55	32.46	33.50	23.31	23.55	23.46	24.50		
OPBS-2 Tx Mode	30.32	30.55	30.75	32.25	24.72	24.95	24.75	26.25		
OPBS-3 Tx Mode	28.87	28.78	28.74	30.00	24.41	24.52	24.45	25.21		
OPBS-4 Tx Mode	29.81	29.69	29.71	27.50	23.81	23.69	23.71	24.50		
EDGE-1 Tx Mode	26.14	26.24	26.17	27.00	17.14	17.24	17.17	18.00		
EDGE-2 Tx Mode	24.04	23.70	23.00	26.00	16.04	16.70	16.00	20.00		
EDGE-3 Tx Mode	22.82	22.78	22.81	24.00	16.86	16.82	16.85	19.74		
EDGE-4 Tx Mode	20.81	20.76	20.47	22.00	17.81	17.76	17.47	19.00		
GSM1900 Amd DS85										
	Band Average Power (dBm)			Turn-up	Frame-Average Power (dBm)			Turn-up		
TA Channel	520	561	830	Limit	520	561	830	Limit		
Frequency (MHz)	1920.2	1899	1908.8	(dBm)	1920.2	1899	1908.8	(dBm)		
OPBS-1 Tx Mode	22.03	23.14	23.07	24.80	20.03	20.94	20.97	22.50		
OPBS-1 Tx Mode	20.08	20.18	20.03	20.80	20.08	20.18	20.03	20.80		
OPBS-2 Tx Mode	25.89	25.89	25.83	26.80	19.69	19.85	19.83	20.80		
OPBS-3 Tx Mode	23.79	24.72	23.75	25.00	19.44	19.89	19.49	20.74		
OPBS-4 Tx Mode	22.67	22.84	22.89	23.80	19.67	19.84	19.89	20.80		
EDGE-1 Tx Mode	16.01	16.00	16.47	17.00	16.01	16.00	16.47	16.00		
EDGE-2 Tx Mode	24.46	24.52	24.17	25.50	18.46	18.52	18.17	19.50		
EDGE-3 Tx Mode	22.44	22.44	22.50	23.50	18.18	18.18	17.74	19.24		
EDGE-4 Tx Mode	20.32	20.31	20.01	21.50	17.22	17.21	17.01	18.50		
WCDMA II Amd DS85										
	WCDMA II			Turn-up	WCDMA IV			Turn-up	WCDMA V	
TA Channel	5980	5980	5980	Limit	1812	1812	1813	Limit	4132	4132
Rx Channel	5982	5980	5988	(dBm)	1817	1818	1798	(dBm)	4137	4407
Frequency (MHz)	5982.4	5980	5987.6	(dBm)	1817.4	1817.6	1812.6	(dBm)	4137.4	4407.6
ISPP Ref W	20.14	20.12	19.93	21.00	18.25	18.25	18.20	19.50	20.86	20.14
ISPP Ref W	RMC 12 2Kbps	20.19	20.07	20.08	21.00	18.35	18.40	18.36	19.50	20.00
ISPP Ref W	HSPA Subcat-1	19.19	19.24	19.12	20.00	16.99	17.11	17.04	18.30	21.81
ISPP Ref W	HSPA Subcat-2	19.21	19.32	19.29	20.00	17.00	17.10	17.07	18.30	21.84
ISPP Ref W	HSPA Subcat-3	18.24	18.24	18.50	19.50	16.69	16.69	16.81	17.80	21.50
ISPP Ref W	HSPA Subcat-4	18.89	18.84	18.80	19.50	16.54	16.60	16.78	17.80	21.47
ISPP Ref W	DC-HSPA Subcat-3	19.37	19.24	19.04	20.00	17.17	17.24	16.97	18.30	21.96
ISPP Ref W	DC-HSPA Subcat-4	19.30	19.05	19.00	20.00	17.09	17.20	17.10	18.30	21.86
ISPP Ref W	DC-HSPA Subcat-3	18.88	18.89	18.78	19.50	16.65	16.67	16.81	17.80	21.47
ISPP Ref W	DC-HSPA Subcat-4	18.85	18.88	18.88	19.50	16.43	16.78	16.76	17.80	21.97
ISPP Ref W	HSPA Subcat-1	19.15	19.33	19.20	20.00	16.96	17.09	17.08	18.30	21.82
ISPP Ref W	HSPA Subcat-2	17.29	17.25	17.22	18.00	15.31	15.25	15.17	16.30	21.44
ISPP Ref W	HSPA Subcat-3	18.18	18.34	18.23	19.00	16.08	16.10	16.03	17.30	20.91
ISPP Ref W	HSPA Subcat-4	17.32	17.23	17.10	18.00	15.13	15.13	14.96	16.30	19.92
ISPP Ref W	HSPA Subcat-5	19.18	19.20	19.20	20.00	17.07	17.08	17.16	18.30	21.92
ISPP Ref W	HSPA Subcat-6	18.78	18.81	18.79	17.50	14.99	14.60	14.59	15.80	19.48
ISPP Ref W	HSPA Subcat-7	18.78	18.81	18.79	17.50	14.99	14.60	14.59	15.80	19.48



Band 2 Ant0 DS16												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)			
Channel												
	Frequency (MHz)			1860	1880	1900						
20	QPSK	1	0	20.12	20.24	20.21						
10	QPSK	1	49	20.04	20.06	20.04						
20	QPSK	1	99	20.09	20.05	20.20				21.2	0	
20	QPSK	50	0	20.14	20.16	19.96						
20	QPSK	24	0	20.08	20.08	20.07						
20	QPSK	50	50	19.97	19.88	19.83				21.2	0	
20	QPSK	100	0	20.07	20.09	19.98						
20	HQAM	1	49	20.09	20.10	20.05				21.2	0	
20	HQAM	1	99	20.06	20.17	19.98						
20	HQAM	50	0	19.99	20.06	20.06						
20	HQAM	50	24	19.94	19.94	19.90				21.2	0	
20	HQAM	50	50	19.98	19.93	19.90						
20	HQAM	100	0	19.93	19.98	19.99						
20	HQAM	1	0	20.00	19.95	20.01						
20	HQAM	1	49	19.92	19.98	20.02				21.2	0	
20	HQAM	50	0	19.99	19.98	19.95						
20	HQAM	50	24	19.92	19.91	19.26				21	0.2	
20	HQAM	50	50	19.97	19.95	19.94						
20	HQAM	100	0	19.41	19.92	19.90						
20	HQAM	1	49	17.22	17.28	17.32				19	2.2	
20	HQAM	1	99	17.16	17.35	17.28						
20	HQAM	50	0	17.24	17.26	17.24						
20	HQAM	50	24	17.15	17.20	17.21				19	2.2	
20	HQAM	50	50	17.11	17.19	17.21						
20	HQAM	100	0	17.17	17.18	17.17						
Channel												
	Frequency (MHz)			1867.5	1880	1915	Turn-up Int. (dB)	MPE (dB)				
15	QPSK	1	0	20.08	20.21	20.18				21.2	0	
15	QPSK	1	49	19.98	20.06	19.98						
15	QPSK	1	99	20.03	20.09	20.16						
15	QPSK	50	0	20.11	20.08	19.82						
15	QPSK	24	0	20.00	20.06	19.95						
15	QPSK	36	36	19.89	19.84	19.74				21.2	0	
15	QPSK	75	0	20.14	20.02	20.16						
15	HQAM	1	0	20.09	20.08	20.01				21.2	0	
15	HQAM	1	49	19.92	19.96	19.99						
15	HQAM	50	0	19.92	19.93	19.90						
15	HQAM	36	20	19.81	19.87	19.87				21.2	0	
15	HQAM	36	36	19.91	19.92	19.92						
15	HQAM	75	0	19.83	19.74	19.77						
15	HQAM	1	0	19.91	19.99	19.96				21.2	0	
15	HQAM	1	49	19.74	19.96	19.97						
15	HQAM	1	99	19.89	19.90	19.90						
15	HQAM	50	0	19.93	19.93	19.93						
15	HQAM	36	0	19.25	19.34	19.29						
15	HQAM	36	36	19.33	19.35	19.35						
15	HQAM	36	36	19.22	19.29	19.15				21	0.2	
15	HQAM	75	0	19.97	19.92	19.97						
15	HQAM	1	49	17.28	17.36	17.36						
15	HQAM	1	99	17.16	17.17	17.22				19	2.2	
15	HQAM	50	0	17.18	17.30	17.14						
15	HQAM	50	24	17.21	17.26	17.22						
15	HQAM	50	50	17.02	17.12	17.14				19	2.2	
15	HQAM	36	39	17.03	17.03	17.16						
15	HQAM	75	0	17.11	17.16	17.22						
Channel												
	Frequency (MHz)			1865	1880	1910	Turn-up Int. (dB)	MPE (dB)				
10	QPSK	1	0	20.07	20.16	20.16				21.2	0	
10	QPSK	1	25	20.00	19.98	19.87						
10	QPSK	1	49	20.07	20.08	20.11						
10	QPSK	25	0	20.06	20.06	20.06						
10	QPSK	25	12	19.92	19.98	19.90				21.2	0	
10	QPSK	25	25	19.96	19.87	19.79						
10	QPSK	50	0	19.93	19.93	19.93						
10	HQAM	1	0	20.05	20.12	20.15				21.2	0	
10	HQAM	1	25	20.04	20.12	20.07						
10	HQAM	25	0	19.92	19.97	19.94						
10	HQAM	25	12	19.77	19.90	19.79				21.2	0	
10	HQAM	25	25	19.81	19.82	19.82						
10	HQAM	50	0	19.88	19.79	19.78						
10	HQAM	1	0	19.91	19.91	19.92				21.2	0	
10	HQAM	1	25	19.71	19.96	19.97						
10	HQAM	1	49	19.77	19.88	19.75						
10	HQAM	25	0	19.21	19.37	19.30						
10	HQAM	25	12	19.11	19.24	19.10				21	0.2	
10	HQAM	25	25	19.21	19.24	19.10						
10	HQAM	50	0	19.32	19.41	19.30						
10	HQAM	50	25	17.38	17.30	17.20						
10	HQAM	1	25	17.14	17.16	17.18				19	2.2	
10	HQAM	1	49	17.11	17.21	17.13						
10	HQAM	50	0	17.22	17.26	17.22						
10	HQAM	25	12	17.07	17.08	17.18				19	2.2	
10	HQAM	25	25	17.09	17.08	17.06						
10	HQAM	50	0	17.11	17.17	17.02						
Channel												
	Frequency (MHz)			1862.5	1880	1917.5	Turn-up Int. (dB)	MPE (dB)				
5	QPSK	1	0	20.11	20.12	20.12				21.2	0	
5	QPSK	1	12	20.09	19.98	19.90						
5	QPSK	1	24	20.10	20.07	20.12						
5	QPSK	12	0	20.13	20.06	19.97						
5	QPSK	12	7	19.93	19.99	19.97				21.2	0	
5	QPSK	12	13	19.94	19.83	19.75						
5	QPSK	25	0	19.92	19.92	19.92						
5	HQAM	1	0	20.10	20.13	20.12				21.2	0	
5	HQAM	1	12	20.05	20.03	19.98						
5	HQAM	12	0	19.98	19.96	20.01						
5	HQAM	12	7	19.78	19.94	19.77				21.2	0	
5	HQAM	12	13	19.87	19.96	19.92						
5	HQAM	25	0	19.85	19.84	19.88						
5	HQAM	1	0	19.93	19.99	19.98				21.2	0	
5	HQAM	1	12	19.68	19.86	19.82						
5	HQAM	1	24	19.80	19.88	19.75						
5	HQAM	12	0	19.26	19.30	19.24						
5	HQAM	12	7	19.09	19.15	19.14						
5	HQAM	12	13	19.17	19.23	19.17				21	0.2	
5	HQAM	25	0	19.26	19.46	19.31						
5	HQAM	25	7	17.31	17.39	17.34						
5	HQAM	1	0	17.09	17.19	17.25				19	2.2	
5	HQAM	1	12	17.11	17.23	17.19						
5	HQAM	1	24	17.05	17.18	17.17						
5	HQAM	12	0	17.25	17.18	17.17						
5	HQAM	12	7	17.00	17.09	17.16				19	2.2	
5	HQAM	25	0	17.02	17.18	17.07						
Channel												
	Frequency (MHz)			1861.5	1880	1918.5	Turn-up Int. (dB)	MPE (dB)				
3	QPSK	1	0	20.13	20.23	20.11				21.2	0	
3	QPSK	1	8	20.02	20.06	19.89						
3	QPSK	1	14	20.04	20.07	20.09						
3	QPSK	8	0	20.08	20.09	19.97						
3	QPSK	8	4	19.93	19.94	19.87				21.2	0	
3	QPSK	8	7	19.96	19.89	19.75						
3	HQAM	1	0	20.01	20.03	19.91						
3	HQAM	1	0	20.05	20.06	20.11				21.2	0	
3	HQAM	1	8	20.02	20.09	19.97						
3	HQAM	1	14	19.99	20.13	19.91						
3	HQAM	8	0	19.90	19.90	19.90				21.2	0	
3	HQAM	8	4	19.85	19.95	19.83						
3	HQAM	8	7	19.87	19.87	19.84						
3	HQAM	15	0	19.85	19.76	19.75						
3	HQAM	1	0	19.86	19.96	19.91				21.2	0	
3	HQAM	1	8	19.72	19.92	19.80						
3	HQAM	1	14	19.84	19.88	19.74						
3	HQAM	8	0	19.27	19.32	19.32						
3	HQAM	8	4	19.13	19.19	19.22				21	0.2	
3	HQAM	8	7	19.13	19.25	19.20						
3	HQAM	15	0	17.34	17.32	17.33						
3	HQAM	1	8	17.14	17.14	17.21				19	2.2	
3	HQAM	1	14	17.04	17.09	17.17						
3	HQAM	8	0	17.23	17.27	17.22						
3	HQAM	8	4	17.09	17.05	17.05				19	2.2	
3	HQAM	8	7	17.00	17.02	17.08						
3	HQAM	15	0	17.10	17.14	17.05						
Channel												
	Frequency (MHz)											



Band 12 Ant0 DSI6												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPE (dB)				
Channel												
704 707.5 711												
10	QPSK	1	0	22.67	22.71	22.60	24	0				
10	QPSK	1	25	22.67	22.66	22.60						
10	QPSK	1	49	22.64	22.67	22.55						
10	QPSK	25	0	21.63	21.70	21.66						
10	QPSK	25	12	21.61	21.67	21.73						
10	QPSK	25	25	21.48	21.60	21.58						
10	QPSK	50	0	21.53	21.55	21.52	23	1				
10	QPSK	1	0	21.69	21.69	21.73						
10	HQAM	1	25	21.70	21.70	21.71	23	1				
10	HQAM	1	49	21.62	21.76	21.69						
10	HQAM	25	0	20.92	20.95	20.93						
10	HQAM	25	12	20.72	20.78	20.84						
10	HQAM	25	25	20.74	20.79	20.81						
10	HQAM	50	0	20.54	20.58	20.53	22	2				
10	HQAM	1	0	20.70	20.69	20.65						
10	HQAM	1	25	20.57	20.57	20.54	22	2				
10	HQAM	1	49	20.62	20.59	20.66						
10	HQAM	25	0	19.62	19.59	19.55						
10	HQAM	25	12	19.52	19.63	19.26						
10	HQAM	25	25	19.58	19.43	19.45	21	3				
10	HQAM	50	0	19.53	19.50	19.45						
10	HQAM	1	0	17.69	17.77	17.58						
10	HQAM	1	25	17.69	17.77	17.58	19	5				
10	HQAM	1	49	17.68	17.79	17.42						
10	HQAM	25	0	17.55	17.52	17.52						
10	HQAM	25	12	17.55	17.69	17.59	19	5				
10	HQAM	25	25	17.63	17.79	17.57						
10	HQAM	50	0	17.60	17.62	17.67						
Channel												
2305 2305 2315												
5	QPSK	1	0	22.67	22.66	22.64	24	0				
5	QPSK	1	12	22.60	22.68	22.61						
5	QPSK	1	24	22.39	22.55	22.42						
5	QPSK	12	0	21.61	21.68	21.61						
5	QPSK	12	7	21.64	21.62	21.61	23	1				
5	QPSK	12	13	21.33	21.53	21.46						
5	QPSK	25	0	21.45	21.57	21.48						
5	HQAM	1	0	21.55	21.71	21.69	23	1				
5	HQAM	1	12	21.67	21.66	21.67						
5	HQAM	1	24	21.62	21.62	21.63						
5	HQAM	12	0	20.78	20.90	20.63						
5	HQAM	12	7	20.70	20.71	20.47	22	2				
5	HQAM	12	13	19.48	19.55	19.25						
5	HQAM	25	0	20.40	20.63	20.59						
5	HQAM	1	0	20.58	20.60	20.52	22	2				
5	HQAM	1	12	20.65	20.69	20.68						
5	HQAM	1	24	20.59	20.55	20.53						
5	HQAM	12	0	19.52	19.43	19.37						
5	HQAM	12	7	19.48	19.51	19.25						
5	HQAM	12	13	19.51	19.44	19.35	21	3				
5	HQAM	25	0	19.45	19.45	19.35						
5	HQAM	1	0	17.55	17.62	17.52						
5	HQAM	1	12	17.53	17.74	17.52	19	5				
5	HQAM	1	24	17.51	17.63	17.26						
5	HQAM	12	0	17.62	17.62	17.62						
5	HQAM	12	7	17.51	17.52	17.49	19	5				
5	HQAM	12	13	17.69	17.69	17.50						
5	HQAM	25	0	17.61	17.58	17.57						
Channel												
2305 2305 2315												
3	QPSK	1	0	22.67	22.64	22.64	24	0				
3	QPSK	1	8	22.39	22.63	22.42						
3	QPSK	1	14	22.37	22.63	22.48						
3	QPSK	8	0	21.69	21.66	21.61						
3	QPSK	8	4	21.29	21.30	21.67	23	1				
3	QPSK	8	7	21.43	21.45	21.48						
3	QPSK	8	0	21.65	21.65	21.65						
3	HQAM	1	0	21.59	21.69	21.68	23	1				
3	HQAM	1	8	21.52	21.71	21.68						
3	HQAM	1	14	21.48	21.62	21.62						
3	HQAM	8	0	20.73	20.54	20.68						
3	HQAM	8	4	20.57	20.68	20.60	22	2				
3	HQAM	8	7	20.63	20.71	20.53						
3	HQAM	15	0	20.40	20.58	20.45						
3	HQAM	1	0	20.55	20.58	20.48	22	2				
3	HQAM	1	8	20.51	20.52	20.50						
3	HQAM	1	14	20.45	20.44	20.54						
3	HQAM	8	0	19.52	19.46	19.46						
3	HQAM	8	4	19.46	19.45	19.32						
3	HQAM	8	7	19.55	19.52	19.29	21	3				
3	HQAM	15	0	19.43	19.35	19.30						
3	HQAM	1	0	17.65	17.65	17.49						
3	HQAM	1	8	17.63	17.63	17.54	19	5				
3	HQAM	1	14	17.63	17.61	17.36						
3	HQAM	8	0	17.45	17.53	17.50						
3	HQAM	8	4	17.50	17.58	17.47	19	5				
3	HQAM	8	7	17.46	17.75	17.49						
3	HQAM	15	0	17.51	17.58	17.24						
Channel												
2305 2305 2315												
1.4	QPSK	1	0	22.34	22.45	22.44	24	0				
1.4	QPSK	1	3	22.39	22.48	22.53						
1.4	QPSK	1	5	22.39	22.52	22.35						
1.4	QPSK	3	0	22.35	22.43	22.42						
1.4	QPSK	3	1	22.30	22.35	22.37						
1.4	QPSK	3	3	22.34	22.48	22.30	23	1				
1.4	HQAM	1	0	21.47	21.70	21.62						
1.4	HQAM	1	3	21.44	21.71	21.60	23	1				
1.4	HQAM	1	5	21.37	21.55	21.33						
1.4	HQAM	1	5	21.26	21.53	21.52						
1.4	HQAM	3	0	21.41	21.62	21.40						
1.4	HQAM	3	1	21.30	21.54	21.21						
1.4	HQAM	3	3	21.44	21.47	21.38						
1.4	HQAM	6	0	20.45	20.42	20.24	22	2				
1.4	HQAM	1	0	20.58	20.79	20.55						
1.4	HQAM	1	3	20.61	20.48	20.58						
1.4	HQAM	1	5	20.82	20.75	20.58						
1.4	HQAM	3	0	20.52	20.69	20.50	22	2				
1.4	HQAM	3	1	20.79	20.49	20.52						
1.4	HQAM	3	3	20.58	20.44	20.45						
1.4	HQAM	6	0	19.52	19.88	19.41	21	3				
1.4	HQAM	1	0	17.40	17.45	17.41						
1.4	HQAM	1	3	17.27	17.50	17.30						
1.4	HQAM	1	5	17.31	17.42	17.26	19	5				
1.4	HQAM	3	0	17.28	17.44	17.43						
1.4	HQAM	3	1	17.25	17.26	17.31						
1.4	HQAM	3	3	17.22	17.17	17.26	19	5				
1.4	HQAM	6	0	17.44	17.21	17.25						

Band 13 Ant0 DSI6												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPE (dB)				
Channel												
762												
10	QPSK	1	0	22.38	22.38	22.38	24	0				
10	QPSK	1	25	22.34	22.34	22.34						
10	QPSK	1	49	22.28	22.28	22.28						
10	QPSK	25	0	21.54	21.54	21.54						
10	QPSK	25	12	21.48	21.48	21.48	23	1				
10	QPSK	25	25	21.41	21.41	21.41						
10	QPSK	50	0	21.38	21.38	21.38						
10	HQAM	1	0	21.78	21.78	21.78	23	1				
10	HQAM	1	25	21.65	21.65	21.65						
10	HQAM	1	49	21.59	21.59	21.59						
10	HQAM	25	0	20.57	20.57	20.57						
10	HQAM	25	12	20.45	20.45	20.45	22	2				
10	HQAM	25	25	20.45	20.45	20.45						
10	HQAM	50	0	20.35	20.35	20.35						
10	HQAM	1	0	20.68	20.68	20.68						
10	HQAM	1	25	20.62	20.62	20.62	22	2				
10	HQAM	1	49	20.57	20.57	20.57						
10	HQAM	25	0	19.62	19.62	19.62						
10	HQAM	25	12	19.54	19.54	19.54	21	3				
10	HQAM	25	25	19.53	19.53	19.53						
10	HQAM	50	0	19.41	19.41	19.41						
10	HQAM	1	0	17.55	17.55	17.55						
10	HQAM	1	25	17.48	17.48	17.48	19	5				
10	HQAM	1	49	17.46	17.46	17.46						
10	HQAM	25	0	17.45	17.45	17.45						
10	HQAM	25	12	17.43	17.43	17.43	19	5				
10	HQAM	25	25	17.38	17.38	17.38						
10	HQAM	50	0	17.41	17.41	17.41						
Channel												
2325 2325 2325												
5	QPSK	1	0	22.24	22.29	22.25	24	0				
5	QPSK	1	12	22.52	22.26	22.59						
5	QPSK	1	24	22.06	22.19	22.02						
5	QPSK	12	0	21.28	21.46	21.38						
5	QPSK	12	7	21.30	21.41	21.26	23	1				
5	QPSK	12	13	21.26	21.37	21.33						
5	QPSK	25	0	21.11	21.30	21.14						
5	HQAM	1	0	21.67	21.72	21.68	23	1				
5	HQAM	1	12	21.36	21.49	21.46						
5	HQAM	1	24	21.25	21.41	21.24						
5	HQAM	12										



Band 4 Ant1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MFR (dB)
				Ch./Freq.	Ch./Freq.	Ch./Freq.	Ch./Freq.	(dB)	(dB)
Channel									
				1720	1732	1744			
20	QPSK	1	0	22.04	22.16	22.28			
20	QPSK	1	49	21.84	21.96	22.08			
20	QPSK	1	99	21.64	21.76	21.88	23.2	0	
20	QPSK	50	0	21.64	21.76	21.88			
20	QPSK	24	24	22.04	22.16	22.28			
20	QPSK	50	50	21.84	21.96	22.08	23	0.2	
20	QPSK	100	0	21.72	21.84	21.96			
20	HQAM	1	49	21.93	22.04	22.14	23	0.2	
20	HQAM	1	99	21.84	21.96	22.08			
20	HQAM	50	0	20.91	21.03	21.15			
20	HQAM	50	24	20.82	20.95	21.07	22	1.2	
20	HQAM	50	50	20.81	20.94	21.07			
20	HQAM	100	0	20.85	20.97	21.09			
20	HQAM	1	0	21.01	21.07	21.13			
20	HQAM	1	49	20.86	20.92	20.97	22	1.2	
20	HQAM	1	99	20.97	21.02	21.07			
20	HQAM	50	0	19.95	20.04	20.13			
20	HQAM	50	24	19.86	19.95	20.04	21	2.2	
20	HQAM	50	50	19.87	19.95	20.04			
20	HQAM	100	0	20.18	20.32	20.46			
20	HQAM	1	49	17.72	17.78	17.84	19	4.2	
20	HQAM	1	99	17.48	17.57	17.65			
20	HQAM	50	0	19.87	19.95	20.04			
20	HQAM	50	24	17.38	17.52	17.65	19	4.2	
20	HQAM	50	50	17.48	17.63	17.78			
20	HQAM	100	0	17.55	17.70	17.85			
Channel									
				2005	2017	2029			
15	QPSK	1	0	17.17	17.32	17.47	Turn-up (dB)	MFR (dB)	
15	QPSK	1	0	21.86	22.08	22.27	(dB)	(dB)	
15	QPSK	1	49	21.81	21.93	22.05	23.2	0	
15	QPSK	1	74	21.81	21.96	22.10			
15	QPSK	36	0	21.86	22.02	22.18			
15	QPSK	20	20	21.89	21.98	22.07			
15	QPSK	36	36	21.92	22.03	22.14	23	0.2	
15	QPSK	75	0	21.67	21.78	21.89			
15	HQAM	1	49	21.04	21.20	21.36	23	0.2	
15	HQAM	1	97	21.89	21.98	22.07			
15	HQAM	1	49	20.77	20.91	21.05			
15	HQAM	36	20	20.70	20.80	20.79	22	1.2	
15	HQAM	36	20	20.70	20.80	20.79			
15	HQAM	75	0	20.73	20.81	20.88			
15	HQAM	1	0	20.88	21.01	21.14	22	1.2	
15	HQAM	1	49	20.76	20.85	20.94			
15	HQAM	1	74	20.76	20.85	20.93			
15	HQAM	36	0	19.81	19.87	19.81			
15	HQAM	36	20	19.85	19.99	20.13			
15	HQAM	36	36	19.87	19.94	19.95	21	2.2	
15	HQAM	75	0	20.50	20.24	20.09			
15	HQAM	1	49	17.56	17.68	17.80			
15	HQAM	1	97	17.58	17.67	17.75	19	4.2	
15	HQAM	1	74	17.38	17.47	17.55			
15	HQAM	50	0	17.44	17.55	17.66			
15	HQAM	50	24	17.28	17.42	17.55	19	4.2	
15	HQAM	50	50	17.49	17.63	17.76			
15	HQAM	75	0	17.15	17.42	17.69			
Channel									
				1715	1727	1739	Turn-up (dB)	MFR (dB)	
10	QPSK	1	0	21.80	22.00	22.20	(dB)	(dB)	
10	QPSK	1	25	21.68	21.97	22.27	23.2	0	
10	QPSK	1	49	21.84	21.93	22.04			
10	QPSK	12	0	21.84	21.93	22.04			
10	QPSK	25	12	21.84	21.79	21.84	23	0.2	
10	QPSK	25	25	21.85	21.82	21.81			
10	HQAM	1	49	21.04	21.20	21.36			
10	HQAM	1	0	21.84	22.03	22.22	23	0.2	
10	HQAM	25	0	20.89	20.97	21.05			
10	HQAM	25	12	20.87	20.85	20.79	22	1.2	
10	HQAM	25	25	20.76	20.72	20.67			
10	HQAM	50	0	20.71	20.85	20.99			
10	HQAM	1	49	20.76	20.88	21.00	22	1.2	
10	HQAM	1	99	20.89	20.97	21.05			
10	HQAM	25	0	19.89	19.97	20.05			
10	HQAM	25	12	19.85	19.98	20.11	21	2.2	
10	HQAM	25	25	19.81	19.88	19.79			
10	HQAM	50	0	20.11	20.22	20.33			
10	HQAM	1	49	17.65	17.77	17.88			
10	HQAM	1	97	17.68	17.73	17.78	19	4.2	
10	HQAM	1	74	17.42	17.49	17.53			
10	HQAM	50	0	17.52	17.61	17.69			
10	HQAM	50	12	17.29	17.42	17.55	19	4.2	
10	HQAM	50	25	17.35	17.49	17.63			
10	HQAM	50	0	17.58	17.62	17.66			
Channel									
				19975	20175	20375	Turn-up (dB)	MFR (dB)	
5	QPSK	1	0	17.12	17.22	17.32	(dB)	(dB)	
5	QPSK	1	24	21.89	21.91	21.90	23.2	0	
5	QPSK	1	24	21.88	22.02	22.16			
5	QPSK	12	0	21.84	21.98	22.12			
5	QPSK	12	7	21.90	21.80	21.70	23	0.2	
5	QPSK	25	0	21.62	21.88	22.14			
5	HQAM	1	0	22.01	22.06	22.10			
5	HQAM	1	12	21.91	22.04	22.17	23	0.2	
5	HQAM	1	24	21.87	21.98	22.09			
5	HQAM	12	0	20.82	20.89	20.77			
5	HQAM	12	7	20.69	20.80	20.73	22	1.2	
5	HQAM	12	14	20.69	20.79	20.69			
5	HQAM	25	0	20.71	20.81	20.70			
5	HQAM	1	0	20.90	20.93	20.96	22	1.2	
5	HQAM	1	12	20.77	20.89	21.01			
5	HQAM	1	24	20.80	20.85	20.88			
5	HQAM	12	0	19.82	19.92	19.87			
5	HQAM	12	7	19.83	19.95	19.85	21	2.2	
5	HQAM	12	14	19.77	19.89	19.78			
5	HQAM	25	0	20.12	20.21	20.13			
5	HQAM	1	0	17.83	17.88	17.83			
5	HQAM	1	12	17.62	17.68	17.58	19	4.2	
5	HQAM	1	24	17.40	17.44	17.30			
5	HQAM	12	0	17.48	17.52	17.48			
5	HQAM	12	7	17.40	17.42	17.31	19	4.2	
5	HQAM	12	14	17.33	17.34	17.48			
5	HQAM	25	0	17.55	17.64	17.48			
Channel									
				19967	20175	20393	Turn-up (dB)	MFR (dB)	
1.4	QPSK	1	0	21.99	22.15	22.29	(dB)	(dB)	
1.4	QPSK	1	3	21.85	21.91	21.96	23.2	0	
1.4	QPSK	1	5	21.83	21.93	21.85			
1.4	QPSK	3	0	21.89	21.97	22.02			
1.4	QPSK	3	1	21.86	21.96	21.91	23	0.2	
1.4	QPSK	3	3	21.92	22.03	22.09			
1.4	QPSK	8	0	21.88	21.90	21.78			
1.4	QPSK	15	0	21.89	21.71	21.66			
1.4	HQAM	1	0	21.87	22.03	22.03	23	0.2	
1.4	HQAM	1	8	21.89	21.97	21.85			
1.4	HQAM	1	14	21.77	21.96	21.84			
1.4	HQAM	3	0	20.79	20.94	20.75			
1.4	HQAM	3	1	20.74	20.89	20.80	22	1.2	
1.4	HQAM	3	7	20.69	20.77	20.66			
1.4	HQAM	15	0	20.71	20.78	20.77			
1.4	HQAM	1	0	20.81	20.84	20.88	22	1.2	
1.4	HQAM	1	8	20.72	20.81	20.74			
1.4	HQAM	1	14	20.76	20.84	20.86			
1.4	HQAM	3	0	19.89	19.88	19.82			
1.4	HQAM	3	4	19.87	19.92	19.83	21	2.2	
1.4	HQAM	3	7	19.72	19.91	19.82			
1.4	HQAM	15	0	20.08	20.22	20.49			
1.4	HQAM	1	0	17.68	17.75	17.65			
1.4	HQAM	1	8	17.65	17.69	17.55	19	4.2	
1.4	HQAM	1	14	17.43	17.45	17.48			
1.4	HQAM	3	0	17.43	17.54	17.46			
1.4	HQAM	3	7	17.33	17.43	17.48	19	4.2	
1.4	HQAM	15	0	17.57	17.66	17.52			
Channel									
				19967	20175	20393	Turn-up (dB)	MFR (dB)	
1.4	QPSK	1	0	21.99	22.15	22.29	(dB)	(dB)	
1.4	QPSK	1	3	21.81	21.90	21.89	23.2	0	
1.4	QPSK	1	5	21.83	21.93	21.89			
1.4	QPSK	3	0	21.89	21.97	22.02			
1.4	QPSK	3	1	21.86	21.96	21.91	23	0.2	
1.4	QPSK	3	3	21.92	22.03	22.09			
1.4	HQAM	1	0	21.89	22.03	22.17			
1.4	HQAM	1	8	21.89	21.82	21.87	23	0.2	
1.4	HQAM	1	14	21.77	21.96	21.84			
1.4	HQAM	3	0	20.79	20.94	20.75			
1.4	HQAM	3	1	20.74	20.89	20.80	22	1.2	
1.4	HQAM	3	7	20.69	20.77	20.66			
1.4	HQAM	15	0	20.71	20.78	20.77			
1.4	HQAM	1	0	20.81	20.84	20.88	22	1.2	
1.4	HQAM	1	8	20.72	20.81	20.74			
1.4	HQAM	1	14	20.76	20.84	20.86			
1.4	HQAM	3	0	19.89	19.88	19.82			
1.4	HQAM	3	4	19.87	19.92	19.83	21	2.2	
1.4	HQAM	3	7	19.72	19.91	19.82			
1.4	HQAM	15	0	20.08	20.22	20.49			
1.4	HQAM	1							



Band 38 Ant1 DS16											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.13	22.21	22.04	23.3	0			
20	QPSK	1	49	22.12	22.18	22.15					
20	QPSK	50	0	21.21	21.26	21.20					
20	QPSK	50	24	21.01	21.15	21.10	23	0.3			
20	IQAM	1	0	21.21	21.36	21.28	23	0.3			
20	IQAM	1	49	21.20	21.23	21.13					
20	IQAM	1	99	21.12	21.15	21.14					
20	IQAM	50	0	20.94	20.94	20.96	22	1.3			
20	IQAM	50	24	20.90	20.47	20.33					
20	IQAM	100	0	20.39	20.41	20.46					
20	IQAM	100	24	20.35	20.17	20.13					
20	IQAM	1	49	20.02	20.13	20.01	22	1.3			
20	IQAM	1	99	20.04	20.15	20.08					
20	IQAM	50	0	19.43	19.58	19.54					
20	IQAM	50	24	19.38	19.52	19.43					
20	IQAM	50	99	19.42	19.02	19.45					
20	IQAM	100	0	19.41	19.48	19.37					
20	SSBAM	1	0	17.37	17.42	17.40					
20	SSBAM	1	49	17.41	17.31	17.36	19	4.3			
20	SSBAM	1	99	17.23	17.24	17.18					
20	SSBAM	50	0	17.26	17.35	17.60					
20	SSBAM	50	24	17.20	17.35	17.18	19	4.3			
20	SSBAM	50	99	17.22	17.28	17.18					
20	SSBAM	100	0	17.25	17.29	17.17					
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.17	22.09	22.12	23.3	0			
15	QPSK	1	37	22.10	22.11	22.09					
15	QPSK	1	74	22.06	22.13	22.09					
15	QPSK	36	0	21.62	21.13	21.12	23	0.3			
15	QPSK	36	20	21.02	21.06	21.07					
15	QPSK	75	0	21.11	21.08	21.08					
15	QPSK	75	0	21.09	21.30	21.20					
15	IQAM	1	0	21.10	21.24	21.18	23	0.3			
15	IQAM	1	37	21.08	21.11	21.07					
15	IQAM	1	74	21.03	21.13	21.04					
15	IQAM	36	0	20.47	20.43	20.38	22	1.3			
15	IQAM	36	20	20.29	20.34	20.26					
15	IQAM	36	99	20.23	20.35	20.22					
15	IQAM	75	0	20.28	20.29	20.34					
15	IQAM	75	0	20.22	20.07	20.07					
15	IQAM	1	37	20.03	20.09	20.01	22	1.3			
15	IQAM	1	74	20.08	20.11	20.06					
15	IQAM	36	0	19.39	19.43	19.43					
15	IQAM	36	20	19.31	19.37	19.37	21	2.3			
15	IQAM	36	99	19.33	19.44	19.38					
15	IQAM	75	0	19.32	19.40	19.29					
15	SSBAM	1	0	17.29	17.28	17.28	19	4.3			
15	SSBAM	1	37	17.17	17.21	17.03					
15	SSBAM	1	74	17.08	17.18	17.00					
15	SSBAM	36	0	17.22	17.30	17.31	19	4.3			
15	SSBAM	36	20	17.08	17.02	17.02					
15	SSBAM	36	99	17.13	17.14	17.08					
15	SSBAM	75	0	17.17	17.19	17.08					
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.19	22.11	22.13	23.3	0			
10	QPSK	1	25	22.10	22.12	22.13					
10	QPSK	1	49	22.08	22.14	22.02					
10	QPSK	25	0	21.14	21.30	21.16	23	0.3			
10	QPSK	25	12	21.06	21.08	21.07					
10	QPSK	25	25	21.01	21.06	21.00					
10	IQAM	1	0	21.08	21.36	21.18	23	0.3			
10	IQAM	1	0	21.10	21.30	21.16					
10	IQAM	1	25	21.06	21.12	21.04					
10	IQAM	1	49	21.01	21.07	21.00					
10	IQAM	25	0	20.47	20.44	20.39	22	1.3			
10	IQAM	25	12	20.24	20.36	20.28					
10	IQAM	25	25	20.20	20.40	20.17					
10	IQAM	50	0	20.32	20.33	20.38	22	1.3			
10	IQAM	50	0	20.27	20.35	20.37					
10	IQAM	1	25	20.28	20.33	20.23					
10	IQAM	1	49	20.24	20.31	20.21	22	1.3			
10	IQAM	25	0	19.33	19.48	19.45					
10	IQAM	25	12	19.28	19.39	19.35					
10	IQAM	25	25	19.28	19.41	19.33					
10	IQAM	50	0	19.39	19.38	19.31					
10	SSBAM	1	0	17.29	17.35	17.27					
10	SSBAM	1	25	17.10	17.20	17.10	19	4.3			
10	SSBAM	1	49	17.05	17.15	17.03					
10	SSBAM	25	0	17.28	17.29	17.27					
10	SSBAM	25	12	17.09	17.20	17.04					
10	SSBAM	25	25	17.14	17.23	17.12	19	4.3			
10	SSBAM	50	0	17.18	17.21	17.03					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.06	22.14	22.07	23.3	0			
5	QPSK	1	19	22.02	22.11	22.00					
5	QPSK	1	24	22.04	22.09	22.08					
5	QPSK	12	0	21.07	21.11	21.07	23	0.3			
5	QPSK	12	7	21.05	21.00	21.06					
5	QPSK	12	19	21.07	21.13	21.09					
5	QPSK	25	0	21.02	21.24	21.11					
5	QPSK	25	0	21.01	21.15	21.02					
5	IQAM	1	12	21.03	21.17	21.15	23	0.3			
5	IQAM	1	24	21.08	21.16	21.00					
5	IQAM	12	0	20.40	20.29	20.26	22	1.3			
5	IQAM	12	7	20.39	20.27	20.20					
5	IQAM	12	19	20.37	20.29	20.08					
5	IQAM	25	0	20.25	20.21	20.22					
5	IQAM	1	0	20.18	20.21	20.18	22	1.3			
5	IQAM	1	12	20.21	20.24	20.15					
5	IQAM	1	24	20.19	20.21	20.07					
5	IQAM	12	0	19.24	19.35	19.27	21	2.3			
5	IQAM	12	7	19.20	19.34	19.21					
5	IQAM	12	19	19.20	19.30	19.22					
5	SSBAM	1	0	17.24	17.29	17.19					
5	SSBAM	1	12	17.03	17.12	17.02	19	4.3			
5	SSBAM	1	24	17.03	17.07	17.05					
5	SSBAM	12	0	17.18	17.21	17.20					
5	SSBAM	12	7	17.13	17.17	17.12					
5	SSBAM	12	19	17.06	17.18	17.08	19	4.3			
5	SSBAM	25	0	17.12	17.15	17.11					

Band 41 Ant1 DS16											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.15	22.24	22.15	23.3	0			
20	QPSK	1	49	22.02	22.13	22.21					
20	QPSK	50	0	21.84	21.50	21.97					
20	QPSK	50	24	21.51	21.52	21.86	23	0.3			
20	IQAM	1	0	21.82	21.88	21.85	23	0.3			
20	IQAM	100	0	21.82	21.81	21.88					
20	IQAM	1	0	21.83	21.87	21.78	23	0.3			
20	IQAM	1	49	21.87	21.82	21.87					
20	IQAM	1	99	21.86	21.88	21.85					
20	IQAM	50	0	20.48	20.53	20.51	22	1.3			
20	IQAM	50	24	20.34	20.42	20.38					
20	IQAM	50	99	20.39	20.30	20.31					
20	IQAM	100	0	20.44	20.52	20.47					
20	IQAM	100	24	20.35	20.13	20.23					
20	IQAM	1	49	20.13	20.03	20.13	22	1.3			
20	IQAM	1	99	20.14	20.02	20.05					
20	IQAM	50	0	19.47	19.51	19.52					
20	IQAM	50	24	19.37	19.37	19.38	21	2.3			
20	IQAM	50	99	19.39	19.40	19.41					
20	IQAM	100	0	19.82	19.84	19.86					
20	SSBAM	1	0	17.19	17.22	17.30	19	4.3			
20	SSBAM	1	49	17.05	17.14	17.18					



Band 42 Part 27Q Ant2 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42990	42990		
Frequency (MHz)				3440	3560	3560		
20	QPSK	1	0	21.04	22.04	21.86	22.6	0
20	QPSK	1	48	21.30	22.13	21.78		
20	QPSK	1	99	21.89	22.07	21.58		
20	QPSK	50	0	21.89	22.07	21.69		
20	QPSK	50	24	21.63	21.99	21.71	22.6	0
20	QPSK	50	60	21.84	22.05	21.75		
20	QPSK	100	0	21.81	21.94	21.83		
20	HQAM	1	0	21.74	22.05	21.65		
20	HQAM	1	48	21.77	22.12	21.65	22.6	0
20	HQAM	1	99	21.84	22.08	21.72		
20	HQAM	50	0	20.51	20.64	20.47		
20	HQAM	50	24	20.66	20.54	20.41	22	0.6
20	HQAM	50	50	20.39	20.50	20.34		
20	HQAM	100	0	20.24	20.25	20.24		
20	HQAM	100	0	20.10	20.17	20.15		
20	HQAM	1	48	20.08	20.09	20.17	22	0.6
20	HQAM	1	99	20.02	20.13	20.12		
20	HQAM	50	0	19.33	19.35	19.37		
20	HQAM	50	24	19.20	19.22	19.26		
20	HQAM	50	50	19.23	19.25	19.25	21	1.6
20	HQAM	100	0	19.24	19.29	19.30		
20	SBSGAM	1	0	17.50	17.71	17.38		
20	SBSGAM	1	48	17.37	17.65	17.37	19	3.6
20	SBSGAM	1	99	17.43	17.63	17.41		
20	SBSGAM	36	0	17.69	17.69	17.37		
20	SBSGAM	50	24	17.40	17.64	17.32	19	3.6
20	SBSGAM	50	50	17.38	17.64	17.40		
20	SBSGAM	100	0	17.51	17.70	17.35		
Channel				42165	42560	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	21.14	21.29	21.21	22.6	0
15	QPSK	1	37	21.77	22.03	21.71		
15	QPSK	1	74	21.63	21.94	21.65		
15	QPSK	36	0	21.79	21.62	21.63	22.6	0
15	QPSK	36	20	21.58	21.51	21.58		
15	QPSK	75	0	21.78	21.84	21.62		
15	QPSK	75	0	21.68	21.89	21.49		
15	HQAM	1	0	21.67	21.98	21.52		
15	HQAM	1	37	21.71	21.67	21.61	22.6	0
15	HQAM	1	74	21.79	21.54	21.65		
15	HQAM	36	0	20.44	20.56	20.35		
15	HQAM	36	39	20.38	20.48	20.28	22	0.6
15	HQAM	36	39	20.30	20.47	20.26		
15	HQAM	75	0	20.15	20.20	20.27		
15	HQAM	1	0	20.03	20.03	20.12		
15	HQAM	1	37	20.97	20.11	20.08	22	0.6
15	HQAM	1	74	20.16	20.06	20.05		
15	HQAM	36	0	19.22	19.23	19.25		
15	HQAM	36	20	19.08	19.14	19.16	21	1.6
15	HQAM	36	39	19.14	19.17	19.14		
15	HQAM	75	0	19.14	19.21	19.22		
15	SBSGAM	1	0	17.37	17.61	17.23	19	3.6
15	SBSGAM	1	37	17.09	17.60	17.23		
15	SBSGAM	1	74	17.34	17.52	17.28		
15	SBSGAM	36	0	17.48	17.60	17.27	19	3.6
15	SBSGAM	36	20	17.31	17.55	17.26		
15	SBSGAM	36	39	17.25	17.52	17.35		
15	SBSGAM	75	0	17.40	17.56	17.48		
Channel				42410	42560	42660		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	21.79	22.84	21.72	22.6	0
10	QPSK	1	25	21.75	22.09	21.64		
10	QPSK	1	49	21.74	21.98	21.78		
10	QPSK	36	0	21.75	22.09	21.58	22.6	0
10	QPSK	25	12	21.57	21.56	21.65		
10	QPSK	25	25	21.69	21.97	21.69		
10	QPSK	50	0	21.67	21.62	21.52		
10	HQAM	1	0	21.82	21.99	21.59	22.6	0
10	HQAM	1	25	21.69	22.04	21.96		
10	HQAM	1	49	21.72	21.97	21.62		
10	HQAM	25	0	20.36	20.55	20.38		
10	HQAM	25	12	20.52	20.44	20.35	22	0.6
10	HQAM	25	25	20.31	20.47	20.22		
10	HQAM	50	0	20.10	20.18	20.20		
10	HQAM	1	0	20.00	20.00	20.08		
10	HQAM	1	25	20.10	20.00	20.04	22	0.6
10	HQAM	25	0	19.21	19.29	19.31		
10	HQAM	25	12	19.13	19.12	19.17	21	1.6
10	HQAM	25	25	19.14	19.15	19.19		
10	HQAM	50	0	19.12	19.23	19.22		
10	SBSGAM	1	0	17.45	17.67	17.30		
10	SBSGAM	1	25	17.28	17.66	17.27	19	3.6
10	SBSGAM	1	49	17.29	17.57	17.35		
10	SBSGAM	25	0	17.53	17.63	17.26		
10	SBSGAM	25	12	17.38	17.57	17.26	19	3.6
10	SBSGAM	25	25	17.29	17.45	17.25		
10	SBSGAM	50	0	17.41	17.62	17.22		
Channel				42415	42560	43015		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	21.67	22.04	21.78	22.6	0
5	QPSK	1	19	21.75	22.05	21.65		
5	QPSK	1	24	21.78	21.93	21.65		
5	QPSK	12	0	21.72	22.00	21.63	22.6	0
5	QPSK	12	7	21.50	21.52	21.66		
5	QPSK	12	13	21.69	21.94	21.64		
5	QPSK	25	0	21.67	21.83	21.53		
5	HQAM	1	0	21.67	21.98	21.65	22.6	0
5	HQAM	1	12	21.67	22.05	21.60		
5	HQAM	1	24	21.80	21.95	21.50		
5	HQAM	12	0	20.43	20.50	20.33		
5	HQAM	12	7	20.40	20.43	20.30	22	0.6
5	HQAM	12	13	20.14	20.47	20.19		
5	HQAM	25	0	20.11	20.17	20.25		
5	HQAM	1	0	20.03	20.06	20.12	22	0.6
5	HQAM	1	12	20.08	20.07	20.07		
5	HQAM	1	24	20.12	20.11	20.02		
5	HQAM	12	0	19.22	19.23	19.29		
5	HQAM	12	7	19.09	19.15	19.15	21	1.6
5	HQAM	12	13	19.16	19.14	19.12		
5	HQAM	25	0	19.14	19.10	19.16		
5	SBSGAM	1	0	17.41	17.60	17.31		
5	SBSGAM	1	12	17.31	17.51	17.26	19	3.6
5	SBSGAM	1	24	17.38	17.55	17.31		
5	SBSGAM	12	0	17.49	17.54	17.24		
5	SBSGAM	12	7	17.28	17.40	17.18	19	3.6
5	SBSGAM	12	13	17.27	17.55	17.31		
5	SBSGAM	25	0	17.45	17.59	17.27		



SPORTUN LTD.

Band 7 Ant5 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPE (dB)
Channel								
Frequency (MHz)				2500	2535	2560		
20	QPSK	1	0	18.63	18.63	18.60		
20	QPSK	1	49	18.49	18.51	18.61	19.9	0
20	QPSK	1	99	18.48	18.63	18.63		
20	QPSK	50	0	18.43	18.73	18.60		
20	QPSK	50	24	18.29	18.60	18.48		
20	QPSK	50	50	18.42	18.48	18.48	19.9	0
20	QPSK	100	0	18.31	18.69	18.48		
20	QPSK	1	0	18.50	18.58	18.59		
20	HQAM	1	49	18.30	18.44	18.47	19.9	0
20	HQAM	1	99	18.38	18.62	18.49		
20	HQAM	50	0	18.37	18.54	18.51		
20	HQAM	50	24	18.19	18.32	18.38		
20	HQAM	50	50	18.26	18.44	18.48		
20	HQAM	100	0	18.27	18.39	18.39	19.9	0
20	HQAM	1	0	18.46	18.66	18.64		
20	HQAM	1	49	18.20	18.65	18.39		
20	HQAM	1	99	18.40	18.53	18.49		
20	HQAM	50	0	18.30	18.59	18.38		
20	HQAM	50	25	18.16	18.41	18.24		
20	HQAM	50	50	18.26	18.47	18.38		
20	HQAM	100	0	18.26	18.40	18.37	19.9	0
20	ZSSBAM	1	0	17.46	17.67	17.66		
20	ZSSBAM	1	49	17.27	17.61	17.52	19	0.9
20	ZSSBAM	1	99	17.25	17.56	17.44		
20	ZSSBAM	50	0	17.43	17.72	17.67		
20	ZSSBAM	50	24	17.32	17.69	17.49	19	0.9
20	ZSSBAM	50	50	17.31	17.63	17.50		
20	ZSSBAM	100	0	17.25	17.44	17.35		
Channel								
Frequency (MHz)				25025	25375	25725		
15	QPSK	1	0	18.50	18.52	18.72		
15	QPSK	1	37	18.34	18.68	18.56	19.9	0
15	QPSK	1	74	18.39	18.47	18.56		
15	QPSK	36	0	18.20	18.62	18.56		
15	QPSK	36	20	18.20	18.56	18.56	19.9	0
15	QPSK	36	36	18.28	18.34	18.36		
15	QPSK	75	0	18.27	18.45	18.33		
15	HQAM	1	0	18.35	18.44	18.26		
15	HQAM	1	37	18.16	18.32	18.36	19.9	0
15	HQAM	1	74	18.25	18.40	18.43		
15	HQAM	36	0	18.32	18.45	18.43		
15	HQAM	36	20	18.13	18.18	18.27	19.9	0
15	HQAM	36	36	18.13	18.36	18.27		
15	HQAM	75	0	18.13	18.31	18.28		
15	HQAM	1	0	18.37	18.51	18.50		
15	HQAM	1	37	18.13	18.59	18.28	19.9	0
15	HQAM	1	74	18.35	18.37	18.41		
15	HQAM	36	0	18.24	18.52	18.24		
15	HQAM	36	20	18.08	18.33	18.15		
15	HQAM	36	36	18.13	18.39	18.23	19.9	0
15	HQAM	75	0	18.15	18.25	18.30		
15	ZSSBAM	1	0	17.60	17.73	17.66		
15	ZSSBAM	1	37	17.35	17.62	17.52	19	0.9
15	ZSSBAM	1	74	17.30	17.59	17.50		
15	ZSSBAM	36	0	17.47	17.74	17.62		
15	ZSSBAM	36	20	17.29	17.57	17.52	19	0.9
15	ZSSBAM	36	36	17.27	17.55	17.48		
15	ZSSBAM	75	0	17.26	17.57	17.46		
Channel								
Frequency (MHz)				25050	25350	25650		
10	QPSK	1	0	18.59	18.61	18.68		
10	QPSK	1	25	18.38	18.67	18.50	19.9	0
10	QPSK	1	49	18.41	18.50	18.56		
10	QPSK	25	0	18.31	18.58	18.48		
10	QPSK	25	12	18.24	18.48	18.41	19.9	0
10	QPSK	25	25	18.38	18.33	18.38		
10	QPSK	50	0	18.23	18.38	18.35		
10	HQAM	1	0	18.37	18.46	18.51		
10	HQAM	1	25	18.14	18.35	18.42	19.9	0
10	HQAM	1	49	18.20	18.40	18.36		
10	HQAM	25	0	18.28	18.41	18.37		
10	HQAM	25	12	18.08	18.20	18.27	19.9	0
10	HQAM	25	25	18.14	18.30	18.44		
10	HQAM	50	0	18.20	18.27	18.28		
10	HQAM	1	0	18.38	18.59	18.67		
10	HQAM	1	25	18.15	18.51	18.33	19.9	0
10	HQAM	1	49	18.35	18.40	18.35		
10	HQAM	25	0	18.25	18.44	18.33		
10	HQAM	25	12	18.04	18.28	18.13		
10	HQAM	25	25	18.15	18.35	18.34	19.9	0
10	HQAM	50	0	18.14	18.24	18.31		
10	ZSSBAM	1	0	17.27	17.63	17.50		
10	ZSSBAM	1	25	17.21	17.53	17.47	19	0.9
10	ZSSBAM	1	49	17.14	17.42	17.37		
10	ZSSBAM	25	0	17.42	17.67	17.52		
10	ZSSBAM	25	12	17.27	17.51	17.47	19	0.9
10	ZSSBAM	25	25	17.13	17.44	17.34		
10	ZSSBAM	50	0	17.43	17.67	17.49		
Channel								
Frequency (MHz)				25075	25300	25425		
5	QPSK	1	0	18.53	18.55	18.62		
5	QPSK	1	12	18.43	18.70	18.46	19.9	0
5	QPSK	1	24	18.32	18.54	18.51		
5	QPSK	13	0	18.23	18.59	18.47		
5	QPSK	12	7	18.23	18.51	18.30	19.9	0
5	QPSK	25	0	18.26	18.41	18.41		
5	QPSK	25	0	18.26	18.35	18.33		
5	HQAM	1	0	18.45	18.51	18.51		
5	HQAM	1	12	18.18	18.40	18.34	19.9	0
5	HQAM	1	24	18.33	18.57	18.43		
5	HQAM	12	0	18.22	18.47	18.42		
5	HQAM	12	7	18.05	18.22	18.26	19.9	0
5	HQAM	12	13	18.11	18.32	18.34		
5	HQAM	25	0	18.18	18.25	18.24		
5	HQAM	1	0	18.42	18.55	18.56		
5	HQAM	1	12	18.08	18.37	18.28	19.9	0
5	HQAM	1	24	18.27	18.48	18.32		
5	HQAM	12	0	18.25	18.44	18.24		
5	HQAM	12	7	18.12	18.27	18.29	19.9	0
5	HQAM	12	13	18.22	18.37	18.34		
5	HQAM	25	0	18.17	18.27	18.22		
5	ZSSBAM	1	0	17.62	17.84	17.65		
5	ZSSBAM	1	12	17.37	17.61	17.34	19	0.9
5	ZSSBAM	1	24	17.20	17.45	17.43		
5	ZSSBAM	12	0	17.59	17.65	17.65		
5	ZSSBAM	12	7	17.56	17.47	17.39	19	0.9
5	ZSSBAM	12	13	17.36	17.45	17.37		
5	ZSSBAM	25	0	17.25	17.58	17.51		



Band 38 Ant5 DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mide Ch / Freq.	Power Hup Ch / Freq.	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.51	20.07	20.33	21.5	0		
20	QPSK	1	49	20.15	20.32	20.28				
20	QPSK	1	99	20.16	20.32	20.20				
20	QPSK	50	0	20.20	20.36	20.29	21.5	0		
20	QPSK	50	24	20.12	20.15	20.18				
20	QPSK	50	50	20.01	20.22	20.17				
20	QPSK	100	0	19.94	20.04	20.02	21.5	0		
20	16QAM	1	0	20.39	20.22	20.30				
20	16QAM	1	49	20.07	20.17	20.21				
20	16QAM	1	99	20.06	20.19	20.19	21.5	0		
20	16QAM	50	0	20.22	20.13	20.08				
20	16QAM	50	24	20.07	20.09	20.16				
20	16QAM	50	50	19.92	20.06	19.98	21.5	0		
20	16QAM	100	0	19.92	19.97	20.05				
20	16QAM	1	0	20.34	20.32	20.20				
20	16QAM	1	49	20.13	20.22	20.21	21.5	0		
20	16QAM	1	99	20.06	20.23	20.16				
20	16QAM	50	0	19.75	19.89	19.75				
20	16QAM	50	24	19.92	19.77	19.92	21	0.5		
20	16QAM	50	50	19.77	19.85	19.71				
20	16QAM	100	0	19.97	19.98	19.84				
20	256QAM	1	0	17.56	17.66	17.61	19	2.5		
20	256QAM	1	49	17.71	17.84	17.77				
20	256QAM	1	99	17.70	17.85	17.78				
20	256QAM	50	0	17.65	17.85	17.86	19	2.5		
20	256QAM	50	24	17.78	17.90	17.81				
20	256QAM	50	50	17.68	17.88	17.77				
20	256QAM	100	0	17.65	17.88	17.75	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.28	20.48	20.20	21.5	0		
15	QPSK	1	37	20.08	20.19	20.13				
15	QPSK	1	74	20.07	20.20	20.10				
15	QPSK	96	0	20.13	20.30	20.18	21.5	0		
15	QPSK	96	20	20.10	20.11	20.08				
15	QPSK	96	39	19.89	20.12	20.05				
15	QPSK	75	0	19.92	19.88	19.88	21.5	0		
15	16QAM	1	0	20.31	20.24	20.18				
15	16QAM	1	37	19.92	20.12	20.08				
15	16QAM	1	74	19.94	20.11	20.14	21.5	0		
15	16QAM	96	0	20.12	20.08	19.90				
15	16QAM	96	20	19.89	20.05	20.01				
15	16QAM	96	39	19.78	19.96	19.90	21.5	0		
15	16QAM	75	0	19.85	19.85	19.93				
15	16QAM	1	0	20.29	20.21	20.13				
15	16QAM	1	37	20.06	20.10	20.11	21.5	0		
15	16QAM	1	74	19.92	20.10	20.03				
15	16QAM	96	0	19.70	19.80	19.99				
15	16QAM	96	20	19.67	19.82	19.54	21	0.5		
15	16QAM	96	39	19.70	19.80	19.58				
15	16QAM	75	0	19.70	19.92	19.70				
15	256QAM	1	0	17.67	17.78	17.83	19	2.5		
15	256QAM	1	37	17.62	17.78	17.67				
15	256QAM	1	74	17.71	17.80	17.67				
15	256QAM	96	0	17.78	17.86	17.76	19	2.5		
15	256QAM	96	20	17.67	17.84	17.70				
15	256QAM	96	39	17.54	17.72	17.72				
15	256QAM	75	0	17.61	17.82	17.65	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.28	20.48	20.20	21.5	0		
10	QPSK	1	25	20.18	20.21	20.19				
10	QPSK	1	49	20.04	20.19	20.12				
10	QPSK	25	0	20.10	20.21	20.14	21.5	0		
10	QPSK	25	12	19.97	20.11	20.03				
10	QPSK	25	25	19.93	20.18	20.08				
10	QPSK	90	0	19.96	19.92	19.90	21.5	0		
10	16QAM	1	0	20.34	20.20	20.12				
10	16QAM	1	25	19.98	20.07	20.09				
10	16QAM	1	49	19.98	20.06	20.11	21.5	0		
10	16QAM	25	0	20.14	20.06	19.97				
10	16QAM	25	12	19.91	20.02	20.04				
10	16QAM	25	25	19.88	19.96	19.86	21.5	0		
10	16QAM	90	0	19.90	19.91	19.98				
10	16QAM	1	0	20.18	20.25	20.15				
10	16QAM	1	25	19.95	20.16	20.07	21	0.5		
10	16QAM	1	49	20.02	20.11	20.11				
10	16QAM	25	0	19.69	19.75	19.63				
10	16QAM	25	12	19.40	19.70	19.54	21	0.5		
10	16QAM	25	25	19.63	19.78	19.58				
10	16QAM	90	0	19.84	19.92	19.78				
10	256QAM	1	0	17.60	17.81	17.83	19	2.5		
10	256QAM	1	25	17.63	17.72	17.70				
10	256QAM	1	49	17.73	17.76	17.72				
10	256QAM	25	0	17.62	17.82	17.78	19	2.5		
10	256QAM	25	12	17.70	17.83	17.74				
10	256QAM	25	25	17.54	17.79	17.70				
10	256QAM	90	0	17.61	17.83	17.66	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.44	20.47	20.10	21.5	0		
5	QPSK	1	12	20.17	20.22	20.22				
5	QPSK	1	24	20.01	20.26	20.11				
5	QPSK	12	0	20.06	20.29	20.22	21.5	0		
5	QPSK	12	7	20.07	20.09	20.04				
5	QPSK	12	13	19.84	20.15	20.11				
5	QPSK	25	0	19.82	19.80	19.80	21.5	0		
5	16QAM	1	0	20.34	20.25	20.08				
5	16QAM	1	12	19.98	20.11	20.10				
5	16QAM	1	24	19.96	20.11	20.13	21.5	0		
5	16QAM	12	0	20.16	19.98	19.96				
5	16QAM	12	7	19.96	20.02	20.12				
5	16QAM	12	13	19.70	19.94	19.80	21.5	0		
5	16QAM	25	0	19.70	19.82	20.00				
5	16QAM	1	0	20.22	20.19	20.14				
5	16QAM	1	12	20.09	20.15	20.12	21.5	0		
5	16QAM	1	24	19.93	20.07	20.11				
5	16QAM	12	0	19.65	19.75	19.68				
5	16QAM	12	7	19.62	19.69	19.52	21	0.5		
5	16QAM	12	13	19.60	19.70	19.66				
5	16QAM	25	0	19.84	19.91	19.80				
5	256QAM	1	0	17.62	17.79	17.85	19	2.5		
5	256QAM	1	12	17.59	17.70	17.70				
5	256QAM	1	24	17.67	17.79	17.70				
5	256QAM	12	0	17.60	17.83	17.77	19	2.5		
5	256QAM	12	7	17.64	17.82	17.70				
5	256QAM	12	13	17.57	17.81	17.70				
5	256QAM	25	0	17.63	17.78	17.64	Tune-up limit (dBm)	MPE (dB)		

Uplink CA Power

Full power&DS12 Standalone&Simultaneous

CA_7C Ant5										
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	22.41	24.00		
21100	21298	QPSK	1	99	1	0	22.70	24.00		
21350	21152	QPSK	1	0	1	99	22.53	24.00		

DS13 Standalone&Simultaneous

CA_7C Ant5										
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	17.43	19.10		
21100	21298	QPSK	1	99	1	0	17.74	19.10		
21350	21152	QPSK	1	0	1	99	17.62	19.10		

Full Power

CA_38C Ant1										
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	23.08	24.00		
37901	38099	QPSK	1	99	1	0	23.12	24.00		
38150	37952	QPSK	1	0	1	99	23.03	24.00		

DS12 Standalone

CA_38C Ant1										
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	18.66	19.80		
37901	38099	QPSK	1	99	1	0	18.78	19.80		
38150	37952	QPSK	1	0	1	99	18.72	19.80		

Full Power

CA_41C Ant1										
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	23.11	24.00		
40185	40383	QPSK	1	99	1	0	23.08	24.00		
40620	40818	QPSK	1	99	1	0	23.13	24.00		
41055	41253	QPSK	1	99	1	0	23.07	24.00		
41490	41292	QPSK	1	0	1	99	23.12	24.00		

DS12 Standalone

CA_41C Ant1										
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	18.71	19.80		
40185	40383	QPSK	1	99	1	0	18.73	19.80		
40620	40818	QPSK	1	99	1	0	18.86	19.80		
41055	41253	QPSK	1	99	1	0	18.75	19.80		
41490	41292	QPSK	1	0	1	99	18.72	19.80		

DS13 Standalone

CA_38C Ant1										
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	19.26	20.40		
37901	38099	QPSK	1	99	1	0	19.36	20.40		
38150	37952	QPSK	1	0	1	99	19.28	20.40		

DS13 Simultaneous

CA_38C Ant1										
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	15.22	16.90		
37901	38099	QPSK	1	99	1	0	15.35	16.90		
38150	37952	QPSK	1	0	1	99	15.21	16.90		

DS13 Standalone

CA_41C Ant1										
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	19.28	20.40		
40185	40383	QPSK	1	99	1	0	19.46	20.40		
40620	40818	QPSK	1	99	1	0	19.48	20.40		
41055	41253	QPSK	1	99	1	0	19.21	20.40		
41490	41292	QPSK	1	0	1	99	19.19	20.40		

DS13 Simultaneous

CA_41C Ant1										
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	15.38	16.90		
40185	40383	QPSK	1	99	1	0	15.42	16.90		
40620	40818	QPSK	1	99	1	0	15.48	16.90		
41055	41253	QPSK	1	99	1	0	15.31	16.90		
41490	41292	QPSK	1	0	1	99	15.26	16.90		

DS16

CA_7C Ant5								
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	18.55	19.90
21100	21298	QPSK	1	99	1	0	18.79	19.90
21350	21152	QPSK	1	0	1	99	18.65	19.90

DS12 Simultaneous

CA_38C Ant1								
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	17.58	18.80
37901	38099	QPSK	1	99	1	0	17.73	18.80
38150	37952	QPSK	1	0	1	99	17.71	18.80

DS12 Simultaneous

CA_41C Ant1								
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	17.66	18.80
40185	40383	QPSK	1	99	1	0	17.76	18.80
40620	40818	QPSK	1	99	1	0	17.88	18.80
41055	41253	QPSK	1	99	1	0	17.65	18.80
41490	41292	QPSK	1	0	1	99	17.61	18.80

DS16

CA_38C Ant1								
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	22.01	23.30
37901	38099	QPSK	1	99	1	0	22.12	23.30
38150	37952	QPSK	1	0	1	99	21.98	23.30

DS16

CA_41C Ant1								
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	22.01	23.30
40185	40383	QPSK	1	99	1	0	22.18	23.30
40620	40818	QPSK	1	99	1	0	22.21	23.30
41055	41253	QPSK	1	99	1	0	22.19	23.30
41490	41292	QPSK	1	0	1	99	22.12	23.30



DL CA Power

CA List	2CA DL																Power	
	PCC								SCC								With CA	Without CA
	LTE Band	BW (MHz)	UL Freq (MHz)	UL Channel	Mod	UL RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	UL Freq (MHz)	UL Channel	DL Antenna Configuration	Tx. Power (dBm)	Tx. Power (dBm)			
CA_2C	Band 2	Ans0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	20M	1880	1098	4x4MIMO	22.19	22.39		
CA_5A-41A	Band 5	Ans0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		22.44	22.66		
	Band 5	Ans1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		21.95	22.08		
CA_7B	Band 7	Ans5	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	22.52	22.72		
	Band 7	Ans5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	878.5	6865		22.61	22.72		
CA_7A-26A	Band 26	Ans0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.27	22.43		
	Band 7	Ans5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590		22.57	22.72		
CA_7A-42A	Band 42	Ans2	20M	3500	42590	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.58	22.72		
CA_26A-41A	Band 26	Ans0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620		22.33	22.43		
CA_38C	Band 38	Ans1	20M	2590	37650	QPSK	1	0		Band 38	20M	2590	36948		22.29	22.41		
CA_41C	Band 41	Ans1	20M	2593	40620	QPSK	1	0		Band 41	20M	2813	40818		22.20	22.39		
	Band 41	Ans1	20M	2593	40620	QPSK	1	0		Band 42	20M	3500	42590		22.17	22.39		
CA_41A-42A	Band 42	Ans2	20M	3500	42590	QPSK	1	0		Band 41	20M	2593	40620		22.53	22.72		
CA_42C	Band 42	Ans2	20M	3500	42590	QPSK	1	0		Band 42	20M	3520	42788		22.51	22.72		
CA_66B	Band 66	Ans0	15M	1745	13232	QPSK	1	0	4x4MIMO	Band 66	5M	2154	66879	4x4MIMO	22.48	22.63		
CA_66C	Band 66	Ans0	20M	1745	13232	QPSK	1	0	4x4MIMO	Band 66	20M	2165	66984	4x4MIMO	22.45	22.63		



3CA DL

3CA List	PCC										SCC1					SCC2				Power					
	LTE	BW	BW	UL	UL	UL	UL	UL	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. Channel	Mod.	RB	RB	Offset	Offset		Band	(MHz)	Freq. Channel	Mod.	RB	RB	Offset	Band	(MHz)	Freq. Channel	Mod.	RB	RB	Offset	(dBm)
CA_2A-4A-5A	Band 2	An0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.18	22.39				
	Band 4	An0	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	22.57	22.69				
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175		22.58	22.66				
	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175		21.96	22.08				
	Band 2	An0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175		Band 7	20M	2655	3100	4x4MIMO	22.18	22.39				
CA_2A-4A-7A	Band 4	An0	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.56	22.69				
	Band 7	An5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175		22.55	22.72				
	Band 2	An0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	2554.8	3298	4x4MIMO	22.28	22.39				
CA_2A-7C	Band 7	An5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.54	22.72				
CA_2A-7A-7A	Band 2	An0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.29	22.39				
	Band 7	An5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.52	22.72				
CA_2A-7A-66A	Band 2	An0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.26	22.38				
	Band 7	An5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.58	22.72				
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.41	22.63				
CA_2A-66A-66A	Band 2	An0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.21	22.39				
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.49	22.63				
CA_4A-7C	Band 4	An0	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.53	22.69				
	Band 7	An5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175		22.56	22.72				
CA_5A-7C	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.48	22.66				
	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.00	22.08				
	Band 7	An5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 5	10M	881.5	2525		22.58	22.72				
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.50	22.66				
	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.91	22.08				
CA_5A-7A-66A	Band 5	An0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	22.58	22.72				
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		22.50	22.63				
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.05	22.66				
CA_5A-66A-66A	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	21.94	22.08				
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.46	22.63				
CA_7A-66A-66A	Band 7	An5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.62	22.72				
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.46	22.63				



Full & Default power

n2 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	Pi/2 BPSK	1	1	22.77	22.89	22.85		
20	Pi/2 BPSK	1	53	22.82	22.87	22.75	24.0	0.0
20	Pi/2 BPSK	1	104	22.73	22.78	22.75		
20	Pi/2 BPSK	50	0	22.48	22.54	22.51	23.5	0.5
20	Pi/2 BPSK	50	28	22.81	22.90	22.77	24.0	0.0
20	Pi/2 BPSK	50	56	22.43	22.48	22.36		
20	Pi/2 BPSK	100	0	22.48	22.53	22.49	23.5	0.5
20	QPSK	1	1	22.95	22.98	22.82		
20	QPSK	1	53	22.79	22.84	22.76	24.0	0.0
20	QPSK	1	104	22.72	22.81	22.68		
20	QPSK	50	0	21.92	22.04	21.95	23.0	1.0
20	QPSK	50	28	22.87	22.92	22.84	24.0	0.0
20	QPSK	50	56	21.82	21.95	21.80		
20	QPSK	100	0	21.91	22.02	21.94	23.0	1.0
20	16QAM	1	1	21.80	21.89	21.75	23.0	1.0
20	64QAM	1	1	20.27	20.39	20.32	21.5	2.5
20	256QAM	1	1	18.43	18.52	18.38	19.5	4.5
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	22.85	22.94	22.70	24.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	QPSK	1	1	22.83	22.85	22.78	24.0	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	22.88	22.92	22.68	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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	22.89	22.96	22.93			
40	PI/2 BPSK	1	108	22.88	22.94	22.89	24.0	0.0	
40	PI/2 BPSK	1	214	22.75	22.85	22.77			
40	PI/2 BPSK	108	0	22.43	22.54	22.39	23.5	0.5	
40	PI/2 BPSK	108	54	22.81	22.87	22.81	24.0	0.0	
40	PI/2 BPSK	108	108	22.52	22.59	22.51			
40	PI/2 BPSK	216	0	22.53	22.65	22.56	23.5	0.5	
40	QPSK	1	1	22.92	22.98	22.86			
40	QPSK	1	108	22.82	22.91	22.78	24.0	0.0	
40	QPSK	1	214	22.83	22.88	22.78			
40	QPSK	108	0	22.09	22.16	22.08	23.0	1.0	
40	QPSK	108	54	22.85	22.98	22.84	24.0	0.0	
40	QPSK	108	108	22.01	22.10	22.03			
40	QPSK	216	0	22.03	22.13	22.03	23.0	1.0	
40	16QAM	1	1	21.78	21.92	21.88	23.0	1.0	
40	64QAM	1	1	20.30	20.39	20.28	21.5	2.5	
40	256QAM	1	1	18.47	18.58	18.48	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	22.78	22.91	22.81	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.88	22.92	22.71	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	22.86	22.95	22.77	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.86	22.88	22.78	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.77	22.90	22.78	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.78	22.85	22.71	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	23.18	23.22	23.10			
40	PI/2 BPSK	1	108	23.03	23.16	23.05	24.0	0.0	
40	PI/2 BPSK	1	214	22.87	23.01	22.89			
40	PI/2 BPSK	108	0	22.60	22.72	22.66	23.5	0.5	
40	PI/2 BPSK	108	54	23.10	23.13	23.03	24.0	0.0	
40	PI/2 BPSK	108	108	22.68	22.79	22.64			
40	PI/2 BPSK	216	0	22.58	22.72	22.63	23.5	0.5	
40	QPSK	1	1	23.24	23.27	23.19			
40	QPSK	1	108	23.00	23.13	23.09	24.0	0.0	
40	QPSK	1	214	22.98	23.05	22.90			
40	QPSK	108	0	22.22	22.28	22.16	23.0	1.0	
40	QPSK	108	54	23.11	23.17	23.12	24.0	0.0	
40	QPSK	108	108	22.15	22.25	22.11			
40	QPSK	216	0	22.20	22.29	22.17	23.0	1.0	
40	16QAM	1	1	22.13	22.21	22.13	23.0	1.0	
40	64QAM	1	1	20.56	20.66	20.58	21.5	2.5	
40	256QAM	1	1	18.65	18.75	18.70	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.20	23.20	23.04	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.10	23.13	23.15	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.12	23.19	23.08	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.10	23.22	23.04	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.19	23.14	23.14	24.0	0.0	



Part27Q n78 Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.50	22.54	22.47	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.51	22.62	22.48	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.52	22.61	22.51	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.56	22.56	22.51	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.59	22.53	22.50	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.51	22.57	22.48	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.58	22.59	22.50	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.52	22.63	22.44	24.0	0.0



Part27Q 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		18.81			
100	PI/2 BPSK	1	137		18.82		20.5	0.0
100	PI/2 BPSK	1	271		18.73			
100	PI/2 BPSK	135	0		18.70		20.5	0.0
100	PI/2 BPSK	135	69		18.77		20.5	0.0
100	PI/2 BPSK	135	138		18.72		20.5	0.0
100	PI/2 BPSK	270	0		18.73			
100	QPSK	1	1		18.97			
100	QPSK	1	137		18.83		20.5	0.0
100	QPSK	1	271		18.78			
100	QPSK	135	0		18.70		20.5	0.0
100	QPSK	135	69		18.84		20.5	0.0
100	QPSK	135	138		18.75		20.5	0.0
100	QPSK	270	0		18.79		20.5	0.0
100	16QAM	1	1		18.77		20.5	0.0
100	64QAM	1	1		18.75		20.5	0.0
100	256QAM	1	1		18.65		20.5	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.80	18.72	18.69	20.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.71	18.81	18.67	20.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.67	18.73	18.61	20.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.69	18.75	18.71	20.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.72	18.76	18.76	20.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.74	18.74	18.74	20.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.69	18.82	18.70	20.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.67	18.73	18.74	20.5	0.0



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
40	22.48	22.56	22.41	24.0	0.0
40	22.56	22.62	22.51	24.0	0.0
40	22.51	22.55	22.46	23.5	0.5
40	22.14	22.18	22.12	24.0	0.0
40	22.55	22.59	22.47	23.5	0.5
40	22.04	22.13	22.02	24.0	0.0
40	22.10	22.17	22.13	23.0	1.0
40	22.61	22.69	22.64	24.0	0.0
40	22.58	22.67	22.56	23.0	1.0
40	22.55	22.60	22.50	24.0	0.0
40	21.54	21.68	21.58	23.0	1.0
40	22.51	22.57	22.55	24.0	0.0
40	21.45	21.63	21.49	23.0	1.0
40	21.60	21.68	21.66	23.0	1.0
40	21.72	21.75	21.62	23.0	1.0
40	19.97	20.12	20.05	21.5	2.5
40	18.01	18.06	17.99	19.5	4.5
30	22.51	22.65	22.58	24.0	0.0
25	22.49	22.56	22.57	24.0	0.0
20	22.49	22.55	22.55	24.0	0.0
15	22.52	22.62	22.50	24.0	0.0
10	22.50	22.60	22.58	24.0	0.0
5	22.51	22.59	22.54	24.0	0.0

Part27Q 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					633334			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.17			
100	PI/2 BPSK	1	137		17.07		18.5	0.0
100	PI/2 BPSK	1	271		16.95			
100	PI/2 BPSK	135	0		17.08		18.5	0.0
100	PI/2 BPSK	135	69		17.03		18.5	0.0
100	PI/2 BPSK	135	138		17.01		18.5	0.0
100	PI/2 BPSK	270	0		17.26			
100	QPSK	1	1		17.32			
100	QPSK	1	137		17.12		18.5	0.0
100	QPSK	1	271		17.17			
100	QPSK	135	0		17.15		17.5	1.0
100	QPSK	135	69		17.27		18.5	0.0
100	QPSK	135	138		17.11		17.5	1.0
100	QPSK	270	0		17.22			
100	16QAM	1	1		17.20		18.5	0.0
100	64QAM	1	1		17.14		18.5	0.0
100	256QAM	1	1		17.19		18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.10	17.19	17.15	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.23	17.28	17.06	18.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.23	17.25	17.12	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.11	17.21	17.13	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.11	17.20	17.10	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.12	17.14	17.16	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.17	17.17	17.14	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.22	17.20	17.17	18.5	0.0



Part27Q 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	19.75	19.75	19.70	20.5	0.0
100	PI/2 BPSK	1	137	19.69	19.69			
100	PI/2 BPSK	1	271	19.62	19.62			
100	PI/2 BPSK	135	0	19.12	19.12		20.0	0.5
100	PI/2 BPSK	135	69	19.69	19.69		20.5	0.0
100	PI/2 BPSK	135	138	18.99	18.99			
100	PI/2 BPSK	270	0	19.04	19.04		20.0	0.5
100	QPSK	1	1	19.81	19.81			
100	QPSK	1	137	18.78	18.78		20.5	0.0
100	QPSK	1	271	19.67	19.67			
100	QPSK	135	0	18.71	18.71		19.5	1.0
100	QPSK	135	69	19.74	19.74		20.5	0.0
100	QPSK	135	138	18.52	18.52			
100	QPSK	270	0	18.56	18.56		19.5	1.0
100	16QAM	1	1	18.78	18.78		19.5	1.0
100	64QAM	1	1	17.43	17.43		18.0	2.5
100	256QAM	1	1	15.28	15.28		16.0	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.75	19.75	19.70	20.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.71	19.77	19.78	20.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.78	19.70	19.77	20.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.75	19.68	19.78	20.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.69	19.69	19.74	20.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.71	19.72	19.78	20.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.75	19.73	19.72	20.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.70	19.67	19.70	20.5	0.0



Reduced Power Mode for Sensor Off

Part27Q n78 Ant2 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					833334			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.75			
100	PI/2 BPSK	1	137		21.78		23.0	0.0
100	PI/2 BPSK	1	271		21.58			
100	PI/2 BPSK	135	0		21.71		23.0	0.0
100	PI/2 BPSK	135	69		21.65		23.0	0.0
100	PI/2 BPSK	135	138		21.60			
100	PI/2 BPSK	270	0		21.64		23.0	0.0
100	QPSK	1	1		21.79			
100	QPSK	1	137		21.72		23.0	0.0
100	QPSK	1	271		21.59			
100	QPSK	135	0		21.64		22.0	1.0
100	QPSK	135	69		21.71		23.0	0.0
100	QPSK	135	138		21.69			
100	QPSK	270	0		21.65		22.0	1.0
100	16QAM	1	1		21.61		23.0	0.0
100	64QAM	1	1		20.24		21.5	1.5
100	256QAM	1	1		18.28		19.5	3.5
Channel				833000	833334	833668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	21.42	21.49	21.38	23.0	0.0
Channel				832668	833334	834000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	21.35	21.49	21.37	23.0	0.0
Channel				832334	833334	834334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	21.43	21.49	21.35	23.0	0.0
Channel				832000	833334	834668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	21.39	21.49	21.40	23.0	0.0
Channel				831668	833334	835000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	21.41	21.44	21.41	23.0	0.0
Channel				831334	833334	835334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	21.44	21.50	21.43	23.0	0.0
Channel				831000	833334	835668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	21.39	21.38	21.38	23.0	0.0
Channel				830668	833334	836000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	21.37	21.50	21.43	23.0	0.0



Part27Q n78 Ant3 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.00			
100	PI/2 BPSK	1	137		17.02		17.6	0.0
100	PI/2 BPSK	1	271		16.97			
100	PI/2 BPSK	135	0		16.93		17.6	0.0
100	PI/2 BPSK	135	69		16.96		17.6	0.0
100	PI/2 BPSK	135	138		16.88			
100	PI/2 BPSK	270	0		16.97		17.6	0.0
100	QPSK	1	1		17.23			
100	QPSK	1	137		17.04		17.6	0.0
100	QPSK	1	271		17.02			
100	QPSK	135	0		16.95		17.6	0.0
100	QPSK	135	69		17.05		17.6	0.0
100	QPSK	135	138		16.93			
100	QPSK	270	0		17.01		17.6	0.0
100	16QAM	1	1		17.02		17.6	0.0
100	64QAM	1	1		16.99		17.6	0.0
100	256QAM	1	1		16.88		17.6	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.01	16.88	16.84	17.6	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.96	16.94	16.89	17.6	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.97	16.87	16.85	17.6	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.02	16.88	16.91	17.6	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.99	16.96	16.86	17.6	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.97	16.94	16.92	17.6	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.03	16.91	16.84	17.6	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.00	16.86	16.84	17.6	0.0



Reduced Power Mode for DSI2 Standalone

n2 Ant0 DSI2 Standalone								
BW [MHz]	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	22.77	22.89	22.85	24.0	0.0
20	PI/2 BPSK	1	53	22.82	22.87	22.75		
20	PI/2 BPSK	1	104	22.73	22.78	22.75		
20	PI/2 BPSK	50	0	22.48	22.54	22.51	23.5	0.5
20	PI/2 BPSK	50	28	22.81	22.90	22.77	24.0	0.0
20	PI/2 BPSK	50	56	22.43	22.48	22.36	23.5	0.5
20	PI/2 BPSK	100	0	22.48	22.53	22.49		
20	QPSK	1	1	22.95	22.98	22.82		
20	QPSK	1	53	22.79	22.84	22.76	24.0	0.0
20	QPSK	1	104	22.72	22.81	22.68	23.0	1.0
20	QPSK	50	0	21.92	22.04	21.95		
20	QPSK	50	28	22.87	22.92	22.84		
20	QPSK	50	56	21.82	21.95	21.80	23.0	1.0
20	QPSK	100	0	21.91	22.02	21.94		
20	16QAM	1	1	21.80	21.89	21.75		
20	64QAM	1	1	20.27	20.39	20.32	21.5	2.5
20	256QAM	1	1	18.43	18.52	18.38	19.5	4.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.85	22.94	22.70	24.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.83	22.85	22.78	24.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.88	22.92	22.68	24.0	0.0



n7 Ant1 DSI2 Standalone									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	15.47	15.55	15.51	16.9	0.0	
40	PI/2 BPSK	1	108	15.37	15.48	15.42			
40	PI/2 BPSK	1	214	15.31	15.43	15.31			
40	PI/2 BPSK	108	0	15.34	15.46	15.38	16.9	0.0	
40	PI/2 BPSK	108	54	15.47	15.52	15.42	16.9	0.0	
40	PI/2 BPSK	108	108	15.39	15.47	15.36	16.9	0.0	
40	PI/2 BPSK	216	0	15.41	15.51	15.38			
40	QPSK	1	1	15.54	15.62	15.59	16.9	0.0	
40	QPSK	1	108	15.47	15.55	15.40			
40	QPSK	1	214	15.44	15.52	15.48			
40	QPSK	108	0	15.33	15.47	15.37	16.9	0.0	
40	QPSK	108	54	15.46	15.54	15.49	16.9	0.0	
40	QPSK	108	108	15.33	15.46	15.31	16.9	0.0	
40	QPSK	216	0	15.42	15.48	15.40			
40	16QAM	1	1	15.47	15.53	15.45	16.9	0.0	
40	64QAM	1	1	15.49	15.59	15.46	16.9	0.0	
40	256QAM	1	1	15.46	15.57	15.43	16.9	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	16.9	0.0	
30	QPSK	1	1	15.50	15.50	15.44	16.9	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	16.9	0.0	
25	QPSK	1	1	15.49	15.50	15.50	16.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	16.9	0.0	
20	PI/2 BPSK	1	1	15.47	15.59	15.49	16.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	16.9	0.0	
15	QPSK	1	1	15.39	15.50	15.52	16.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	16.9	0.0	
10	QPSK	1	1	15.48	15.58	15.50	16.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	16.9	0.0	
5	QPSK	1	1	15.41	15.58	15.44	16.9	0.0	

n66 Ant1 DSI2 Standalone									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	23.18	23.22	23.10	24.0	0.0	
40	PI/2 BPSK	1	108	23.03	23.16	23.05			
40	PI/2 BPSK	1	214	22.87	23.01	22.89			
40	PI/2 BPSK	108	0	22.60	22.72	22.66	23.5	0.5	
40	PI/2 BPSK	108	54	23.10	23.13	23.03	24.0	0.0	
40	PI/2 BPSK	108	108	22.68	22.79	22.64	23.5	0.5	
40	PI/2 BPSK	216	0	22.58	22.72	22.63			
40	QPSK	1	1	23.24	23.27	23.19	24.0	0.0	
40	QPSK	1	108	23.00	23.13	23.09			
40	QPSK	1	214	22.98	23.05	22.90			
40	QPSK	108	0	22.22	22.28	22.16	23.0	1.0	
40	QPSK	108	54	23.11	23.17	23.12	24.0	0.0	
40	QPSK	108	108	22.15	22.25	22.11	23.0	1.0	
40	QPSK	216	0	22.20	22.28	22.17			
40	16QAM	1	1	22.13	22.21	22.13	23.0	1.0	
40	64QAM	1	1	20.56	20.66	20.58	21.5	2.5	
40	256QAM	1	1	18.65	18.75	18.70	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	1	23.20	23.20	23.04	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.10	23.13	23.15	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.12	23.19	23.08	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.10	23.22	23.04	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.19	23.14	23.14	24.0	0.0	



Part27Q n78 Ant2 DSI2 Standalone								
BW [MHz]	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		16.18			
100	PI/2 BPSK	1	137		16.15		17.5	0.0
100	PI/2 BPSK	1	271		16.12			
100	PI/2 BPSK	135	0		16.08		17.5	0.0
100	PI/2 BPSK	135	69		16.12		17.5	0.0
100	PI/2 BPSK	135	138		16.05		17.5	0.0
100	PI/2 BPSK	270	0		16.07			
100	QPSK	1	1		16.23			
100	QPSK	1	137		16.04		17.5	0.0
100	QPSK	1	271		16.04			
100	QPSK	135	0		16.12		17.5	0.0
100	QPSK	135	69		16.14		17.5	0.0
100	QPSK	135	138		15.98		17.5	0.0
100	QPSK	270	0		16.13			
100	16QAM	1	1		16.06		17.5	0.0
100	64QAM	1	1		16.04		17.5	0.0
100	256QAM	1	1		16.02		17.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	15.98	16.07	15.99	17.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.00	16.09	15.99	17.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.07	16.09	15.99	17.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.00	16.10	15.95	17.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	15.97	16.07	15.96	17.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.01	16.14	15.97	17.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.02	16.12	15.97	17.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.04	16.05	15.96	17.5	0.0



Part27Q n78 Ant3 DSI2 Standalone								
BW [MHz]	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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	18.81			20.5	0.0
100	PI/2 BPSK	1	137	18.82				
100	PI/2 BPSK	1	271	18.73				
100	PI/2 BPSK	135	0	18.70			20.5	0.0
100	PI/2 BPSK	135	69	18.77			20.5	0.0
100	PI/2 BPSK	135	138	18.72			20.5	0.0
100	PI/2 BPSK	270	0	18.73				
100	QPSK	1	1	18.97				
100	QPSK	1	137	18.83			20.5	0.0
100	QPSK	1	271	18.78				
100	QPSK	135	0	18.70			20.5	0.0
100	QPSK	135	69	18.84			20.5	0.0
100	QPSK	135	138	18.75			20.5	0.0
100	QPSK	270	0	18.79				
100	16QAM	1	1	18.77			20.5	0.0
100	64QAM	1	1	18.75			20.5	0.0
100	256QAM	1	1	18.65			20.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.80	18.72	18.69	20.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.71	18.81	18.67	20.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.67	18.73	18.61	20.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.69	18.75	18.71	20.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.72	18.76	18.76	20.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.74	18.74	18.74	20.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.69	18.82	18.70	20.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.67	18.73	18.74	20.5	0.0



n7 Ant5 DSI2 Standalone								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	22.48	22.56	22.41	24.0	0.0
40	PI/2 BPSK	1	108	22.56	22.62	22.51		
40	PI/2 BPSK	1	214	22.51	22.55	22.46		
40	PI/2 BPSK	108	0	22.14	22.18	22.12	23.5	0.5
40	PI/2 BPSK	108	54	22.55	22.59	22.47	24.0	0.0
40	PI/2 BPSK	108	108	22.04	22.13	22.02		
40	PI/2 BPSK	216	0	22.10	22.17	22.13		
40	QPSK	1	1	22.61	22.69	22.64	24.0	0.0
40	QPSK	1	108	22.58	22.67	22.56		
40	QPSK	1	214	22.55	22.60	22.50		
40	QPSK	108	0	21.54	21.68	21.58	23.0	1.0
40	QPSK	108	54	22.51	22.57	22.55	24.0	0.0
40	QPSK	108	108	21.45	21.63	21.49		
40	QPSK	216	0	21.60	21.68	21.66	23.0	1.0
40	16QAM	1	1	21.72	21.75	21.62	23.0	1.0
40	64QAM	1	1	19.97	20.12	20.05	21.5	2.5
40	256QAM	1	1	18.01	18.06	17.99	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.51	22.65	22.58	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.49	22.56	22.57	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.49	22.55	22.55	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.52	22.62	22.50	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.50	22.60	22.58	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.51	22.59	22.54	24.0	0.0



Part27Q n78 Ant5 DSI2 Standalone								
BW [MHz]	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		17.17			
100	PI/2 BPSK	1	137		17.07		18.5	0.0
100	PI/2 BPSK	1	271		16.95			
100	PI/2 BPSK	135	0		17.08		18.5	0.0
100	PI/2 BPSK	135	69		17.03		18.5	0.0
100	PI/2 BPSK	135	138		17.01			
100	PI/2 BPSK	270	0		17.26		18.5	0.0
100	QPSK	1	1		17.32			
100	QPSK	1	137		17.12		18.5	0.0
100	QPSK	1	271		17.17			
100	QPSK	135	0		17.15		17.5	1.0
100	QPSK	135	69		17.27		18.5	0.0
100	QPSK	135	138		17.11			
100	QPSK	270	0		17.22		17.5	1.0
100	16QAM	1	1		17.20		18.5	0.0
100	64QAM	1	1		17.14		18.5	0.0
100	256QAM	1	1		17.19		18.5	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.10	17.19	17.15	18.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.23	17.28	17.06	18.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.23	17.25	17.12	18.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.11	17.21	17.13	18.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.11	17.20	17.10	18.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.12	17.14	17.16	18.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.17	17.17	17.14	18.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.22	17.20	17.17	18.5	0.0



Part27Q n78 Ant7 DSI2 Standalone								
BW [MHz]	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		19.75			
100	PI/2 BPSK	1	137		19.69		20.5	0.0
100	PI/2 BPSK	1	271		19.62			
100	PI/2 BPSK	135	0		19.12		20.0	0.5
100	PI/2 BPSK	135	69		19.69		20.5	0.0
100	PI/2 BPSK	135	138		18.99			
100	PI/2 BPSK	270	0		19.04		20.0	0.5
100	QPSK	1	1		19.81			
100	QPSK	1	137		18.78		20.5	0.0
100	QPSK	1	271		19.67			
100	QPSK	135	0		18.71		19.5	1.0
100	QPSK	135	69		19.74		20.5	0.0
100	QPSK	135	138		18.52			
100	QPSK	270	0		18.56		19.5	1.0
100	16QAM	1	1		18.78		19.5	1.0
100	64QAM	1	1		17.43		18.0	2.5
100	256QAM	1	1		15.28		16.0	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.75	19.75	19.70	20.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.71	19.77	19.78	20.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.76	19.70	19.77	20.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.75	19.68	19.78	20.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.69	19.69	19.74	20.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.71	19.72	19.78	20.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.75	19.73	19.72	20.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.70	19.67	19.70	20.5	0.0



Reduced Power Mode for DS12 Simultaneous

n2 Ant0 DS12 Simultaneous								
BW [MHz]	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	22.77	22.89	22.85	24.0	0.0
20	PI/2 BPSK	1	53	22.82	22.87	22.75		
20	PI/2 BPSK	1	104	22.73	22.78	22.75		
20	PI/2 BPSK	50	0	22.48	22.54	22.51	23.5	0.5
20	PI/2 BPSK	50	28	22.81	22.90	22.77	24.0	0.0
20	PI/2 BPSK	50	56	22.43	22.48	22.36	23.5	0.5
20	PI/2 BPSK	100	0	22.48	22.53	22.49		
20	QPSK	1	1	22.95	22.98	22.82	24.0	0.0
20	QPSK	1	53	22.79	22.84	22.76		
20	QPSK	1	104	22.72	22.81	22.68		
20	QPSK	50	0	21.92	22.04	21.95	23.0	1.0
20	QPSK	50	28	22.87	22.92	22.84	24.0	0.0
20	QPSK	50	56	21.82	21.95	21.80	23.0	1.0
20	QPSK	100	0	21.91	22.02	21.94		
20	16QAM	1	1	21.80	21.89	21.75	23.0	1.0
20	64QAM	1	1	20.27	20.39	20.32	21.5	2.5
20	256QAM	1	1	18.43	18.52	18.38	19.5	4.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.85	22.94	22.70	24.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.83	22.85	22.78	24.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.88	22.92	22.68	24.0	0.0



n7 Ant1 DSI2 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	14.51	14.56	14.48			
40	PI/2 BPSK	1	108	14.16	14.50	14.23	15.9	0.0	
40	PI/2 BPSK	1	214	14.46	14.49	14.15			
40	PI/2 BPSK	108	0	14.29	14.60	14.33	15.9	0.0	
40	PI/2 BPSK	108	54	14.22	14.39	14.16	15.9	0.0	
40	PI/2 BPSK	108	108	14.09	14.29	14.18	15.9	0.0	
40	PI/2 BPSK	216	0	14.25	14.38	14.19			
40	QPSK	1	1	14.65	14.85	14.65			
40	QPSK	1	108	14.42	14.67	14.41	15.9	0.0	
40	QPSK	1	214	14.52	14.55	14.38			
40	QPSK	108	0	14.56	14.71	14.62	15.9	0.0	
40	QPSK	108	54	14.46	14.74	14.33	15.9	0.0	
40	QPSK	108	108	14.39	14.59	14.44			
40	QPSK	216	0	14.49	14.62	14.39	15.9	0.0	
40	16QAM	1	1	14.43	14.43	14.33	15.9	0.0	
40	64QAM	1	1	14.62	14.60	14.61	15.9	0.0	
40	256QAM	1	1	14.43	14.67	14.44	15.9	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	15.9	0.0	
30	QPSK	1	1	14.21	14.57	14.24	15.9	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	15.9	0.0	
25	QPSK	1	1	14.17	14.52	14.27	15.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	15.9	0.0	
20	PI/2 BPSK	1	1	14.19	14.50	14.25	15.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	15.9	0.0	
15	QPSK	1	1	14.16	14.49	14.26	15.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	15.9	0.0	
10	QPSK	1	1	14.22	14.51	14.31	15.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	15.9	0.0	
5	QPSK	1	1	14.18	14.54	14.24	15.9	0.0	

n66 Ant1 DSI2 Simultaneous									
BW [MHz]	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	22.19	22.26	22.06			
40	PI/2 BPSK	1	108	21.80	22.20	21.85	23.2	0.0	
40	PI/2 BPSK	1	214	21.84	22.04	21.83			
40	PI/2 BPSK	108	0	22.04	22.09	21.88	23.2	0.0	
40	PI/2 BPSK	108	54	22.16	22.13	22.17	23.2	0.0	
40	PI/2 BPSK	108	108	21.97	22.02	21.79	23.2	0.0	
40	PI/2 BPSK	216	0	22.00	22.11	21.97			
40	QPSK	1	1	22.32	22.37	22.29			
40	QPSK	1	108	22.04	22.28	22.12	23.2	0.0	
40	QPSK	1	214	22.08	22.27	22.01			
40	QPSK	108	0	22.22	22.28	22.16	23.0	0.2	
40	QPSK	108	54	22.30	22.34	22.26	23.2	0.0	
40	QPSK	108	108	22.15	22.25	22.11	23.0	0.2	
40	QPSK	216	0	22.20	22.29	22.17	23.0	0.2	
40	16QAM	1	1	22.13	22.21	22.13	23.0	0.2	
40	64QAM	1	1	20.56	20.66	20.58	21.5	1.7	
40	256QAM	1	1	18.65	18.75	18.70	19.5	3.7	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	23.2	0.0	
30	QPSK	1	1	22.22	22.17	22.01	23.2	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	23.2	0.0	
20	QPSK	1	1	22.19	22.04	22.01	23.2	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	23.2	0.0	
15	QPSK	1	1	22.05	22.08	22.05	23.2	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	23.2	0.0	
10	QPSK	1	1	22.07	22.04	22.05	23.2	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	23.2	0.0	
5	QPSK	1	1	22.16	22.09	22.01	23.2	0.0	



Part27Q n78 Ant2 DSI2 Simultaneous

BW [MHz]	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		15.08			
100	PI/2 BPSK	1	137		15.04		16.5	0.0
100	PI/2 BPSK	1	271		14.85			
100	PI/2 BPSK	135	0		14.94		16.5	0.0
100	PI/2 BPSK	135	69		15.16		16.5	0.0
100	PI/2 BPSK	135	138		14.70		16.5	0.0
100	PI/2 BPSK	270	0		15.06			
100	QPSK	1	1		15.21			
100	QPSK	1	137		15.18		16.5	0.0
100	QPSK	1	271		15.07			
100	QPSK	135	0		15.03		16.5	0.0
100	QPSK	135	69		15.11		16.5	0.0
100	QPSK	135	138		14.92		16.5	0.0
100	QPSK	270	0		15.10			
100	16QAM	1	1		14.91		16.5	0.0
100	64QAM	1	1		14.98		16.5	0.0
100	256QAM	1	1		15.03		16.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	15.05	15.12	15.16	16.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.04	15.13	15.19	16.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.02	15.09	15.13	16.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.06	15.05	15.18	16.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	15.07	15.08	15.13	16.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.06	15.09	15.12	16.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.03	15.13	15.18	16.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.10	15.10	15.12	16.5	0.0



Part27Q n78 Ant3 DSI2 Simultaneous

BW [MHz]	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		18.81			
100	PI/2 BPSK	1	137		18.82		20.5	0.0
100	PI/2 BPSK	1	271		18.73			
100	PI/2 BPSK	135	0		18.70		20.5	0.0
100	PI/2 BPSK	135	69		18.77		20.5	0.0
100	PI/2 BPSK	135	138		18.72		20.5	0.0
100	PI/2 BPSK	270	0		18.73			
100	QPSK	1	1		18.97			
100	QPSK	1	137		18.83		20.5	0.0
100	QPSK	1	271		18.78			
100	QPSK	135	0		18.70		20.5	0.0
100	QPSK	135	69		18.84		20.5	0.0
100	QPSK	135	138		18.75		20.5	0.0
100	QPSK	270	0		18.79		20.5	0.0
100	16QAM	1	1		18.77		20.5	0.0
100	64QAM	1	1		18.75		20.5	0.0
100	256QAM	1	1		18.65		20.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.80	18.72	18.69	20.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.71	18.81	18.67	20.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.67	18.73	18.61	20.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.69	18.75	18.71	20.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.72	18.76	18.76	20.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.74	18.74	18.74	20.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.69	18.82	18.70	20.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.67	18.73	18.74	20.5	0.0



n7 Ant5 DSI2 Simultaneous								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	22.48	22.56	22.41	24.0	0.0
40	PI/2 BPSK	1	108	22.56	22.62	22.51		
40	PI/2 BPSK	1	214	22.51	22.55	22.46		
40	PI/2 BPSK	108	0	22.14	22.18	22.12	23.5	0.5
40	PI/2 BPSK	108	54	22.55	22.59	22.47	24.0	0.0
40	PI/2 BPSK	108	108	22.04	22.13	22.02		
40	PI/2 BPSK	216	0	22.10	22.17	22.13	23.5	0.5
40	QPSK	1	1	22.61	22.69	22.64		
40	QPSK	1	108	22.58	22.67	22.56	24.0	0.0
40	QPSK	1	214	22.55	22.60	22.50		
40	QPSK	108	0	21.54	21.68	21.58	23.0	1.0
40	QPSK	108	54	22.51	22.57	22.55	24.0	0.0
40	QPSK	108	108	21.45	21.63	21.49		
40	QPSK	216	0	21.60	21.68	21.66	23.0	1.0
40	16QAM	1	1	21.72	21.75	21.62	23.0	1.0
40	64QAM	1	1	19.97	20.12	20.05	21.5	2.5
40	256QAM	1	1	18.01	18.06	17.99	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.51	22.65	22.58	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.49	22.56	22.57	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.49	22.55	22.55	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.52	22.62	22.50	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.50	22.60	22.58	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.51	22.59	22.54	24.0	0.0



Part27Q n78 Ant5 DSI2 Simultaneous

BW [MHz]	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		17.17			
100	Pi/2 BPSK	1	137		17.07		18.5	0.0
100	Pi/2 BPSK	1	271		16.95			
100	Pi/2 BPSK	135	0		17.08		18.5	0.0
100	Pi/2 BPSK	135	69		17.03		18.5	0.0
100	Pi/2 BPSK	135	138		17.01		18.5	0.0
100	Pi/2 BPSK	270	0		17.26			
100	QPSK	1	1		17.32			
100	QPSK	1	137		17.12		18.5	0.0
100	QPSK	1	271		17.17			
100	QPSK	135	0		17.15		17.5	1.0
100	QPSK	135	69		17.27		18.5	0.0
100	QPSK	135	138		17.11		17.5	1.0
100	QPSK	270	0		17.22			
100	16QAM	1	1		17.20		18.5	0.0
100	64QAM	1	1		17.14		18.5	0.0
100	256QAM	1	1		17.19		18.5	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.10	17.19	17.15	18.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.23	17.28	17.06	18.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.23	17.25	17.12	18.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.11	17.21	17.13	18.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.11	17.20	17.10	18.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.12	17.14	17.16	18.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.17	17.17	17.14	18.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.22	17.20	17.17	18.5	0.0



Part27Q n78 Ant7 DSI2 Simultaneous

BW [MHz]	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	19.75	19.75	19.70	20.5	0.0
100	PI/2 BPSK	1	137	19.69	19.67			
100	PI/2 BPSK	1	271	19.62				
100	PI/2 BPSK	135	0	19.12			20.0	0.5
100	PI/2 BPSK	135	69	19.69			20.5	0.0
100	PI/2 BPSK	135	138	18.99				
100	PI/2 BPSK	270	0	19.04			20.0	0.5
100	QPSK	1	1	19.81				
100	QPSK	1	137	18.78			20.5	0.0
100	QPSK	1	271	19.67				
100	QPSK	135	0	18.71			19.5	1.0
100	QPSK	135	69	19.74			20.5	0.0
100	QPSK	135	138	18.52				
100	QPSK	270	0	18.56			19.5	1.0
100	16QAM	1	1	18.78			19.5	1.0
100	64QAM	1	1	17.43			18.0	2.5
100	256QAM	1	1	15.28			16.0	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.75	19.75	19.70	20.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.71	19.77	19.78	20.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.78	19.70	19.77	20.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.75	19.68	19.78	20.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.69	19.69	19.74	20.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.71	19.72	19.78	20.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.75	19.73	19.72	20.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.70	19.67	19.70	20.5	0.0



Reduced Power Mode for DSI3 Standalone

n2 Ant0 DSI3 Standalone								
BW (MHz)	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	18.91	18.96	18.73		
20	PI/2 BPSK	1	53	18.85	18.90	18.72	19.9	0.0
20	PI/2 BPSK	1	104	18.70	18.84	18.78		
20	PI/2 BPSK	50	0	18.85	18.87	18.66	19.9	0.0
20	PI/2 BPSK	50	28	18.74	18.95	18.82	19.9	0.0
20	PI/2 BPSK	50	56	18.69	18.91	18.75	19.9	0.0
20	PI/2 BPSK	100	0	18.94	18.98	18.84		
20	QPSK	1	1	18.93	19.01	18.89		
20	QPSK	1	53	18.83	18.95	18.90	19.9	0.0
20	QPSK	1	104	18.89	18.99	18.98		
20	QPSK	50	0	18.79	18.91	18.90	19.9	0.0
20	QPSK	50	28	18.76	18.93	18.89	19.9	0.0
20	QPSK	50	56	18.74	18.88	18.88	19.9	0.0
20	QPSK	100	0	18.79	18.90	18.87		
20	16QAM	1	1	18.59	18.79	18.59	19.9	0.0
20	64QAM	1	1	18.61	18.73	18.72	19.9	0.0
20	256QAM	1	1	18.43	18.52	18.38	19.5	0.4
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1880	1902.5		
15	QPSK	1	1	18.62	18.73	18.70	19.9	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	18.63	18.80	18.62	19.9	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.75	18.71	18.62	19.9	0.0

n7 Ant1 DSI3 Standalone									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	15.76	16.02	15.76	17.1	0.0	
40	PI/2 BPSK	1	108	15.61	15.98	15.65			
40	PI/2 BPSK	1	214	15.63	15.89	15.60			
40	PI/2 BPSK	108	0	15.58	15.95	15.54	17.1	0.0	
40	PI/2 BPSK	108	54	15.69	16.00	15.75	17.1	0.0	
40	PI/2 BPSK	108	108	15.67	15.94	15.67	17.1	0.0	
40	PI/2 BPSK	216	0	15.65	16.01	15.82			
40	QPSK	1	1	15.86	16.11	15.90	17.1	0.0	
40	QPSK	1	108	15.73	15.92	15.68			
40	QPSK	1	214	15.61	15.97	15.74			
40	QPSK	108	0	15.76	16.04	15.76	17.1	0.0	
40	QPSK	108	54	15.77	16.07	15.85	17.1	0.0	
40	QPSK	108	108	15.64	15.90	15.68	17.1	0.0	
40	QPSK	216	0	15.62	15.97	15.73			
40	16QAM	1	1	15.78	16.06	15.86	17.1	0.0	
40	64QAM	1	1	15.62	16.03	15.75	17.1	0.0	
40	256QAM	1	1	15.49	15.87	15.46	17.1	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	17.1	0.0	
30	QPSK	1	1	15.68	15.93	15.35	17.1	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	17.1	0.0	
25	QPSK	1	1	15.56	15.87	15.41	17.1	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	17.1	0.0	
20	PI/2 BPSK	1	1	15.53	15.97	15.33	17.1	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	17.1	0.0	
15	QPSK	1	1	15.46	15.89	15.38	17.1	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	17.1	0.0	
10	QPSK	1	1	15.58	15.91	15.48	17.1	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	17.1	0.0	
5	QPSK	1	1	15.46	15.86	15.52	17.1	0.0	

n66 Ant1 DSI3 Standalone									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	23.18	23.22	23.10	24.0	0.0	
40	PI/2 BPSK	1	108	23.03	23.16	23.05			
40	PI/2 BPSK	1	214	22.87	23.01	22.89			
40	PI/2 BPSK	108	0	22.60	22.72	22.66	23.5	0.5	
40	PI/2 BPSK	108	54	23.10	23.13	23.03	24.0	0.0	
40	PI/2 BPSK	108	108	22.68	22.79	22.64	23.5	0.5	
40	PI/2 BPSK	216	0	22.58	22.72	22.63			
40	QPSK	1	1	23.24	23.27	23.19	24.0	0.0	
40	QPSK	1	108	23.00	23.13	23.09			
40	QPSK	1	214	22.98	23.05	22.90			
40	QPSK	108	0	22.22	22.28	22.16	23.0	1.0	
40	QPSK	108	54	23.11	23.17	23.12	24.0	0.0	
40	QPSK	108	108	22.15	22.25	22.11	23.0	1.0	
40	QPSK	216	0	22.20	22.28	22.17			
40	16QAM	1	1	22.13	22.21	22.13	23.0	1.0	
40	64QAM	1	1	20.56	20.66	20.58	21.5	2.5	
40	256QAM	1	1	18.65	18.75	18.70	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	1	23.20	23.20	23.04	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.10	23.13	23.15	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.12	23.19	23.08	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.10	23.22	23.04	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.19	23.14	23.14	24.0	0.0	



Part27Q n78 Ant2 DSI3 Standalone								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					833334			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		15.73			
100	PI/2 BPSK	1	137		15.55		16.6	0.0
100	PI/2 BPSK	1	271		15.44			
100	PI/2 BPSK	135	0		15.62		16.6	0.0
100	PI/2 BPSK	135	69		15.51		16.6	0.0
100	PI/2 BPSK	135	138		15.36		16.6	0.0
100	PI/2 BPSK	270	0		15.44			
100	QPSK	1	1		15.77			
100	QPSK	1	137		15.59		16.6	0.0
100	QPSK	1	271		15.49			
100	QPSK	135	0		15.54		16.6	0.0
100	QPSK	135	69		15.68		16.6	0.0
100	QPSK	135	138		15.42		16.6	0.0
100	QPSK	270	0		15.53			
100	16QAM	1	1		15.65		16.6	0.0
100	64QAM	1	1		15.61		16.6	0.0
100	256QAM	1	1		15.57		16.6	0.0
Channel				833000	833334	833668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	15.67	15.37	15.36	16.6	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.66	15.53	15.32	16.6	0.0
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.65	15.39	15.44	16.6	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.52	15.44	15.23	16.6	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	15.50	15.49	15.44	16.6	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.50	15.36	15.45	16.6	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.46	15.47	15.41	16.6	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.49	15.52	15.25	16.6	0.0



Part27Q n78 Ant3 DSI3 Standalone								
BW (MHz)	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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	11.85				
100	PI/2 BPSK	1	137	11.78			12.9	0.0
100	PI/2 BPSK	1	271	11.73				
100	PI/2 BPSK	135	0	11.67			12.9	0.0
100	PI/2 BPSK	135	69	11.76			12.9	0.0
100	PI/2 BPSK	135	138	11.69			12.9	0.0
100	PI/2 BPSK	270	0	11.72				
100	QPSK	1	1	12.01				
100	QPSK	1	137	11.86			12.9	0.0
100	QPSK	1	271	11.80				
100	QPSK	135	0	11.72			12.9	0.0
100	QPSK	135	69	11.95			12.9	0.0
100	QPSK	135	138	11.75			12.9	0.0
100	QPSK	270	0	11.79			12.9	0.0
100	16QAM	1	1	11.79			12.9	0.0
100	64QAM	1	1	11.79			12.9	0.0
100	256QAM	1	1	11.61			12.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	11.29	11.49	11.23	12.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	11.28	11.48	11.19	12.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	11.24	11.52	11.17	12.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	11.23	11.53	11.19	12.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	11.25	11.48	11.17	12.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	11.25	11.46	11.17	12.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	11.26	11.51	11.20	12.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	11.28	11.52	11.23	12.9	0.0



n7 Ant5 DSI3 Standalone								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	18.15	18.29	18.13		
40	PI/2 BPSK	1	108	17.81	18.00	17.75	19.5	0.0
40	PI/2 BPSK	1	214	18.00	18.07	17.98		
40	PI/2 BPSK	108	0	17.81	17.90	17.85	19.5	0.0
40	PI/2 BPSK	108	54	17.86	18.07	17.68	19.5	0.0
40	PI/2 BPSK	108	108	17.92	18.04	17.78		
40	PI/2 BPSK	216	0	17.85	18.01	17.94	19.5	0.0
40	QPSK	1	1	18.30	18.37	18.24		
40	QPSK	1	108	18.02	18.22	17.95	19.5	0.0
40	QPSK	1	214	18.14	18.24	18.10		
40	QPSK	108	0	18.08	18.08	18.05	19.5	0.0
40	QPSK	108	54	18.08	18.18	17.98	19.5	0.0
40	QPSK	108	108	18.11	18.15	18.06		
40	QPSK	216	0	17.99	18.22	18.05	19.5	0.0
40	16QAM	1	1	17.78	18.08	17.84	19.5	0.0
40	64QAM	1	1	17.92	17.98	17.86	19.5	0.0
40	256QAM	1	1	18.01	18.06	17.99	18.5	1.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.54	17.84	17.76	19.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	17.51	17.81	17.65	19.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	17.62	17.97	17.71	19.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.58	17.83	17.55	19.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.68	17.79	17.70	19.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.56	17.76	17.70	19.5	0.0



Part27Q n78 Ant5 DSI3 Standalone								
BW [MHz]	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		17.17			
100	PI/2 BPSK	1	137		17.07		18.5	0.0
100	PI/2 BPSK	1	271		16.95			
100	PI/2 BPSK	135	0		17.08		18.5	0.0
100	PI/2 BPSK	135	69		17.03		18.5	0.0
100	PI/2 BPSK	135	138		17.01		18.5	0.0
100	PI/2 BPSK	270	0		17.26			
100	QPSK	1	1		17.32			
100	QPSK	1	137		17.12		18.5	0.0
100	QPSK	1	271		17.17			
100	QPSK	135	0		17.15		18.5	0.0
100	QPSK	135	69		17.27		18.5	0.0
100	QPSK	135	138		17.11		18.5	0.0
100	QPSK	270	0		17.22			
100	16QAM	1	1		17.20		18.5	0.0
100	64QAM	1	1		17.14		18.5	0.0
100	256QAM	1	1		17.19		18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.10	17.19	17.15	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.23	17.28	17.06	18.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3518.01		
70	QPSK	1	1	17.23	17.25	17.12	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.11	17.21	17.13	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.11	17.20	17.10	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.12	17.14	17.16	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.17	17.17	17.14	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.22	17.20	17.17	18.5	0.0



Part27Q n78 Ant7 DSI3 Standalone									
BW [MHz]	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		19.17				
100	Pi/2 BPSK	1	137		19.09		20.0	0.0	
100	Pi/2 BPSK	1	271		18.99				
100	Pi/2 BPSK	135	0		18.88		20.0	0.0	
100	Pi/2 BPSK	135	69		19.07		20.0	0.0	
100	Pi/2 BPSK	135	138		18.66				
100	Pi/2 BPSK	270	0		18.65		20.0	0.0	
100	QPSK	1	1		19.27				
100	QPSK	1	137		18.25		20.0	0.0	
100	QPSK	1	271		19.17				
100	QPSK	135	0		18.71		19.5	0.5	
100	QPSK	135	69		19.18		20.0	0.0	
100	QPSK	135	138		18.52				
100	QPSK	270	0		18.56		19.5	0.5	
100	16QAM	1	1		18.78		19.5	0.5	
100	64QAM	1	1		17.43		18.0	2.0	
100	256QAM	1	1		15.28		16.0	4.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1		19.17	19.12	19.11	20.0	0.0
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1		19.12	19.16	19.15	20.0	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1		19.19	19.15	19.07	20.0	0.0
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1		19.14	19.14	19.05	20.0	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1		19.14	19.19	19.12	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	1		19.13	19.17	19.06	20.0	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1		19.19	19.13	19.10	20.0	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1		19.16	19.18	19.07	20.0	0.0



Reduced Power Mode for DS13 Simultaneous

n2 Ant0 DS13 Simultaneous								
BW [MHz]	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	16.82	16.82	16.63	18.0	0.0
20	PI/2 BPSK	1	53	16.77	16.84	16.57		
20	PI/2 BPSK	1	104	16.63	16.74	16.64		
20	PI/2 BPSK	50	0	16.76	16.72	16.57	18.0	0.0
20	PI/2 BPSK	50	28	16.63	16.83	16.75	18.0	0.0
20	PI/2 BPSK	50	56	16.63	16.80	16.62	18.0	0.0
20	PI/2 BPSK	100	0	16.81	16.77	16.51		
20	QPSK	1	1	16.86	16.88	16.76		
20	QPSK	1	53	16.73	16.85	16.77	18.0	0.0
20	QPSK	1	104	16.83	16.82	16.87		
20	QPSK	50	0	16.72	16.79	16.85		
20	QPSK	50	28	16.61	16.85	16.71	18.0	0.0
20	QPSK	50	56	16.65	16.75	16.58	18.0	0.0
20	QPSK	100	0	16.70	16.82	16.81		
20	16QAM	1	1	16.49	16.72	16.51		
20	64QAM	1	1	16.51	16.62	16.58	18.0	0.0
20	256QAM	1	1	16.60	16.77	16.55	18.0	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	16.80	16.78	16.64	18.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	16.71	16.74	16.66	18.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	16.80	16.81	16.68	18.0	0.0



n7 Ant1 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	11.94	11.83	11.90	13.0	0.0	
40	PI/2 BPSK	1	108	11.87	11.89	11.71			
40	PI/2 BPSK	1	214	11.71	11.95	11.93			
40	PI/2 BPSK	108	0	11.84	12.07	11.85	13.0	0.0	
40	PI/2 BPSK	108	54	11.79	11.94	11.83	13.0	0.0	
40	PI/2 BPSK	108	108	11.74	11.87	11.91			
40	PI/2 BPSK	216	0	11.77	12.08	11.85	13.0	0.0	
40	QPSK	1	1	12.04	12.17	11.98			
40	QPSK	1	108	11.89	11.92	11.71	13.0	0.0	
40	QPSK	1	214	11.71	12.11	11.82			
40	QPSK	108	0	11.83	11.97	11.70	13.0	0.0	
40	QPSK	108	54	11.80	12.00	11.86	13.0	0.0	
40	QPSK	108	108	11.73	11.93	11.79			
40	QPSK	216	0	11.92	11.96	11.74	13.0	0.0	
40	16QAM	1	1	11.99	11.83	11.92	13.0	0.0	
40	64QAM	1	1	11.97	11.86	11.79	13.0	0.0	
40	256QAM	1	1	11.90	11.88	11.75	13.0	0.0	
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	13.0	0.0	
30	QPSK	1	1	11.74	11.82	11.51			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	11.80	11.75	11.51	13.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	11.74	11.78	11.57	13.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	11.72	11.85	11.59	13.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	11.73	11.83	11.52	13.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	11.80	11.84	11.63	13.0	0.0	

n66 Ant1 DSI3 Simultaneous									
BW [MHz]	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	20.71	20.69	20.60			
40	PI/2 BPSK	1	108	20.67	20.74	20.64	22.0	0.0	
40	PI/2 BPSK	1	214	20.64	20.72	20.60			
40	PI/2 BPSK	108	0	20.66	20.77	20.63	22.0	0.0	
40	PI/2 BPSK	108	54	20.67	20.71	20.68	22.0	0.0	
40	PI/2 BPSK	108	108	20.71	20.77	20.59			
40	PI/2 BPSK	216	0	20.68	20.74	20.62	22.0	0.0	
40	QPSK	1	1	20.78	20.83	20.73			
40	QPSK	1	108	20.63	20.69	20.63	22.0	0.0	
40	QPSK	1	214	20.64	20.72	20.61			
40	QPSK	108	0	20.68	20.70	20.59	22.0	0.0	
40	QPSK	108	54	20.71	20.76	20.59	22.0	0.0	
40	QPSK	108	108	20.71	20.74	20.80			
40	QPSK	216	0	20.73	20.74	20.63	22.0	0.0	
40	16QAM	1	1	20.67	20.70	20.66	22.0	0.0	
40	64QAM	1	1	20.56	20.66	20.58	21.5	0.5	
40	256QAM	1	1	18.65	18.75	18.70	19.5	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.65	20.70	20.62	22.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.65	20.76	20.61	22.0	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.67	20.73	20.66	22.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.65	20.68	20.66	22.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.73	20.72	20.63	22.0	0.0	



Part27Q n78 Ant2 DSI3 Simultaneous								
BW [MHz]	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		14.70			
100	PI/2 BPSK	1	137		14.53		15.6	0.0
100	PI/2 BPSK	1	271		14.36			
100	PI/2 BPSK	135	0		14.69		15.6	0.0
100	PI/2 BPSK	135	69		14.56		15.6	0.0
100	PI/2 BPSK	135	138		14.36		15.6	0.0
100	PI/2 BPSK	270	0		14.53			
100	QPSK	1	1		14.76			
100	QPSK	1	137		14.58		15.6	0.0
100	QPSK	1	271		14.40			
100	QPSK	135	0		14.55		15.6	0.0
100	QPSK	135	69		14.71		15.6	0.0
100	QPSK	135	138		14.40		15.6	0.0
100	QPSK	270	0		14.57			
100	16QAM	1	1		14.52		15.6	0.0
100	64QAM	1	1		14.48		15.6	0.0
100	256QAM	1	1		14.45		15.6	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	14.47	14.62	14.41	15.6	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.52	14.41	14.39	15.6	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.61	14.60	14.32	15.6	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.55	14.41	14.32	15.6	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.55	14.55	14.37	15.6	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.50	14.59	14.46	15.6	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.48	14.54	14.30	15.6	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	14.51	14.46	14.33	15.6	0.0



Part27Q n78 Ant3 DSI3 Simultaneous

BW [MHz]	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		10.44			
100	PI/2 BPSK	1	137		10.40		11.9	0.0
100	PI/2 BPSK	1	271		10.31			
100	PI/2 BPSK	135	0		10.25		11.9	0.0
100	PI/2 BPSK	135	69		10.40		11.9	0.0
100	PI/2 BPSK	135	138		10.25		11.9	0.0
100	PI/2 BPSK	270	0		10.36			
100	QPSK	1	1		10.65			
100	QPSK	1	137		10.58		11.9	0.0
100	QPSK	1	271		10.41			
100	QPSK	135	0		10.34		11.9	0.0
100	QPSK	135	69		10.58		11.9	0.0
100	QPSK	135	138		10.43		11.9	0.0
100	QPSK	270	0		10.44			
100	16QAM	1	1		10.47		11.9	0.0
100	64QAM	1	1		10.39		11.9	0.0
100	256QAM	1	1		10.31		11.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	10.13	10.26	10.04	11.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	10.08	10.32	10.09	11.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	10.09	10.32	10.00	11.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	10.10	10.28	10.05	11.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	10.10	10.31	10.02	11.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	10.13	10.30	10.01	11.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	10.14	10.27	10.05	11.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	10.09	10.31	10.00	11.9	0.0

n7 DSI7 Ant5 DSI3 Simultaneous								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	18.15	18.29	18.13		
40	PI/2 BPSK	1	108	17.81	18.00	17.75	19.5	0.0
40	PI/2 BPSK	1	214	18.00	18.07	17.98		
40	PI/2 BPSK	108	0	17.81	17.90	17.85	19.5	0.0
40	PI/2 BPSK	108	54	17.86	18.07	17.68	19.5	0.0
40	PI/2 BPSK	108	108	17.92	18.04	17.78		
40	PI/2 BPSK	216	0	17.85	18.01	17.94	19.5	0.0
40	QPSK	1	1	18.30	18.37	18.24		
40	QPSK	1	108	18.02	18.22	17.95	19.5	0.0
40	QPSK	1	214	18.14	18.24	18.10		
40	QPSK	108	0	18.08	18.08	18.05	19.5	0.0
40	QPSK	108	54	18.08	18.18	17.98	19.5	0.0
40	QPSK	108	108	18.11	18.15	18.06		
40	QPSK	216	0	17.99	18.22	18.05	19.5	0.0
40	16QAM	1	1	17.78	18.08	17.84	19.5	0.0
40	64QAM	1	1	17.92	17.98	17.86	19.5	0.0
40	256QAM	1	1	18.01	18.06	17.99	18.5	1.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.54	17.84	17.76	19.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	17.51	17.81	17.65	19.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	17.62	17.97	17.71	19.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.58	17.83	17.55	19.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.68	17.79	17.70	19.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.56	17.76	17.70	19.5	0.0



Part27Q n78 Ant5 DSI3 Simultaneous

BW [MHz]	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		17.17			
100	PI/2 BPSK	1	137		17.07		18.5	0.0
100	PI/2 BPSK	1	271		16.95			
100	PI/2 BPSK	135	0		17.08		18.5	0.0
100	PI/2 BPSK	135	69		17.03		18.5	0.0
100	PI/2 BPSK	135	138		17.01		18.5	0.0
100	PI/2 BPSK	270	0		17.26			
100	QPSK	1	1		17.32			
100	QPSK	1	137		17.12		18.5	0.0
100	QPSK	1	271		17.17			
100	QPSK	135	0		17.15		18.5	0.0
100	QPSK	135	69		17.27		18.5	0.0
100	QPSK	135	138		17.11		18.5	0.0
100	QPSK	270	0		17.22			
100	16QAM	1	1		17.20		18.5	0.0
100	64QAM	1	1		17.14		18.5	0.0
100	256QAM	1	1		17.19		18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.10	17.19	17.15	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.23	17.28	17.06	18.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.23	17.25	17.12	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.11	17.21	17.13	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.11	17.20	17.10	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.12	17.14	17.16	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.17	17.17	17.14	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.22	17.20	17.17	18.5	0.0



Part27Q n78 Ant7 DSI3 Simultaneous

BW [MHz]	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		17.70			
100	PI/2 BPSK	1	137		17.67		18.7	0.0
100	PI/2 BPSK	1	271		17.60			
100	PI/2 BPSK	135	0		17.63		18.7	0.0
100	PI/2 BPSK	135	69		17.74		18.7	0.0
100	PI/2 BPSK	135	138		17.48			
100	PI/2 BPSK	270	0		17.54		18.7	0.0
100	QPSK	1	1		17.75			
100	QPSK	1	137		17.71		18.7	0.0
100	QPSK	1	271		17.69			
100	QPSK	135	0		17.66		18.7	0.0
100	QPSK	135	69		17.72		18.7	0.0
100	QPSK	135	138		17.53			
100	QPSK	270	0		17.59		18.7	0.0
100	16QAM	1	1		17.65		18.7	0.0
100	64QAM	1	1		17.43		17.5	1.2
100	256QAM	1	1		15.28		15.5	3.2
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.57	17.65	17.55	18.7	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.60	17.74	17.61	18.7	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.63	17.68	17.59	18.7	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.61	17.67	17.53	18.7	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.57	17.70	17.57	18.7	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.56	17.74	17.54	18.7	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.57	17.66	17.55	18.7	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.60	17.66	17.52	18.7	0.0



Reduced Power Mode for DSI6

n2 Ant0 DSI6								
BW (MHz)	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	20.46	20.56	20.45	21.6	0.0
20	PI/2 BPSK	1	53	20.44	20.52	20.39		
20	PI/2 BPSK	1	104	20.38	20.51	20.45		
20	PI/2 BPSK	50	0	20.52	20.60	20.45	21.6	0.0
20	PI/2 BPSK	50	28	20.48	20.55	20.46	21.6	0.0
20	PI/2 BPSK	50	56	20.49	20.56	20.44	21.6	0.0
20	PI/2 BPSK	100	0	20.46	20.60	20.52		
20	QPSK	1	1	20.68	20.75	20.62	21.6	0.0
20	QPSK	1	53	20.48	20.54	20.42		
20	QPSK	1	104	20.47	20.56	20.50		
20	QPSK	50	0	20.43	20.58	20.52	21.6	0.0
20	QPSK	50	28	20.48	20.59	20.53	21.6	0.0
20	QPSK	50	56	20.45	20.51	20.43	21.6	0.0
20	QPSK	100	0	20.43	20.56	20.49		
20	16QAM	1	1	20.49	20.57	20.51	21.6	0.0
20	64QAM	1	1	20.27	20.39	20.32	21.5	0.1
20	256QAM	1	1	18.43	18.52	18.38	19.5	2.1
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1880	1902.5		
15	QPSK	1	1	20.53	20.54	20.52	21.6	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	20.52	20.53	20.48	21.6	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	20.49	20.50	20.50	21.6	0.0



n7 Ant1 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	20.73	20.86	20.76	22.1	0.0	
40	PI/2 BPSK	1	108	20.71	20.81	20.83			
40	PI/2 BPSK	1	214	20.75	20.88	20.76			
40	PI/2 BPSK	108	0	20.74	20.83	20.77	22.1	0.0	
40	PI/2 BPSK	108	54	20.76	20.90	20.78	22.1	0.0	
40	PI/2 BPSK	108	108	20.75	20.85	20.80			
40	PI/2 BPSK	216	0	20.74	20.89	20.77	22.1	0.0	
40	QPSK	1	1	20.84	20.96	20.91			
40	QPSK	1	108	20.73	20.88	20.85	22.1	0.0	
40	QPSK	1	214	20.75	20.91	20.82			
40	QPSK	108	0	20.71	20.73	20.79	22.1	0.0	
40	QPSK	108	54	20.71	20.85	20.82	22.1	0.0	
40	QPSK	108	108	20.67	20.72	20.72			
40	QPSK	216	0	20.69	20.73	20.71	22.1	0.0	
40	16QAM	1	1	20.72	20.84	20.83	22.1	0.6	
40	64QAM	1	1	20.80	20.89	20.78	21.5	0.6	
40	256QAM	1	1	18.47	18.58	18.48	19.5	2.6	
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	20.74	20.87	20.80	22.1	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	20.74	20.87	20.84	22.1	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	20.71	20.88	20.84	22.1	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.76	20.82	20.78	22.1	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.78	20.87	20.78	22.1	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.77	20.83	20.85	22.1	0.0	

n66 Ant1 DSI6									
BW [MHz]	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	22.12	22.34	22.21			
40	PI/2 BPSK	1	108	22.14	22.21	22.01	23.4	0.0	
40	PI/2 BPSK	1	214	21.98	22.11	22.00			
40	PI/2 BPSK	108	0	22.13	22.24	22.10	23.4	0.0	
40	PI/2 BPSK	108	54	22.16	22.15	22.14	23.4	0.0	
40	PI/2 BPSK	108	108	22.11	22.26	22.22			
40	PI/2 BPSK	216	0	22.18	22.14	22.10	23.4	0.0	
40	QPSK	1	1	22.36	22.39	22.27			
40	QPSK	1	108	22.10	22.22	22.03	23.4	0.0	
40	QPSK	1	214	22.06	21.95	21.80			
40	QPSK	108	0	22.22	22.28	22.16	23.0	0.4	
40	QPSK	108	54	22.05	22.20	22.18	23.4	0.0	
40	QPSK	108	108	22.15	22.25	22.11			
40	QPSK	216	0	22.20	22.28	22.17	23.0	0.4	
40	16QAM	1	1	22.13	22.21	22.13	23.0	0.4	
40	64QAM	1	1	20.56	20.66	20.58	21.5	1.9	
40	256QAM	1	1	18.65	18.75	18.70	19.5	3.9	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.04	22.07	22.01	23.4	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.16	22.20	22.07	23.4	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.20	22.24	22.14	23.4	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.18	22.23	22.10	23.4	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.04	22.13	22.13	23.4	0.0	



Part27Q n78 Ant2 DSI6

BW [MHz]	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		18.98			
100	Pi/2 BPSK	1	137		19.06		20.2	0.0
100	Pi/2 BPSK	1	271		18.99			
100	Pi/2 BPSK	135	0		19.01		20.2	0.0
100	Pi/2 BPSK	135	69		18.98		20.2	0.0
100	Pi/2 BPSK	135	138		18.97		20.2	0.0
100	Pi/2 BPSK	270	0		19.11			
100	QPSK	1	1		19.25			
100	QPSK	1	137		18.05		20.2	0.0
100	QPSK	1	271		18.99			
100	QPSK	135	0		18.97		20.2	0.0
100	QPSK	135	69		19.17		20.2	0.0
100	QPSK	135	138		19.11		20.2	0.0
100	QPSK	270	0		19.12		20.2	0.0
100	16QAM	1	1		19.13		20.2	0.0
100	64QAM	1	1		19.04		20.2	0.0
100	256QAM	1	1		18.08		19.5	0.7
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.02	19.12	19.00	20.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.98	19.14	19.09	20.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.05	19.20	19.05	20.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.97	19.20	19.09	20.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.00	19.17	19.06	20.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.04	19.12	19.06	20.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.03	19.10	19.01	20.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.02	19.19	19.00	20.2	0.0



Part27Q n78 Ant3 DSI6

BW [MHz]	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		17.09			
100	PI/2 BPSK	1	137		17.07		17.6	0.0
100	PI/2 BPSK	1	271		16.95			
100	PI/2 BPSK	135	0		16.95		17.6	0.0
100	PI/2 BPSK	135	69		17.04		17.6	0.0
100	PI/2 BPSK	135	138		17.02		17.6	0.0
100	PI/2 BPSK	270	0		16.98			
100	QPSK	1	1		17.11			
100	QPSK	1	137		16.97		17.6	0.0
100	QPSK	1	271		17.07			
100	QPSK	135	0		16.93		17.6	0.0
100	QPSK	135	69		17.05		17.6	0.0
100	QPSK	135	138		17.04		17.6	0.0
100	QPSK	270	0		17.02			
100	16QAM	1	1		16.92		17.6	0.0
100	64QAM	1	1		17.08		17.6	0.0
100	256QAM	1	1		16.92		17.6	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.99	17.05	16.89	17.6	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.98	17.02	16.89	17.6	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.91	17.00	16.82	17.6	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.92	16.99	16.82	17.6	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.91	17.00	16.86	17.6	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.96	16.98	16.89	17.6	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.91	16.97	16.86	17.6	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.98	17.04	16.83	17.6	0.0



n7 DSI6 Ant5 DSI6

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
40	504000	507000	510000		
Channel					
Frequency (MHz)					
40	2820	2835	2850		
40	19.74	19.82	19.67	20.9	0.0
40	19.76	19.78	19.64		
40	19.73	19.77	19.68		
40	19.70	19.73	19.67	20.9	0.0
40	19.77	19.79	19.66	20.9	0.0
40	19.75	19.75	19.72	20.9	0.0
40	19.70	19.81	19.72		
40	19.83	19.91	19.78		
40	19.71	19.78	19.69	20.9	0.0
40	19.75	19.77	19.64		
40	19.70	19.79	19.66	20.9	0.0
40	19.69	19.86	19.69	20.9	0.0
40	19.71	19.82	19.69	20.9	0.0
40	19.77	19.84	19.68		
40	19.70	19.77	19.71	20.9	0.0
40	19.73	19.78	19.64	20.9	0.0
40	18.01	18.06	17.99	19.5	1.4
Channel					
Frequency (MHz)					
30	503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	2515	2535	2555		
30	19.69	19.79	19.67	20.9	0.0
Channel					
Frequency (MHz)					
25	502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	2512.5	2535	2557.5		
25	19.77	19.83	19.71	20.9	0.0
Channel					
Frequency (MHz)					
20	502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	2510	2535	2560		
20	19.74	19.79	19.69	20.9	0.0
Channel					
Frequency (MHz)					
15	501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	2507.5	2535	2562.5		
15	19.76	19.85	19.67	20.9	0.0
Channel					
Frequency (MHz)					
10	501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	2505	2535	2565		
10	19.70	19.81	19.71	20.9	0.0
Channel					
Frequency (MHz)					
5	500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	2502.5	2535	2567.5		
5	19.77	19.80	19.67	20.9	0.0



Part27Q n78 Ant5 DSI6

BW [MHz]	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		17.17			
100	PI/2 BPSK	1	137		17.07		18.5	0.0
100	PI/2 BPSK	1	271		16.95			
100	PI/2 BPSK	135	0		17.08		18.5	0.0
100	PI/2 BPSK	135	69		17.03		18.5	0.0
100	PI/2 BPSK	135	138		17.01		18.5	0.0
100	PI/2 BPSK	270	0		17.26			
100	QPSK	1	1		17.32			
100	QPSK	1	137		17.12		18.5	0.0
100	QPSK	1	271		17.17			
100	QPSK	135	0		17.15		17.5	1.0
100	QPSK	135	69		17.27		18.5	0.0
100	QPSK	135	138		17.11		17.5	1.0
100	QPSK	270	0		17.22			
100	16QAM	1	1		17.20		18.5	0.0
100	64QAM	1	1		17.14		18.5	0.0
100	256QAM	1	1		17.19		18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.10	17.19	17.15	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.23	17.28	17.06	18.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.23	17.25	17.12	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.11	17.21	17.13	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.11	17.20	17.10	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.12	17.14	17.16	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.17	17.17	17.14	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.22	17.20	17.17	18.5	0.0



Part27Q n78 Ant7 DSI6

BW [MHz]	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	19.75	19.75	19.70	20.5	0.0
100	PI/2 BPSK	1	137	19.69	19.69		20.5	0.0
100	PI/2 BPSK	1	271	19.62	19.62		20.0	0.5
100	PI/2 BPSK	135	0	19.12	19.12		20.5	0.0
100	PI/2 BPSK	135	69	19.69	19.69		20.0	0.5
100	PI/2 BPSK	135	138	18.99	18.99		19.5	1.0
100	PI/2 BPSK	270	0	19.04	19.04		20.5	0.0
100	QPSK	1	1	19.81	19.81		19.5	1.0
100	QPSK	1	137	18.78	18.78		19.5	1.0
100	QPSK	1	271	19.67	19.67		19.5	1.0
100	QPSK	135	0	18.71	18.71		19.5	1.0
100	QPSK	135	69	19.74	19.74		19.5	1.0
100	QPSK	135	138	18.52	18.52		19.5	1.0
100	QPSK	270	0	18.56	18.56		19.5	1.0
100	16QAM	1	1	18.78	18.78		18.0	2.5
100	64QAM	1	1	17.43	17.43		16.0	4.5
100	256QAM	1	1	15.28	15.28			
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.75	19.75	19.70	20.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.71	19.77	19.78	20.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.78	19.70	19.77	20.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.75	19.68	19.78	20.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.69	19.69	19.74	20.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.71	19.72	19.78	20.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.75	19.73	19.72	20.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.70	19.67	19.70	20.5	0.0



WiFi & Bluetooth Power

2.4GHz WLAN				Full Power Head Standalone Extremity Standalone&Simultaneous		Head Simultaneous		Body worn Standalone		Body worn Simultaneous Hotspot		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			
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.23	20.50	15.65	17.00	18.76	20.00	14.72	16.00	100.00	
		6	2437	18.92	20.50	15.43	17.00	18.51	20.00	14.46	16.00		
		11	2462	19.21	20.50	15.83	17.00	18.72	20.00	14.62	16.00		
	802.11g 6Mbps	1	2412	18.09	19.50	Not Required	17.00	18.29	19.50	Not Required	16.00	98.28	
		6	2437	18.94	20.50			17.00	18.42				20.00
		10	2457	17.31	19.00			17.00	17.51				19.00
	802.11n-HT20 MCS0	1	2412	17.39	19.00	Not Required	17.00	19.00	Not Required	16.00	98.16		
		6	2437	18.76	20.50			17.00				20.00	
		10	2457	17.93	19.50			17.00				19.50	
	802.11n-HT40 MCS0	11	2462	15.36	17.00	Not Required	17.00	15.56	Not Required	16.00	94.93		
		3	2422	14.44	16.00			16.00				16.00	
		6	2437	15.46	17.00			16.00				17.00	
	9	2452	12.89	14.50		14.50				14.50			

5.2GHz WLAN				Full Power Head Standalone		Head Standalone		Head Simultaneous Body worn Standalone		Body worn Simultaneous Hotspot		Extremity 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					
5.2GHz WLAN	802.11a 6Mbps	36	5190	18.06	19.50	Not Required	16.00	14.00	Not Required	14.00	11.00	98.26					
		40	5200	17.87	19.50			16.00					14.00	11.00			
		44	5220	17.86	19.50			16.00					14.00	11.00			
		48	5240	17.47	19.00			16.00					14.00	11.00			
	802.11n-HT20 MCS0	36	5190	17.85	19.50			16.00				14.00	11.00	98.14			
		40	5200	17.78	19.50			16.00				14.00	11.00				
		44	5220	17.77	19.50			16.00				14.00	11.00				
	802.11n-HT40 MCS0	48	5240	17.33	19.00			16.00				14.00	11.00	96.30			
		38	5190	18.24	19.50			16.00				14.00	11.00				
	802.11ac-VHT20 MCS0	46	5230	18.19	19.50			16.00				14.00	11.00	98.15			
		36	5180	17.92	19.50			16.00				14.00	11.00				
		40	5200	17.82	19.50			16.00				14.00	11.00				
		44	5220	17.78	19.50			16.00				14.00	11.00				
	802.11ac-VHT40 MCS0	48	5240	17.49	19.00			16.00				14.00	11.00	96.30			
		38	5190	17.35	19.00			16.00				14.00	11.00				
	802.11ac-VHT80 MCS0	46	5230	17.17	18.50			16.00				14.00	11.00	92.17			
		42	5210	16.15	17.00			15.15				16.00	13.02		14.00	10.33	11.00

5.3GHz WLAN				Full Power Head Standalone		Head Standalone		Head Simultaneous Body worn Standalone		Body worn Simultaneous		Extremity 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					
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.84	19.50	Not Required	16.00	14.00	Not Required	14.00	11.00	98.26					
		56	5280	17.68	19.00			16.00					14.00	11.00			
		60	5300	17.71	19.00			16.00					14.00	11.00			
		64	5320	17.78	19.50			16.00					14.00	11.00			
	802.11n-HT20 MCS0	52	5260	17.88	19.50			16.00				14.00	11.00	98.14			
		56	5280	17.73	19.00			16.00				14.00	11.00				
		60	5300	17.60	19.00			16.00				14.00	11.00				
	802.11n-HT40 MCS0	64	5320	17.58	19.00			16.00				14.00	11.00	96.30			
		54	5270	17.89	19.50			16.00				14.00	11.00				
	802.11ac-VHT20 MCS0	62	5310	16.60	18.00			16.00				14.00	11.00	98.15			
		52	5260	17.89	19.50			16.00				14.00	11.00				
		56	5280	17.75	19.50			16.00				14.00	11.00				
		60	5300	17.62	19.00			16.00				14.00	11.00				
	802.11ac-VHT40 MCS0	64	5320	17.59	19.00			16.00				14.00	11.00	96.30			
		54	5270	16.88	18.50			16.00				14.00	11.00				
	802.11ac-VHT80 MCS0	62	5310	16.57	18.00			16.00				14.00	11.00	92.17			
		58	5290	15.51	17.00			14.55				16.00	12.59		14.00	9.53	11.00

5.5GHz WLAN				Full Power Head Standalone		Head Standalone		Head Simultaneous		Body worn Standalone		Body worn Simultaneous		Extremity Simultaneous		Duty Cycle %						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit								
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.99	19.50	Not Required	15.50	13.00	Not Required	13.00	15.00	11.50	98.26									
		116	5580	17.73	19.00			13.00						15.00								
		124	5620	17.54	19.00			13.00						15.00								
		132	5660	17.93	19.50			13.00						15.00								
		140	5700	18.20	19.50			13.00						15.00								
		144	5720	18.18	19.50			13.00						15.00								
	802.11n-HT20 MCS0	100	5500	17.85	19.50			15.50					13.00	15.00	98.14							
		116	5580	17.53	19.00			15.50					13.00	15.00								
		124	5620	17.51	19.00			15.50					13.00	15.00								
		132	5660	17.72	19.00			15.50					13.00	15.00								
		140	5700	17.99	19.50			15.50					13.00	15.00								
		144	5720	17.94	19.50			15.50					13.00	15.00								
	802.11n-HT40 MCS0	102	5510	15.69	17.50			15.50					13.00	15.00	96.30							
		110	5550	17.70	19.00			15.50					13.00	15.00								
		126	5630	17.59	19.00			15.50					13.00	15.00								
		134	5670	17.81	19.50			15.50					13.00	15.00								
		142	5710	18.28	19.50			15.50					13.00	15.00								
		144	5720	18.00	19.50			15.50					13.00	15.00								
	802.11ac-VHT20 MCS0	100	5500	17.90	19.50			15.50					13.00	15.00	98.15							
		116	5580	17.56	19.00			15.50					13.00	15.00								
		124	5620	17.53	19.00			15.50					13.00	15.00								
		132	5660	17.73	19.00			15.50					13.00	15.00								
		140	5700	18.01	19.50			15.50					13.00	15.00								
		144	5720	18.00	19.50			15.50					13.00	15.00								
	802.11ac-VHT40 MCS0	102	5510	15.85	17.50			15.50					13.00	15.00	96.30							
		110	5550	16.80	18.50			15.50					13.00	15.00								
		126	5630	16.62	18.00			15.50					13.00	15.00								
		134	5670	16.81	18.50			15.50					13.00	15.00								
		142	5710	17.34	19.00			15.50					13.00	15.00								
		144	5720	17.34	19.00			15.50					13.00	15.00								
	802.11ac-VHT80 MCS0	106	5530	13.92	15.50			13.92					15.50	13.51	15.00	10.41	11.50	13.92	15.50	92.17		
		122	5610	15.20	16.50			13.59					15.50	11.11	13.00	13.15	15.00	9.73	11.50		15.20	16.50
		138	5690	15.90	17.50			14.20					15.50	12.01	13.00	13.97	15.00	10.75	11.50		15.90	17.50



5.8GHz WLAN				Full Power Extremity Standalone		Head Standalone		Head Simultaneous		Body worn Standalone Extremity Simultaneous		Body worn Simultaneous Hotspot			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	18.06	19.50	Not Required	18.00	Not Required	14.50	Not Required	16.00	Not Required	12.00	98.26	
		157	5785	17.93	19.50		18.00		14.50		16.00		12.00		
		165	5825	17.59	19.00		18.00		14.50		16.00		12.00		
	802.11n-HT20 MCS0	149	5745	17.84	19.50	Not Required	18.00	Not Required	14.50	Not Required	16.00	Not Required	12.00	98.14	
		157	5785	17.70	19.00		18.00		14.50		16.00		12.00		
		165	5825	17.55	19.00		18.00		14.50		16.00		12.00		
	802.11n-HT40 MCS0	151	5755	18.35	20.00	Not Required	16.41	Not Required	16.00	Not Required	16.00	Not Required	12.00	96.30	
		159	5795	18.25	20.00		16.25		18.00		14.50		16.00		12.00
	802.11ac-VHT20 MCS0	149	5745	17.85	19.50	Not Required	18.00	Not Required	14.50	Not Required	16.00	Not Required	12.00	98.15	
		157	5785	17.71	19.00		18.00		14.50		16.00		12.00		
		165	5825	17.56	19.00		18.00		14.50		16.00		12.00		
	802.11ac-VHT40 MCS0	151	5755	17.17	18.50	Not Required	18.00	Not Required	14.50	Not Required	16.00	Not Required	12.00	96.30	
		159	5795	16.88	18.50		18.00		14.50		16.00		12.00		
	802.11ac-VHT80 MCS0	155	5775	16.24	17.50	Not Required	17.50	13.72	14.50	14.98	16.00	11.15	12.00	92.17	

BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.40	9.23	9.36
	CH 39	2441	11.89	9.02	9.43
	CH 78	2480	12.36	9.41	9.55
Tune-up Limit			13	10.5	10.5

BLE 1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	1.49
	CH 19	2440	1.58
	CH 39	2480	2.61
Tune-up Limit			3

BLE 2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	1.45	
	CH 19	2440	1.61	
	CH 39	2480	2.64	
Tune-up Limit			3.00	