

DSH1 Power Mode for Head

GSM850 Ant 1 DSH1									
GSM850	Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)			Tune-up	
TX Channel	129	189	261	Limit	129	189	261	Limit	261
Frequency (MHz)	824.2	836.4	848.6	(dBm)	824.2	836.4	848.6	(dBm)	(dBm)
GSM 1 Tx slot	32.05	32.09	32.03	33.50	23.05	23.09	23.03	24.50	
GPRS 1 Tx slot	32.15	32.18	32.16	33.50	23.15	23.18	23.16	24.50	
GPRS 2 Tx slots	30.03	30.04	29.99	31.00	24.03	24.04	23.99	25.00	
GPRS 3 Tx slots	28.33	28.34	28.31	29.50	24.07	24.08	24.05	25.24	
GPRS 4 Tx slots	26.44	26.46	26.39	27.50	23.44	23.46	23.39	24.50	
EDGE 1 Tx slot	26.75	27.03	27.08	28.00	17.75	18.03	18.08	19.00	
EDGE 2 Tx slots	24.21	24.50	24.57	25.50	18.21	18.50	18.57	19.50	
EDGE 3 Tx slots	22.57	22.81	22.89	24.00	18.31	18.55	18.63	19.74	
EDGE 4 Tx slots	21.21	21.43	21.56	22.50	18.21	18.43	18.56	19.50	

GSM1900 Ant 1 DSH1									
GSM1900	Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)			Tune-up	
TX Channel	512	661	810	Limit	512	661	810	Limit	810
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)	(dBm)
GSM 1 Tx slot	29.64	29.49	29.59	30.50	20.64	20.49	20.59	21.50	
GPRS 1 Tx slot	29.63	29.50	29.61	30.50	20.63	20.50	20.61	21.50	
GPRS 2 Tx slots	27.14	26.69	27.20	28.00	21.14	20.99	21.20	22.00	
GPRS 3 Tx slots	25.33	25.47	25.31	26.50	21.07	21.21	21.05	22.24	
GPRS 4 Tx slots	24.05	23.91	24.13	25.00	21.05	20.91	21.13	22.00	
EDGE 1 Tx slot	26.01	25.87	25.96	27.00	17.01	16.87	16.96	18.00	
EDGE 2 Tx slots	23.57	23.46	23.47	24.50	17.57	17.46	17.47	18.50	
EDGE 3 Tx slots	21.83	21.80	21.81	23.00	17.57	17.54	17.55	18.74	
EDGE 4 Tx slots	20.45	20.35	20.37	21.50	17.45	17.35	17.37	18.50	

WCDMA 8 Ant 1 DSH1									
WCDMA 8				Tune-up	WCDMA 4				Tune-up
Band	9262	9400	9638	Limit	1312	1413	1513	Limit	1513
TX Channel	9662	9800	9938	(dBm)	1537	1638	1738	Limit	1738
Frequency (MHz)	1852.4	1860	1867.6	(dBm)	1722.4	1722.6	1822.6	(dBm)	(dBm)
3GPP Rel 99	AMR 12.2Kbps	24.16	24.13	24.06	25.50	24.14	24.17	24.03	25.50
3GPP Rel 99	RMC	24.27	24.29	24.18	25.50	24.18	24.27	24.07	25.50
3GPP Rel 6	HSDPA Subtest-1	23.15	23.17	23.13	24.50	23.03	23.18	22.95	24.50
3GPP Rel 6	HSDPA Subtest-2	23.05	23.13	23.07	24.50	22.97	23.10	22.81	24.50
3GPP Rel 6	HSDPA Subtest-3	22.62	22.58	22.57	24.50	22.59	22.65	22.51	24.50
3GPP Rel 6	HSDPA Subtest-4	22.58	22.63	22.53	24.50	22.58	22.54	22.59	24.50
3GPP Rel 6	DC-HSDPA Subtest-1	23.23	23.22	23.24	25.00	23.07	23.22	23.17	25.00
3GPP Rel 6	DC-HSDPA Subtest-2	23.17	23.12	23.16	25.00	23.06	23.05	23.14	25.00
3GPP Rel 6	DC-HSDPA Subtest-3	22.96	22.92	22.89	24.50	22.93	22.75	22.59	24.50
3GPP Rel 6	DC-HSDPA Subtest-4	22.87	22.93	22.91	24.50	22.98	22.95	22.95	24.50
3GPP Rel 6	HSUPA Subtest-1	21.20	21.25	21.13	23.00	21.02	21.23	21.02	23.00
3GPP Rel 6	HSUPA Subtest-2	21.16	21.21	21.05	23.00	21.01	21.20	21.01	23.00
3GPP Rel 6	HSUPA Subtest-3	22.15	22.14	22.13	24.00	22.01	22.19	22.01	24.00
3GPP Rel 6	HSUPA Subtest-4	20.64	20.66	20.63	22.50	20.59	20.70	20.59	22.50
3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.10	24.00	22.10	22.20	22.10	24.00

WCDMA V Ant 1 DSH1				
WCDMA V				Tune-up
4132	4162	4203	Limit	4203
4367	4407	4468	(dBm)	(dBm)
Frequency (MHz)	226.4	236.4	246.6	(dBm)
3GPP Rel 99	AMR 12.2Kbps	24.16	24.13	24.06
3GPP Rel 99	RMC	24.27	24.29	24.18
3GPP Rel 6	HSDPA Subtest-1	23.15	23.17	23.13
3GPP Rel 6	HSDPA Subtest-2	23.05	23.13	23.07
3GPP Rel 6	HSDPA Subtest-3	22.62	22.58	22.57
3GPP Rel 6	HSDPA Subtest-4	22.58	22.63	22.53
3GPP Rel 6	DC-HSDPA Subtest-1	23.23	23.22	23.24
3GPP Rel 6	DC-HSDPA Subtest-2	23.17	23.12	23.16
3GPP Rel 6	DC-HSDPA Subtest-3	22.96	22.92	22.89
3GPP Rel 6	DC-HSDPA Subtest-4	22.87	22.93	22.91
3GPP Rel 6	HSUPA Subtest-1	21.20	21.25	21.13
3GPP Rel 6	HSUPA Subtest-2	21.16	21.21	21.05
3GPP Rel 6	HSUPA Subtest-3	22.15	22.14	22.13
3GPP Rel 6	HSUPA Subtest-4	20.64	20.66	20.63
3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.10

Band 2 Ant1 DSI1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.00	24.18	23.95	25.5	0		
20	QPSK	1	49	24.04	24.12	24.00				
20	QPSK	1	99	23.86	23.98	23.89				
20	QPSK	50	0	22.97	23.20	23.05	24.5	1		
20	QPSK	50	24	23.05	23.12	23.07				
20	QPSK	50	50	23.04	23.02	22.98				
20	QPSK	100	0	22.88	23.00	22.93	24.5	1		
20	16QAM	1	0	23.18	23.25	23.21				
20	16QAM	1	49	23.23	23.22	23.03				
20	16QAM	1	99	23.01	23.17	22.96	23.5	2		
20	16QAM	50	0	21.99	21.99	22.05				
20	16QAM	50	24	22.15	22.14	22.01				
20	16QAM	50	50	21.97	22.09	21.85	23.5	2		
20	16QAM	100	0	21.92	22.11	21.98				
20	64QAM	1	0	22.21	22.23	22.14				
20	64QAM	1	49	22.23	22.20	22.25	23.5	2		
20	64QAM	1	99	21.97	22.05	21.99				
20	64QAM	50	0	21.03	21.01	21.14				
20	64QAM	50	24	21.19	21.14	21.15	22.5	3		
20	64QAM	50	50	21.05	21.09	20.97				
20	64QAM	100	0	21.02	21.05	21.04				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.88	24.11	23.82	25.5	0		
15	QPSK	1	37	24.05	23.91	23.99				
15	QPSK	1	74	23.79	23.76	23.82				
15	QPSK	36	0	22.95	23.15	22.95	24.5	1		
15	QPSK	36	20	22.85	22.97	22.98				
15	QPSK	36	39	23.03	22.98	22.79				
15	QPSK	75	0	22.83	22.98	22.78	24.5	1		
15	16QAM	1	0	22.97	23.05	23.10				
15	16QAM	1	37	23.08	23.07	23.00				
15	16QAM	1	74	22.89	22.99	22.81	23.5	2		
15	16QAM	36	0	21.88	21.92	21.93				
15	16QAM	36	20	22.04	21.99	21.96				
15	16QAM	36	39	21.97	21.92	21.88	23.5	2		
15	16QAM	75	0	21.86	22.10	21.90				
15	64QAM	1	0	22.03	22.23	21.95				
15	64QAM	1	37	22.12	22.10	22.24	23.5	2		
15	64QAM	1	74	21.98	21.88	22.00				
15	64QAM	36	0	20.90	20.88	20.94				
15	64QAM	36	20	21.11	20.99	20.97	22.5	3		
15	64QAM	36	39	20.93	20.85	20.92				
15	64QAM	75	0	20.93	20.87	20.96				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.88	24.06	23.93	25.5	0		
10	QPSK	1	25	23.94	23.93	23.99				
10	QPSK	1	49	23.75	23.85	23.79				
10	QPSK	25	0	22.83	23.01	22.97	24.5	1		
10	QPSK	25	12	23.02	23.08	23.08				
10	QPSK	25	25	22.92	22.88	22.82				
10	QPSK	50	0	22.94	22.84	22.95	24.5	1		
10	16QAM	1	0	23.13	23.14	23.16				
10	16QAM	1	25	23.05	23.20	22.93				
10	16QAM	1	49	22.99	23.18	22.89	23.5	2		
10	16QAM	25	0	21.88	21.83	21.91				
10	16QAM	25	12	22.01	22.08	21.98				
10	16QAM	25	25	21.89	22.08	21.89	23.5	2		
10	16QAM	50	0	21.91	22.11	21.82				
10	84QAM	1	0	22.12	22.21	22.08				
10	84QAM	1	25	22.11	22.22	22.21	23.5	2		
10	84QAM	1	49	21.93	21.92	21.90				
10	84QAM	25	0	20.86	21.01	21.09				
10	84QAM	25	12	20.97	21.15	21.11	22.5	3		
10	84QAM	25	25	20.86	20.93	20.86				
10	84QAM	50	0	20.83	20.94	20.86				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.88	23.98	23.75	25.5	0		
5	QPSK	1	12	23.99	24.10	23.80				
5	QPSK	1	24	23.72	23.92	23.73				
5	QPSK	12	0	22.80	23.18	22.97	24.5	1		
5	QPSK	12	7	23.01	22.97	22.90				
5	QPSK	12	13	22.89	22.97	22.96				
5	QPSK	25	0	22.86	22.96	22.84	24.5	1		
5	16QAM	1	0	23.06	23.07	23.05				
5	16QAM	1	12	23.12	23.21	22.92				
5	16QAM	1	24	22.85	23.16	22.86	23.5	2		
5	16QAM	12	0	21.97	21.97	21.97				
5	16QAM	12	7	22.12	22.00	21.79				
5	16QAM	12	13	21.76	21.91	21.75	23.5	2		
5	16QAM	25	0	21.71	21.88	21.91				
5	84QAM	1	0	22.18	22.14	22.16				
5	84QAM	1	12	22.02	22.04	22.21	23.5	2		
5	84QAM	1	24	21.98	21.93	21.86				
5	84QAM	12	0	20.89	20.91	21.02				
5	84QAM	12	7	21.10	21.11	20.96	22.5	3		
5	84QAM	12	13	20.93	20.87	20.94				
5	84QAM	25	0	20.97	20.88	20.93				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.91	23.92	23.80	25.5	0		
3	QPSK	1	8	23.89	23.82	23.76				
3	QPSK	1	14	23.58	23.79	23.61				
3	QPSK	8	0	22.79	23.04	22.83	24.5	1		
3	QPSK	8	4	22.88	22.91	22.88				
3	QPSK	8	7	22.79	22.87	22.73				
3	QPSK	15	0	22.74	22.83	22.68	24.5	1		
3	16QAM	1	0	23.05	23.01	23.12				
3	16QAM	1	8	23.03	22.98	22.92				
3	16QAM	1	14	22.89	22.92	22.82	23.5	2		
3	16QAM	8	0	21.79	21.73	21.74				
3	16QAM	8	4	22.07	21.89	21.84				
3	16QAM	8	7	21.75	21.83	21.73	23.5	2		
3	16QAM	15	0	21.80	21.89	21.78				
3	84QAM	1	0	21.94	21.98	21.86				
3	84QAM	1	8	21.98	21.94	22.02	23.5	2		
3	84QAM	1	14	21.80	21.80	21.81				
3	84QAM	8	0	20.95	20.91	20.99				
3	84QAM	8	4	21.00	20.85	21.04	22.5	3		
3	84QAM	8	7	20.91	20.80	20.71				
3	84QAM	15	0	20.70	20.89	20.76				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.91	23.97	23.72	25.5	0		
1.4	QPSK	1	3	23.79	23.80	23.87				
1.4	QPSK	1	5	23.70	23.75	23.85				
1.4	QPSK	3	0	23.91	23.78	23.72	24.5	1		
1.4	QPSK	3	1	23.64	23.82	23.87				
1.4	QPSK	3	3	23.68	23.59	23.53				
1.4	QPSK	6	0	22.70	22.75	22.76	24.5	1		
1.4	16QAM	1	0	22.87	23.06	22.89				
1.4	16QAM	1	3	23.07	22.95	22.97				
1.4	16QAM	3	0	22.74	22.85	22.79	24.5	1		
1.4	16QAM	3	1	22.80	23.00	22.91				
1.4	16QAM	3	3	22.98	22.81	22.58				
1.4	16QAM	6	0	21.64	21.99	21.81	23.5	2		
1.4	84QAM	1	0	21.92	21.94	21.95				
1.4	84QAM	1	3	22.12	21.93	21.94				
1.4	84QAM	1	5	21.82	21.84	21.77	23.5	2		
1.4	84QAM	3	0	21.92	21.79	21.99				
1.4	84QAM	3	1	21.99	21.85	21.94				
1.4	84QAM	3	3	21.90	21.93	21.88	22.5	3		
1.4	84QAM	6	0	20.86	20.89	20.80				

Band 4 Ant1 DSI1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 20050	Power Middle Ch./Freq. 20175	Power High Ch./Freq. 20300	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	24.04	24.16	23.92	25.5	0
20	QPSK	1	49	24.11	24.07	24.14		
20	QPSK	1	99	23.89	23.85	23.97		
20	QPSK	50	0	23.03	23.18	23.00		
20	QPSK	50	24	23.08	23.15	23.06	24.5	1
20	QPSK	50	50	23.03	23.09	22.97		
20	QPSK	100	0	23.05	23.09	23.00		
20	16QAM	1	0	23.17	23.23	23.04		
20	16QAM	1	49	23.19	23.26	23.23	24.5	1
20	16QAM	1	99	23.04	22.92	22.98		
20	16QAM	50	0	22.14	22.09	22.17		
20	16QAM	50	24	22.32	22.22	22.11		
20	16QAM	50	50	22.25	22.21	22.14	23.5	2
20	16QAM	100	0	22.16	22.11	21.96		
20	64QAM	1	0	21.94	22.23	21.97		
20	64QAM	1	49	22.17	22.26	22.18		
20	64QAM	1	99	22.07	22.00	21.93	23.5	2
20	64QAM	50	0	21.05	21.14	21.07		
20	64QAM	50	24	21.22	21.13	21.08		
20	64QAM	50	50	21.18	21.01	20.96		
20	64QAM	100	0	21.21	21.15	21.04	22.5	3
Channel				1717.5 <th>1732.5</th> <th>1747.5</th>	1732.5	1747.5		
Frequency (MHz)				1717.5 <th>1732.5</th> <th>1747.5</th>	1732.5	1747.5		
15	QPSK	1	0	23.85	24.07	23.89		
15	QPSK	1	37	23.93	23.88	24.09		
15	QPSK	1	74	23.73	23.86	23.83		
15	QPSK	36	0	22.86	23.06	22.83		
15	QPSK	36	20	23.04	22.95	23.00	24.5	1
15	QPSK	36	39	22.95	22.98	22.76		
15	QPSK	75	0	22.94	23.09	22.94		
15	16QAM	1	0	23.06	23.12	23.03		
15	16QAM	1	37	23.12	23.13	23.10	24.5	1
15	16QAM	1	74	23.01	22.87	22.95		
15	16QAM	36	0	21.99	22.05	22.14		
15	16QAM	36	20	22.19	22.13	22.00		
15	16QAM	36	39	22.10	22.02	21.90	23.5	2
15	16QAM	75	0	22.16	21.99	21.87		
15	64QAM	1	0	21.93	22.15	21.96		
15	64QAM	1	37	22.02	22.15	21.91		
15	64QAM	1	74	22.05	21.81	21.79	23.5	2
15	64QAM	36	0	21.02	21.14	20.99		
15	64QAM	36	20	21.12	21.00	20.95		
15	64QAM	36	39	21.11	20.91	20.90		
15	64QAM	75	0	21.12	21.00	21.06	22.5	3
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	24.03	24.02	23.79		
10	QPSK	1	25	24.07	24.03	24.08		
10	QPSK	1	49	23.72	23.85	23.83		
10	QPSK	25	0	22.88	23.12	22.80		
10	QPSK	25	12	22.87	23.04	22.91	24.5	1
10	QPSK	25	25	22.95	22.88	22.88		
10	QPSK	50	0	23.00	22.99	22.98		
10	16QAM	1	0	23.07	23.23	22.93		
10	16QAM	1	25	23.11	23.23	23.09	24.5	1
10	16QAM	1	49	22.87	22.86	22.85		
10	16QAM	25	0	21.93	22.17	22.17		
10	16QAM	25	12	22.11	22.18	22.12		
10	16QAM	25	25	22.11	22.07	22.11	23.5	2
10	16QAM	50	0	22.16	22.23	21.81		
10	64QAM	1	0	21.87	22.06	21.90		
10	64QAM	1	25	22.17	22.07	21.97		
10	64QAM	1	49	22.02	21.79	21.92	23.5	2
10	64QAM	25	0	21.03	20.97	21.00		
10	64QAM	25	12	21.05	21.01	20.97		
10	64QAM	25	25	21.12	20.90	20.98		
10	64QAM	50	0	21.02	21.12	20.89	22.5	3
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	23.85	23.95	23.71		
5	QPSK	1	12	24.02	23.81	23.85		
5	QPSK	1	24	23.68	23.72	23.73		
5	QPSK	12	0	22.84	22.91	22.78		
5	QPSK	12	13	22.87	22.90	22.85	24.5	1
5	QPSK	12	13	22.86	22.77	22.81		
5	QPSK	25	0	22.87	23.00	22.79		
5	16QAM	1	0	22.99	23.11	22.89		
5	16QAM	1	12	23.06	22.98	23.13	24.5	1
5	16QAM	1	24	22.89	22.83	22.76		
5	16QAM	12	0	21.85	21.98	22.06		
5	16QAM	12	7	22.10	21.92	22.04		
5	16QAM	12	13	22.10	22.01	21.82	23.5	2
5	16QAM	25	0	22.04	21.97	21.86		
5	64QAM	1	0	21.80	22.02	21.69		
5	64QAM	1	12	21.96	22.00	21.98		
5	64QAM	1	24	21.95	21.81	21.68	23.5	2
5	64QAM	12	0	20.86	20.85	20.78		
5	64QAM	12	7	21.12	20.91	20.92		
5	64QAM	12	13	21.00	20.91	20.86		
5	64QAM	25	0	21.06	21.05	20.82	22.5	3
Channel				19965 <th>20175</th> <th>20385</th>	20175	20385		
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	23.90	23.91	23.63		
3	QPSK	1	8	23.84	23.81	23.98		
3	QPSK	1	14	23.78	23.71	23.79		
3	QPSK	8	0	22.91	23.01	22.86		
3	QPSK	8	4	22.83	22.87	22.86	24.5	1
3	QPSK	8	7	23.05	22.84	22.83		
3	QPSK	15	0	22.89	22.84	22.73		
3	16QAM	1	0	22.95	23.02	22.91		
3	16QAM	1	8	22.91	22.95	22.91	24.5	1
3	16QAM	1	14	22.76	22.79	22.83		
3	16QAM	8	0	22.02	21.78	21.87		
3	16QAM	8	4	22.11	22.02	21.91		
3	16QAM	8	7	22.05	21.91	21.84	23.5	2
3	16QAM	15	0	21.95	21.89	21.71		
3	64QAM	1	0	21.77	22.01	21.77		
3	64QAM	1	8	22.07	22.01	21.96		
3	64QAM	1	14	21.98	21.72	21.83	23.5	2
3	64QAM	8	0	20.88	20.89	20.92		
3	64QAM	8	4	21.10	20.76	20.97		
3	64QAM	8	7	21.00	20.89	20.78		
3	64QAM	15	0	20.97	20.97	20.79	22.5	3
Channel				19957	20175	20393		
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	23.80	24.04	23.76		
1.4	QPSK	1	3	23.90	23.91	23.82		
1.4	QPSK	1	5	23.76	23.67	23.84		
1.4	QPSK	3	0	23.66	23.83	23.59		
1.4	QPSK	3	1	23.77	23.59	23.68	24.5	1
1.4	QPSK	3	3	23.78	23.63	23.76		
1.4	QPSK	6	0	22.89	22.93	22.71		
1.4	16QAM	1	0	23.02	23.14	22.93		
1.4	16QAM	1	3	22.95	23.09	23.14	24.5	1
1.4	16QAM	1	5	22.78	22.55	22.81		
1.4	16QAM	3	0	22.98	23.12	22.78		
1.4	16QAM	3	1	22.74	22.99	23.07		
1.4	16QAM	3	3	22.80	22.76	22.77	23.5	2
1.4	16QAM	6	0	22.02	21.90	21.63		
1.4	64QAM	1	0	21.81	22.04	21.86		
1.4	64QAM	1	3	21.86	22.01	22.04		
1.4	64QAM	1	5	21.85	21.79	21.75	23.5	2
1.4	64QAM	1	8	21.96	21.83	21.84		
1.4	64QAM	3	1	21.91	21.84	21.81		
1.4	64QAM	3	3	21.97	21.92	21.79		
1.4	64QAM	6	0	21.10	20.88	20.73	22.5	3

Band 7 Ant1 DS11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.84	23.82	23.79	25.5	0
20	QPSK	1	49	23.88	23.82	23.79		
20	QPSK	1	99	23.88	23.75	23.70		
20	QPSK	50	0	22.77	22.98	22.92	24.5	1
20	QPSK	50	24	22.91	22.94	22.88		
20	QPSK	50	50	22.83	22.90	22.76		
20	QPSK	100	0	22.81	22.86	22.77	24.5	1
20	16QAM	1	0	22.79	22.84	22.72		
20	16QAM	1	49	22.91	22.88	22.82		
20	16QAM	1	99	22.81	22.84	22.79	23.5	2
20	16QAM	50	0	21.68	21.75	21.83		
20	16QAM	50	24	21.95	21.92	21.96		
20	16QAM	50	50	21.90	21.91	21.87	23.5	2
20	16QAM	100	0	21.81	21.76	21.70		
20	64QAM	1	0	21.86	21.78	21.69		
20	64QAM	1	49	21.99	21.96	21.82	23.5	2
20	64QAM	1	99	21.84	21.91	21.83		
20	64QAM	50	0	20.79	20.87	20.79		
20	64QAM	50	24	20.91	20.81	20.91	22.5	3
20	64QAM	50	50	20.90	20.91	20.70		
20	64QAM	100	0	20.88	20.85	20.88		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.73	23.81	23.66	25.5	0
15	QPSK	1	37	23.86	23.78	23.69		
15	QPSK	1	74	23.77	23.64	23.69		
15	QPSK	36	0	22.90	22.76	22.90	24.5	1
15	QPSK	36	20	22.70	22.86	22.77		
15	QPSK	36	39	22.68	22.82	22.85		
15	QPSK	75	0	22.68	22.80	22.73	24.5	1
15	16QAM	1	0	22.59	22.72	22.84		
15	16QAM	1	37	22.90	22.84	22.80		
15	16QAM	1	74	22.78	22.85	22.75	23.5	2
15	16QAM	36	0	21.56	21.58	21.81		
15	16QAM	36	20	21.91	21.89	21.84		
15	16QAM	36	39	21.80	21.84	21.52	23.5	2
15	16QAM	75	0	21.61	21.72	21.70		
15	64QAM	1	0	21.86	21.74	21.84		
15	64QAM	1	37	21.94	21.88	21.85	23.5	2
15	64QAM	1	74	21.82	21.87	21.77		
15	64QAM	36	0	20.69	20.76	20.73		
15	64QAM	36	20	20.78	20.72	20.79	22.5	3
15	64QAM	36	39	20.75	20.79	20.66		
15	64QAM	75	0	20.82	20.85	20.66		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.65	23.88	23.73	25.5	0
10	QPSK	1	25	23.89	23.74	23.61		
10	QPSK	1	49	23.84	23.70	23.56		
10	QPSK	25	0	22.69	22.84	22.80	24.5	1
10	QPSK	25	12	22.83	22.79	22.78		
10	QPSK	25	25	22.64	22.82	22.59		
10	QPSK	50	0	22.68	22.72	22.75	24.5	1
10	16QAM	1	0	22.58	22.71	22.58		
10	16QAM	1	25	22.75	22.71	22.75		
10	16QAM	1	49	22.67	22.78	22.67	23.5	2
10	16QAM	25	0	21.57	21.64	21.84		
10	16QAM	25	12	21.74	21.80	21.79		
10	16QAM	25	25	21.89	21.82	21.66	23.5	2
10	16QAM	50	0	21.76	21.71	21.69		
10	64QAM	1	0	21.77	21.80	21.78		
10	64QAM	1	25	21.86	21.74	21.65	23.5	2
10	64QAM	1	49	21.82	21.86	21.75		
10	64QAM	25	0	20.70	20.84	20.58		
10	64QAM	25	12	20.84	20.69	20.85	22.5	3
10	64QAM	25	25	20.74	20.81	20.57		
10	64QAM	50	0	20.83	20.85	20.56		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.74	23.71	23.63	25.5	0
5	QPSK	1	12	23.70	23.69	23.56		
5	QPSK	1	24	23.74	23.64	23.58		
5	QPSK	12	0	22.56	22.82	22.83	24.5	1
5	QPSK	12	7	22.81	22.83	22.71		
5	QPSK	12	13	22.66	22.81	22.56		
5	QPSK	25	0	22.61	22.75	22.59	24.5	1
5	16QAM	1	0	22.60	22.56	22.57		
5	16QAM	1	12	22.76	22.76	22.55		
5	16QAM	1	24	22.64	22.67	22.57	23.5	2
5	16QAM	12	0	21.69	21.70	21.60		
5	16QAM	12	7	21.72	21.77	21.65		
5	16QAM	12	13	21.74	21.69	21.77	23.5	2
5	16QAM	25	0	21.55	21.57	21.57		
5	64QAM	1	0	21.75	21.50	21.54		
5	64QAM	1	12	21.73	21.74	21.74	23.5	2
5	64QAM	1	24	21.83	21.82	21.62		
5	64QAM	12	0	20.59	20.71	20.63		
5	64QAM	12	7	20.61	20.71	20.63	22.5	3
5	64QAM	12	13	20.61	20.69	20.60		
5	64QAM	25	0	20.77	20.70	20.51		

Band 12 Ant1 DS11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.23	24.27	24.26	25.5	0
10	QPSK	1	25	24.22	24.25	24.23		
10	QPSK	1	49	24.10	24.15	24.16		
10	QPSK	25	0	23.09	23.36	23.15	24.5	1
10	QPSK	25	12	23.27	23.27	23.30		
10	QPSK	25	25	23.16	23.24	23.21		
10	QPSK	50	0	23.05	23.25	23.19	24.5	1
10	16QAM	1	0	22.99	23.25	23.09		
10	16QAM	1	25	23.13	23.20	23.16		
10	16QAM	1	49	23.15	23.19	23.18	23.5	2
10	16QAM	25	0	22.16	22.35	22.10		
10	16QAM	25	12	22.26	22.24	22.27		
10	16QAM	25	25	22.35	22.19	22.13	23.5	2
10	16QAM	50	0	22.25	22.14	22.15		
10	64QAM	1	0	22.09	22.24	22.07		
10	64QAM	1	25	22.11	22.21	22.19	22.5	3
10	64QAM	1	49	22.18	22.20	22.18		
10	64QAM	25	0	20.99	21.22	21.01		
10	64QAM	25	12	21.16	21.15	21.15	22.5	3
10	64QAM	25	25	21.13	21.09	21.04		
10	64QAM	50	0	21.17	21.02	21.04		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.10	24.24	24.11	25.5	0
5	QPSK	1	12	24.11	24.16	24.14		
5	QPSK	1	24	24.04	24.13	24.05		
5	QPSK	12	0	22.93	23.30	23.03	24.5	1
5	QPSK	12	7	23.23	23.20	23.18		
5	QPSK	12	13	23.11	23.14	23.16		
5	QPSK	25	0	23.13	23.10	23.03	24.5	1
5	16QAM	1	0	22.92	23.11	22.99		
5	16QAM	1	12	23.03	23.17	23.12		
5	16QAM	1	24	22.99	23.15	23.01	23.5	2
5	16QAM	12	0	22.10	22.17	21.98		
5	16QAM	12	7	22.23	22.07	22.17		
5	16QAM	12	13	22.31	22.08	21.97	23.5	2
5	16QAM	25	0	22.08	22.02	22.10		
5	64QAM	1	0	22.03	22.07	21.97		
5	64QAM	1	12	22.06	22.19	22.02	23.5	2
5	64QAM	1	24	22.16	22.16	22.10		
5	64QAM	12	0	20.85	21.16	20.95		
5	64QAM	12	7	21.04	21.02	21.11	22.5	3
5	64QAM	12	13	21.05	21.00	20.92		
5	64QAM	25	0	21.04	20.86	20.95		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.15	24.19	24.15	25.5	0
3	QPSK	1	8	24.10	24.23	24.19		
3	QPSK	1	14	23.94	23.97	24.07		
3	QPSK	8	0	23.02	23.23	23.08	24.5	1
3	QPSK	8	4	23.18	23.16	23.25		
3	QPSK	8	7	23.12	23.19	23.07		
3	QPSK	15	0	23.14	22.97	23.05	24.5	1
3	16QAM	1	0	22.95	23.17	23.06		
3	16QAM	1	8	22.96	23.08	23.08		
3	16QAM	1	14	23.08	23.16	23.14	23.5	2
3	16QAM	8	0	22.00	22.28	22.05		
3	16QAM	8	4	22.10	22.13	22.11		
3	16QAM	8	7	22.22	22.07	22.02	23.5	2
3	16QAM	15	0	22.18	22.29	22.04		
3	16QAM	15	0	21.96	22.12	21.90		
3	64QAM	1	8	22.03	22.03	22.10	23.5	2
3	64QAM	1	14	22.05	22.14	22.02		
3	64QAM	8	0	20.95	21.13	20.91		
3	64QAM	8	4	21.10	21.12	21.05	22.5	3
3	64QAM	8	7	21.07	20.94	20.89		
3	64QAM	15	0	21.02	20.91	20.98		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	24.03	24.18	24.03	25.5	0
1.4	QPSK	1	3	24.11	24.08	24.11		
1.4	QPSK	1	5	24.04	24.01	24.04		
1.4	QPSK	3	0	24.14	24.17	24.15	24.5	1
1.4	QPSK	3	1	24.10	24.16	24.08		
1.4	QPSK	3	3	24.15	24.13	24.14		
1.4	QPSK	6	0	23.07	23.09	23.04	24.5	1
1.4	16QAM	1	0	23.08	23.14	23.00		
1.4	16QAM	1	3	23.10	23.13	23.14		
1.4	16QAM	1	5	23.06	23.03	23.03	24.5	1
1.4	16QAM	3	0	23.14	23.18	23.13		
1.4	16QAM	3	1	23.18	23.15	23.15		
1.4	16QAM	6	0	21.99	22.11	22.02	23.5	2
1.4	16QAM	6	3	23.14	23.12	23.12		
1.4	64QAM	1	0	22.14	22.26	22.12		
1.4	64QAM	1	3	22.18	22.19	22.22	23.5	2
1.4	64QAM	1	5	22.17	22.14	22.17		
1.4	64QAM	3	0	22.17	22.23	22.15		
1.4	64QAM	3	1	22.20	22.17	22.18	22.5	3
1.4	64QAM	3	3	22.19	22.14	22.16		
1.4	64QAM	6	0	21.21	21.24	21.23		

Band 17 Ant1 DS1i									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23760	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.10	24.24	24.14	25.5	0	
10	QPSK	1	25	24.23	24.20	24.16			
10	QPSK	1	49	24.22	24.18	24.20			
10	QPSK	25	0	23.04	23.25	23.11	24.5	1	
10	QPSK	25	12	23.21	23.13	23.19			
10	QPSK	25	25	23.12	23.15	23.18			
10	QPSK	50	0	23.11	23.17	23.15	24.5	1	
10	16QAM	1	0	23.21	23.27	23.21			
10	16QAM	1	25	23.14	23.23	23.25			
10	16QAM	1	49	23.10	23.21	23.23	24.5	1	
10	16QAM	25	0	22.00	22.21	22.08			
10	16QAM	25	12	22.16	22.19	22.20			
10	16QAM	25	25	22.09	22.10	22.12	23.5	2	
10	16QAM	50	0	22.07	22.08	22.11			
10	64QAM	1	0	22.06	22.16	22.05			
10	64QAM	1	25	22.01	22.14	22.08	23.5	2	
10	64QAM	1	49	22.10	22.12	22.14			
10	64QAM	25	0	20.99	21.20	21.06			
10	64QAM	25	12	21.12	21.18	20.98	22.5	3	
10	64QAM	25	25	21.07	21.09	21.11			
10	64QAM	50	0	21.01	21.06	21.09			
Channel				23755 <th>23790<th>23825</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	23790 <th>23825</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5 <th>710<th>713.5</th><th></th><th colspan="2"></th></th>	710 <th>713.5</th> <th></th> <th colspan="2"></th>	713.5			
5	QPSK	1	0	24.04	24.11	24.08	25.5	0	
5	QPSK	1	12	24.20	24.17	24.03			
5	QPSK	1	24	24.10	24.10	24.05			
5	QPSK	12	0	22.94	23.19	22.96	24.5	1	
5	QPSK	12	7	23.18	22.98	23.16			
5	QPSK	12	13	23.03	23.05	23.06			
5	QPSK	25	0	23.08	23.02	23.12	24.5	1	
5	16QAM	1	0	23.13	23.19	23.13			
5	16QAM	1	12	22.99	23.18	23.14			
5	16QAM	1	24	23.00	23.06	23.16	24.5	1	
5	16QAM	12	0	21.88	22.07	22.06			
5	16QAM	12	7	21.99	22.07	22.16			
5	16QAM	12	13	22.05	22.00	22.10	23.5	2	
5	16QAM	25	0	21.93	22.02	22.01			
5	64QAM	1	0	21.98	22.05	21.93			
5	64QAM	1	12	21.99	22.05	21.95	23.5	2	
5	64QAM	1	24	22.04	22.05	21.98			
5	64QAM	12	0	20.81	21.04	20.99			
5	64QAM	12	7	21.04	21.06	20.94	22.5	3	
5	64QAM	12	13	20.98	21.07	20.97			
5	64QAM	25	0	20.95	20.99	20.98			

Band 26 Ant1 DS1i											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				26765	26865	26965					
Frequency (MHz)				821.5	831.5	841.5					
15	QPSK	1	0	24.36	24.45	24.41	25.5	0			
15	QPSK	1	37	24.22	24.32	24.19					
15	QPSK	1	74	24.29	24.41	24.35					
15	QPSK	36	0	23.33	23.48	23.32	24.5	1			
15	QPSK	36	20	23.36	23.43	23.33					
15	QPSK	36	39	23.29	23.37	23.24					
15	QPSK	75	0	23.36	23.42	23.33	24.5	1			
15	16QAM	1	0	23.22	23.34	23.23					
15	16QAM	1	37	23.16	23.22	23.10					
15	16QAM	1	74	23.04	23.16	23.16	23.5	2			
15	16QAM	36	0	22.34	22.40	22.36					
15	16QAM	36	20	22.22	22.25	22.15					
15	16QAM	36	39	22.15	22.26	22.10	23.5	2			
15	16QAM	75	0	22.30	22.36	22.29					
15	64QAM	1	0	22.17	22.32	22.17					
15	64QAM	1	37	22.18	22.27	22.24	23.5	2			
15	64QAM	1	74	22.11	22.26	22.24					
15	64QAM	36	0	21.36	21.42	21.26					
15	64QAM	36	20	21.31	21.39	21.28	22.5	3			
15	64QAM	36	39	21.15	21.30	21.16					
15	64QAM	75	0	21.22	21.38	21.34					
Channel				26740	26865	26990					
Frequency (MHz)				819	831.5	844					
10	QPSK	1	0	24.27	24.39	24.24	25.5	0			
10	QPSK	1	25	24.13	24.17	24.06					
10	QPSK	1	49	24.13	24.32	24.30					
10	QPSK	25	0	23.31	23.35	23.23	24.5	1			
10	QPSK	25	12	23.21	23.37	23.18					
10	QPSK	25	25	23.15	23.25	23.09					
10	QPSK	50	0	23.30	23.36	23.22	24.5	1			
10	16QAM	1	0	23.11	23.29	23.16					
10	16QAM	1	25	23.09	23.06	23.04					
10	16QAM	1	49	22.96	23.12	23.13	23.5	2			
10	16QAM	25	0	22.29	22.26	22.23					
10	16QAM	25	12	22.17	22.22	22.10					
10	16QAM	25	25	22.06	22.22	21.96	23.5	2			
10	16QAM	50	0	22.16	22.22	22.13					
10	64QAM	1	0	22.10	22.26	22.01					
10	64QAM	1	25	22.02	22.13	22.07	23.5	2			
10	64QAM	1	49	21.98	22.12	22.13					
10	64QAM	25	0	21.33	21.35	21.22					
10	64QAM	25	12	21.14	21.30	21.14	22.5	3			
10	64QAM	25	25	21.14	21.23	21.13					
10	64QAM	50	0	21.08	21.24	21.21					
Channel				26715	26865	27015					
Frequency (MHz)				816.5	831.5	846.5					
5	QPSK	1	0	24.28	24.31	24.26	25.5	0			
5	QPSK	1	12	24.08	24.20	24.05					
5	QPSK	1	24	24.15	24.32	24.23					
5	QPSK	12	0	23.16	23.32	23.20	24.5	1			
5	QPSK	12	7	23.22	23.30	23.22					
5	QPSK	12	13	23.14	23.34	23.18					
5	QPSK	25	0	23.23	23.29	23.25	24.5	1			
5	16QAM	1	0	23.14	23.17	23.14					
5	16QAM	1	12	23.12	23.19	23.07					
5	16QAM	1	24	22.97	23.05	23.09	23.5	2			
5	16QAM	12	0	22.92	22.33	22.23					
5	16QAM	12	7	22.10	22.18	22.03					
5	16QAM	12	13	22.01	22.15	22.06	23.5	2			
5	16QAM	25	0	22.24	22.32	22.16					
5	64QAM	1	0	22.11	22.28	22.16					
5	64QAM	1	12	22.08	22.20	22.12	23.5	2			
5	64QAM	1	24	21.97	22.15	22.15					
5	64QAM	12	0	21.27	21.35	21.14					
5	64QAM	12	7	21.19	21.28	21.15	22.5	3			
5	64QAM	12	13	21.13	21.19	21.12					
5	64QAM	25	0	21.18	21.34	21.25					
Channel				26705	26865	27025					
Frequency (MHz)				815.5	831.5	847.5					
3	QPSK	1	0	24.20	24.36	24.35	25.5	0			
3	QPSK	1	8	24.11	24.29	24.33					
3	QPSK	1	14	24.12	24.32	24.31					
3	QPSK	8	0	23.25	23.34	23.27	24.5	1			
3	QPSK	8	4	23.25	23.29	23.24					
3	QPSK	8	7	23.12	23.23	23.11					
3	QPSK	15	0	23.32	23.29	23.29	24.5	1			
3	16QAM	1	0	23.13	23.28	23.12					
3	16QAM	1	8	23.06	23.12	23.02					
3	16QAM	1	14	22.88	23.11	23.14	23.5	2			
3	16QAM	8	0	22.22	22.34	22.33					
3	16QAM	8	4	22.20	22.09	22.12					
3	16QAM	8	7	21.98	22.10	22.03	23.5	2			
3	16QAM	15	0	22.25	22.22	22.22					
3	64QAM	1	0	22.12	22.26	22.06					
3	64QAM	1	8	22.02	22.13	22.10	23.5	2			
3	64QAM	1	14	22.02	22.21	22.16					
3	64QAM	8	0	21.25	21.36	21.18					
3	64QAM	8	4	21.21	21.33	21.17	22.5	3			
3	64QAM	8	7	21.10	21.19	21.00					
3	64QAM	15	0	21.18	21.29	21.22					
Channel				26697	26865	27033					
Frequency (MHz)				814.7	831.5	848.3					
1.4	QPSK	1	0	24.26	24.36	24.25	25.5	0			
1.4	QPSK	1	2	24.17	24.34	24.13					
1.4	QPSK	1	5	24.26	24.28	24.21					
1.4	QPSK	3	0	24.18	24.39	24.29	24.5	1			
1.4	QPSK	3	1	24.22	24.33	24.26					
1.4	QPSK	3	3	24.14	24.29	24.14					
1.4	QPSK	6	0	23.21	23.33	23.31	24.5	1			
1.4	16QAM	1	0	23.14	23.27	23.11					
1.4	16QAM	1	3	23.03	23.19	23.06					
1.4	16QAM	1	5	22.98	23.12	23.12	23.5	2			
1.4	16QAM	3	0	23.25	23.28	23.30					
1.4	16QAM	3	1	23.16	23.18	23.11					
1.4	16QAM	3	3	22.99	23.12	23.00	23.5	2			
1.4	16QAM	6	0	22.22	22.25	22.14					
1.4	64QAM	1	0	22.09	22.22	22.01					
1.4	64QAM	1	3	22.12	22.15	22.13	23.5	2			
1.4	64QAM	1	5	22.00	22.14	22.13					
1.4	64QAM	3	0	22.30	22.27	22.23					
1.4	64QAM	3	1	22.18	22.29	22.16	22.5	3			
1.4	64QAM	3	3	21.99	22.22	22.11					
1.4	64QAM	6	0	21.09	21.34	21.19					

Band 38 Ant1 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	25.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.14	24.30	24.18	24.5	1	
20	QPSK	1	49	24.03	23.89	24.12			
20	QPSK	1	99	24.14	24.01	23.96			
20	QPSK	50	0	23.01	23.29	22.95			
20	QPSK	50	24	23.27	23.15	23.17			
20	QPSK	50	50	23.21	23.18	23.04	24.5	1	
20	QPSK	100	0	23.06	23.20	22.98			
20	16QAM	1	0	23.37	23.26	23.16			
20	16QAM	1	49	23.63	23.50	23.59			
20	16QAM	1	99	23.41	23.28	23.27			
20	16QAM	50	0	22.16	22.19	22.33	23.5	2	
20	16QAM	50	24	22.22	22.26	22.24			
20	16QAM	50	50	22.15	22.27	22.12			
20	16QAM	100	0	22.10	22.12	22.04			
20	64QAM	1	0	22.29	22.16	22.15			
20	64QAM	1	49	22.33	22.40	22.24	23.5	2	
20	64QAM	1	99	22.22	22.26	22.29			
20	64QAM	50	0	21.05	21.08	21.09			
20	64QAM	50	24	21.32	21.22	21.28			
20	64QAM	50	50	21.10	21.09	21.18			
20	64QAM	100	0	21.22	21.11	21.12	22.5	3	
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.03	24.28	24.14	25.5	0	
15	QPSK	1	37	24.13	24.10	24.23			
15	QPSK	1	74	24.16	23.95	24.18			
15	QPSK	36	0	23.19	23.34	23.13			
15	QPSK	36	20	23.39	23.22	23.37			
15	QPSK	36	39	23.41	23.16	23.39	24.5	1	
15	QPSK	75	0	23.27	23.20	23.32			
15	16QAM	1	0	23.53	23.60	23.60			
15	16QAM	1	37	23.75	23.66	23.58			
15	16QAM	1	74	23.54	23.46	23.58			
15	16QAM	36	0	22.22	22.28	22.23	23.5	2	
15	16QAM	36	20	22.47	22.59	22.62			
15	16QAM	36	39	22.34	22.26	22.37			
15	16QAM	75	0	22.40	22.33	22.35			
15	64QAM	1	0	22.27	22.46	22.50			
15	64QAM	1	37	22.39	22.53	22.36	23.5	2	
15	64QAM	1	74	22.49	22.32	22.42			
15	64QAM	36	0	21.21	21.26	21.37			
15	64QAM	36	20	21.46	21.26	21.34			
15	64QAM	36	39	21.22	21.42	21.25			
15	64QAM	75	0	21.37	21.46	21.15	22.5	3	
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.81	24.02	23.77	25.5	0	
10	QPSK	1	25	24.00	23.85	23.92			
10	QPSK	1	49	24.21	23.93	23.90			
10	QPSK	25	0	22.83	23.04	22.76			
10	QPSK	25	12	23.13	22.84	22.90			
10	QPSK	25	25	22.96	23.04	22.99	24.5	1	
10	QPSK	50	0	23.08	23.02	22.95			
10	16QAM	1	0	23.24	23.30	23.32			
10	16QAM	1	25	23.47	23.48	23.39			
10	16QAM	1	49	23.33	23.26	23.17			
10	16QAM	25	0	22.12	22.12	22.21	23.5	2	
10	16QAM	25	12	22.23	22.33	22.27			
10	16QAM	25	25	22.15	22.36	22.13			
10	16QAM	50	0	22.17	22.08	22.09			
10	64QAM	1	0	22.07	22.16	22.06			
10	64QAM	1	25	22.33	22.31	22.22	23.5	2	
10	64QAM	1	49	22.07	22.27	22.32			
10	64QAM	25	0	20.97	21.08	20.89			
10	64QAM	25	12	21.18	21.11	21.33			
10	64QAM	25	25	20.99	20.92	21.12			
10	64QAM	50	0	21.30	21.13	21.06	22.5	3	
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.06	24.21	24.08	25.5	0	
5	QPSK	1	12	24.16	24.05	24.22			
5	QPSK	1	24	24.04	24.14	24.02			
5	QPSK	12	0	23.06	23.21	23.03			
5	QPSK	12	7	23.19	23.30	23.18			
5	QPSK	12	13	23.23	23.18	23.11	24.5	1	
5	QPSK	25	0	23.15	23.05	23.26			
5	16QAM	1	0	23.42	23.41	23.30			
5	16QAM	1	12	23.52	23.43	23.54			
5	16QAM	1	24	23.41	23.40	23.46			
5	16QAM	12	0	22.15	22.35	22.25	23.5	2	
5	16QAM	12	7	22.40	22.31	22.33			
5	16QAM	12	13	22.33	22.37	22.24			
5	16QAM	25	0	22.45	22.19	22.22			
5	64QAM	1	0	22.38	22.32	22.30			
5	64QAM	1	12	22.57	22.69	22.42	23.5	2	
5	64QAM	1	24	22.37	22.25	22.20			
5	64QAM	12	0	21.07	21.23	21.27			
5	64QAM	12	7	21.46	21.24	21.35			
5	64QAM	12	13	21.26	21.14	21.04			
5	64QAM	25	0	21.17	21.22	21.20	22.5	3	

Band 41 Ant1 DS11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.01	24.18	24.31	24.14	24.11	25.5	0
20	QPSK	1	49	24.13	24.12	24.11	24.19	23.95		
20	QPSK	1	99	24.06	24.01	24.06	24.11	24.22		
20	QPSK	50	0	23.12	23.04	23.30	23.25	23.06	24.5	1
20	QPSK	50	24	23.26	23.17	23.07	23.29	23.12		
20	QPSK	50	50	23.06	23.19	23.19	23.01	23.00		
20	QPSK	100	0	23.03	23.00	23.18	23.11	23.12	24.5	1
20	16QAM	1	0	23.50	23.15	23.44	23.22	23.26		
20	16QAM	1	49	23.27	23.17	23.16	23.26	23.55		
20	16QAM	1	99	23.41	23.32	23.53	23.27	23.33	23.5	2
20	16QAM	50	0	22.18	22.11	22.17	22.37	22.23		
20	16QAM	50	24	22.13	22.24	22.34	22.23	22.32		
20	16QAM	50	50	22.22	22.40	22.29	22.14	22.29	23.5	2
20	16QAM	100	0	22.16	22.18	22.30	22.24	22.01		
20	64QAM	1	0	22.20	22.24	22.30	22.32	22.40		
20	64QAM	1	49	22.53	22.44	22.59	22.35	22.46	23.5	2
20	64QAM	1	99	22.38	22.30	22.50	22.31	22.37		
20	64QAM	50	0	21.12	21.16	21.21	21.07	21.26		
20	64QAM	50	24	21.19	21.07	21.34	21.30	21.32	22.5	3
20	64QAM	50	50	21.09	21.09	21.30	21.11	21.15		
20	64QAM	100	0	20.99	20.95	21.21	21.02	21.16		
Channel				39750	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2592.5	2637.8	2682.5		
15	QPSK	1	0	23.88	23.88	24.16	23.91	23.98	25.50	0
15	QPSK	1	37	24.05	24.07	24.00	24.01	23.88		
15	QPSK	1	74	23.91	23.99	23.87	23.89	23.94		
15	QPSK	36	0	22.92	22.87	23.10	23.12	22.96	24.5	1
15	QPSK	36	20	23.15	23.03	23.02	23.05	22.89		
15	QPSK	36	39	22.95	23.16	23.12	22.89	22.75		
15	QPSK	75	0	22.90	23.07	22.99	23.07	23.14	24.5	1
15	16QAM	1	0	23.43	23.02	23.32	23.11	23.11		
15	16QAM	1	37	23.25	22.99	23.14	23.20	23.44		
15	16QAM	1	74	23.26	23.03	23.22	23.44	23.16	23.5	2
15	16QAM	36	0	21.90	22.02	22.32	22.16	22.01		
15	16QAM	36	20	22.05	22.32	22.19	22.28	22.28		
15	16QAM	36	39	22.13	22.10	22.24	21.95	22.20	23.5	2
15	16QAM	75	0	21.99	21.96	22.03	22.11	22.15		
15	16QAM	75	22	22.08	22.22	22.12	22.27	22.27		
15	64QAM	1	37	22.13	22.50	22.43	22.25	22.40	23.5	2
15	64QAM	1	74	22.11	22.38	22.50	22.35	22.08		
15	64QAM	36	0	21.00	21.28	20.97	21.07	21.16		
15	64QAM	36	20	21.14	21.29	21.12	21.07	21.10	22.5	3
15	64QAM	36	39	20.94	20.99	21.29	21.04	21.00		
15	64QAM	75	0	20.90	21.01	20.99	21.14	21.03		
Channel				39760	40160	40620	41060	41500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2504.1	2549.7	2592.5	2636.5	2680.5		
10	QPSK	1	0	24.05	24.02	24.23	24.14	24.06	25.50	0
10	QPSK	1	25	24.13	24.27	24.22	24.21	24.16		
10	QPSK	1	50	24.09	24.12	24.06	24.24	24.11		
10	QPSK	25	0	23.09	23.23	23.27	23.21	23.21	24.5	1
10	QPSK	25	12	23.15	23.22	23.05	23.26	23.10		
10	QPSK	25	25	23.33	23.11	23.29	23.15	23.16		
10	QPSK	50	0	23.25	23.27	23.13	23.11	23.15	24.5	1
10	16QAM	1	0	23.57	23.39	23.39	23.43	23.61		
10	16QAM	1	25	23.34	23.22	23.24	23.44	23.48		
10	16QAM	1	49	23.65	23.41	23.60	23.46	23.53	23.5	2
10	16QAM	25	0	22.30	22.13	22.17	22.52	22.33		
10	16QAM	25	12	22.37	22.37	22.48	22.60	22.57		
10	16QAM	25	25	22.35	22.36	22.21	22.21	22.36	23.5	2
10	16QAM	50	0	22.22	22.33	22.13	22.30	22.17		
10	64QAM	1	0	22.35	22.34	22.58	22.55	22.41		
10	64QAM	1	25	22.48	22.53	22.71	22.43	22.50	23.5	2
10	64QAM	1	49	22.48	22.61	22.50	22.38	22.62		
10	64QAM	1	99	21.10	21.17	21.39	21.10	21.17		
10	64QAM	25	12	21.33	21.21	21.29	21.19	21.33	22.5	3
10	64QAM	25	25	21.36	21.26	21.33	21.33	21.34		
10	64QAM	50	0	21.23	21.20	21.35	21.20	21.20		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	24.14	24.18	24.18	24.12	24.18	25.50	0
5	QPSK	1	24	24.08	24.20	24.20	24.19	24.25		
5	QPSK	1	24	24.17	24.04	24.01	24.00	24.25		
5	QPSK	12	0	23.06	23.16	23.30	23.09	23.15	24.5	1
5	QPSK	12	7	23.12	23.28	23.30	23.20	23.22		
5	QPSK	12	13	23.00	23.08	23.09	23.12	23.30		
5	QPSK	25	0	23.21	22.99	23.14	23.29	23.05	24.5	1
5	16QAM	1	0	23.39	23.31	23.38	23.52	23.35		
5	16QAM	1	12	23.16	23.16	23.29	23.15	23.53		
5	16QAM	1	24	23.48	23.24	23.46	23.50	23.46	23.5	2
5	16QAM	12	0	22.31	22.19	22.09	22.40	22.21		
5	16QAM	12	7	22.23	22.34	22.33	22.45	22.32		
5	16QAM	12	13	22.27	22.33	22.51	22.25	22.42	23.5	2
5	16QAM	25	0	22.41	22.33	22.28	22.29	22.21		
5	64QAM	1	0	22.13	22.55	22.51	22.25	22.39		
5	64QAM	1	12	22.47	22.46	22.59	22.39	22.47	23.5	2
5	64QAM	1	24	22.83	22.29	22.83	22.38	22.51		
5	64QAM	12	0	21.11	21.10	21.16	21.04	21.26		
5	64QAM	12	7	21.20	21.32	21.48	21.25	21.22	22.5	3
5	64QAM	12	13	21.32	21.18	21.18	21.15	21.11		
5	64QAM	25	0	21.14	21.12	21.17	21.24	21.33		

GSM850 Ant 2 DSI1							
GSM850	Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)		
TX Channel	128	189	251	(dBm)	128	189	251
Frequency (MHz)	824.2	836.4	848.6	(dBm)	824.2	836.4	848.6
GSM 1 Tx slot	32.26	32.33	32.21	33.50	23.26	23.33	23.21
GPRS 1 Tx slot	32.34	32.38	32.29	33.50	23.34	23.38	23.29
GPRS 2 Tx slots	30.17	30.11	30.02	31.00	24.17	24.11	24.02
GPRS 3 Tx slots	28.40	28.43	28.30	29.50	24.14	24.17	24.04
GPRS 4 Tx slots	26.46	26.44	26.33	27.50	23.46	23.44	23.33
EDGE 1 Tx slot	27.06	27.30	27.39	28.00	18.06	18.30	18.39
EDGE 2 Tx slots	24.55	24.78	24.88	25.50	18.55	18.78	18.88
EDGE 3 Tx slots	22.84	23.03	23.19	24.00	18.58	18.77	18.93
EDGE 4 Tx slots	21.56	21.73	21.93	22.50	18.56	18.73	18.93

GSM1900 Ant 2 DSI1							
GSM1900		Burst Average Power (dBm)			Frame-Average Power (dBm)		
Tx Channel	512	661	810	Tune-up	512	661	810
Frequency (MHz)	1852.2	1860	1869.8	(dBm)	1852.2	1860	1869.8
GSM 1 Tx slot	24.03	23.84	24.05	24.50	15.03	14.84	15.05
GPRS 1 Tx slot	23.98	23.76	23.91	24.50	14.98	14.76	14.91
GPRS 2 Tx slots	21.84	21.74	21.46	22.50	15.64	15.74	15.49
GPRS 3 Tx slots	19.68	19.75	19.71	20.50	15.42	15.49	15.45
GPRS 4 Tx slots	18.40	18.28	18.58	19.00	15.40	15.28	15.58
EDGE 1 Tx slot	23.96	24.01	23.91	24.50	14.96	15.01	14.91
EDGE 2 Tx slots	22.36	22.25	22.17	22.50	16.36	16.25	16.17
EDGE 3 Tx slots	19.97	20.12	19.84	20.50	15.71	15.86	15.58
EDGE 4 Tx slots	18.62	18.84	18.68	19.00	15.62	15.84	15.68

		WCDMA 3 Ant 2 DSI1				WCDMA 4 Ant 2 DSI1				WCDMA 5 Ant 2 DSI1			
Band		WCDMA 3			Tune-up Limit (dBm)	WCDMA 4			Tune-up Limit (dBm)	WCDMA 5			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4192	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4367	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	15.80	15.84	15.82	16.50	15.75	15.78	15.67	16.50	23.54	23.56	23.49	24.50
3GPP Rel 99	RMG 12.2Kbps	15.62	15.67	15.84	16.50	15.76	15.80	15.71	16.50	23.55	23.69	23.50	24.50
3GPP Rel 6	HSDPA Subtest-1	13.84	13.86	13.90	14.50	13.90	13.85	13.78	14.50	23.53	23.57	23.45	24.50
3GPP Rel 6	HSDPA Subtest-2	13.73	13.76	13.77	14.50	13.78	13.77	13.68	14.50	23.44	23.30	23.35	24.50
3GPP Rel 6	HSDPA Subtest-3	13.18	13.28	13.22	14.50	13.42	13.22	13.20	14.50	23.08	22.86	22.92	24.00
3GPP Rel 6	HSDPA Subtest-4	13.16	13.31	13.27	14.50	13.33	13.24	13.06	14.50	23.08	22.96	22.90	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	13.85	13.89	14.02	14.50	13.97	13.85	13.70	14.50	23.09	23.20	23.25	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	13.75	13.73	13.82	14.50	13.76	13.85	13.78	14.50	23.08	23.16	23.00	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	13.10	13.27	13.26	14.00	13.44	13.29	13.24	14.00	22.99	22.95	22.83	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	13.07	13.29	13.17	14.00	13.44	13.31	13.04	14.00	23.01	23.00	23.07	24.00
3GPP Rel 6	HSUPA Subtest-1	13.81	13.91	13.72	14.50	13.79	13.85	13.66	14.50	21.56	21.36	21.55	23.00
3GPP Rel 6	HSUPA Subtest-2	11.94	11.97	11.82	12.50	11.92	11.98	11.83	12.50	21.45	21.38	21.29	23.00
3GPP Rel 6	HSUPA Subtest-3	12.78	12.93	12.89	14.50	12.75	13.00	12.95	14.50	22.45	22.38	22.53	24.00
3GPP Rel 6	HSUPA Subtest-4	11.77	11.94	11.80	12.50	11.76	11.98	11.85	12.50	20.97	20.83	20.96	22.50
3GPP Rel 6	HSUPA Subtest-5	13.71	13.80	13.87	14.50	13.85	13.88	13.83	14.50	22.29	22.26	22.27	24.00

Band 2 Ant2 DS11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.16	15.36	15.30	16.5	0		
20	QPSK	1	49	15.19	15.24	15.21				
20	QPSK	1	99	15.18	15.09	15.11				
20	QPSK	50	0	15.08	15.33	15.11				
20	QPSK	50	24	15.03	15.07	15.18	16.5	0		
20	QPSK	50	50	15.06	15.10	15.32				
20	QPSK	100	0	15.06	15.10	15.03				
20	16QAM	1	0	15.06	15.25	15.21				
20	16QAM	1	49	15.16	15.26	15.23	16.5	0		
20	16QAM	1	99	15.15	15.29	15.30				
20	16QAM	50	0	15.17	15.06	15.05				
20	16QAM	50	24	15.08	15.24	15.18				
20	16QAM	50	50	15.10	15.20	15.22	16.5	0		
20	16QAM	100	0	15.06	15.27	15.11				
20	64QAM	1	0	15.11	15.13	15.15				
20	64QAM	1	49	15.08	15.26	15.09				
20	64QAM	1	99	15.05	15.21	15.13	16.5	0		
20	64QAM	50	0	15.22	15.26	15.08				
20	64QAM	50	24	15.12	15.19	15.17				
20	64QAM	50	50	15.11	15.17	15.20				
20	64QAM	100	0	15.12	15.31	15.24	16.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.11	15.14	15.23	16.5	0		
15	QPSK	1	37	15.19	15.22	15.06				
15	QPSK	1	74	15.08	15.15	15.07				
15	QPSK	36	0	15.09	15.09	15.23				
15	QPSK	36	20	15.28	15.25	15.11	16.5	0		
15	QPSK	36	39	15.25	15.02	15.31				
15	QPSK	75	0	15.01	15.15	15.02				
15	16QAM	1	0	15.29	15.26	15.16				
15	16QAM	1	37	15.12	15.17	15.08	16.5	0		
15	16QAM	1	74	15.06	15.18	15.26				
15	16QAM	36	0	15.01	15.01	15.28				
15	16QAM	36	20	15.25	15.25	15.05				
15	16QAM	36	39	15.07	15.02	15.08	16.5	0		
15	16QAM	75	0	15.06	15.26	15.05				
15	64QAM	1	0	15.12	15.00	15.26				
15	64QAM	1	37	15.01	15.14	15.31				
15	64QAM	1	74	15.22	15.20	15.12	16.5	0		
15	64QAM	36	0	15.01	15.18	15.30				
15	64QAM	36	20	15.19	15.10	15.35				
15	64QAM	36	39	15.13	15.01	15.02				
15	64QAM	75	0	15.17	15.10	15.05	16.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.18	15.15	15.13	16.5	0		
10	QPSK	1	25	15.16	15.11	15.16				
10	QPSK	1	49	15.20	15.18	15.08				
10	QPSK	25	0	15.15	15.14	15.08				
10	QPSK	25	12	15.16	15.35	15.00	16.5	0		
10	QPSK	25	25	15.17	15.10	15.31				
10	QPSK	50	0	15.18	15.21	15.14				
10	16QAM	1	0	15.00	15.09	15.07				
10	16QAM	1	25	15.17	15.23	15.24	16.5	0		
10	16QAM	1	49	15.12	15.14	15.10				
10	16QAM	25	0	15.18	15.05	15.32				
10	16QAM	25	12	15.07	15.14	15.23				
10	16QAM	25	25	15.29	15.01	15.03	16.5	0		
10	16QAM	50	0	15.35	15.13	15.33				
10	64QAM	1	0	15.12	15.22	15.05				
10	64QAM	1	25	15.10	15.21	15.07				
10	64QAM	1	49	15.30	15.17	15.28	16.5	0		
10	64QAM	25	0	15.01	15.08	15.30				
10	64QAM	25	12	15.10	15.29	15.12				
10	64QAM	25	25	15.02	15.10	15.06				
10	64QAM	50	0	15.29	15.11	15.05	16.5	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.17	15.19	15.07	16.5	0		
5	QPSK	1	12	15.14	15.21	15.03				
5	QPSK	1	24	15.09	15.02	15.09				
5	QPSK	12	0	15.21	15.14	15.20				
5	QPSK	12	7	15.17	15.04	15.04	16.5	0		
5	QPSK	12	13	15.16	15.05	15.19				
5	QPSK	25	0	15.20	15.26	15.16				
5	16QAM	1	0	15.27	15.16	15.01				
5	16QAM	1	12	15.11	15.07	15.19	16.5	0		
5	16QAM	1	24	15.11	15.28	15.24				
5	16QAM	12	0	15.11	15.21	15.15				
5	16QAM	12	7	15.25	15.06	15.04				
5	16QAM	12	13	15.09	15.27	15.23	16.5	0		
5	16QAM	25	0	15.05	15.26	15.11				
5	64QAM	1	0	15.04	15.34	15.31				
5	64QAM	1	12	15.34	15.11	15.30				
5	64QAM	1	24	15.27	15.23	15.14	16.5	0		
5	64QAM	12	0	15.21	15.28	15.34				
5	64QAM	12	7	15.00	15.03	15.16				
5	64QAM	12	13	15.07	15.16	15.09				
5	64QAM	25	0	15.04	15.29	15.11	16.5	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.18	15.25	15.10	16.5	0		
3	QPSK	1	8	15.07	15.04	15.04				
3	QPSK	1	14	15.08	15.05	15.35				
3	QPSK	8	0	15.08	15.21	15.27				
3	QPSK	8	4	15.23	15.04	15.05	16.5	0		
3	QPSK	8	7	15.35	15.11	15.22				
3	QPSK	15	0	15.06	15.02	15.27				
3	16QAM	1	0	15.05	15.09	15.23				
3	16QAM	1	8	15.10	15.21	15.20	16.5	0		
3	16QAM	1	14	15.14	15.14	15.08				
3	16QAM	8	0	15.04	15.34	15.06				
3	16QAM	8	4	15.02	15.14	15.28				
3	16QAM	8	7	15.00	15.04	15.13	16.5	0		
3	16QAM	15	0	15.25	15.16	15.22				
3	64QAM	1	0	15.07	15.07	15.32				
3	64QAM	1	8	15.22	15.18	15.28				
3	64QAM	1	14	15.05	15.13	15.13	16.5	0		
3	64QAM	8	0	15.16	15.14	15.01				
3	64QAM	8	4	15.00	15.20	15.09				
3	64QAM	8	7	15.01	15.11	15.20				
3	64QAM	15	0	15.35	15.23	15.03	16.5	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.01	15.16	15.17	16.5	0		
1.4	QPSK	1	3	15.03	15.10	15.06				
1.4	QPSK	1	5	15.06	15.31	15.04				
1.4	QPSK	3	0	15.02	15.07	15.12				
1.4	QPSK	3	1	15.00	15.31	15.14	16.5	0		
1.4	QPSK	3	3	15.01	15.20	15.28				
1.4	QPSK	6	0	15.06	15.00	15.03				
1.4	16QAM	1	0	15.24	15.09	15.16				
1.4	16QAM	1	3	15.16	15.15	15.22	16.5	0		
1.4	16QAM	1	5	15.02	15.24	15.26				
1.4	16QAM	3	0	15.00	15.29	15.33				
1.4	16QAM	3	1	15.08	15.15	15.05				
1.4	16QAM	3	3	15.11	15.11	15.21	16.5	0		
1.4	16QAM	6	0	15.20	15.29	15.03				
1.4	64QAM	1	0	15.04	15.12	15.18				
1.4	64QAM	1	3	15.35	15.24	15.28				
1.4	64QAM	1	5	15.32	15.05	15.06	16.5	0		
1.4	64QAM	3	0	15.15	15.18	15.17				
1.4	64QAM	3	1	15.04	15.15	15.04				
1.4	64QAM	3	3	15.28	15.10	15.06				
1.4	64QAM	6	0	15.13	15.31	15.20	16.5	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.13	15.31	15.08	16.5	0		
1.4	QPSK	1	3	15.11	15.31	15.14				
1.4	QPSK	1	5	15.18	15.27	15.22				
1.4	QPSK	3	0	15.15	15.16	15.14				
1.4	QPSK	3	1	15.17	15.22	15.23	16.5	0		



Band 7 Ant2 DS11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20950	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.57	17.67	17.74	19	0
20	QPSK	1	49	17.81	17.71	17.87		
20	QPSK	1	99	17.68	17.78	17.65		
20	QPSK	50	0	17.50	17.88	17.53	19	0
20	QPSK	50	24	17.77	17.53	17.84		
20	QPSK	50	50	17.55	17.59	17.63		
20	QPSK	100	0	17.39	17.84	17.74	19	0
20	16QAM	1	0	17.81	17.69	17.69		
20	16QAM	1	49	17.25	17.68	17.57		
20	16QAM	1	99	17.57	17.55	17.66	19	0
20	16QAM	50	0	17.72	17.67	17.77		
20	16QAM	50	24	17.58	17.76	17.52		
20	16QAM	50	50	17.56	17.80	17.67	19	0
20	16QAM	100	0	17.61	17.58	17.70		
20	64QAM	1	0	17.43	17.91	17.61		
20	64QAM	1	49	17.77	17.65	17.85	19	0
20	64QAM	1	99	17.52	17.73	17.47		
20	64QAM	50	0	17.44	17.78	17.58		
20	64QAM	50	24	17.57	17.77	17.54	19	0
20	64QAM	50	50	17.75	17.59	17.84		
20	64QAM	100	0	17.45	17.67	17.51		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.54	17.76	17.54	19	0
15	QPSK	1	37	17.70	17.54	17.67		
15	QPSK	1	74	17.50	17.73	17.60		
15	QPSK	36	0	17.34	17.81	17.44	19	0
15	QPSK	36	20	17.79	17.45	17.83		
15	QPSK	36	39	17.50	17.44	17.44		
15	QPSK	75	0	17.69	17.69	17.64	19	0
15	16QAM	1	0	17.64	17.55	17.50		
15	16QAM	1	37	17.60	17.67	17.54		
15	16QAM	1	74	17.41	17.78	17.54	19	0
15	16QAM	36	0	17.55	17.61	17.65		
15	16QAM	36	20	17.51	17.65	17.33		
15	16QAM	36	39	17.38	17.58	17.58	19	0
15	16QAM	75	0	17.40	17.49	17.55		
15	84QAM	1	0	17.42	17.73	17.56		
15	84QAM	1	37	17.78	17.57	17.85	19	0
15	84QAM	1	74	17.45	17.69	17.43		
15	84QAM	36	0	17.45	17.80	17.39		
15	84QAM	36	20	17.74	17.40	17.65	19	0
15	84QAM	36	39	17.39	17.52	17.41		
15	84QAM	75	0	17.35	17.60	17.50		
Channel				20900	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.40	17.85	17.85	19	0
10	QPSK	1	25	17.82	17.61	17.74		
10	QPSK	1	49	17.58	17.59	17.52		
10	QPSK	25	0	17.51	17.71	17.42	19	0
10	QPSK	25	12	17.67	17.32	17.63		
10	QPSK	25	25	17.35	17.48	17.51		
10	QPSK	50	0	17.65	17.63	17.59	19	0
10	16QAM	1	0	17.65	17.59	17.68		
10	16QAM	1	25	17.58	17.63	17.43		
10	16QAM	1	49	17.56	17.85	17.45	19	0
10	16QAM	25	0	17.58	17.66	17.72		
10	16QAM	25	12	17.40	17.69	17.50		
10	16QAM	25	25	17.56	17.62	17.67	19	0
10	16QAM	50	0	17.57	17.43	17.53		
10	84QAM	1	0	17.44	17.85	17.63		
10	84QAM	1	25	17.74	17.56	17.61	19	0
10	84QAM	1	49	17.54	17.55	17.36		
10	84QAM	25	0	17.43	17.75	17.48		
10	84QAM	25	12	17.59	17.39	17.77	19	0
10	84QAM	25	25	17.35	17.56	17.52		
10	84QAM	50	0	17.46	17.59	17.44		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.37	17.85	17.75	19	0
5	QPSK	1	12	17.68	17.71	17.84		
5	QPSK	1	24	17.65	17.61	17.56		
5	QPSK	12	0	17.49	17.84	17.49	19	0
5	QPSK	12	7	17.68	17.44	17.84		
5	QPSK	12	13	17.36	17.50	17.46		
5	QPSK	25	0	17.19	17.67	17.64	19	0
5	16QAM	1	0	17.69	17.57	17.51		
5	16QAM	1	12	17.46	17.52	17.38		
5	16QAM	1	24	17.49	17.82	17.59	19	0
5	16QAM	12	0	17.68	17.50	17.78		
5	16QAM	12	7	17.36	17.60	17.46		
5	16QAM	12	13	17.43	17.70	17.59	19	0
5	16QAM	25	0	17.63	17.55	17.59		
5	84QAM	1	0	17.30	17.69	17.48		
5	84QAM	1	12	17.63	17.51	17.72	19	0
5	84QAM	1	24	17.37	17.40	17.52		
5	84QAM	12	0	17.32	17.59	17.40		
5	84QAM	12	7	17.45	17.62	17.55	19	0
5	84QAM	12	13	17.70	17.42	17.69		
5	84QAM	25	0	17.28	17.55	17.41		

Band 12 Ant2 DS11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.31	23.62	23.34	24.5	0
10	QPSK	1	25	23.44	23.46	23.44		
10	QPSK	1	49	23.40	23.44	23.43		
10	QPSK	25	0	23.29	23.54	23.32	24.5	0
10	QPSK	25	12	23.38	23.26	23.33		
10	QPSK	25	25	23.27	23.36	23.27		
10	QPSK	50	0	23.28	23.48	23.16	24.5	0
10	16QAM	1	0	23.21	23.50	23.13		
10	16QAM	1	25	23.34	23.45	23.43		
10	16QAM	1	49	23.19	23.44	23.35	23.5	1
10	16QAM	25	0	22.27	22.24	22.11		
10	16QAM	25	12	22.51	22.38	22.27		
10	16QAM	25	25	22.49	22.25	22.32	23.5	1
10	16QAM	50	0	22.42	22.33	22.22		
10	64QAM	1	0	22.27	22.44	22.25		
10	64QAM	1	25	22.51	22.58	22.47	22.5	2
10	64QAM	1	49	22.48	22.44	22.54		
10	64QAM	25	0	21.12	21.31	21.13		
10	64QAM	25	12	21.47	21.45	21.29	22.5	2
10	64QAM	25	25	21.33	21.39	21.15		
10	64QAM	50	0	21.41	21.35	21.26		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				703.5	707.5	713.5		
5	QPSK	1	0	23.11	23.34	23.32	24.5	0
5	QPSK	1	12	23.37	23.25	23.39		
5	QPSK	1	24	23.18	23.42	23.27		
5	QPSK	12	0	23.29	23.54	23.21	24.5	0
5	QPSK	12	7	23.35	23.05	23.32		
5	QPSK	12	13	23.11	23.28	23.15		
5	QPSK	25	0	23.22	23.41	23.02	24.5	0
5	16QAM	1	0	23.06	23.41	23.00		
5	16QAM	1	12	23.32	23.45	23.42		
5	16QAM	1	24	23.07	23.29	23.29	23.5	1
5	16QAM	12	0	22.21	22.24	22.12		
5	16QAM	12	7	22.36	22.20	22.24		
5	16QAM	12	13	22.28	22.11	22.15	23.5	1
5	16QAM	25	0	22.31	22.19	22.12		
5	84QAM	1	0	22.13	22.26	22.16		
5	84QAM	1	12	22.32	22.57	22.29	23.5	1
5	84QAM	1	24	22.47	22.44	22.38		
5	84QAM	12	0	21.00	21.29	21.11		
5	84QAM	12	7	21.26	21.42	21.11	22.5	2
5	84QAM	12	13	21.26	21.21	21.03		
5	84QAM	25	0	21.26	21.29	21.07		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.15	23.39	23.14	24.5	0
3	QPSK	1	8	23.40	23.40	23.25		
3	QPSK	1	14	23.35	23.38	23.26		
3	QPSK	8	0	23.21	23.49	23.32	24.5	0
3	QPSK	8	4	23.30	23.08	23.41		
3	QPSK	8	7	23.23	23.29	23.13		
3	QPSK	15	0	23.06	23.41	23.04	24.5	0
3	16QAM	1	0	23.04	23.46	23.06		
3	16QAM	1	8	23.14	23.29	23.31		
3	16QAM	1	14	22.98	23.41	23.23	23.5	1
3	16QAM	8	0	22.05	22.16	21.90		
3	16QAM	8	4	22.31	22.38	22.29		
3	16QAM	8	7	22.34	22.16	22.32	23.5	1
3	16QAM	15	0	22.34	22.20	22.30		
3	84QAM	1	0	22.18	22.31	22.27		
3	84QAM	1	8	22.33	22.54	22.27	22.5	2
3	84QAM	1	14	22.43	22.42	22.45		
3	84QAM	8	0	20.98	21.31	20.97		
3	84QAM	8	4	21.37	21.42	21.22	22.5	1
3	84QAM	8	7	21.21	21.30	20.97		
3	84QAM	15	0	21.23	21.20	21.24		
Channel				699.7	707.5	715.3	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	23.24	23.45	23.17	24.5	0
1.4	QPSK	1	3	23.33	23.25	23.31		
1.4	QPSK	1	5	23.25	23.32	23.35		
1.4	QPSK	3	0	23.12	23.51	23.33	24.5	0
1.4	QPSK	3	1	23.25	23.12	23.30		
1.4	QPSK	3	3	23.23	23.34	23.09		
1.4	QPSK	6	0	23.06	23.35	23.00	24.5	0
1.4	16QAM	1	0	22.89	23.25	22.85		
1.4	16QAM	1	3	23.14	23.09	23.17		
1.4	16QAM	1	5	22.94	23.24	22.85	24.5	0
1.4	16QAM	3	0	23.03	23.28	22.94		
1.4	16QAM	3	1	22.93	23.25	23.16		
1.4	16QAM	3	3	22.90	23.20	23.19	23.5	1
1.4	16QAM	6	0	22.26	22.14	22.20		
1.4	64QAM	1	0	22.09	22.29	22.11		
1.4	64QAM	1	3	22.47	22.48	22.36	23.5	1
1.4	64QAM	1	5	22.30	22.30	22.30		
1.4	64QAM	3	0	21.95	22.23	21.95		
1.4	64QAM	3	1	22.35	22.39	22.28	22.5	2
1.4	64QAM	3	3	22.26	22.17	22.36		
1.4	64QAM	6	0	21.28	21.16	21.23		

Band 17 Ant2 DS11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				23780	23790	23800		
10	QPSK	1	0	23.28	23.51	23.17	24.5	0
10	QPSK	1	25	23.33	23.31	23.34		
10	QPSK	1	49	23.32	23.48	23.34		
10	QPSK	25	0	23.27	23.43	23.09	24.5	0
10	QPSK	25	12	23.25	23.35	23.06		
10	QPSK	25	25	23.13	23.28	23.34		
10	QPSK	50	0	23.10	23.49	23.17	24.5	0
10	16QAM	1	0	23.11	23.21	23.06		
10	16QAM	1	25	23.14	23.13	23.35		
10	16QAM	1	49	23.04	23.28	22.99	23.5	1
10	16QAM	25	0	22.12	22.10	22.02		
10	16QAM	25	12	22.22	22.30	22.34		
10	16QAM	25	25	22.23	22.29	22.13	23.5	1
10	16QAM	50	0	22.17	22.24	22.27		
10	64QAM	1	0	22.35	22.29	22.38		
10	64QAM	1	25	22.52	22.48	22.52	23.5	1
10	64QAM	1	49	22.54	22.49	22.39		
10	64QAM	25	0	21.10	21.09	21.05		
10	64QAM	25	12	21.23	21.15	21.22	22.5	2
10	64QAM	25	25	21.27	21.16	21.10		
10	64QAM	50	0	21.18	21.16	21.19		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.13	23.38	23.07	24.5	0
5	QPSK	1	12	23.13	23.13	23.22		
5	QPSK	1	24	23.12	23.49	23.15		
5	QPSK	12	0	23.07	23.42	22.95	24.5	0
5	QPSK	12	7	23.11	23.36	23.05		
5	QPSK	12	13	23.12	23.23	23.28		
5	QPSK	25	0	23.05	23.39	23.12	24.5	0
5	16QAM	1	0	23.01	23.01	22.91		
5	16QAM	1	12	22.99	23.04	23.33		
5	16QAM	1	24	22.99	23.13	22.89	23.5	1
5	16QAM	12	0	22.00	22.02	21.89		
5	16QAM	12	7	22.23	22.11	22.16		
5	16QAM	12	13	22.16	22.10	21.90	23.5	1
5	16QAM	25	0	22.10	22.12	22.23		
5	64QAM	1	0	22.30	22.27	22.22		
5	64QAM	1	12	22.32	22.46	22.43	23.5	1
5	64QAM	1	24	22.33	22.50	22.23		
5	64QAM	12	0	21.05	20.95	20.86		
5	64QAM	12	7	21.05	20.96	21.16	22.5	2
5	64QAM	12	13	21.14	20.95	21.08		
5	64QAM	25	0	21.15	21.09	21.21		

Band 26 Ant2 DS11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	23.51	23.56	23.48	24.5	0
15	QPSK	1	37	23.53	23.50	23.47		
15	QPSK	1	74	23.36	23.37	23.33		
15	QPSK	36	0	23.49	23.52	23.46	24.5	0
15	QPSK	36	20	23.36	23.46	23.43		
15	QPSK	36	39	23.30	23.36	23.31		
15	QPSK	75	0	23.38	23.49	23.34	24.5	0
15	16QAM	1	0	23.40	23.44	23.26		
15	16QAM	1	37	23.51	23.50	23.36		
15	16QAM	1	74	23.15	23.30	23.15	24.5	0
15	16QAM	36	0	22.43	22.36	22.31		
15	16QAM	36	20	22.50	22.31	22.44		
15	16QAM	36	39	22.52	22.45	22.20	23.5	1
15	16QAM	75	0	22.54	22.22	22.43		
15	64QAM	1	0	22.41	22.42	22.50		
15	64QAM	1	37	22.64	22.58	22.69	23.5	1
15	64QAM	1	74	22.61	22.33	22.38		
15	64QAM	36	0	21.40	21.11	21.45		
15	64QAM	36	20	21.47	21.33	21.40	22.5	2
15	64QAM	36	39	21.49	21.36	21.41		
15	64QAM	75	0	21.42	21.22	21.48		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	23.47	23.46	23.38	24.5	0
10	QPSK	1	25	23.45	23.33	23.30		
10	QPSK	1	49	23.22	23.23	23.21		
10	QPSK	25	0	23.25	23.48	23.19	24.5	0
10	QPSK	25	12	23.19	23.31	23.30		
10	QPSK	25	25	23.18	23.34	23.07		
10	QPSK	50	0	23.29	23.39	23.27	24.5	0
10	16QAM	1	0	23.38	23.31	23.14		
10	16QAM	1	25	23.41	23.47	23.30		
10	16QAM	1	49	23.02	23.20	23.11	23.5	1
10	16QAM	25	0	22.36	22.34	22.12		
10	16QAM	25	12	22.47	22.12	22.36		
10	16QAM	25	25	22.50	22.27	22.18	23.5	1
10	16QAM	50	0	22.36	22.12	22.27		
10	64QAM	1	0	22.36	22.36	22.38		
10	64QAM	1	25	22.49	22.52	22.52	23.5	1
10	64QAM	1	49	22.59	22.16	22.28		
10	64QAM	25	0	21.27	21.04	21.37		
10	64QAM	25	12	21.43	21.21	21.25	22.5	2
10	64QAM	25	25	21.48	21.34	21.21		
10	64QAM	50	0	21.27	21.11	21.42		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.49	23.38	23.34	24.5	0
5	QPSK	1	12	23.45	23.31	23.29		
5	QPSK	1	24	23.35	23.33	23.21		
5	QPSK	12	0	23.33	23.37	23.06	24.5	0
5	QPSK	12	7	23.25	23.44	23.33		
5	QPSK	12	13	23.16	23.37	23.16		
5	QPSK	25	0	23.29	23.41	23.26	24.5	0
5	16QAM	1	0	23.36	23.35	23.11		
5	16QAM	1	12	23.33	23.45	23.27		
5	16QAM	1	24	22.98	23.27	23.06	24.5	0
5	16QAM	12	0	22.29	22.25	22.18		
5	16QAM	12	7	22.38	22.15	22.37		
5	16QAM	12	13	22.50	22.43	22.04	23.5	1
5	16QAM	25	0	22.38	22.20	22.39		
5	64QAM	1	0	22.32	22.37	22.32		
5	64QAM	1	12	22.59	22.54	22.57	23.5	1
5	64QAM	1	24	22.45	22.27	22.27		
5	64QAM	12	0	21.35	21.02	21.34		
5	64QAM	12	7	21.45	21.20	21.36	22.5	2
5	64QAM	12	13	21.36	21.31	21.26		
5	64QAM	25	0	21.33	21.19	21.32		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	23.47	23.41	23.41	24.5	0
3	QPSK	1	8	23.49	23.47	23.43		
3	QPSK	1	14	23.34	23.22	23.16		
3	QPSK	8	0	23.31	23.45	23.18	24.5	0
3	QPSK	8	4	23.34	23.44	23.26		
3	QPSK	8	7	23.21	23.38	23.21		
3	QPSK	15	0	23.16	23.36	23.15	24.5	0
3	16QAM	1	0	23.36	23.24	23.16		
3	16QAM	1	8	23.46	23.46	23.05		
3	16QAM	1	14	22.97	23.30	23.22	23.5	1
3	16QAM	8	0	22.28	22.20	22.20		
3	16QAM	8	4	22.48	22.28	22.37		
3	16QAM	8	7	22.38	22.43	22.04	23.5	1
3	16QAM	15	0	22.40	22.07	22.38		
3	64QAM	1	0	22.27	22.35	22.43		
3	64QAM	1	8	22.51	22.52	22.54	23.5	1
3	64QAM	1	14	22.48	22.13	22.35		
3	64QAM	8	0	21.38	21.00	21.42		
3	64QAM	8	4	21.35	21.25	21.31	22.5	2
3	64QAM	8	7	21.30	21.35	21.31		
3	64QAM	15	0	21.24	21.21	21.38		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	23.36	23.40	23.42	24.5	0
1.4	QPSK	1	0	23.43	23.43	23.47		
1.4	QPSK	1	5	23.31	23.25	23.31		
1.4	QPSK	3	0	23.41	23.50	23.32	24.5	0
1.4	QPSK	3	1	23.41	23.35	23.44		
1.4	QPSK	3	3	23.21	23.26	23.17		
1.4	QPSK	6	0	23.42	23.32	23.07	24.5	0
1.4	16QAM	1	0	23.32	23.42	23.24		
1.4	16QAM	1	3	23.21	23.37	23.05		
1.4	16QAM	1	5	22.36	22.34	23.05	24.5	0
1.4	16QAM	3	0	23.26	23.39	23.15		
1.4	16QAM	3	1	23.49	23.36	23.29		
1.4	16QAM	3	3	23.13	23.15	23.03	23.5	1
1.4	16QAM	6	0	22.23	22.17	22.25		
1.4	64QAM	1	0	22.45	22.30	22.42		
1.4	64QAM	1	3	22.50	22.40	22.03	23.5	1
1.4	64QAM	1	5	22.36	22.04	22.35		
1.4	64QAM	3	0	22.38	22.34	22.37		
1.4	64QAM	3	1	22.55	22.56	22.58	22.5	2
1.4	64QAM	3	3	22.53	22.17	22.38		
1.4	64QAM	6	0	21.23	20.95	21.36		

Band 38 Ant2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.82	21.00	20.51	22	0	
20	QPSK	1	49	20.64	20.51	20.89			
20	QPSK	1	99	20.75	20.63	20.62			
20	QPSK	50	0	20.81	20.99	20.81			
20	QPSK	50	24	20.84	20.80	20.90	22	0	
20	QPSK	50	80	20.86	20.92	20.69			
20	QPSK	100	0	20.82	20.84	20.57			
20	16QAM	1	0	20.71	20.97	20.69			
20	16QAM	1	49	20.92	20.94	20.71	22	0	
20	16QAM	1	99	20.91	20.80	20.72			
20	16QAM	50	0	20.93	20.87	20.88			
20	16QAM	50	24	20.89	20.88	20.97			
20	16QAM	50	80	20.86	20.90	20.72	22	0	
20	16QAM	100	0	20.85	20.56	20.74			
20	64QAM	1	0	20.92	20.74	20.87			
20	64QAM	1	49	20.87	20.89	20.74			
20	64QAM	1	99	20.83	20.79	20.82	22	0	
20	64QAM	50	0	20.73	20.84	20.84			
20	64QAM	50	24	20.98	20.88	20.95			
20	64QAM	50	80	20.82	20.80	20.74			
20	64QAM	100	0	20.95	20.98	20.59	22	0	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.77	20.92	20.56	22	0	
15	QPSK	1	37	20.61	20.52	20.73			
15	QPSK	1	74	20.84	20.57	20.53			
15	QPSK	36	0	20.71	20.84	20.71			
15	QPSK	36	20	20.70	20.74	20.75	22	0	
15	QPSK	36	39	20.89	20.77	20.53			
15	QPSK	75	0	20.71	20.68	20.57			
15	16QAM	1	0	20.69	20.79	20.59			
15	16QAM	1	37	20.91	20.76	20.57	22	0	
15	16QAM	1	74	20.74	20.79	20.56			
15	16QAM	36	0	20.80	20.86	20.86			
15	16QAM	36	20	20.79	20.86	20.84			
15	16QAM	36	39	20.81	20.80	20.60	22	0	
15	16QAM	75	0	20.68	20.62	20.59			
15	64QAM	1	0	20.74	20.63	20.84			
15	64QAM	1	37	20.95	20.79	20.78			
15	64QAM	1	74	20.66	20.70	20.68	22	0	
15	64QAM	36	0	20.87	20.69	20.74			
15	64QAM	36	20	20.82	20.81	20.88			
15	64QAM	36	39	20.73	20.85	20.67			
15	64QAM	75	0	20.87	20.84	20.71	22	0	
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.70	20.85	20.66	22	0	
10	QPSK	1	25	20.64	20.75	20.75			
10	QPSK	1	49	20.60	20.66	20.63			
10	QPSK	25	0	20.71	20.84	20.72			
10	QPSK	25	12	20.71	20.61	20.84	22	0	
10	QPSK	25	25	20.91	20.92	20.66			
10	QPSK	50	0	20.71	20.75	20.57			
10	16QAM	1	0	20.64	20.77	20.54			
10	16QAM	1	25	20.93	20.85	20.72	22	0	
10	16QAM	1	49	20.86	20.63	20.51			
10	16QAM	25	0	20.82	20.85	20.86			
10	16QAM	25	12	20.77	20.85	20.82			
10	16QAM	25	25	20.88	20.70	20.52	22	0	
10	16QAM	50	0	20.72	20.71	20.65			
10	64QAM	1	0	20.86	20.68	20.77			
10	64QAM	1	25	20.84	20.70	20.97			
10	64QAM	1	49	20.72	20.62	20.66	22	0	
10	64QAM	25	0	20.64	20.70	20.71			
10	64QAM	25	12	20.88	20.86	20.95			
10	64QAM	25	25	20.70	20.73	20.50			
10	64QAM	50	0	20.80	20.95	20.55	22	0	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.82	20.82	20.59	22	0	
5	QPSK	1	12	20.73	20.57	20.80			
5	QPSK	1	24	20.57	20.59	20.56			
5	QPSK	12	0	20.81	20.76	20.68			
5	QPSK	12	7	20.70	20.61	20.89	22	0	
5	QPSK	12	13	20.87	20.87	20.70			
5	QPSK	25	0	20.57	20.72	20.61			
5	16QAM	1	0	20.70	20.81	20.51			
5	16QAM	1	12	20.89	20.91	20.61	22	0	
5	16QAM	1	24	20.84	20.78	20.51			
5	16QAM	12	0	20.76	20.94	20.74			
5	16QAM	12	7	20.62	20.93	20.82			
5	16QAM	12	13	20.76	20.63	20.58	22	0	
5	16QAM	25	0	20.67	20.63	20.71			
5	64QAM	1	0	20.78	20.85	20.71			
5	64QAM	1	12	20.96	20.65	20.97			
5	64QAM	1	24	20.56	20.57	20.57	22	0	
5	64QAM	12	0	20.50	20.59	20.82			
5	64QAM	12	7	20.81	20.96	20.90			
5	64QAM	12	13	20.67	20.80	20.54			
5	64QAM	25	0	20.73	20.69	20.51	22	0	
Channel				37750	38000	38250			
Frequency (MHz)				2570	2595	2620	Tune-up limit (dBm)	MPR (dB)	

Band 41 Ant2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506	2549.5	2593	2636.5		
20	QPSK	1	0	20.76	20.75	21.02	20.74	22	0
20	QPSK	1	49	20.60	20.75	20.66	20.66		
20	QPSK	1	99	20.74	20.61	20.68	20.66		
20	QPSK	50	0	20.57	20.67	20.98	20.59		
20	QPSK	50	24	20.58	20.54	20.73	20.70	22	0
20	QPSK	50	80	20.56	20.83	20.74	20.58		
20	QPSK	100	0	20.65	20.74	20.80	20.53		
20	16QAM	1	0	20.63	20.59	20.84	20.72		
20	16QAM	1	49	20.64	20.73	20.82	20.58	22	0
20	16QAM	1	99	20.76	20.68	20.72	20.58		
20	16QAM	50	0	20.61	20.56	20.82	20.76		
20	16QAM	50	24	20.56	20.58	20.86	20.61		
20	16QAM	50	80	20.57	20.83	20.74	20.58	22	0
20	16QAM	100	0	20.65	20.59	20.73	20.71		
20	64QAM	1	0	20.63	20.55	20.86	20.56		
20	64QAM	1	49	20.55	20.58	20.70	20.58		
20	64QAM	1	99	20.59	20.56	20.84	20.65	22	0
20	64QAM	50	0	20.60	20.59	20.71	20.71		
20	64QAM	50	24	20.63	20.60	20.80	20.55		
20	64QAM	50	80	20.57	20.85	20.63	20.63		
20	64QAM	100	0	20.72	20.62	20.82	20.65	22	0
Channel				39725	40173	40620	41068		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	20.64	20.69	20.69	20.57	22.00	0
15	QPSK	1	37	20.39	20.73	20.54	20.50		
15	QPSK	1	74	20.70	20.40	20.54	20.63		
15	QPSK	36	0	20.57	20.80	20.77	20.40		
15	QPSK	36	20	20.58	20.37	20.63	20.70	22	0
15	QPSK	36	39	20.44	20.43	20.79	20.72		

Band 2 Ant4 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	24.48	24.67	24.51	25.5	0	
20	QPSK	1	49	24.31	24.47	24.44			
20	QPSK	1	99	24.38	24.59	24.37			
20	QPSK	50	0	23.59	23.70	23.50			
20	QPSK	50	24	23.47	23.55	23.56	24.5	1	
20	QPSK	50	50	23.29	23.35	23.40			
20	QPSK	100	0	23.45	23.62	23.42			
20	16QAM	1	0	23.39	23.65	23.48			
20	16QAM	1	49	23.26	23.50	23.46	24.5	1	
20	16QAM	1	99	23.33	23.60	23.36			
20	16QAM	50	0	22.53	22.52	22.41			
20	16QAM	50	24	22.33	22.57	22.47			
20	16QAM	50	50	22.28	22.54	22.41	23.5	2	
20	16QAM	100	0	22.43	22.66	22.33			
20	16QAM	1	0	22.56	22.65	22.40			
20	16QAM	1	49	22.47	22.74	22.44			
20	16QAM	1	99	22.26	22.39	22.52	23.5	2	
20	16QAM	50	0	21.51	21.56	21.41			
20	16QAM	50	24	21.50	21.77	21.51			
20	16QAM	50	50	21.46	21.67	21.47			
20	16QAM	100	0	21.19	21.50	21.57	Tune-up limit (dBm)	MPR (dB)	
Channel				18675	18900	19125			
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	0	24.34	24.49	24.40	25.5	0	
15	QPSK	1	37	24.32	24.46	24.39			
15	QPSK	1	74	24.21	24.57	24.34			
15	QPSK	36	0	23.51	23.49	23.45			
15	QPSK	36	20	23.40	23.52	23.37	24.5	1	
15	QPSK	36	39	23.23	23.14	23.38			
15	QPSK	75	0	23.45	23.47	23.37			
15	16QAM	1	0	23.18	23.47	23.44			
15	16QAM	1	37	23.09	23.44	23.40	24.5	1	
15	16QAM	1	74	23.30	23.55	23.23			
15	16QAM	36	0	22.38	22.42	22.33			
15	16QAM	36	20	22.20	22.39	22.26			
15	16QAM	36	39	22.10	22.33	22.38	23.5	2	
15	16QAM	75	0	22.34	22.60	22.23			
15	16QAM	1	0	22.38	22.44	22.33			
15	16QAM	1	37	22.31	22.53	22.25			
15	16QAM	1	74	22.06	22.40	22.38	23.5	2	
15	16QAM	36	0	21.34	21.47	21.24			
15	16QAM	36	20	21.39	21.59	21.34			
15	16QAM	36	39	21.39	21.58	21.29			
15	16QAM	75	0	21.08	21.35	21.40	Tune-up limit (dBm)	MPR (dB)	
Channel				18650	18900	19150			
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	0	24.41	24.47	24.38	25.5	0	
10	QPSK	1	25	24.30	24.35	24.39			
10	QPSK	1	49	24.37	24.42	24.27			
10	QPSK	25	0	23.55	23.69	23.45			
10	QPSK	25	12	23.28	23.55	23.44	24.5	1	
10	QPSK	25	25	23.19	23.32	23.33			
10	QPSK	50	0	23.32	23.50	23.33			
10	16QAM	1	0	23.40	23.61	23.40			
10	16QAM	1	25	23.24	23.49	23.26	24.5	1	
10	16QAM	1	49	23.13	23.56	23.16			
10	16QAM	25	0	22.38	22.31	22.37			
10	16QAM	25	12	22.16	22.36	22.48			
10	16QAM	25	25	22.26	22.33	22.36	23.5	2	
10	16QAM	50	0	22.32	22.65	22.34			
10	16QAM	1	0	22.58	22.45	22.28			
10	16QAM	1	25	22.38	22.56	22.36			
10	16QAM	1	49	22.11	22.37	22.32	22.5	3	
10	16QAM	25	0	21.42	21.50	21.39			
10	16QAM	25	12	21.51	21.75	21.47			
10	16QAM	25	25	21.35	21.47	21.40			
10	16QAM	50	0	21.11	21.35	21.57	Tune-up limit (dBm)	MPR (dB)	
Channel				18625	18900	19175			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	0	24.37	24.62	24.43	25.5	0	
5	QPSK	1	12	24.16	24.42	24.33			
5	QPSK	1	24	24.31	24.60	24.15			
5	QPSK	12	0	23.41	23.62	23.43			
5	QPSK	12	7	23.35	23.55	23.48	24.5	1	
5	QPSK	12	13	23.16	23.13	23.23			
5	QPSK	25	0	23.44	23.43	23.23			
5	16QAM	1	0	23.21	23.53	23.32			
5	16QAM	1	12	23.08	23.37	23.26	24.5	1	
5	16QAM	1	24	23.24	23.48	23.31			
5	16QAM	12	0	22.52	22.46	22.28			
5	16QAM	12	7	22.29	22.54	22.46			
5	16QAM	12	13	22.18	22.32	22.41	23.5	2	
5	16QAM	25	0	22.22	22.55	22.24			
5	16QAM	1	0	22.46	22.57	22.23			
5	16QAM	1	12	22.42	22.70	22.22			
5	16QAM	1	24	22.23	22.36	22.31	23.5	2	
5	16QAM	12	0	21.38	21.44	21.33			
5	16QAM	12	7	21.45	21.63	21.35			
5	16QAM	12	13	21.36	21.54	21.34			
5	16QAM	25	0	21.18	21.30	21.44	Tune-up limit (dBm)	MPR (dB)	
Channel				18615	18900	19185			
Frequency (MHz)				1861.5	1880	1908.5			
3	QPSK	1	0	24.36	24.62	24.46	25.5	0	
3	QPSK	1	8	24.13	24.44	24.34			
3	QPSK	1	14	24.35	24.45	24.25			
3	QPSK	8	0	23.51	23.49	23.35			
3	QPSK	8	4	23.43	23.38	23.48	24.5	1	
3	QPSK	8	7	23.10	23.28	23.21			
3	QPSK	15	0	23.45	23.55	23.29			
3	16QAM	1	0	23.40	23.51	23.30			
3	16QAM	1	8	23.21	23.43	23.35	24.5	1	
3	16QAM	1	14	23.34	23.58	23.34			
3	16QAM	8	0	22.51	22.35	22.25			
3	16QAM	8	4	22.20	22.56	22.39			
3	16QAM	8	7	22.21	22.47	22.40	23.5	2	
3	16QAM	15	0	22.32	22.57	22.24			
3	16QAM	1	0	22.56	22.66	22.34			
3	16QAM	1	8	22.47	22.66	22.30			
3	16QAM	1	14	22.22	22.28	22.52	22.5	3	
3	16QAM	8	0	21.33	21.51	21.40			
3	16QAM	8	4	21.50	21.56	21.30			
3	16QAM	8	7	21.33	21.67	21.32			
3	16QAM	15	0	21.14	21.34	21.56	Tune-up limit (dBm)	MPR (dB)	
Channel				18507	18900	19193			
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	24.24	24.47	24.34	25.5	0	
1.4	QPSK	1	3	24.04	24.24	24.31			
1.4	QPSK	1	5	24.31	24.42	24.25			
1.4	QPSK	3	0	24.21	24.50	24.42			
1.4	QPSK	3	1	24.11	24.36	24.20	24.5	1	
1.4	QPSK	3	3	24.21	24.26	24.13			
1.4	QPSK	6	0	23.17	23.44	23.14			
1.4	16QAM	1	0	23.33	23.37	23.29			
1.4	16QAM	1	3	23.07	23.34	23.34	24.5	1	
1.4	16QAM	1	5	23.26	23.39	23.15			
1.4	16QAM	3	0	23.37	23.45	23.24			
1.4	16QAM	3	1	23.19	23.29	23.15	23.5	2	
1.4	16QAM	3	3	23.14	23.52	23.23			
1.4	16QAM	6	0	22.25	22.50	22.22			
1.4	16QAM	1	0	22.52	22.48	22.31			
1.4	16QAM	1	3	22.47	22.48	22.32	23.5	2	
1.4	16QAM	1	5	22.10	22.16	22.43			
1.4	16QAM	3	0	22.56	22.57	22.13			
1.4	16QAM	3	1	22.40	22.23	22.19			
1.4	16QAM	3	3	22.16	22.14	22.50	22.5	3	
1.4	16QAM	6	0	21.00	22.14	21.45			

Band 38 Ant4 DSI1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.84	21.82	21.69	23	0		
20	QPSK	1	49	21.75	21.58	21.46				
20	QPSK	1	99	21.62	21.68	21.78				
20	QPSK	50	0	20.66	20.60	20.56	22	1		
20	QPSK	50	24	20.63	20.50	20.52				
20	QPSK	50	50	20.57	20.70	20.89				
20	QPSK	100	0	20.59	20.70	20.64	22	1		
20	16QAM	1	0	20.44	20.65	20.80				
20	16QAM	1	49	20.48	20.53	20.62				
20	16QAM	1	99	20.34	20.63	20.59	21	2		
20	16QAM	50	0	19.47	19.76	19.43				
20	16QAM	50	24	19.67	19.60	19.55				
20	16QAM	50	50	19.36	19.65	19.85	21	2		
20	16QAM	100	0	19.57	19.62	19.68				
20	64QAM	1	0	19.38	19.81	19.52				
20	64QAM	1	49	19.73	19.60	19.38	21	2		
20	64QAM	1	99	19.56	19.77	19.67				
20	64QAM	50	0	18.72	18.75	18.62				
20	64QAM	50	24	18.43	18.86	18.79	20	3		
20	64QAM	50	50	18.59	18.71	18.48				
20	64QAM	100	0	18.34	18.68	18.82				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.50	21.66	21.69	23	0		
15	QPSK	1	37	21.35	21.75	21.56				
15	QPSK	1	74	21.45	21.70	21.69				
15	QPSK	36	0	20.56	20.75	20.69	22	1		
15	QPSK	36	20	20.59	20.51	20.57				
15	QPSK	36	39	20.60	20.74	20.73				
15	QPSK	75	0	20.57	20.70	20.65	22	1		
15	16QAM	1	0	20.43	20.78	20.63				
15	16QAM	1	37	20.55	20.64	20.59				
15	16QAM	1	74	20.42	20.59	20.64	21	2		
15	16QAM	36	0	19.59	19.55	19.45				
15	16QAM	36	20	19.72	19.78	19.64				
15	16QAM	36	39	19.39	19.59	19.68	21	2		
15	16QAM	75	0	19.58	19.71	19.80				
15	64QAM	1	0	19.57	19.74	19.48				
15	64QAM	1	37	19.71	19.51	19.42	21	2		
15	64QAM	1	74	19.46	19.67	19.60				
15	64QAM	36	0	18.68	18.78	18.62				
15	64QAM	36	20	18.52	18.69	18.76	20	3		
15	64QAM	36	39	18.61	18.52	18.29				
15	64QAM	75	0	18.35	18.74	18.82				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	21.54	21.73	21.60	23	0		
10	QPSK	1	25	21.41	21.81	21.55				
10	QPSK	1	49	21.43	21.73	21.59				
10	QPSK	25	0	20.49	20.70	20.58	22	1		
10	QPSK	25	12	20.79	20.57	20.68				
10	QPSK	25	25	20.60	20.67	20.81				
10	QPSK	50	0	20.59	20.71	20.74	22	1		
10	16QAM	1	0	20.56	20.76	20.85				
10	16QAM	1	25	20.52	20.66	20.64				
10	16QAM	1	49	20.40	20.69	20.64	21	2		
10	16QAM	25	0	19.51	19.71	19.40				
10	16QAM	25	12	19.74	19.71	19.55				
10	16QAM	25	25	19.35	19.47	19.73	21	2		
10	16QAM	50	0	19.64	19.61	19.74				
10	64QAM	1	0	19.40	19.71	19.50				
10	64QAM	1	25	19.72	19.47	19.36	21	2		
10	64QAM	1	49	19.39	19.68	19.73				
10	64QAM	25	0	18.61	18.70	18.56				
10	64QAM	25	12	18.49	18.91	18.65	20	3		
10	64QAM	25	25	18.62	18.65	18.56				
10	64QAM	50	0	18.36	18.73	18.74				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	21.46	21.65	21.77	23	0		
5	QPSK	1	12	21.32	21.67	21.47				
5	QPSK	1	24	21.42	21.65	21.73				
5	QPSK	12	0	20.49	20.74	20.59	22	1		
5	QPSK	12	7	20.74	20.67	20.53				
5	QPSK	12	13	20.60	20.71	20.75				
5	QPSK	25	0	20.56	20.74	20.71	22	1		
5	16QAM	1	0	20.55	20.71	20.80				
5	16QAM	1	12	20.48	20.51	20.45				
5	16QAM	1	24	20.38	20.67	20.67	21	2		
5	16QAM	12	0	19.43	19.71	19.50				
5	16QAM	12	7	19.57	19.77	19.51				
5	16QAM	12	13	19.38	19.49	19.71	21	2		
5	16QAM	25	0	19.51	19.73	19.70				
5	64QAM	1	0	19.48	19.89	19.52				
5	64QAM	1	12	19.68	19.53	19.52	21	2		
5	64QAM	1	24	19.48	19.64	19.74				
5	64QAM	12	0	18.49	18.79	18.60				
5	64QAM	12	7	18.55	18.79	18.86	20	3		
5	64QAM	12	13	18.60	18.63	18.66				
5	64QAM	25	0	18.46	18.71	18.77				

Band 41 Ant4 DSI1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.50	21.66	21.83	21.82	21.80	23	0
20	QPSK	1	49	21.42	21.52	21.79	21.61	21.64		
20	QPSK	1	99	21.46	21.50	21.79	21.80	21.59		
20	QPSK	50	0	20.65	20.71	20.82	20.75	20.87	22	1
20	QPSK	50	24	20.60	20.81	20.69	20.68	20.60		
20	QPSK	50	50	20.67	20.71	20.84	20.87	20.59		
20	QPSK	100	0	20.58	20.76	20.81	20.73	20.80	22	1
20	16QAM	1	0	20.60	20.85	20.82	20.92	20.77		
20	16QAM	1	49	20.74	20.64	20.68	20.64	20.55		
20	16QAM	1	99	20.56	20.51	20.74	20.76	20.58	21	2
20	16QAM	50	0	19.66	19.64	19.77	19.57	19.87		
20	16QAM	50	24	19.58	19.72	19.77	19.70	19.51		
20	16QAM	50	50	19.51	19.43	19.65	19.87	19.67	21	2
20	16QAM	100	0	19.50	19.70	19.72	19.82	19.75		
20	64QAM	1	0	19.62	19.59	19.89	19.61	19.84		
20	64QAM	1	49	19.45	19.72	19.62	19.56	19.56	21	2
20	64QAM	1	99	19.62	19.57	19.77	19.75	19.52		
20	64QAM	50	0	18.90	18.70	18.87	18.76	18.86		
20	64QAM	50	24	18.72	18.60	18.89	18.85	18.85	20	3
20	64QAM	50	50	18.73	18.66	18.81	18.81	18.77		
20	64QAM	100	0	18.53	18.45	18.86	18.86	18.50		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.45	21.50	21.62	21.70	21.67	23.00	0
15	QPSK	1	37	21.29	21.37	21.66	21.50	21.53		
15	QPSK	1	74	21.29	21.30	21.77	21.63	21.47		
15	QPSK	36	20	20.52	20.68	20.81	20.76	20.77	22	1
15	QPSK	36	20	20.42	20.60	20.61	20.58	20.49		
15	QPSK	36	39	20.56	20.65	20.82	20.85	20.56		
15	QPSK	75	0	20.53	20.69	20.61	20.69	20.64	22	1
15	16QAM	1	0	20.47	20.63	20.75	20.84	20.57		
15	16QAM	1	37	20.52	20.52	20.61	20.62	20.51		
15	16QAM	1	74	20.52	20.49	20.60	20.58	20.42	21	2
15	16QAM	36	20	19.59	19.59	19.59	19.53	19.16		
15	16QAM	36	20	19.57	19.51	19.70	19.68	19.52		
15	16QAM	36	39	19.34	19.35	19.48	19.69	19.57	21	2
15	16QAM	75	0	19.39	19.49	19.59	19.69	19.59		
15	64QAM	1	0	19.46	19.51	19.53	19.64	19.69		
15	64QAM	1	37	19.44	19.42	19.70	19.44	18.83	21	2
15	64QAM	1	74	19.37	19.73	19.62	19.36	19.40		
15	64QAM	36	20	18.73	18.57	18.68	18.71	18.68		
15	64QAM	36	20	18.56	18.51	18.50	18.50	18.46	20	3
15	64QAM	36	39	18.43	18.43	18.80	18.70	18.49		
15	64QAM	75	0	18.32	18.46	18.77	18.76	18.47		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.31	21.55	21.64	21.64	21.64	23.00	0
10	QPSK	1	25	21.37	21.40	21.80	21.44	21.50		
10	QPSK	1	49	21.35	21.50	21.66	21.59	21.50		
10	QPSK	25	0	20.61	20.50	20.81	20.69	20.66	22	1
10	QPSK	25	12	20.53	20.81	20.67	20.49	20.53		
10	QPSK	25	25	20.52	20.51	20.76	20.79	20.39		
10	QPSK	50	0	20.44	20.94	20.67	20.56	20.71	22	1
10	16QAM	1	0	20.48	20.58	20.78	20.73	20.78		
10	16QAM	1	25	20.71	20.45	20.57	20.50	20.55		
10	16QAM	1	49	20.43	20.51	20.62	20.57	20.37	21	2
10	16QAM	25	0	19.36	19.59	19.65	19.82	19.73		
10	16QAM	25	12	19.57	19.53	19.82	19.48	19.69		
10	16QAM	25	25	19.38	19.51	19.48	19.41	19.52	21	2
10	64QAM	1	0	19.48	19.48	19.67	19.67	19.59		
10	64QAM	1	0	19.52	19.59	19.87	19.53	19.69		
10	64QAM	1	25	19.45	19.73	19.50	19.56	19.48	21	2
10	64QAM	1	49	19.52	19.50	19.75	19.70	19.44		
10	64QAM	25	0	18.51	18.46	18.69	18.82	18.69		
10	64QAM	25	12	18.63	18.65	18.62	18.37	18.36	20	3
10	64QAM	25	25	18.46	18.45	18.84	18.64	18.51		
10	64QAM	50	0	18.41	18.46	18.58	18.62	18.52		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.47	21.61	21.75	21.76	21.76	23.00	0
5	QPSK	1	12	21.31	21.32	21.64	21.49	21.64		
5	QPSK	1	24	21.30	21.28	21.69	21.67	21.44		
5	QPSK	12	0	20.57	20.71	20.82	20.75	20.76	22	1
5	QPSK	12	6	20.60	20.80	20.62	20.46	20.41		
5	QPSK	12	13	20.67	20.50	20.62	20.75	20.56		
5	QPSK	25	0	20.56	20.63	20.73	20.57	20.82	22	1
5	16QAM	1	0	20.58	20.61	20.61	20.84	20.56		
5	16QAM	1	12	20.67	20.43	20.69	20.43	20.36		
5	16QAM	1	24	20.54	20.49	20.66	20.75	20.55	21	2
5	16QAM	1	0	19.40	19.50	19.65	19.71	19.55		
5	16QAM	12	7	19.41	19.59	19.79	19.49	19.66		
5	16QAM	12	13	19.32	19.54	19.58	19.55	19.55	21	2
5	16QAM	25	0	19.47	19.54	19.64	19.81	19.64		
5	64QAM	1	0	19.43	19.57	19.63	19.60	19.53		
5	64QAM	1	12	19.42	19.46	19.81	19.50	19.65	21	2
5	64QAM	1	24	19.42	19.68	19.59	19.42	19.44		
5	64QAM	12	7	18.80	18.49	18.72	18.72	18.79		
5	64QAM	12	13	18.65	18.54	18.80	18.65	18.86	20	3
5	64QAM	12	13	18.68	18.68	18.62	18.50	18.50		
5	64QAM	25	0	18.46	18.44	18.82	18.70	18.43		

DSI2 Power Mode for Sensor off

GSM850 Ant 1 DSI2									
TX Channel	Burst Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit	
	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)	
GSM 1 Tx slot	32.05	32.09	32.03	33.50	23.05	23.09	23.03	24.50	
GPRS 1 Tx slot	32.15	32.18	32.16	33.50	23.15	23.18	23.16	24.50	
GPRS 2 Tx slots	30.03	30.04	29.99	31.00	24.03	24.04	23.99	25.00	
GPRS 3 Tx slots	28.33	28.34	28.31	29.50	24.07	24.08	24.05	25.24	
GPRS 4 Tx slots	26.44	26.46	26.39	27.50	23.44	23.46	23.39	24.50	
EDGE 1 Tx slot	26.75	27.03	27.08	28.00	17.75	18.03	18.08	19.00	
EDGE 2 Tx slots	24.21	24.50	24.57	25.50	18.21	18.50	18.57	19.50	
EDGE 3 Tx slots	22.57	22.81	22.89	24.00	18.31	18.55	18.63	19.74	
EDGE 4 Tx slots	21.21	21.43	21.56	22.50	18.21	18.43	18.56	19.50	

GSM1800 Ant 1 DSI2									
TX Channel	Burst Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit	
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1860	1869.8	(dBm)	1850.2	1860	1869.8	(dBm)	
GSM 1 Tx slot	29.64	29.49	29.59	30.50	20.64	20.49	20.59	21.50	
GPRS 1 Tx slot	29.63	29.50	29.61	30.50	20.63	20.50	20.61	21.50	
GPRS 2 Tx slots	27.14	26.99	27.20	28.00	21.14	20.99	21.20	22.00	
GPRS 3 Tx slots	25.33	25.47	25.31	26.50	21.07	21.21	21.05	22.24	
GPRS 4 Tx slots	24.05	23.91	24.13	25.00	21.05	20.91	21.13	22.00	
EDGE 1 Tx slot	26.01	25.87	25.96	27.00	17.01	16.87	16.96	18.00	
EDGE 2 Tx slots	23.57	23.46	23.47	24.50	17.57	17.46	17.47	18.50	
EDGE 3 Tx slots	21.83	21.80	21.81	23.00	17.57	17.54	17.55	18.74	
EDGE 4 Tx slots	20.45	20.35	20.37	21.50	17.45	17.35	17.37	18.50	

WCDMA II Ant 1 DSI2										
Band		WCDMA II			WCDMA IV			WCDMA V		
TX Channel	Rx Channel	5062	8490	9538	Tune-up Limit	1312	1413	1513	Tune-up Limit	WCDMA V
		8662	9690	9638		1537	1638	1748		
Frequency (MHz)		1852.4	1860	1867.6	(dBm)	1712.4	1732.6	1752.6	(dBm)	
3GPP Rel 99	AMR 12.2kupa	24.16	24.13	24.06	25.50	24.14	24.17	24.03	25.50	24.33
3GPP Rel 99	RMC 12.2kupa	24.27	24.29	24.18	25.50	24.18	24.27	24.07	25.50	24.43
3GPP Rel 6	HSUPA Subtest-1	23.15	23.17	23.13	24.50	23.03	23.16	22.96	24.50	23.62
3GPP Rel 6	HSUPA Subtest-2	23.05	23.13	23.07	24.50	22.97	23.10	22.81	24.50	23.53
3GPP Rel 6	HSUPA Subtest-3	22.62	22.58	22.57	24.50	22.59	22.65	22.51	24.50	23.03
3GPP Rel 6	HSUPA Subtest-4	22.58	22.63	22.53	24.50	22.58	22.54	22.59	24.50	23.05
3GPP Rel 6	DC-HSDPA Subtest-1	23.23	23.22	23.24	25.00	23.07	23.22	23.17	25.00	23.54
3GPP Rel 6	DC-HSDPA Subtest-2	23.17	23.12	23.15	25.00	23.06	23.05	23.14	25.00	23.52
3GPP Rel 6	DC-HSDPA Subtest-3	22.58	22.52	22.66	24.50	22.53	22.75	22.59	24.50	22.96
3GPP Rel 6	DC-HSDPA Subtest-4	22.67	22.53	22.51	24.50	22.58	22.55	22.58	24.50	22.95
3GPP Rel 6	HSUPA Subtest-1	21.20	21.23	21.13	23.00	21.02	21.23	21.02	23.00	21.66
3GPP Rel 6	HSUPA Subtest-2	21.16	21.21	21.05	23.00	21.01	21.20	21.01	23.00	21.56
3GPP Rel 6	HSUPA Subtest-3	22.15	22.14	22.13	24.00	22.01	22.15	22.01	24.00	22.63
3GPP Rel 6	HSUPA Subtest-4	20.64	20.65	20.63	22.50	20.59	20.70	20.59	22.50	21.03
3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.10	24.00	22.10	22.20	22.10	24.00	22.50

Band 2 Ant1 DS12											
BW (MHz)	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)				1860	1880	1900					
20	QPSK	1	0	24.00	24.18	23.95	25.5	0			
20	QPSK	1	49	24.04	24.12	24.00					
20	QPSK	1	99	23.88	23.98	23.89					
20	QPSK	50	0	22.97	23.20	23.05	24.5	1			
20	QPSK	50	24	23.05	23.12	23.07					
20	QPSK	50	50	23.04	23.02	22.98					
20	QPSK	100	0	22.88	23.00	22.93	24.5	1			
20	16QAM	1	0	23.18	23.25	23.21					
20	16QAM	1	49	23.23	23.22	23.03					
20	16QAM	1	99	23.01	23.17	22.96	23.5	2			
20	16QAM	50	0	21.99	21.99	22.05					
20	16QAM	50	24	22.15	22.14	22.01					
20	16QAM	50	50	21.97	22.09	21.85	22.5	3			
20	16QAM	100	0	21.92	22.11	21.98					
20	64QAM	1	0	22.21	22.23	22.14					
20	64QAM	1	49	22.23	22.20	22.25	23.5	2			
20	64QAM	1	99	21.97	22.05	21.99					
20	64QAM	50	0	21.03	21.01	21.14					
20	64QAM	50	24	21.19	21.14	21.15	22.5	3			
20	64QAM	50	50	21.05	21.09	21.07					
20	64QAM	100	0	21.02	21.05	21.04					
Channel				1857.5	1890.0	1915.0	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1857.5	1880	1902.5					
15	QPSK	1	0	23.88	24.11	23.82	25.5	0			
15	QPSK	1	37	24.05	23.91	23.99					
15	QPSK	1	74	23.79	23.76	23.82					
15	QPSK	36	0	22.95	23.15	22.95	24.5	1			
15	QPSK	36	20	22.85	22.97	22.98					
15	QPSK	36	39	23.03	22.98	22.79					
15	QPSK	75	0	22.83	22.98	22.78	24.5	1			
15	16QAM	1	0	22.97	23.05	23.10					
15	16QAM	1	37	23.08	23.07	23.00					
15	16QAM	1	74	22.89	22.99	22.81	23.5	2			
15	16QAM	36	0	21.88	21.92	21.93					
15	16QAM	36	20	22.04	21.99	21.96					
15	16QAM	36	39	21.97	21.92	21.88	23.5	2			
15	16QAM	75	0	21.86	22.10	21.90					
15	84QAM	1	0	22.03	22.23	21.95					
15	84QAM	1	37	22.12	22.10	22.24	23.5	2			
15	84QAM	1	74	21.98	21.88	22.00					
15	84QAM	36	0	20.90	20.88	20.94					
15	84QAM	36	20	21.11	20.99	20.97	22.5	3			
15	84QAM	36	39	20.93	20.85	20.84					
15	84QAM	75	0	20.93	20.87	20.96					
Channel				1865.0	1890.0	1915.0			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905					
10	QPSK	1	0	23.88	24.06	23.93	25.5	0			
10	QPSK	1	25	23.94	23.93	23.99					
10	QPSK	1	49	23.75	23.85	23.79					
10	QPSK	25	0	22.83	23.01	22.97	24.5	1			
10	QPSK	25	12	23.02	23.08	23.08					
10	QPSK	25	25	22.92	22.88	22.82					
10	QPSK	50	0	22.84	22.89	22.95	24.5	1			
10	16QAM	1	0	23.13	23.14	23.16					
10	16QAM	1	25	23.05	23.20	22.93					
10	16QAM	1	49	22.99	23.18	22.89	23.5	2			
10	16QAM	25	0	21.86	21.83	21.91					
10	16QAM	25	12	22.01	22.08	21.98					
10	16QAM	25	25	21.89	22.08	21.89	23.5	2			
10	16QAM	50	0	21.91	22.11	21.82					
10	84QAM	1	0	22.12	22.21	22.08					
10	84QAM	1	25	22.11	22.22	22.21	23.5	2			
10	84QAM	1	49	21.93	21.92	21.90					
10	84QAM	25	0	20.86	21.01	21.09					
10	84QAM	25	12	20.97	21.15	21.11	22.5	3			
10	84QAM	25	25	20.86	20.93	20.86					
10	84QAM	50	0	20.83	20.94	20.86					
Channel				1852.5	1890.0	1917.5			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5					
5	QPSK	1	0	23.88	23.98	23.75	25.5	0			
5	QPSK	1	12	23.99	24.10	23.80					
5	QPSK	1	24	23.72	23.92	23.73					
5	QPSK	12	0	22.80	23.18	22.97	24.5	1			
5	QPSK	12	7	23.01	22.97	22.90					
5	QPSK	12	13	22.89	22.97	22.96					
5	QPSK	25	0	22.86	22.96	22.84	24.5	1			
5	16QAM	1	0	23.06	23.07	23.05					
5	16QAM	1	12	23.12	23.21	22.92					
5	16QAM	1	24	22.85	23.16	22.86	23.5	2			
5	16QAM	12	0	21.79	21.97	21.97					
5	16QAM	12	7	22.12	22.00	21.79					
5	16QAM	12	13	21.76	21.91	21.75	23.5	2			
5	16QAM	25	0	21.71	21.88	21.91					
5	84QAM	1	0	22.18	22.14	22.16					
5	84QAM	1	12	22.02	22.04	22.21	23.5	2			
5	84QAM	1	24	21.98	21.93	21.86					
5	84QAM	12	0	20.89	20.91	21.02					
5	84QAM	12	7	21.10	21.11	20.96	22.5	3			
5	84QAM	12	13	20.93	20.87	20.94					
5	84QAM	25	0	20.97	20.88	20.93					
Channel				1861.5	1880.0	1918.5			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1861.5	1880	1908.5					
3	QPSK	1	0	23.91	23.92	23.80	25.5	0			
3	QPSK	1	8	23.89	23.82	23.76					
3	QPSK	1	14	23.58	23.79	23.61					
3	QPSK	8	0	22.79	22.94	22.83	24.5	1			
3	QPSK	8	4	22.88	22.91	22.88					
3	QPSK	8	7	22.79	22.87	22.73					
3	QPSK	15	0	22.74	22.83	22.68	24.5	1			
3	16QAM	1	0	23.05	23.01	23.12					
3	16QAM	1	8	23.03	22.98	22.92					
3	16QAM	1	14	22.89	22.92	22.82	23.5	2			
3	16QAM	8	0	21.79	21.73	21.74					
3	16QAM	8	4	22.07	21.89	21.84					
3	16QAM	8	7	21.75	21.73	21.73	22.5	3			
3	16QAM	15	0	21.80	21.89	21.78					
3	84QAM	1	0	21.94	21.98	21.86					
3	84QAM	1	8	21.98	21.94	22.02	23.5	2			
3	84QAM	1	14	21.80	21.80	21.81					
3	84QAM	8	0	20.95	20.91	20.99					
3	84QAM	8	4	21.00	20.85	21.04	22.5	3			
3	84QAM	8	7	20.91	20.80	20.71					
3	84QAM	15	0	20.70	20.88	20.76					
Channel				1850.0	1880.0	1919.0	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1850.0	1880	1909.3					
1.4	QPSK	1	0	23.91	23.97	23.72	25.5	0			
1.4	QPSK	1	3	23.79	23.80	23.87					
1.4	QPSK	1	5	23.70	23.75	23.85					
1.4	QPSK	3	0	23.91	23.78	23.72	24.5	1			
1.4	QPSK	3	1	23.64	23.82	23.87					
1.4	QPSK	3	3	23.68	23.59	23.53					
1.4	QPSK	6	0	22.70	22.75	22.76	24.5	1			
1.4	16QAM	1	0	22.87	23.06	22.89					
1.4	16QAM	1	5	22.97	22.95	22.79					
1.4	16QAM	3	0	22.80	23.00	22.91	24.5	1			
1.4	16QAM	3	1	22.98	22.81	22.58					
1.4	16QAM	3	3	22.55	22.66	22.69					
1.4	16QAM	6	0	21.64	21.99	21.81	23.5	2			
1.4	64QAM	1	0	21.92	21.94	21.95					
1.4	64QAM	1	3	22.12	21.93	21.94					
1.4	64QAM	1	5	21.82	21.84	21.77	23.5	2			
1.4	64QAM	3	0	21.92	21.79	21.99					
1.4	64QAM	3	1	21.99	21.85	21.94					
1.4	64QAM	3	3	21.90	21.93	21.88	22.5	3			
1.4	64QAM	6	0	20.86	20.89	20.80					

Band 4 Ant1 DS12									
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				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	24.04	24.16	23.92	25.5	0	
20	QPSK	1	49	24.11	24.07	24.14			
20	QPSK	1	99	23.89	23.85	23.97			
20	QPSK	50	0	23.03	23.18	23.06	24.5	1	
20	QPSK	50	24	23.08	23.15	23.06			
20	QPSK	50	50	23.16	23.08	22.97			
20	QPSK	100	0	23.05	23.09	23.00	24.5	1	
20	16QAM	1	0	23.17	23.23	23.04			
20	16QAM	1	49	23.19	23.25	23.23			
20	16QAM	1	99	23.04	22.92	22.98	23.5	2	
20	16QAM	50	0	22.14	22.09	22.17			
20	16QAM	50	24	22.32	22.22	22.11			
20	16QAM	50	50	22.25	22.21	22.11	23.5	2	
20	16QAM	100	0	22.26	22.06	21.95			
20	64QAM	1	0	21.94	22.23	21.97			
20	64QAM	1	49	22.17	22.26	22.18	23.5	2	
20	64QAM	1	99	22.07	22.00	21.93			
20	64QAM	50	0	21.05	21.14	21.07			
20	64QAM	50	24	21.22	21.03	21.07	22.5	3	
20	64QAM	50	50	21.16	21.11	20.96			
20	64QAM	100	0	21.21	21.15	21.04			
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	23.85	24.07	23.89	25.5	0	
15	QPSK	1	37	23.93	23.86	24.09			
15	QPSK	1	74	23.73	23.88	23.83			
15	QPSK	36	0	22.86	23.09	22.86	24.5	1	
15	QPSK	36	20	23.04	22.95	23.00			
15	QPSK	36	39	22.95	22.98	22.76			
15	QPSK	75	0	22.84	23.09	22.84	24.5	1	
15	16QAM	1	0	23.00	23.17	23.03			
15	16QAM	1	37	23.12	23.13	23.10			
15	16QAM	1	74	23.01	22.87	22.95	23.5	2	
15	16QAM	36	0	21.99	22.23	22.14			
15	16QAM	36	20	22.19	22.15	22.20			
15	16QAM	36	39	22.10	22.02	21.90	23.5	2	
15	16QAM	75	0	22.16	21.99	21.87			
15	64QAM	1	0	21.93	22.25	21.96			
15	64QAM	1	37	22.02	22.13	21.91	23.5	2	
15	64QAM	1	74	22.05	22.15	21.79			
15	64QAM	36	0	21.02	21.14	20.99			
15	64QAM	36	20	21.12	21.00	20.95	22.5	3	
15	64QAM	36	39	21.11	20.91	20.90			
15	64QAM	75	0	21.12	21.00	21.06			
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	24.03	24.02	23.79	25.5	0	
10	QPSK	1	25	24.07	24.03	24.03			
10	QPSK	1	49	23.72	23.85	23.83			
10	QPSK	25	0	22.88	23.12	22.80	24.5	1	
10	QPSK	25	12	22.87	23.04	22.91			
10	QPSK	25	25	22.95	22.88	22.88			
10	QPSK	50	0	23.00	22.99	22.98	24.5	1	
10	16QAM	1	0	23.07	23.23	22.93			
10	16QAM	1	25	23.11	23.23	23.09			
10	16QAM	1	49	22.87	22.86	22.85	23.5	2	
10	16QAM	25	0	21.93	22.08	22.12			
10	16QAM	25	12	22.11	22.07	22.17			
10	16QAM	25	25	22.11	22.07	22.11	23.5	2	
10	16QAM	50	0	22.16	22.03	21.81			
10	64QAM	1	0	21.87	22.06	21.90			
10	64QAM	1	25	22.17	22.07	21.97	23.5	2	
10	64QAM	1	49	22.02	21.79	21.92			
10	64QAM	25	0	21.03	20.97	21.00			
10	64QAM	25	12	21.09	20.95	21.07	22.5	3	
10	64QAM	25	25	21.12	20.80	20.86			
10	64QAM	50	0	21.02	21.12	20.89			
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	23.85	23.95	23.71	25.5	0	
5	QPSK	1	12	24.02	23.81	23.85			
5	QPSK	1	24	23.68	23.72	23.73			
5	QPSK	12	0	22.84	22.91	22.78	24.5	1	
5	QPSK	12	7	22.77	22.90	22.85			
5	QPSK	12	13	23.06	22.77	22.81			
5	QPSK	25	0	22.87	23.00	22.79	24.5	1	
5	16QAM	1	0	23.99	23.13	22.89			
5	16QAM	1	12	23.06	22.98	23.13			
5	16QAM	1	24	22.89	22.83	22.76	23.5	2	
5	16QAM	12	0	21.85	21.98	22.06			
5	16QAM	12	7	22.10	21.92	22.04			
5	16QAM	12	13	22.00	22.01	21.82	23.5	2	
5	16QAM	25	0	22.04	21.97	21.86			
5	64QAM	1	0	21.80	22.02	21.69			
5	64QAM	1	12	21.96	22.00	21.83	23.5	2	
5	64QAM	1	24	21.95	21.81	21.68			
5	64QAM	12	0	20.86	20.85	20.78			
5	64QAM	12	7	21.12	20.91	20.92	22.5	3	
5	64QAM	12	13	21.00	20.91	20.86			
5	64QAM	25	0	21.06	20.86	20.82			
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	23.90	23.91	23.63	25.5	0	
3	QPSK	1	8	23.84	23.81	23.98			
3	QPSK	1	14	23.78	23.71	23.79			
3	QPSK	8	0	22.91	23.01	22.86	24.5	1	
3	QPSK	8	4	22.83	22.87	22.86			
3	QPSK	8	7	23.05	22.84	22.83			
3	QPSK	15	0	22.89	22.84	22.77	24.5	1	
3	16QAM	1	0	22.95	22.95	22.91			
3	16QAM	1	8	22.91	22.95	22.91			
3	16QAM	1	14	22.76	22.79	22.83	23.5	2	
3	16QAM	8	0	22.02	21.78	21.87			
3	16QAM	8	4	22.11	22.02	21.71			
3	16QAM	8	7	22.05	21.91	21.84	23.5	2	
3	16QAM	15	0	21.95	21.89	21.77			
3	64QAM	1	0	21.77	22.00	21.71			
3	64QAM	1	8	22.07	22.01	21.96	23.5	2	
3	64QAM	1	14	21.98	21.72	21.83			
3	64QAM	8	0	20.88	20.99	20.92			
3	64QAM	8	4	21.10	20.76	20.97	22.5	3	
3	64QAM	8	7	21.00	20.89	20.78			
3	64QAM	15	0	20.97	20.79	20.76			
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	23.80	24.04	23.76	25.5	0	
1.4	QPSK	1	3	23.90	23.79	23.82			
1.4	QPSK	1	5	23.76	23.67	23.84			
1.4	QPSK	3	0	23.66	23.83	23.59	24.5	1	
1.4	QPSK	3	1	23.77	23.59	23.68			
1.4	QPSK	3	3	23.76	23.83	23.76			
1.4	QPSK	6	0	22.89	22.93	22.71	24.5	1	
1.4	16QAM	1	0	23.02	23.14	22.93			
1.4	16QAM	1	3	22.95	23.09	22.84			
1.4	16QAM	1	5	22.78	22.77	22.13	23.5	2	
1.4	16QAM	3	0	22.98	23.12	22.78			
1.4	16QAM	3	1	22.74	22.99	22.07			
1.4	16QAM	3	3	22.80	22.76	22.77	23.5	2	
1.4	16QAM	6	0	22.02	21.90	21.63			
1.4	16QAM	1	0	21.81	22.04	21.86			
1.4	64QAM	1	3	21.86	22.01	22.04	23.5	2	
1.4	64QAM	1	5	21.85	21.76	21.75			
1.4	64QAM	3	0	21.91	21.93	21.91			
1.4	64QAM	3	1	21.91	21.84	21.81	22.5	3	
1.4	64QAM	3	3	21.97	21.92	21.79			
1.4	64QAM	6	0	21.10	20.88	20.73			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850 2510	21100 2535	21350 2560		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.04	22.35	21.91	23.5	0
20	QPSK	1	49	22.12	22.29	22.05		
20	QPSK	1	99	22.18	22.05	21.98		
20	QPSK	50	0	22.06	22.21	22.02	23.5	0
20	QPSK	50	24	22.15	22.18	21.94		
20	QPSK	50	50	22.00	22.12	21.92		
20	QPSK	100	0	22.02	22.19	21.92	23.5	0
20	16QAM	1	0	22.07	22.10	21.99		
20	16QAM	1	49	22.23	22.16	21.95		
20	16QAM	1	99	22.08	22.10	22.15	23.5	0
20	16QAM	50	0	22.27	22.03	22.24		
20	16QAM	50	24	22.23	22.14	21.80		
20	16QAM	50	50	22.27	22.11	21.98	23.5	0
20	16QAM	100	0	22.19	22.13	22.06		
20	64QAM	1	0	22.02	22.20	22.09		
20	64QAM	1	49	22.10	22.18	21.83	23.5	0
20	64QAM	1	99	22.04	22.07	22.07		
20	64QAM	50	0	21.65	21.80	21.57		
20	64QAM	50	24	21.75	21.62	21.51	22.5	1
20	64QAM	50	50	21.48	21.46	21.61		
20	64QAM	100	0	21.80	21.64	21.67		
Channel				20825 2507.5	21100 2535	21375 2562.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	21.98	22.10	21.80	23.5	0
15	QPSK	1	37	22.09	22.25	21.95		
15	QPSK	1	74	22.12	22.08	22.04		
15	QPSK	36	0	22.25	21.92	21.95	23.5	0
15	QPSK	36	20	22.12	22.08	21.77		
15	QPSK	36	39	22.13	22.15	21.90		
15	QPSK	75	0	22.05	22.04	21.99	23.5	0
15	16QAM	1	0	22.05	22.28	21.90		
15	16QAM	1	37	22.23	22.21	21.89		
15	16QAM	1	74	22.07	21.98	21.81	23.5	0
15	16QAM	36	0	22.01	21.98	22.12		
15	16QAM	36	20	22.20	22.10	21.98		
15	16QAM	36	39	22.11	21.94	21.79	23.5	0
15	16QAM	75	0	22.03	22.12	22.03		
15	64QAM	1	0	22.02	22.07	21.82		
15	64QAM	1	37	21.90	22.14	21.90	23.5	0
15	64QAM	1	74	22.07	22.10	22.14		
15	64QAM	36	0	21.63	21.71	21.74		
15	64QAM	36	20	21.74	21.52	21.45	22.5	1
15	64QAM	36	39	21.45	21.32	21.81		
15	64QAM	75	0	21.72	21.66	21.48		
Channel				20800 2505	21100 2535	21400 2565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.00	22.14	21.78	23.5	0
10	QPSK	1	25	21.95	22.26	22.02		
10	QPSK	1	49	22.16	21.85	21.80		
10	QPSK	25	0	22.28	22.16	22.27	23.5	0
10	QPSK	25	12	22.16	22.06	22.01		
10	QPSK	25	25	21.97	22.17	22.00		
10	QPSK	50	0	22.05	22.12	21.97	23.5	0
10	16QAM	1	0	22.07	22.08	21.86		
10	16QAM	1	25	22.28	22.20	21.90		
10	16QAM	1	49	22.28	22.02	21.90	23.5	0
10	16QAM	25	0	22.10	22.05	22.07		
10	16QAM	25	12	22.24	21.96	21.90		
10	16QAM	25	25	22.03	21.93	21.91	23.5	0
10	16QAM	50	0	21.96	21.83	21.97		
10	64QAM	1	0	21.86	22.23	21.98		
10	64QAM	1	25	22.11	22.15	21.80	23.5	0
10	64QAM	1	49	22.05	21.87	21.90		
10	64QAM	25	0	21.46	21.69	21.74		
10	64QAM	25	12	21.68	21.78	21.36	22.5	1
10	64QAM	25	25	21.44	21.45	21.40		
10	64QAM	50	0	21.69	21.70	21.53		
Channel				20775 2502.5	21100 2535	21425 2567.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.02	22.01	21.76	23.5	0
5	QPSK	1	12	22.08	21.99	22.04		
5	QPSK	1	24	22.14	21.99	21.96		
5	QPSK	12	0	22.10	21.98	22.14	23.5	0
5	QPSK	12	7	22.03	22.16	22.08		
5	QPSK	12	13	22.22	22.10	21.91		
5	QPSK	25	0	22.07	22.01	22.07	23.5	0
5	16QAM	1	0	21.90	22.08	22.05		
5	16QAM	1	12	22.25	22.20	22.04		
5	16QAM	1	24	22.30	21.98	21.86	23.5	0
5	16QAM	12	0	22.19	22.05	22.08		
5	16QAM	12	7	22.16	22.03	22.04		
5	16QAM	12	13	22.07	22.15	21.88	23.5	0
5	16QAM	25	0	22.21	22.07	21.94		
5	64QAM	1	0	22.17	22.13	21.82		
5	64QAM	1	12	21.90	22.00	21.82	23.5	0
5	64QAM	1	24	22.01	22.05	22.24		
5	64QAM	12	0	21.51	21.62	21.96		
5	64QAM	12	7	21.53	21.72	21.38	22.5	1
5	64QAM	12	13	21.65	21.49	21.57		
5	64QAM	25	0	21.54	21.65	21.54		

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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				23060 704	23095 707.5	23130 711		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.23	24.27	24.26	25.5	0
10	QPSK	1	25	24.22	24.25	24.23		
10	QPSK	1	49	24.10	24.15	24.16		
10	QPSK	25	0	23.09	23.36	23.15	24.5	1
10	QPSK	25	12	23.27	23.27	23.30		
10	QPSK	25	25	23.16	23.24	23.21		
10	QPSK	50	0	23.15	23.25	23.19	24.5	1
10	16QAM	1	0	22.99	23.25	23.09		
10	16QAM	1	25	23.13	23.30	23.16		
10	16QAM	1	49	23.15	23.19	23.18	23.5	2
10	16QAM	25	0	22.16	22.35	22.10		
10	16QAM	25	12	22.26	22.24	22.27		
10	16QAM	25	25	22.35	22.19	22.13	23.5	2
10	16QAM	50	0	22.25	22.14	22.15		
10	64QAM	1	0	22.09	22.24	22.07		
10	64QAM	1	25	22.11	22.21	22.19	23.5	2
10	64QAM	1	49	22.18	22.20	22.18		
10	64QAM	25	0	20.99	21.22	21.01		
10	64QAM	25	12	21.16	21.15	21.15	22.5	3
10	64QAM	25	25	21.13	21.09	21.04		
10	64QAM	50	0	21.17	21.02	21.04		
Channel				23035 701.5	23095 707.5	23155 713.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	24.10	24.24	24.11	25.5	0
5	QPSK	1	12	24.11	24.16	24.14		
5	QPSK	1	24	24.04	24.13	24.05		
5	QPSK	12	0	22.93	23.30	23.03	24.5	1
5	QPSK	12	7	23.23	23.20	23.18		
5	QPSK	12	13	23.11	23.14	23.16		
5	QPSK	25	0	23.13	23.10	23.03	24.5	1
5	16QAM	1	0	22.92	23.11	22.99		
5	16QAM	1	12	23.03	23.17	23.12		
5	16QAM	1	24	22.99	23.15	23.01	23.5	2
5	16QAM	12	0	22.10	22.17	21.98		
5	16QAM	12	7	22.23	22.07	22.17		
5	16QAM	12	13	22.31	22.08	21.97	23.5	2
5	16QAM	25	0	22.08	22.02	22.10		
5	64QAM	1	0	22.03	22.07	21.97		
5	64QAM	1	12	22.06	22.19	22.02	23.5	2
5	64QAM	1	24	22.16	22.16	22.10		
5	64QAM	12	0	20.85	21.16	20.95		
5	64QAM	12	7	21.04	21.02	21.11	22.5	3
5	64QAM	12	13	21.05	21.00	20.92		
5	64QAM	25	0	21.04	20.86	20.95		
Channel				23025 700.5	23095 707.5	23165 714.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.15	24.19	24.19	25.5	0
3	QPSK	1	8	24.10	24.23	24.19		
3	QPSK	1	14	23.94	23.97	24.07		
3	QPSK	8	0	23.02	23.23	23.08	24.5	1
3	QPSK	8	4	23.19	23.10	23.15		
3	QPSK	8	7	23.12	23.19	23.07		
3	QPSK	15	0	23.14	22.97	23.05	24.5	1
3	16QAM	1	0	22.95	23.17	23.06		
3	16QAM	1	8	22.96	23.08	23.08		
3	16QAM	1	14	23.08	23.16	23.14	23.5	2
3	16QAM	8	0	22.00	22.28	22.05		
3	16QAM	8	4	22.10	22.13	22.11		
3	16QAM	8	7	22.26	22.12	22.02	23.5	2
3	16QAM	15	0	22.18	22.09	22.04		
3	64QAM	1	0	21.96	22.12	21.90		
3	64QAM	1	8	22.03	22.03	22.10	23.5	2
3	64QAM	1	14	22.05	22.14	22.02		
3	64QAM	8	0	20.95	21.13	20.91		
3	64QAM	8	4	21.10	21.12	21.05	22.5	3
3	64QAM	8	7	21.07	20.94	20.89		
3	64QAM	15	0	21.02	20.91	20.96		
Channel				699.7 700.7	707.5 707.5	715.3 715.3	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	24.03	24.19	24.00	25.5	0
1.4	QPSK	1	3	24.11	24.08	24.11		
1.4	QPSK	1	5	24.04	24.01	24.04		
1.4	QPSK	3	0	24.14	24.17	24.15	24.5	1
1.4	QPSK	3	1	24.10	24.16	24.08		
1.4	QPSK	3	3	24.15	24.13	24.14		
1.4	QPSK	6	0	23.07	23.09	23.04	24.5	1
1.4	16QAM	1	0	23.08	23.13	23.03		
1.4	16QAM	1	3	23.10	23.13	23.14		
1.4	16QAM	1	5	23.06	23.03	23.05	24.5	1
1.4	16QAM	3	0	23.14	23.18	23.15		
1.4	16QAM	3	1	23.18	23.15	23.13		
1.4	16QAM	3	3	23.14	23.12	23.12	23.5	2
1.4	16QAM	6	0	21.99	22.11	22.05		
1.4	64QAM	1	0	22.14	22.26	22.12		
1.4	64QAM	1	3	22.18	22.19	22.22	23.5	2
1.4	64QAM	1	5	22.10	22.14	22.13		
1.4	64QAM	3	0	22.17	22.23	22.15		
1.4	64QAM	3	1	22.20	22.17	22.18	22.5	3
1.4	64QAM	3	3	22.19	22.14	22.16		
1.4	64QAM	6	0	21.21	21.24	21.23		

Band 17 Ant1 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.10	24.24	24.14	25.5	0	
10	QPSK	1	25	24.23	24.20	24.16			
10	QPSK	1	49	24.22	24.18	24.20			
10	QPSK	25	0	23.04	23.25	23.11	24.5	1	
10	QPSK	25	12	23.21	23.13	23.19			
10	QPSK	25	25	23.12	23.15	23.18			
10	QPSK	50	0	23.11	23.17	23.15	24.5	1	
10	16QAM	1	0	23.21	23.27	23.21			
10	16QAM	1	25	23.14	23.23	23.25			
10	16QAM	1	49	23.10	23.21	23.23	23.5	1	
10	16QAM	25	0	22.00	22.21	22.08			
10	16QAM	25	12	22.16	22.19	22.20			
10	16QAM	25	25	22.09	22.10	22.12	23.5	2	
10	16QAM	50	0	22.07	22.08	22.11			
10	64QAM	1	0	22.06	22.16	22.05			
10	64QAM	1	25	22.01	22.14	22.08	23.5	2	
10	64QAM	1	49	22.10	22.12	22.14			
10	64QAM	25	0	20.99	21.20	21.06			
10	64QAM	25	12	21.12	21.18	20.98	22.5	3	
10	64QAM	25	25	21.07	21.09	21.11			
10	64QAM	50	0	21.01	21.06	21.09			
Channel				23755 <th>23790<th>23825<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	23790 <th>23825<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	23825 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5 <th>710<th>713.5<th></th><th colspan="2"></th></th></th>	710 <th>713.5<th></th><th colspan="2"></th></th>	713.5 <th></th> <th colspan="2"></th>			
5	QPSK	1	0	24.04	24.11	24.08	25.5	0	
5	QPSK	1	12	24.20	24.17	24.03			
5	QPSK	1	24	24.10	24.10	24.05			
5	QPSK	12	0	22.94	23.19	22.96	24.5	1	
5	QPSK	12	7	23.18	22.98	23.16			
5	QPSK	12	13	23.03	23.05	23.06			
5	QPSK	25	0	23.08	23.02	23.12	24.5	1	
5	16QAM	1	0	23.13	23.19	23.13			
5	16QAM	1	12	22.99	23.18	23.14			
5	16QAM	1	24	23.00	23.06	23.14	23.5	2	
5	16QAM	12	0	21.88	22.07	22.06			
5	16QAM	12	7	21.99	22.07	22.16			
5	16QAM	12	13	22.05	22.00	22.10	23.5	2	
5	16QAM	25	0	21.93	22.02	22.01			
5	64QAM	1	0	21.98	22.05	21.93			
5	64QAM	1	12	21.99	22.05	21.95	23.5	2	
5	64QAM	1	24	22.04	22.05	21.98			
5	64QAM	12	0	20.81	21.04	20.99			
5	64QAM	12	7	21.04	21.06	20.94	22.5	3	
5	64QAM	12	13	20.98	21.07	20.97			
5	64QAM	25	0	20.95	20.99	20.98			

Band 26 Ant1 DS12											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				26765	26865	26965					
Frequency (MHz)				821.5	831.5	841.5					
15	QPSK	1	0	24.36	24.45	24.41	25.5	0			
15	QPSK	1	37	24.24	24.32	24.19					
15	QPSK	1	74	24.29	24.41	24.35					
15	QPSK	36	0	23.33	23.48	23.32	24.5	1			
15	QPSK	36	20	23.36	23.43	23.33					
15	QPSK	36	39	23.29	23.37	23.24					
15	QPSK	75	0	23.36	23.42	23.33	24.5	1			
15	16QAM	1	0	23.22	23.34	23.23					
15	16QAM	1	37	23.16	23.22	23.10					
15	16QAM	1	74	23.04	23.21	23.16	23.5	2			
15	16QAM	36	0	22.34	22.40	22.36					
15	16QAM	36	20	22.22	22.25	22.15					
15	16QAM	36	39	22.15	22.26	22.10	23.5	2			
15	16QAM	75	0	22.30	22.36	22.29					
15	64QAM	1	0	22.17	22.32	22.17					
15	64QAM	1	37	22.18	22.27	22.24	23.5	2			
15	64QAM	1	74	22.11	22.26	22.24					
15	64QAM	36	0	21.36	21.42	21.26					
15	64QAM	36	20	21.31	21.39	21.28	22.5	3			
15	64QAM	36	39	21.15	21.30	21.16					
15	64QAM	75	0	21.22	21.38	21.34					
Channel				26740	26865	26990					
Frequency (MHz)				819	831.5	844					
10	QPSK	1	0	24.27	24.39	24.24	25.5	0			
10	QPSK	1	25	24.13	24.17	24.06					
10	QPSK	1	49	24.13	24.32	24.30					
10	QPSK	25	0	23.31	23.35	23.23	24.5	1			
10	QPSK	25	12	23.21	23.37	23.18					
10	QPSK	25	25	23.15	23.25	23.09					
10	QPSK	50	0	23.30	23.36	23.22	24.5	1			
10	16QAM	1	0	23.11	23.29	23.16					
10	16QAM	1	25	23.09	23.06	23.04					
10	16QAM	1	49	22.96	23.12	23.13	23.5	2			
10	16QAM	25	0	22.29	22.26	22.23					
10	16QAM	25	12	22.10	22.20	22.10					
10	16QAM	25	25	22.06	22.22	21.96	23.5	2			
10	16QAM	50	0	22.16	22.22	22.13					
10	64QAM	1	0	22.10	22.26	22.01					
10	64QAM	1	25	22.02	22.13	22.07	23.5	2			
10	64QAM	1	49	21.98	22.12	22.13					
10	64QAM	25	0	21.33	21.35	21.22					
10	64QAM	25	12	21.14	21.30	21.14	22.5	3			
10	64QAM	25	25	21.11	21.23	21.13					
10	64QAM	50	0	21.08	21.24	21.05					
Channel				26715	26865	27015					
Frequency (MHz)				816.5	831.5	846.5					
5	QPSK	1	0	24.28	24.31	24.26	25.5	0			
5	QPSK	1	12	24.08	24.20	24.05					
5	QPSK	1	24	24.15	24.32	24.23					
5	QPSK	12	0	23.16	23.32	23.20	24.5	1			
5	QPSK	12	7	23.22	23.30	23.22					
5	QPSK	12	13	23.14	23.34	23.18					
5	QPSK	25	0	23.23	23.29	23.26	24.5	1			
5	16QAM	1	0	23.14	23.17	23.14					
5	16QAM	1	12	23.12	23.19	23.07					
5	16QAM	1	24	22.97	23.05	23.09	23.5	2			
5	16QAM	12	0	22.92	22.33	22.23					
5	16QAM	12	7	22.10	22.18	22.03					
5	16QAM	12	13	22.01	22.15	22.06	23.5	2			
5	16QAM	25	0	22.24	22.38	22.05					
5	64QAM	1	0	22.11	22.26	22.16					
5	64QAM	1	12	22.08	22.20	22.12	23.5	2			
5	64QAM	1	24	21.97	22.15	22.15					
5	64QAM	12	0	21.27	21.35	21.14					
5	64QAM	12	7	21.19	21.28	21.15	22.5	3			
5	64QAM	12	13	21.13	21.19	21.12					
5	64QAM	25	0	21.18	21.34	21.25					
Channel				26705	26865	27025					
Frequency (MHz)				815.5	831.5	847.5					
3	QPSK	1	0	24.20	24.36	24.35	25.5	0			
3	QPSK	1	8	24.11	24.29	24.13					
3	QPSK	1	14	24.12	24.32	24.21					
3	QPSK	8	0	23.25	23.34	23.27	24.5	1			
3	QPSK	8	4	23.25	23.29	23.24					
3	QPSK	8	7	23.12	23.23	23.11					
3	QPSK	15	0	23.32	23.29	23.29	24.5	1			
3	16QAM	1	0	23.13	23.26	23.12					
3	16QAM	1	8	23.06	23.12	23.02					
3	16QAM	1	14	22.88	23.11	23.14	23.5	2			
3	16QAM	8	0	22.22	22.34	22.33					
3	16QAM	8	4	22.20	22.09	22.12					
3	16QAM	8	7	21.98	22.10	22.03	23.5	2			
3	16QAM	15	0	22.25	22.22	22.03					
3	16QAM	1	0	22.12	22.26	22.06					
3	84QAM	1	8	22.02	22.13	22.10	23.5	2			
3	84QAM	1	14	22.02	22.21	22.16					
3	84QAM	8	0	21.25	21.36	21.18					
3	64QAM	8	4	21.21	21.33	21.17	22.5	3			
3	64QAM	8	7	21.10	21.19	21.00					
3	64QAM	15	0	21.18	21.29	21.22					
Channel				26697	26865	27033					
Frequency (MHz)				814.7	831.5	848.3					
1.4	QPSK	1	0	24.26	24.36	24.25	25.5	0			
1.4	QPSK	1	8	24.17	24.34	24.13					
1.4	QPSK	1	8	24.26	24.28	24.23					
1.4	QPSK	3	0	24.18	24.39	24.29	24.5	1			
1.4	QPSK	3	1	24.22	24.33	24.26					
1.4	QPSK	3	3	24.14	24.29	24.21					
1.4	QPSK	6	0	23.21	23.33	23.31	24.5	1			
1.4	16QAM	1	0	23.14	23.27	23.11					
1.4	16QAM	1	3	23.03	23.19	23.06					
1.4	16QAM	1	8	22.98	23.12	22.93	23.5	2			
1.4	16QAM	3	0	23.25	23.28	23.30					
1.4	16QAM	3	1	23.16	23.18	23.11					
1.4	16QAM	3	3	22.99	23.12	23.00	23.5	2			
1.4	64QAM	1	0	22.09	22.22	22.01					
1.4	64QAM	1	3	22.12	22.15	22.13					
1.4	64QAM	3	0	22.00	22.16	22.13	23.5	2			
1.4	64QAM	3	0	22.30	22.27	22.23					
1.4	64QAM	3	1	22.18	22.29	22.16					
1.4	64QAM	3	3	21.99	22.22	22.11	22.5	3			
1.4	64QAM	6	0	21.09	21.34	21.19					

Band 38 Ant1 DS12									
BW [MHz]	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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2550	2595	2610			
20	QPSK	1	0	24.14	24.30	24.15	25.5	0	
20	QPSK	1	49	24.03	23.89	24.12			
20	QPSK	1	99	24.14	24.01	23.96			
20	QPSK	50	0	23.01	23.29	22.95			
20	QPSK	50	24	23.27	23.15	23.17	24.5	1	
20	QPSK	50	50	23.21	23.18	23.04			
20	QPSK	100	0	23.06	23.20	22.98			
20	16QAM	1	0	23.37	23.36	23.16			
20	16QAM	1	49	23.63	23.50	23.59	24.5	1	
20	16QAM	1	99	23.41	23.28	23.27			
20	16QAM	50	0	22.16	22.19	22.33			
20	16QAM	50	24	22.22	22.06	22.24			
20	16QAM	50	50	22.15	22.27	22.12	23.5	2	
20	16QAM	100	0	22.10	22.12	22.04			
20	64QAM	1	0	22.29	22.16	22.15			
20	64QAM	1	49	22.33	22.40	22.24			
20	64QAM	1	99	22.22	22.26	22.29	23.5	2	
20	64QAM	50	0	21.05	21.08	21.09			
20	64QAM	50	24	21.20	21.22	21.25			
20	64QAM	50	50	21.10	21.09	21.18			
20	64QAM	100	0	21.22	21.11	21.12	22.5	3	
Channel				37850	38000	38150			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.03	24.28	24.14	25.5	0	
15	QPSK	1	37	24.13	24.10	24.23			
15	QPSK	1	74	24.16	24.14	24.15			
15	QPSK	36	0	23.19	23.34	23.13			
15	QPSK	36	20	23.39	23.22	23.37	24.5	1	
15	QPSK	36	39	23.41	23.16	23.29			
15	QPSK	36	0	23.27	23.20	23.32			
15	16QAM	1	0	23.53	23.60	23.60			
15	16QAM	1	37	23.75	23.66	23.58	24.5	1	
15	16QAM	1	74	23.54	23.46	23.58			
15	16QAM	36	0	22.22	22.28	22.23			
15	16QAM	36	20	22.47	22.59	22.62			
15	16QAM	36	39	22.34	22.26	22.37	23.5	2	
15	16QAM	36	0	22.40	22.33	22.35			
15	64QAM	1	0	22.27	22.46	22.50			
15	64QAM	1	37	22.39	22.53	22.36			
15	64QAM	1	74	22.49	22.32	22.42	23.5	2	
15	64QAM	36	0	21.21	21.26	21.37			
15	64QAM	36	20	21.46	21.26	21.34			
15	64QAM	36	39	21.22	21.42	21.25			
15	64QAM	36	0	21.37	21.46	21.15	22.5	3	
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.87	24.02	23.77	25.5	0	
10	QPSK	1	25	24.00	23.85	23.92			
10	QPSK	1	49	24.21	23.93	23.90			
10	QPSK	25	0	22.83	23.04	22.76			
10	QPSK	25	12	23.13	22.84	22.90	24.5	1	
10	QPSK	25	25	22.96	23.04	22.99			
10	QPSK	50	0	23.08	23.02	22.95			
10	16QAM	1	0	23.24	23.30	23.32			
10	16QAM	1	25	23.47	23.48	23.39	24.5	1	
10	16QAM	1	49	23.33	23.26	23.17			
10	16QAM	25	0	22.12	22.12	22.21			
10	16QAM	25	12	22.23	22.33	22.27			
10	16QAM	25	25	22.15	22.36	22.13	23.5	2	
10	16QAM	50	0	22.17	22.08	22.09			
10	64QAM	1	0	22.07	22.16	22.06			
10	64QAM	1	25	22.33	22.31	22.22			
10	64QAM	1	49	22.07	22.27	22.32	23.5	2	
10	64QAM	25	0	20.97	21.08	20.89			
10	64QAM	25	12	21.18	21.11	21.33			
10	64QAM	25	25	20.99	20.92	21.12			
10	64QAM	50	0	21.30	21.13	21.06	22.5	3	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.06	24.21	24.08	25.5	0	
5	QPSK	1	12	24.16	24.05	24.22			
5	QPSK	1	24	24.04	24.14	24.02			
5	QPSK	12	0	23.06	23.21	23.03			
5	QPSK	12	7	23.19	23.30	23.18	24.5	1	
5	QPSK	12	13	23.23	23.18	23.11			
5	QPSK	25	0	23.15	23.05	23.26			
5	16QAM	1	0	23.42	23.41	23.30			
5	16QAM	1	12	23.52	23.43	23.54	24.5	1	
5	16QAM	1	24	23.41	23.40	23.46			
5	16QAM	12	0	22.15	22.35	22.25			
5	16QAM	12	7	22.40	22.31	22.33			
5	16QAM	12	13	22.33	22.37	22.24	23.5	2	
5	16QAM	25	0	22.45	22.19	22.27			
5	64QAM	1	0	22.38	22.32	22.30			
5	64QAM	1	12	22.57	22.69	22.42			
5	64QAM	1	24	22.37	22.25	22.20	23.5	2	
5	64QAM	12	0	21.07	21.23	21.27			
5	64QAM	12	7	21.46	21.24	21.35			
5	64QAM	12	13	21.26	21.14	21.04			
5	64QAM	25	0	21.17	21.22	21.20	22.5	3	

Band 41 Ant1 DS12									
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.	
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.01	24.18	24.31	24.14	24.11	25.5
20	QPSK	1	49	24.13	24.12	24.11	24.19	23.95	
20	QPSK	1	99	24.06	24.01	24.06	24.11	24.22	
20	QPSK	50	0	23.12	23.04	23.30	23.25	23.06	24.5
20	QPSK	50	24	23.26	23.17	23.07	23.29	23.12	
20	QPSK	50	50	23.06	23.19	23.19	23.01	23.00	
20	QPSK	100	0	23.03	23.00	23.18	23.11	23.12	24.5
20	16QAM	1	0	23.50	23.19	23.44	23.22	23.36	
20	16QAM	1	49	23.27	23.17	23.16	23.26	23.55	
20	16QAM	1	99	23.41	23.32	23.53	23.27	23.33	24.5
20	16QAM	50	0	22.18	22.11	22.17	22.37	22.23	
20	16QAM	50	24	22.13	22.24	22.34	22.23	22.32	
20	16QAM	50	50	22.22	22.40	22.29	22.14	22.29	23.5
20	16QAM	100	0	22.16	22.18	22.30	22.24	22.01	
20	64QAM	1	0	22.20	22.24	22.30	22.32	22.40	
20	64QAM	1	49	22.53	22.44	22.59	22.35	22.46	23.5
20	64QAM	1	99	22.38	22.30	22.50	22.31	22.37	
20	64QAM	50	0	21.12	21.16	21.21	21.07	21.26	
20	64QAM	50	24	21.19	21.07	21.34	21.30	21.32	22.5
20	64QAM	50	50	21.09	21.09	21.30	21.11	21.15	
20	64QAM	100	0	20.99	20.95	21.21	21.02	21.16	
Channel				39725	40173	40620	41058	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5	
15	QPSK	1	0	23.88	23.88	24.16	23.91	23.98	25.50
15	QPSK	1	37	24.05	24.07	24.00	24.01	23.88	
15	QPSK	1	74	23.91	23.99	23.87	23.89	23.89	
15	QPSK	36	0	22.92	22.87	23.10	23.12	22.96	24.5
15	QPSK	36	20	23.15	23.03	23.02	23.05	22.89	
15	QPSK	36	39	22.95	23.16	23.12	22.89	22.75	
15	QPSK	75	0	22.90	23.07	22.89	23.07	23.14	24.5
15	16QAM	1	0	23.43	23.02	23.27	23.31	23.11	
15	16QAM	1	37	23.25	22.99	23.14	23.20	23.24	
15	16QAM	1	74	23.26	23.03	23.22	23.44	23.16	23.5
15	16QAM	36	0	21.90	22.02	22.32	22.16	22.01	
15	16QAM	36	20	22.05	22.32	22.28	22.28	22.26	
15	16QAM	36	39	22.13	22.10	22.24	21.95	22.05	23.5
15	16QAM	75	0	21.99	21.96	22.03	22.11	22.13	
15	16QAM	75	20	22.08	22.22	22.22	22.37	22.27	
15	64QAM	1	37	22.13	22.50	22.45	22.35	22.40	23.5
15	64QAM	1	74	22.11	22.38	22.50	22.35	22.20	
15	64QAM	36	0	21.00	21.28	20.97	21.07	21.16	
15	64QAM	36	20	21.14	21.14	21.14	21.10	21.10	22.5
15	64QAM	36	39	20.94	20.99	21.29	21.04	21.00	
15	64QAM	75	0	20.90	21.01	20.99	21.04	21.03	
Channel				39700	40160	40620	41050	41503	
Frequency (MHz)				2501.5	2547	2592.5	2636	2685	
10	QPSK	1	0	24.05	24.02	24.23	24.14	24.06	25.50
10	QPSK	1	25	24.13	24.27	24.22	24.11	24.16	
10	QPSK	12	0	24.08	24.12	24.08	24.14	24.11	
10	QPSK	25	0	23.09	23.23	23.27	23.21	23.21	24.5
10	QPSK	25	12	23.15	23.22	23.05	23.28	23.10	
10	QPSK	25	25	23.33	23.11	23.29	23.15	23.16	
10	QPSK	50	0	23.25	23.27	23.18	23.11	23.15	24.5
10	16QAM	1	0	23.57	23.39	23.39	23.43	23.61	
10	16QAM	1	25	23.34	23.22	23.24	23.44	23.48	
10	16QAM	1	49	23.65	23.41	23.60	23.46	23.53	23.5
10	16QAM	25	0	22.13	22.13	22.17	22.50	22.33	
10	16QAM	25	12	22.37	22.37	22.48	22.60	22.57	
10	16QAM	25	25	22.35	22.36	22.21	22.21	22.36	23.5
10	16QAM	50	0	22.22	22.22	22.13	22.30	22.17	
10	64QAM	1	0	22.35	22.34	22.58	22.55	22.41	
10	64QAM	1	25	22.48	22.53	22.71	22.33	22.50	23.5
10	64QAM	1	49	22.48	22.61	22.50	22.38	22.62	
10	64QAM	25	0	21.10	21.17	21.19	21.30	21.47	
10	64QAM	25	12	21.33	21.21	21.29	21.19	21.33	22.5
10	64QAM	25	25	21.36	21.26	21.33	21.33	21.31	
10	64QAM	50	0	21.23	21.20	21.23	21.22	21.20	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.14	24.18	24.18	24.12	24.18	25.50
5	QPSK	1	25	24.08	24.20	24.08	24.19	24.25	
5	QPSK	1	24	24.17	24.04	24.01	24.00	24.25	
5	QPSK	12	0	23.06	23.16	23.30	23.09	23.16	24.5
5	QPSK	12	7	23.12	23.28	23.30	23.20	23.22	
5	QPSK	12	75	23.00	23.08	23.09	23.12	23.30	
5	QPSK	25	0	23.21	22.99	23.14	23.29	23.05	24.5
5	16QAM	1	0	23.39	23.31	23.38	23.52	23.35	
5	16QAM	12	0	23.16	23.16	23.29	23.15	23.53	
5	16QAM	1	24	23.48	23.24	23.46	23.50	23.46	23.5
5	16QAM	12	0	22.31	22.19	22.09	22.40	22.21	
5	16QAM	12	7	22.23	22.34	22.33	22.45	22.32	
5	16QAM	12	75	22.27	22.33	22.51	22.28	22.42	23.5
5	16QAM	25	0	22.41	22.33	22.28	22.29	22.21	
5	64QAM	1	0	22.13	22.55	22.51	22.25	22.29	
5	64QAM	1	12	22.47	22.46	22.59	22.39	22.47	23.5
5	64QAM	12	0	22.53	22.29	22.33	22.38	22.51	
5	64QAM	12	0	21.11	21.10	21.16	21.04	21.26	
5	64QAM	12	7	21.20	21.32	21.48	21.25	21.22	22.5
5	64QAM	12	75	21.32	21.18	21.15	21.15	21.11	
5	64QAM	25	0	21.14	21.12	21.17	21.24	21.33	

GSM900 Ant 2 DS2							
GSM900	Burst Average Power (dBm)			Tuneup	Frame-Average Power (dBm)		Tuneup
TX Channel	128	189	251	Limit	128	189	251
Frequency (MHz)	824.2	836.4	848.6	(dBm)	824.2	836.4	848.6
GSM 1 Tx slot	32.26	32.33	32.21	33.50	23.26	23.33	23.21
GPRS 1 Tx slot	32.34	32.38	32.29	33.50	23.34	23.38	23.29
GPRS 2 Tx slots	30.17	30.11	30.02	31.00	24.17	24.11	24.02
GPRS 3 Tx slots	28.40	28.43	28.30	29.50	24.14	24.17	24.04
GPRS 4 Tx slots	26.46	26.44	26.33	27.50	23.46	23.44	23.33
EDGE 1 Tx slot	27.06	27.30	27.39	28.00	18.06	18.30	18.39
EDGE 2 Tx slots	24.55	24.78	24.88	25.50	18.55	18.78	18.88
EDGE 3 Tx slots	22.84	23.03	23.19	24.00	18.58	18.77	18.93
EDGE 4 Tx slots	21.56	21.73	21.93	22.50	18.56	18.73	18.93

GSM1900 Ant 2 DS2c									
GSM1900		Burst Average Power (dBm)			Tuneup		Frame-Average Power (dBm)		Tuneup
TX Channel	512	661	810	Limit	512	661	810	Limit	
Frequency (MHz)	1852.2	1860	1868.2	(dBm)	1852.2	1860	1868.2	(dBm)	
GSM 1 Tx slot	29.53	29.45	29.36	30.50	20.53	20.45	20.36	21.50	
GPRS 1 Tx slot	29.69	29.51	29.50	30.50	20.69	20.51	20.50	21.50	
GPRS 2 Tx slots	27.27	27.00	26.95	28.00	21.27	21.00	20.95	22.00	
GPRS 3 Tx slots	25.74	25.62	25.68	26.50	21.48	21.56	21.42	22.00	
GPRS 4 Tx slots	24.18	23.95	24.08	25.00	21.18	20.95	21.08	22.00	
EDGE 1 Tx slot	26.52	26.29	26.33	27.00	17.52	17.29	17.33	18.75	
EDGE 2 Tx slots	23.92	23.62	23.81	24.50	17.92	17.62	17.81	18.75	
EDGE 3 Tx slots	22.16	21.91	22.17	23.00	17.80	17.65	17.91	18.75	
EDGE 4 Tx slots	20.58	20.46	20.53	21.50	17.58	17.46	17.53	18.75	

WCDMA I Ant 2 DS2							WCDMA V Ant 2 DS2			
Band	WCDMA I			Tune-up Limit (dBm)	WCDMA IV		Tune-up Limit (dBm)	WCDMA V		Tune-up Limit (dBm)
	5262	9400	9538		1312	1413	1513	4132	4192	4233
TX Channel	9662	9690	9695	(dBm)	1537	1635	1738	4367	4407	4458
Frequency (MHz)	1852.4	1860	1907.6	(dBm)	1712.4	1732.6	1752.6	826.4	836.4	846.6
3GPP Rel 99 AMR 12.2Kbps	22.57	22.62	22.59	23.50	22.94	23.19	22.87	24.00	24.44	24.50
3GPP Rel 99 AMR 12.2Kbps	22.66	22.72	22.61	23.50	23.17	23.20	23.11	24.00	24.56	24.53
3GPP Rel 6 HSDPA Subtest-1	21.66	21.68	21.71	22.50	22.02	22.24	22.08	23.00	23.56	23.49
3GPP Rel 6 HSDPA Subtest-2	21.64	21.56	21.66	22.50	21.82	22.05	21.86	23.00	23.49	23.38
3GPP Rel 6 HSDPA Subtest-3	21.10	21.01	21.16	22.50	21.35	21.58	21.30	23.00	23.01	22.90
3GPP Rel 6 HSDPA Subtest-4	21.16	21.12	21.00	22.50	21.52	21.66	21.23	23.00	23.03	22.96
3GPP Rel 8 DC-HSDPA Subtest-1	21.48	21.59	21.65	23.00	21.95	22.30	21.87	23.50	23.45	23.53
3GPP Rel 8 DC-HSDPA Subtest-2	21.62	21.64	21.62	23.00	21.89	21.98	22.08	23.50	23.51	23.49
3GPP Rel 8 DC-HSDPA Subtest-3	21.02	21.02	20.91	22.50	21.50	21.55	21.25	23.00	22.97	22.97
3GPP Rel 8 DC-HSDPA Subtest-4	21.06	21.21	20.94	22.50	21.29	21.68	21.44	23.00	22.91	23.00
3GPP Rel 6 HSUPA Subtest-1	19.97	19.78	19.56	21.00	19.88	20.25	19.96	21.50	21.52	21.43
3GPP Rel 6 HSUPA Subtest-2	19.88	19.64	19.71	21.00	19.93	20.18	20.07	21.50	21.49	21.43
3GPP Rel 6 HSUPA Subtest-3	20.67	20.69	20.74	22.00	20.95	21.34	20.98	22.50	22.52	22.38
3GPP Rel 6 HSUPA Subtest-4	19.20	19.27	19.31	20.50	19.58	19.77	19.32	21.00	20.97	20.90
3GPP Rel 6 HSUPA Subtest-5	20.75	20.60	20.71	22.00	21.00	21.08	20.97	22.50	22.37	22.37

Band 2 Ant2 DS12											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.57	22.58	22.54	23.5	0			
20	QPSK	1	49	22.51	22.40	22.33					
20	QPSK	1	99	22.44	22.33	22.34					
20	QPSK	50	0	22.20	22.39	22.23					
20	QPSK	50	24	22.36	22.38	22.20	23.5	0			
20	QPSK	50	50	22.05	22.28	22.33					
20	QPSK	100	0	22.24	22.29	22.15					
20	16QAM	1	0	22.36	22.39	22.38					
20	16QAM	1	49	22.10	22.18	22.22	23.5	0			
20	16QAM	1	99	22.30	22.12	22.15					
20	16QAM	50	0	21.99	22.31	22.09					
20	16QAM	50	24	21.95	22.02	22.26					
20	16QAM	50	50	22.14	22.28	22.27	23.5	0			
20	16QAM	100	0	22.33	22.00	22.22					
20	64QAM	1	0	22.13	22.05	21.96					
20	64QAM	1	49	22.20	22.14	22.08					
20	64QAM	1	99	22.01	22.16	22.22	23.5	0			
20	64QAM	50	0	20.93	21.10	21.01					
20	64QAM	50	24	21.24	21.26	21.07					
20	64QAM	50	50	21.11	21.19	21.22					
20	64QAM	100	0	20.89	21.08	21.10	22.5	1			
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.21	22.43	22.17	23.5	0			
15	QPSK	1	37	22.21	22.26	22.15					
15	QPSK	1	74	22.06	22.16	22.19					
15	QPSK	36	0	22.15	22.18	22.04					
15	QPSK	36	20	22.22	22.36	22.00	23.5	0			
15	QPSK	36	39	21.98	22.09	22.17					
15	QPSK	75	0	22.10	22.10	22.02					
15	16QAM	1	0	22.29	22.25	22.28					
15	16QAM	1	37	21.95	21.97	22.11	23.5	0			
15	16QAM	1	74	22.25	21.95	22.15					
15	16QAM	36	0	21.88	22.28	22.04					
15	16QAM	36	20	22.10	22.16	22.14					
15	16QAM	36	39	22.10	22.12	22.21	23.5	0			
15	16QAM	75	0	22.22	21.91	22.03					
15	64QAM	1	0	22.07	22.01	21.88					
15	64QAM	1	37	22.00	22.08	22.04					
15	64QAM	1	74	21.93	22.08	22.04	23.5	0			
15	64QAM	36	0	20.93	20.97	20.97					
15	64QAM	36	20	21.07	21.09	20.99					
15	64QAM	36	39	21.00	21.04	21.22					
15	64QAM	75	0	20.91	21.10	20.92	22.5	1			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.06	22.43	22.22	23.5	0			
10	QPSK	1	25	22.23	22.34	22.30					
10	QPSK	1	49	21.95	22.22	22.22					
10	QPSK	25	0	22.18	22.23	22.05					
10	QPSK	25	12	22.15	22.32	22.11	23.5	0			
10	QPSK	25	25	21.98	22.08	22.12					
10	QPSK	50	0	22.14	22.09	22.01					
10	16QAM	1	0	22.23	22.40	22.17					
10	16QAM	1	25	21.91	21.96	22.07	23.5	0			
10	16QAM	1	49	22.19	21.97	22.02					
10	16QAM	25	0	21.91	22.20	21.98					
10	16QAM	25	12	21.95	21.89	22.18					
10	16QAM	25	25	22.02	22.22	22.17	23.5	0			
10	16QAM	50	0	22.12	21.86	22.20					
10	64QAM	1	0	22.06	21.85	21.79					
10	64QAM	1	25	21.93	21.98	22.08					
10	64QAM	1	49	21.91	22.10	22.12	22.5	1			
10	64QAM	25	0	20.82	20.94	20.81					
10	64QAM	25	12	21.15	21.21	20.98					
10	64QAM	25	25	21.06	21.06	21.00					
10	64QAM	50	0	20.67	21.01	20.97	22.5	0			
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.19	22.50	22.30	23.5	0			
5	QPSK	1	12	22.33	22.51	22.47					
5	QPSK	1	24	22.14	22.39	22.46					
5	QPSK	12	0	22.34	22.53	22.16					
5	QPSK	12	7	22.28	22.43	22.33	23.5	0			
5	QPSK	12	13	22.18	22.34	22.40					
5	QPSK	25	0	22.36	22.31	22.10					
5	16QAM	1	0	22.47	22.43	22.30					
5	16QAM	1	12	22.10	22.12	22.36	23.5	0			
5	16QAM	1	24	22.44	22.20	22.18					
5	16QAM	12	0	21.94	22.34	22.09					
5	16QAM	12	7	21.95	22.13	22.38					
5	16QAM	12	13	22.26	22.33	22.39	23.5	0			
5	16QAM	25	0	22.32	22.01	22.31					
5	64QAM	1	0	22.27	22.07	21.88					
5	64QAM	1	12	22.26	22.19	22.01					
5	64QAM	1	24	22.03	22.29	22.35	22.5	1			
5	64QAM	12	0	21.07	21.11	21.11					
5	64QAM	12	7	21.28	21.17	21.14					
5	64QAM	12	13	21.05	21.17	21.21					
5	64QAM	25	0	20.93	21.02	21.02	22.5	0			
Channel											
Frequency (MHz)											
3	QPSK	1	0	22.33	22.44	22.22	23.5	0			
3	QPSK	1	8	22.36	22.44	22.25					
3	QPSK	1	14	22.18	22.35	22.37					
3	QPSK	8	0	22.30	22.33	22.22					
3	QPSK	8	7	22.39	22.32	22.47	23.5	0			
3	QPSK	8	14	22.39	22.32	22.47					
3	QPSK	15	0	22.22	22.31	22.14					
3	16QAM	1	0	22.37	22.49	22.34					
3	16QAM	1	8	22.14	22.27	22.29	23.5	0			
3	16QAM	1	14	22.25	22.08	22.30					
3	16QAM	8	0	22.14	22.32	22.09					
3	16QAM	8	4	22.04	22.11	22.27					
3	16QAM	8	7	22.19	22.39	22.24	23.5	0			
3	16QAM	15	0	22.21	21.99	22.33					
3	64QAM	1	0	22.12	22.20	22.04					
3	64QAM	1	8	22.28	22.25	22.15					
3	64QAM	1	14	21.92	22.24	22.28	22.5	1			
3	64QAM	8	0	20.96	21.12	21.06					
3	64QAM	8	4	21.19	21.38	21.08					
3	64QAM	8	7	21.20	21.15	21.28					
3	64QAM	15	0	20.94	21.06	21.11	22.5	1			
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	22.31	22.48	22.35	23.5	0			
1.4	QPSK	1	3	22.46	22.51	22.52					
1.4	QPSK	1	5	22.40	22.56	22.54					
1.4	QPSK	3	0	22.46	22.56	22.29					
1.4	QPSK	3	1	22.43	22.52	22.37	23.5	0			
1.4	QPSK	3	3	22.17	22.54	22.47					
1.4	QPSK	6	0	22.32	22.47	22.36					
1.4	16QAM	1	0	22.42	22.55	22.43					
1.4	16QAM	1	5	22.34	22.37	22.28	23.5	0			
1.4	16QAM	1	5	22.54	22.19	22.22					
1.4	16QAM	3	0	22.27	22.55	22.29					
1.4	16QAM	3	1	22.22	22.17	22.51					
1.4	16QAM	3	3	22.34	22.37	22.39	23.5	0			
1.4	16QAM	6	0	22.45	22.18	22.38					
1.4	64QAM	1	0	22.36	22.22	22.05					
1.4	64QAM	1	3	22.44	22.37	22.32					
1.4	64QAM	1	5	22.15	22.25	22.41	23.5	0			
1.4	64QAM	3	0	22.20	22.33	22.22					
1.4	64QAM	3	1	22.47	22.41	22.25					
1.4	64QAM	3	3	22.30	22.25	22.43					
1.4	64QAM	6	0	21.05	21.18	21.26	22.5	1			

Band 7 Ant2 DS12

BW [MHz]	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	21100 21350	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.60	22.62	22.66	24	0
20	QPSK	1	49	22.53	22.61	22.56		
20	QPSK	1	99	22.71	22.59	22.51		
20	QPSK	50	0	22.60	22.68	22.66		
20	QPSK	50	24	22.56	22.63	22.56	24	0
20	QPSK	50	50	22.52	22.67	22.62		
20	QPSK	100	0	22.62	22.67	22.57		
20	16QAM	1	0	22.64	22.61	22.72		
20	16QAM	1	49	22.47	22.61	22.75	24	0
20	16QAM	1	99	22.58	22.60	22.51		
20	16QAM	50	0	22.09	22.23	22.17		
20	16QAM	50	24	22.01	22.19	22.05		
20	16QAM	50	50	22.11	21.96	22.09	23.5	0.5
20	16QAM	100	0	21.97	22.15	22.12		
20	64QAM	1	0	22.09	22.07	21.87		
20	64QAM	1	49	22.02	22.06	22.09		
20	64QAM	1	99	21.91	22.24	22.02	23.5	0.5
20	64QAM	50	0	21.19	21.22	21.12		
20	64QAM	50	24	21.12	21.27	21.17		
20	64QAM	50	50	21.17	21.07	21.12		
20	64QAM	100	0	21.02	21.01	21.07	22.5	1.5
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.52	22.62	22.63	24	0
15	QPSK	1	37	22.54	22.49	22.47		
15	QPSK	1	74	22.50	22.52	22.43		
15	QPSK	36	0	22.60	22.57	22.50		
15	QPSK	36	20	22.36	22.56	22.58	24	0
15	QPSK	36	39	22.40	22.47	22.49		
15	QPSK	75	0	22.50	22.58	22.39		
15	16QAM	1	0	22.46	22.43	22.65		
15	16QAM	1	37	22.27	22.52	22.61	24	0
15	16QAM	1	74	22.52	22.56	22.42		
15	16QAM	36	0	22.03	22.15	22.00		
15	16QAM	36	20	21.96	22.14	22.05		
15	16QAM	36	39	22.00	21.75	22.05	23.5	0.5
15	16QAM	75	0	21.89	21.94	22.07		
15	64QAM	1	0	21.94	21.89	21.86		
15	64QAM	1	37	21.94	21.92	21.97		
15	64QAM	1	74	21.90	22.21	21.91	22.5	1.5
15	64QAM	36	0	21.05	21.03	21.04		
15	64QAM	36	20	20.99	21.07	20.96		
15	64QAM	36	39	21.01	20.98	20.98		
15	64QAM	75	0	20.94	20.89	20.95	22.5	1.5
Channel				20900	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.38	22.63	22.82	24	0
10	QPSK	1	25	22.49	22.63	22.36		
10	QPSK	1	49	22.53	22.49	22.31		
10	QPSK	25	0	22.60	22.69	22.66		
10	QPSK	25	12	22.58	22.45	22.36	24	0
10	QPSK	25	25	22.53	22.53	22.43		
10	QPSK	50	0	22.45	22.59	22.56		
10	16QAM	1	0	22.58	22.55	22.53		
10	16QAM	1	25	22.33	22.52	22.72	24	0
10	16QAM	1	49	22.39	22.49	22.43		
10	16QAM	25	0	21.88	22.18	22.10		
10	16QAM	25	12	22.00	22.16	22.04		
10	16QAM	25	25	21.89	21.80	21.94	23.5	0.5
10	16QAM	50	0	21.95	21.93	22.00		
10	64QAM	1	0	22.09	21.86	21.94		
10	64QAM	1	25	21.93	22.00	22.10		
10	64QAM	1	49	21.95	22.14	22.03	23.5	0.5
10	64QAM	25	0	21.15	21.01	20.99		
10	64QAM	25	12	21.00	21.26	21.19		
10	64QAM	25	25	21.10	21.07	21.01		
10	64QAM	50	0	21.00	20.87	21.05	22.5	1.5
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.49	22.64	22.50	24	0
5	QPSK	1	12	22.50	22.47	22.42		
5	QPSK	1	24	22.54	22.53	22.50		
5	QPSK	12	0	22.55	22.46	22.55		
5	QPSK	12	7	22.41	22.65	22.48	24	0
5	QPSK	12	13	22.46	22.67	22.63		
5	QPSK	25	0	22.58	22.54	22.45		
5	16QAM	1	0	22.47	22.55	22.62		
5	16QAM	1	12	22.26	22.60	22.68	24	0
5	16QAM	1	24	22.46	22.46	22.29		
5	16QAM	12	0	22.01	22.19	22.08		
5	16QAM	12	7	21.97	21.99	21.87		
5	16QAM	12	13	21.95	21.77	22.00	23.5	0.5
5	16QAM	25	0	21.80	22.10	21.94		
5	64QAM	1	0	21.95	22.09	21.86		
5	64QAM	1	12	21.97	21.91	22.09		
5	64QAM	1	24	21.77	22.12	21.91	23.5	0.5
5	64QAM	12	0	21.20	21.00	21.14		
5	64QAM	12	7	20.92	21.27	20.99		
5	64QAM	12	13	20.90	20.90	21.02		
5	64QAM	25	0	20.97	20.99	21.05	22.5	1.5
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		

Band 12 Ant2 DS12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.34	24.53	24.34	25.5	0
10	QPSK	1	25	24.49	24.47	24.44		
10	QPSK	1	49	24.47	24.35	24.37		
10	QPSK	25	0	23.35	23.58	23.30	24.5	1
10	QPSK	25	12	23.52	23.47	23.49		
10	QPSK	25	25	23.51	23.36	23.39		
10	QPSK	50	0	23.35	23.46	23.38	24.5	1
10	16QAM	1	0	23.56	23.59	23.61		
10	16QAM	1	25	23.74	23.71	23.68		
10	16QAM	1	49	23.70	23.70	23.66	23.5	2
10	16QAM	25	0	22.32	22.37	22.26		
10	16QAM	25	12	22.49	22.45	22.44		
10	16QAM	25	25	22.53	22.44	22.33	23.5	2
10	16QAM	50	0	22.45	22.38	22.35		
10	64QAM	1	0	22.48	22.48	22.50		
10	64QAM	1	25	22.63	22.61	22.57	22.5	3
10	64QAM	1	49	22.61	22.62	22.56		
10	64QAM	25	0	21.29	21.34	21.23		
10	64QAM	25	12	21.46	21.43	21.44	22.5	3
10	64QAM	25	25	21.46	21.44	21.33		
10	64QAM	50	0	21.44	21.37	21.32		
Channel				23015	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	713.5		
5	QPSK	1	0	24.28	24.40	24.19	25.5	0
5	QPSK	1	12	24.40	24.40	24.29		
5	QPSK	1	24	24.45	24.17	24.28		
5	QPSK	12	0	23.26	23.37	23.20	24.5	1
5	QPSK	12	7	23.48	23.49	23.34		
5	QPSK	12	13	23.47	23.38	23.26		
5	QPSK	25	0	23.37	23.29	23.22	24.5	1
5	16QAM	1	0	23.57	23.57	23.41		
5	16QAM	1	12	23.69	23.52	23.47		
5	16QAM	1	24	23.51	23.69	23.61	23.5	2
5	16QAM	12	0	22.12	22.30	22.28		
5	16QAM	12	7	22.34	22.45	22.40		
5	16QAM	12	13	22.33	22.35	22.14	23.5	2
5	16QAM	25	0	22.28	22.28	22.15		
5	64QAM	1	0	22.32	22.42	22.45		
5	64QAM	1	12	22.55	22.58	22.57	23.5	2
5	64QAM	1	24	22.48	22.53	22.52		
5	64QAM	12	0	21.15	21.21	21.06		
5	64QAM	12	7	21.43	21.35	21.45	22.5	3
5	64QAM	12	13	21.33	21.22	21.29		
5	64QAM	25	0	21.36	21.35	21.24		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.28	24.38	24.25	25.5	0
3	QPSK	1	8	24.33	24.21	24.19		
3	QPSK	1	14	24.38	24.31	24.12		
3	QPSK	8	0	23.20	23.51	23.27	24.5	1
3	QPSK	8	7	23.36	23.32	23.29		
3	QPSK	8	7	23.38	23.24	23.15		
3	QPSK	15	0	23.26	23.39	23.20	24.5	1
3	16QAM	1	0	23.49	23.36	23.41		
3	16QAM	1	8	23.68	23.52	23.63		
3	16QAM	1	14	23.65	23.49	23.47	23.5	2
3	16QAM	8	0	22.23	22.17	22.20		
3	16QAM	8	4	22.47	22.44	22.13		
3	16QAM	15	0	22.36	22.30	22.25	23.5	2
3	64QAM	1	8	22.57	22.43	22.34		
3	64QAM	1	14	22.44	22.38	22.41		
3	64QAM	8	0	21.23	21.25	21.19	22.5	3
3	64QAM	8	4	21.33	21.16	21.24		
3	64QAM	8	7	21.23	21.34	21.07		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	24.24	24.28	24.15	25.5	0
1.4	QPSK	1	3	24.30	24.19	24.19		
1.4	QPSK	1	5	24.27	24.18	24.29		
1.4	QPSK	3	0	24.06	24.14	24.13	24.5	1
1.4	QPSK	3	1	24.22	24.06	24.04		
1.4	QPSK	3	3	24.08	24.15	24.22		
1.4	QPSK	6	0	23.12	23.20	23.17	23.5	2
1.4	16QAM	1	0	23.41	23.50	23.46		
1.4	16QAM	1	3	23.48	23.54	23.54		
1.4	16QAM	1	5	23.59	23.52	23.40	24.5	1
1.4	16QAM	3	0	23.31	23.39	23.30		
1.4	16QAM	3	1	23.35	23.45	23.44		
1.4	16QAM	3	3	23.51	23.43	23.31	23.5	2
1.4	16QAM	6	0	22.23	22.18	22.16		
1.4	64QAM	1	0	22.19	22.21	22.20		
1.4	64QAM	1	3	22.37	22.31	22.32	23.5	2
1.4	64QAM	1	5	22.30	22.50	22.42		
1.4	64QAM	3	0	22.28	22.21	22.14		
1.4	64QAM	3	1	22.21	22.24	22.18	22.5	3
1.4	64QAM	3	3	22.15	22.15	22.14		
1.4	64QAM	6	0	21.17	21.27	21.05		

Band 17 Ant2 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.28	24.43	24.28	25.5	0	
10	QPSK	1	25	24.40	24.39	24.41			
10	QPSK	1	49	24.42	24.39	24.25			
10	QPSK	25	0	23.20	23.44	23.25	24.5	1	
10	QPSK	25	12	23.24	23.40	23.42			
10	QPSK	25	25	23.35	23.34	23.36			
10	QPSK	50	0	23.28	23.32	23.30	24.5	1	
10	16QAM	1	0	23.51	23.52	23.54			
10	16QAM	1	25	23.64	23.63	23.64			
10	16QAM	1	49	23.65	23.61	23.65	23.5	2	
10	16QAM	25	0	22.18	22.16	22.18			
10	16QAM	25	12	22.39	22.37	22.38			
10	16QAM	25	25	22.30	22.29	22.29	23.5	2	
10	16QAM	50	0	22.27	22.26	22.27			
10	64QAM	1	0	22.40	22.42	22.43			
10	64QAM	1	25	22.54	22.50	22.54	23.5	2	
10	64QAM	1	49	22.56	22.51	22.56			
10	64QAM	25	0	21.16	21.14	21.20			
10	64QAM	25	12	21.38	21.37	21.39	22.5	3	
10	64QAM	25	25	21.29	21.26	21.28			
10	64QAM	50	0	21.25	21.23	21.24			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.02	24.31	24.15	25.5	0	
5	QPSK	1	12	24.21	24.10	24.27			
5	QPSK	1	24	24.12	24.30	23.98			
5	QPSK	12	0	23.01	23.30	22.99	24.5	1	
5	QPSK	12	7	22.94	23.14	23.33			
5	QPSK	12	13	23.05	23.19	23.16			
5	QPSK	25	0	23.03	23.00	23.17	24.5	1	
5	16QAM	1	0	23.20	23.24	23.29			
5	16QAM	1	12	23.53	23.41	23.34			
5	16QAM	1	24	23.55	23.34	23.41	23.5	2	
5	16QAM	12	0	21.89	22.04	22.00			
5	16QAM	12	7	22.24	22.21	22.27			
5	16QAM	12	13	22.12	22.01	21.98	23.5	2	
5	16QAM	25	0	21.97	21.94	22.00			
5	64QAM	1	0	22.26	22.18	22.25			
5	64QAM	1	12	22.23	22.37	22.22	23.5	2	
5	64QAM	1	24	22.26	22.32	22.44			
5	64QAM	12	0	20.86	21.03	20.93			
5	64QAM	12	7	21.09	21.12	21.12	22.5	3	
5	64QAM	12	13	21.01	21.14	21.19			
5	64QAM	25	0	21.15	21.15	20.97			

Band 26 Ant2 DS12											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				26765	26865	26965					
Frequency (MHz)				821.5	831.5	841.5					
15	QPSK	1	0	24.43	24.50	24.45	25.5	0			
15	QPSK	1	37	24.32	24.38	24.26					
15	QPSK	1	74	24.25	24.47	24.31					
15	QPSK	36	0	23.41	23.49	23.40	24.5	1			
15	QPSK	36	20	23.42	23.46	23.28					
15	QPSK	36	39	23.28	23.41	23.29					
15	QPSK	75	0	23.38	23.46	23.42	24.5	1			
15	16QAM	1	0	23.23	23.34	23.28					
15	16QAM	1	37	23.21	23.29	23.16					
15	16QAM	1	74	23.08	23.18	23.11	23.5	2			
15	16QAM	36	0	22.31	22.41	22.36					
15	16QAM	36	20	22.22	22.27	22.19					
15	16QAM	36	39	22.18	22.29	22.16	23.5	2			
15	16QAM	75	0	22.33	22.35	22.36					
15	64QAM	1	0	22.22	22.34	22.12					
15	64QAM	1	37	22.14	22.29	22.28	23.5	2			
15	64QAM	1	74	22.08	22.21	22.24					
15	64QAM	36	0	21.36	21.47	21.31					
15	64QAM	36	20	21.36	21.41	21.26	22.5	3			
15	64QAM	36	39	21.22	21.34	21.20					
15	64QAM	75	0	21.27	21.43	21.30					
Channel				26740	26865	26990					
Frequency (MHz)				819	831.5	844					
10	QPSK	1	0	24.34	24.44	24.36	25.5	0			
10	QPSK	1	25	24.21	24.24	24.21					
10	QPSK	1	49	24.20	24.44	24.20					
10	QPSK	25	0	23.17	23.46	23.15	24.5	1			
10	QPSK	25	12	23.28	23.34	23.20					
10	QPSK	25	25	23.17	23.35	23.23					
10	QPSK	50	0	23.32	23.36	23.16	24.5	1			
10	16QAM	1	0	23.08	23.24	23.19					
10	16QAM	1	25	23.14	23.22	23.07					
10	16QAM	1	49	22.98	23.12	22.97	23.5	2			
10	16QAM	25	0	22.26	22.33	22.27					
10	16QAM	25	12	22.15	22.19	22.05					
10	16QAM	25	25	22.12	22.22	22.07	23.5	2			
10	16QAM	50	0	22.26	22.24	22.21					
10	64QAM	1	0	22.08	22.21	22.01					
10	64QAM	1	25	22.00	22.22	22.15	23.5	2			
10	64QAM	1	49	21.98	22.16	22.10					
10	64QAM	25	0	21.25	21.39	21.26					
10	64QAM	25	12	21.26	21.28	21.21	22.5	3			
10	64QAM	25	25	21.13	21.30	21.07					
10	64QAM	50	0	21.23	21.13	21.26					
Channel				26715	26865	27015					
Frequency (MHz)				816.5	831.5	846.5					
5	QPSK	1	0	24.35	24.36	24.41	25.5	0			
5	QPSK	1	12	24.18	24.27	24.21					
5	QPSK	1	24	24.12	24.35	24.25					
5	QPSK	12	0	23.19	23.38	23.21	24.5	1			
5	QPSK	12	7	23.28	23.43	23.20					
5	QPSK	12	13	23.14	23.26	23.19					
5	QPSK	25	0	23.24	23.34	23.16	24.5	1			
5	16QAM	1	0	23.19	23.28	23.16					
5	16QAM	1	12	23.14	23.22	23.01					
5	16QAM	1	24	22.99	23.06	23.01	23.5	2			
5	16QAM	12	0	22.21	22.31	22.25					
5	16QAM	12	7	22.11	22.17	22.05					
5	16QAM	12	13	22.06	22.18	22.02	23.5	2			
5	16QAM	25	0	22.26	22.27	22.26					
5	64QAM	1	0	22.10	22.26	21.98					
5	64QAM	1	12	22.09	22.17	22.24	23.5	2			
5	64QAM	1	24	21.98	22.06	22.13					
5	64QAM	12	0	21.22	21.36	21.20					
5	64QAM	12	7	21.25	21.27	21.14	22.5	3			
5	64QAM	12	13	21.13	21.28	21.08					
5	64QAM	25	0	21.13	21.29	21.16					
Channel				26705	26865	27025					
Frequency (MHz)				815.5	831.5	847.5					
3	QPSK	1	0	24.31	24.41	24.36	25.5	0			
3	QPSK	1	8	24.25	24.35	24.13					
3	QPSK	1	14	24.16	24.42	24.12					
3	QPSK	8	0	23.28	23.42	23.27	24.5	1			
3	QPSK	8	4	23.35	23.34	23.16					
3	QPSK	8	7	23.17	23.32	23.18					
3	QPSK	15	0	23.23	23.34	23.17	24.5	1			
3	16QAM	1	0	23.09	23.24	23.22					
3	16QAM	1	8	23.15	23.21	23.08					
3	16QAM	1	14	22.96	23.14	23.07	23.5	2			
3	16QAM	8	0	22.17	22.30	22.25					
3	16QAM	8	4	22.14	22.16	22.07					
3	16QAM	8	7	22.06	22.22	22.05	23.5	2			
3	16QAM	15	0	22.29	22.30	22.25					
3	16QAM	1	0	22.17	22.21	22.08					
3	84QAM	1	8	22.00	22.19	22.25	23.5	2			
3	84QAM	1	14	21.95	22.09	22.13					
3	84QAM	8	0	21.21	21.43	21.17					
3	64QAM	8	4	21.29	21.36	21.11	22.5	3			
3	64QAM	8	7	21.12	21.24	21.17					
3	64QAM	15	0	21.17	21.31	21.23					
Channel				26697	26865	27033					
Frequency (MHz)				814.7	831.5	848.3					
1.4	QPSK	1	0	24.30	24.35	24.33	25.5	0			
1.4	QPSK	1	3	24.21	24.34	24.22					
1.4	QPSK	1	5	24.10	24.41	24.21					
1.4	QPSK	3	0	24.27	24.34	24.19	24.5	1			
1.4	QPSK	3	1	24.38	24.37	24.17					
1.4	QPSK	3	3	24.21	24.33	24.21					
1.4	QPSK	6	0	23.24	23.40	23.25	24.5	1			
1.4	16QAM	1	0	23.10	23.21	23.24					
1.4	16QAM	1	3	23.11	23.26	23.18					
1.4	16QAM	1	5	22.97	23.14	23.07	24.5	1			
1.4	16QAM	3	0	23.19	23.36	23.22					
1.4	16QAM	3	1	23.15	23.22	23.07					
1.4	16QAM	3	3	23.15	23.19	23.04	23.5	2			
1.4	64QAM	1	0	22.15	22.29	22.02					
1.4	64QAM	1	3	22.04	22.18	22.18					
1.4	64QAM	3	0	21.99	22.12	22.11	23.5	2			
1.4	64QAM	3	0	22.30	22.36	22.23					
1.4	64QAM	3	1	22.22	22.32	22.17					
1.4	64QAM	3	3	22.13	22.29	22.06	22.5	3			
1.4	64QAM	6	0	21.13	21.32	21.21					

Band 38 Ant2 DS12									
BW [MHz]	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	25.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.23	24.27	23.98	24.5	1	
20	QPSK	1	49	24.17	24.26	24.23			
20	QPSK	1	99	24.12	24.06	24.10			
20	QPSK	50	0	23.06	23.21	23.05			
20	QPSK	50	24	23.17	23.12	23.08	24.5	1	
20	QPSK	50	50	23.16	23.13	23.13			
20	QPSK	100	0	23.13	23.15	23.14			
20	16QAM	1	0	23.11	23.04	23.05			
20	16QAM	1	49	23.31	23.14	23.29	24.5	1	
20	16QAM	1	99	23.15	23.12	23.14			
20	16QAM	50	0	22.20	22.21	22.20			
20	16QAM	50	24	22.34	22.33	22.32			
20	16QAM	50	50	22.28	22.28	22.25	23.5	2	
20	16QAM	100	0	22.23	22.17	22.22			
20	64QAM	1	0	21.88	21.99	21.82			
20	64QAM	1	49	22.10	22.07	22.07			
20	64QAM	1	99	21.93	21.98	21.91	22.5	3	
20	64QAM	50	0	21.13	21.16	21.12			
20	64QAM	50	24	21.27	21.26	21.26			
20	64QAM	50	50	21.21	21.20	21.18			
20	64QAM	100	0	21.26	21.23	21.29	25.5	0	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	25.5	0	
15	QPSK	1	0	24.13	24.09	23.85			
15	QPSK	1	37	23.97	24.11	24.01	24.5	1	
15	QPSK	1	74	24.13	23.90	23.89			
15	QPSK	36	0	22.97	23.15	23.04			
15	QPSK	36	20	23.01	23.02	22.89			
15	QPSK	36	39	23.09	23.05	22.91	24.5	1	
15	QPSK	75	0	23.13	23.12	22.99			
15	16QAM	1	0	23.08	23.02	23.01			
15	16QAM	1	37	23.27	23.10	23.23			
15	16QAM	1	74	23.12	22.91	22.99	24.5	1	
15	16QAM	36	0	22.10	22.06	22.05			
15	16QAM	36	20	22.14	22.29	22.31			
15	16QAM	36	39	22.15	22.15	22.26			
15	16QAM	75	0	22.23	22.16	22.19	23.5	2	
15	64QAM	1	0	21.74	21.91	21.81			
15	64QAM	1	37	21.95	22.06	21.86			
15	64QAM	1	74	21.90	21.77	21.75			
15	64QAM	36	0	21.09	21.15	21.13	22.5	3	
15	64QAM	36	20	21.18	21.16	21.11			
15	64QAM	36	39	21.18	21.04	21.02			
15	64QAM	75	0	21.26	21.02	21.30			
Channel				37800	38000	38200	25.5	0	
Frequency (MHz)				2375	2395	2415			
10	QPSK	1	0	24.00	24.05	23.93	24.5	1	
10	QPSK	1	25	24.01	24.07	24.17			
10	QPSK	1	49	23.92	23.86	23.85			
10	QPSK	25	0	22.88	23.11	23.01			
10	QPSK	25	12	22.94	23.05	22.94	24.5	1	
10	QPSK	25	25	22.92	23.01	22.92			
10	QPSK	50	0	22.96	23.04	22.87			
10	16QAM	1	0	22.93	22.82	22.92			
10	16QAM	1	25	23.09	22.97	23.23	24.5	1	
10	16QAM	1	49	22.97	23.06	23.04			
10	16QAM	25	0	22.11	22.02	22.01			
10	16QAM	25	12	22.23	22.26	22.19			
10	16QAM	25	25	22.12	22.20	22.20	23.5	2	
10	16QAM	50	0	22.20	21.98	22.02			
10	64QAM	1	0	21.80	21.85	21.58			
10	64QAM	1	25	21.87	21.83	21.89			
10	64QAM	1	49	21.84	21.91	21.85	22.5	3	
10	64QAM	25	0	20.97	20.96	20.93			
10	64QAM	25	12	21.15	21.22	21.07			
10	64QAM	25	25	20.95	21.05	21.10			
10	64QAM	50	0	21.11	20.97	21.25	25.5	0	
Channel				37775	38000	38225			
Frequency (MHz)				2022.5	2095	2017.5	25.5	0	
5	QPSK	1	0	24.03	24.07	23.79			
5	QPSK	1	12	23.98	24.01	24.05	24.5	1	
5	QPSK	1	24	23.93	23.85	23.93			
5	QPSK	12	0	22.78	22.92	22.75			
5	QPSK	12	7	22.94	23.00	22.91			
5	QPSK	12	13	22.92	22.91	22.86	24.5	1	
5	QPSK	25	0	22.94	23.05	22.85			
5	16QAM	1	0	22.94	22.79	22.83			
5	16QAM	1	12	23.17	22.89	23.06			
5	16QAM	1	24	22.90	22.89	22.94	23.5	2	
5	16QAM	12	0	21.95	22.06	22.04			
5	16QAM	12	7	22.11	22.19	22.16			
5	16QAM	12	13	22.05	21.97	21.93			
5	16QAM	25	0	21.98	21.93	21.99	23.5	2	
5	64QAM	1	0	21.69	21.90	21.73			
5	64QAM	1	12	21.94	21.76	21.88			
5	64QAM	1	24	21.74	21.80	21.78			
5	64QAM	12	0	20.97	21.01	20.98	22.5	3	
5	64QAM	12	7	20.99	20.99	21.11			
5	64QAM	12	13	21.06	20.99	21.09			
5	64QAM	25	0	21.16	20.95	21.18			

Band 41 Ant2 DS12										
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	41480		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.28	24.21	24.34	24.22	24.31	25.5	0
20	QPSK	1	49	24.33	24.19	24.09	24.23	24.33		
20	QPSK	50	0	23.12	22.99	23.25	23.10	23.19		
20	QPSK	50	24	23.18	23.10	23.00	23.15	23.23		
20	QPSK	50	50	23.23	23.05	23.00	23.03	23.12	24.5	1
20	QPSK	100	0	23.22	23.03	23.23	23.07	23.09		
20	16QAM	1	0	23.27	22.98	23.19	23.06	23.12		
20	16QAM	1	49	23.24	23.14	23.15	23.27	23.31		
20	16QAM	1	99	23.14	23.24	22.98	23.09	23.07	24.5	1
20	16QAM	50	0	22.22	22.08	22.05	22.19	22.32		
20	16QAM	50	24	22.35	22.19	22.13	22.29	22.37		
20	16QAM	50	50	22.35	22.19	22.15	22.19	22.24		
20	16QAM	100	0	22.29	22.12	22.07	22.21	22.30	23.5	2
20	64QAM	1	0	22.43	22.40	22.36	22.48	22.39		
20	64QAM	1	49	22.67	22.51	22.41	22.57	22.65		
20	64QAM	1	99	22.41	22.37	22.49	22.39	22.37		
20	64QAM	50	0	21.66	21.51	21.47	21.64	21.75	22.5	3
20	64QAM	50	24	21.79	21.65	21.58	21.73	21.80		
20	64QAM	50	50	21.77	21.63	21.58	21.73	21.68		
20	64QAM	100	0	21.80	21.65	21.61	21.73	21.85		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.27	24.17	24.24	24.03	24.26	25.50	0
15	QPSK	1	37	24.17	24.03	23.90	24.17	24.20		
15	QPSK	1	74	24.04	24.06	23.98	24.12	24.03		
15	QPSK	36	0	23.11	22.85	23.20	23.09	23.07		
15	QPSK	36	20	23.10	23.10	22.97	23.01	23.20	24.5	1
15	QPSK	36	39	23.15	22.85	22.89	22.84	22.92		
15	QPSK	75	0	23.17	22.88	23.06	23.04	23.08		
15	16QAM	1	0	23.24	22.87	23.17	22.95	22.98		
15	16QAM	1	37	23.06	22.99	23.11	23.25	23.14	24.5	1
15	16QAM	1	74	23.11	23.16	22.89	22.83	23.02		
15	16QAM	36	0	22.22	22.01	22.01	22.07	22.12		
15	16QAM	36	20	22.26	22.13	22.02	22.13	22.27		
15	16QAM	36	39	22.20	22.12	22.11	22.12	22.19	23.5	2
15	16QAM	75	0	22.23	22.08	22.03	22.06	22.27		
15	64QAM	1	0	22.31	22.32	22.28	22.46	22.35		
15	64QAM	1	37	22.64	22.47	22.36	22.42	22.55		
15	64QAM	1	74	22.35	22.27	22.38	22.33	22.35	23.5	2
15	64QAM	36	0	21.53	21.43	21.41	21.61	21.71		
15	64QAM	36	20	21.77	21.64	21.56	21.70	21.71		
15	64QAM	36	39	21.76	21.46	21.47	21.59	21.63		
15	64QAM	75	0	21.67	21.47	21.56	21.63	21.80	22.5	3
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2683	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	24.07	23.97	24.16	24.16	24.07	25.50	0
10	QPSK	1	25	24.11	24.00	24.04	24.08	24.09		
10	QPSK	1	49	24.01	23.99	23.89	24.10	23.84		
10	QPSK	25	0	22.99	22.91	23.02	22.91	23.12		
10	QPSK	25	12	23.04	23.03	22.85	22.93	23.07	24.5	1
10	QPSK	25	25	23.05	22.97	22.91	22.98	22.97		
10	QPSK	50	0	23.07	22.97	23.00	22.99	22.84		
10	16QAM	1	0	23.09	22.99	22.89	22.96	22.94		
10	16QAM	1	25	23.17	23.02	22.91	23.05	23.13	24.5	1
10	16QAM	1	49	22.90	23.02	22.90	22.97	23.01		
10	16QAM	25	0	22.04	21.84	22.00	22.08	22.21		
10	16QAM	25	12	22.20	21.94	21.94	22.19	22.18		
10	16QAM	25	25	22.23	22.03	21.92	21.98	22.09	23.5	2
10	16QAM	50	0	22.13	22.06	21.93	22.09	22.19		
10	64QAM	1	0	22.26	22.26	22.34	22.31	22.29		
10	64QAM	1	25	22.43	22.37	22.23	22.49	22.49		
10	64QAM	1	49	22.32	22.31	22.34	22.34	22.22	23.5	2
10	64QAM	25	0	21.60	21.32	21.38	21.51	21.55		
10	64QAM	25	12	21.65	21.55	21.39	21.63	21.67		
10	64QAM	25	25	21.63	21.45	21.39	21.52	21.57		
10	64QAM	50	0	21.74	21.42	21.45	21.61	21.67	22.5	3
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	24.01	24.10	24.08	24.01	24.14	25.50	0
5	QPSK	1	12	24.14	23.95	23.90	24.02	24.11		
5	QPSK	1	24	23.84	23.83	23.91	23.97	23.97		
5	QPSK	12	0	22.91	22.84	23.13	22.93	23.00		
5	QPSK	12	5	23.07	22.96	23.02	23.02	22.93	24.5	1
5	QPSK	12	13	23.11	22.81	22.83	22.84	23.00		
5	QPSK	25	0	23.09	22.80	23.09	22.89	22.88		
5	16QAM	1	0	22.99	22.87	23.04	22.81	22.88		
5	16QAM	1	12	23.06	22.90	23.02	23.08	23.12	24.5	1
5	16QAM	1	24	22.93	22.97	22.86	22.91	22.85		
5	16QAM	12	0	22.03	21.88	21.91	21.83	22.05		
5	16QAM	12	5	22.12	21.92	21.85	22.12	22.14		
5	16QAM	12	13	22.19	21.90	21.96	22.04	22.08	23.5	2
5	16QAM	25	0	22.14	21.84	21.87	22.02	22.14		
5	64QAM	1	0	22.23	22.10	22.06	22.27	22.22		
5	64QAM	1	12	22.38	22.31	22.24	22.29	22.39		
5	64QAM	1	24	22.28	22.20	22.37	22.28	22.09	23.5	2
5	64QAM	12	0	21.56	21.33	21.39	21.46	21.54		
5	64QAM	12	7	21.55	21.54	21.35	21.56	21.61		
5	64QAM	12	13	21.53	21.33	21.29	21.45	21.44		
5	64QAM	25	0	21.61	21.54	21.48	21.57	21.75	22.5	3

Band 2 Ant4 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	24.48	24.67	24.51	25.5	0	
20	QPSK	1	49	24.31	24.47	24.44			
20	QPSK	1	99	24.38	24.59	24.37			
20	QPSK	50	0	23.59	23.70	23.50	24.5	1	
20	QPSK	50	24	23.47	23.55	23.56			
20	QPSK	50	50	23.29	23.35	23.40			
20	QPSK	100	0	23.45	23.62	23.42	24.5	1	
20	16QAM	1	0	23.39	23.65	23.48			
20	16QAM	1	49	23.26	23.50	23.46			
20	16QAM	1	99	23.33	23.60	23.36	23.5	2	
20	16QAM	50	0	22.53	22.52	22.41			
20	16QAM	50	24	22.33	22.57	22.47			
20	16QAM	50	50	22.28	22.54	22.41	23.5	2	
20	16QAM	100	0	22.43	22.66	22.33			
20	64QAM	1	0	22.56	22.65	22.40			
20	64QAM	1	49	22.47	22.74	22.44	23.5	2	
20	64QAM	1	99	22.26	22.39	22.32			
20	64QAM	50	0	21.51	21.56	21.41			
20	64QAM	50	24	21.50	21.77	21.51	22.5	3	
20	64QAM	50	50	21.46	21.67	21.47			
20	64QAM	100	0	21.19	21.50	21.57			
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	24.34	24.49	24.40	25.5	0	
15	QPSK	1	37	24.32	24.46	24.39			
15	QPSK	1	74	24.21	24.57	24.34			
15	QPSK	36	0	23.51	23.49	23.45	24.5	1	
15	QPSK	36	20	23.40	23.52	23.37			
15	QPSK	36	39	23.23	23.14	23.38			
15	QPSK	75	0	23.45	23.47	23.37	24.5	1	
15	16QAM	1	0	23.18	23.47	23.44			
15	16QAM	1	37	23.09	23.44	23.40			
15	16QAM	1	74	23.30	23.55	23.23	23.5	2	
15	16QAM	36	0	22.38	22.42	22.33			
15	16QAM	36	20	22.20	22.39	22.26			
15	16QAM	36	39	22.10	22.33	22.38	23.5	2	
15	16QAM	75	0	22.34	22.60	22.23			
15	64QAM	1	0	22.38	22.44	22.23			
15	64QAM	1	37	22.31	22.53	22.25	23.5	2	
15	64QAM	1	74	22.06	22.40	22.38			
15	64QAM	36	0	21.34	21.47	21.24			
15	64QAM	36	20	21.39	21.59	21.34	22.5	3	
15	64QAM	36	39	21.39	21.58	21.28			
15	64QAM	75	0	21.08	21.35	21.40			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	24.41	24.47	24.38	25.5	0	
10	QPSK	1	25	24.30	24.35	24.39			
10	QPSK	1	49	24.37	24.42	24.27			
10	QPSK	25	0	23.55	23.69	23.45	24.5	1	
10	QPSK	25	12	23.28	23.55	23.44			
10	QPSK	25	25	23.19	23.32	23.33			
10	QPSK	50	0	23.32	23.50	23.33	24.5	1	
10	16QAM	1	0	23.40	23.61	23.49			
10	16QAM	1	25	23.24	23.49	23.26			
10	16QAM	1	49	23.13	23.56	23.16	23.5	2	
10	16QAM	25	0	22.38	22.31	22.37			
10	16QAM	25	12	22.16	22.36	22.48			
10	16QAM	25	25	22.26	22.33	22.36	23.5	2	
10	16QAM	50	0	22.32	22.65	22.34			
10	64QAM	1	0	22.58	22.45	22.26			
10	64QAM	1	25	22.38	22.56	22.36	22.5	3	
10	64QAM	1	49	22.11	22.37	22.32			
10	64QAM	25	0	21.42	21.50	21.39			
10	64QAM	25	12	21.51	21.75	21.47	22.5	3	
10	64QAM	25	25	21.35	21.47	21.40			
10	64QAM	50	0	21.11	21.35	21.57			
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	0	24.37	24.52	24.43	25.5	0	
5	QPSK	1	12	24.16	24.42	24.33			
5	QPSK	1	24	24.31	24.60	24.15			
5	QPSK	12	0	23.41	23.62	23.43	24.5	1	
5	QPSK	12	7	23.35	23.55	23.48			
5	QPSK	12	13	23.16	23.13	23.23			
5	QPSK	25	0	23.44	23.43	23.23	24.5	1	
5	16QAM	1	0	23.21	23.53	23.32			
5	16QAM	1	12	23.08	23.37	23.26			
5	16QAM	1	24	23.24	23.48	23.31	23.5	2	
5	16QAM	12	0	22.52	22.46	22.28			
5	16QAM	12	7	22.29	22.54	22.46			
5	16QAM	12	13	22.18	22.32	22.41	23.5	2	
5	16QAM	25	0	22.22	22.55	22.24			
5	64QAM	1	0	22.46	22.57	22.23			
5	64QAM	1	12	22.42	22.70	22.22	23.5	2	
5	64QAM	1	24	22.23	22.36	22.31			
5	64QAM	12	0	21.38	21.44	21.33			
5	64QAM	12	7	21.45	21.63	21.35	22.5	3	
5	64QAM	12	13	21.36	21.54	21.34			
5	64QAM	25	0	21.18	21.30	21.44			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	24.36	24.62	24.46	25.5	0	
3	QPSK	1	8	24.13	24.44	24.34			
3	QPSK	1	14	24.35	24.45	24.25			
3	QPSK	8	0	23.51	23.49	23.35	24.5	1	
3	QPSK	8	4	23.43	23.38	23.48			
3	QPSK	8	7	23.10	23.28	23.21			
3	QPSK	15	0	23.45	23.55	23.29	24.5	1	
3	16QAM	1	0	23.40	23.51	23.30			
3	16QAM	1	8	23.21	23.43	23.35			
3	16QAM	1	14	23.34	23.58	23.34	23.5	2	
3	16QAM	8	0	22.51	22.35	22.25			
3	16QAM	8	4	22.20	22.56	22.39			
3	16QAM	8	7	22.21	22.47	22.40	23.5	2	
3	16QAM	15	0	22.32	22.57	22.24			
3	64QAM	1	0	22.56	22.66	22.34			
3	64QAM	1	8	22.47	22.66	22.30	22.5	3	
3	64QAM	1	14	22.22	22.28	22.52			
3	64QAM	8	0	21.33	21.51	21.40			
3	64QAM	8	4	21.50	21.56	21.30	22.5	3	
3	64QAM	8	7	21.33	21.67	21.32			
3	64QAM	15	0	21.14	21.34	21.56			
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	24.24	24.47	24.34	25.5	0	
1.4	QPSK	1	3	24.04	24.24	24.31			
1.4	QPSK	1	5	24.31	24.42	24.25			
1.4	QPSK	3	0	24.21	24.50	24.42	24.5	1	
1.4	QPSK	3	1	24.11	24.36	24.20			
1.4	QPSK	3	3	24.21	24.26	24.13			
1.4	QPSK	6	0	23.17	23.44	23.14	24.5	1	
1.4	16QAM	1	0	23.33	23.37	23.29			
1.4	16QAM	1	3	23.07	23.34	23.34			
1.4	16QAM	1	5	23.26	23.39	23.15	24.5	1	
1.4	16QAM	3	0	23.37	23.45	23.24			
1.4	16QAM	3	1	23.19	23.29	23.15			
1.4	16QAM	3	3	23.14	23.52	23.23	23.5	2	
1.4	16QAM	6	0	22.25	22.50	22.22			
1.4	64QAM	1	0	22.52	22.48	22.31			
1.4	64QAM	1	3	22.47	22.48	22.32	23.5	2	
1.4	64QAM	1	5	22.10	22.16	22.43			
1.4	64QAM	3	0	22.56	22.57	22.13			
1.4	64QAM	3	1	22.40	22.23	22.19	22.5	3	
1.4	64QAM	3	3	22.16	22.14	22.50			
1.4	64QAM	6	0	21.00	21.40	21.45			

Band 38 Ant4 DSI2									
BW [MHz]	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	19.71	19.85	19.83	21	0	
20	QPSK	1	49	19.47	19.80	19.49			
20	QPSK	1	99	19.54	19.58	19.58			
20	QPSK	50	0	19.59	19.70	19.68			
20	QPSK	50	24	19.58	19.61	19.50			
20	QPSK	50	50	19.40	19.56	19.69	21	0	
20	QPSK	100	0	19.61	19.64	19.53			
20	16QAM	1	0	19.66	19.51	19.55			
20	16QAM	1	49	19.38	19.60	19.49			
20	16QAM	1	99	19.35	19.50	19.43			
20	16QAM	50	0	19.67	19.38	19.60	21	0	
20	16QAM	50	24	19.41	19.58	19.35			
20	16QAM	50	50	19.54	19.58	19.59			
20	16QAM	100	0	19.25	19.60	19.56			
20	64QAM	1	0	19.36	19.54	19.51			
20	64QAM	1	49	19.34	19.48	19.42	21	0	
20	64QAM	1	99	19.47	19.37	19.52			
20	64QAM	50	0	18.64	18.79	18.67			
20	64QAM	50	24	18.56	18.74	18.48			
20	64QAM	50	50	18.57	18.45	18.79			
20	64QAM	100	0	18.55	18.78	18.63	20	1	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)		MPR (dB)
15	QPSK	1	0	19.57	19.60	19.81	21	0	
15	QPSK	1	37	19.42	19.79	19.51			
15	QPSK	1	74	19.47	19.36	19.59			
15	QPSK	36	0	19.45	19.51	19.49			
15	QPSK	36	20	19.59	19.46	19.30			
15	QPSK	36	39	19.36	19.57	19.62	21	0	
15	QPSK	75	0	19.60	19.44	19.32			
15	16QAM	1	0	19.54	19.39	19.44			
15	16QAM	1	37	19.31	19.46	19.51			
15	16QAM	1	74	19.29	19.42	19.27			
15	16QAM	36	0	19.38	19.30	19.47	21	0	
15	16QAM	36	20	19.42	19.41	19.27			
15	16QAM	36	39	19.48	19.49	19.47			
15	16QAM	75	0	19.09	19.49	19.44			
15	64QAM	1	0	19.31	19.32	19.21			
15	64QAM	1	37	19.40	19.39	19.28	21	0	
15	64QAM	1	74	19.47	19.24	19.33			
15	64QAM	36	0	18.61	18.60	18.48			
15	64QAM	36	20	18.69	18.57	18.73			
15	64QAM	36	39	18.55	18.62	18.78			
15	64QAM	75	0	18.51	18.63	18.45	20	1	
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)		MPR (dB)
10	QPSK	1	0	19.65	19.80	19.82	21	0	
10	QPSK	1	25	19.34	19.71	19.50			
10	QPSK	1	49	19.55	19.42	19.55			
10	QPSK	25	0	19.43	19.56	19.59			
10	QPSK	25	12	19.56	19.43	19.45			
10	QPSK	25	25	19.32	19.46	19.64	21	0	
10	QPSK	50	0	19.46	19.53	19.40			
10	16QAM	1	0	19.53	19.44	19.44			
10	16QAM	1	25	19.21	19.50	19.43			
10	16QAM	1	49	19.19	19.29	19.33			
10	16QAM	25	0	19.60	19.62	19.56	21	0	
10	16QAM	25	12	19.64	19.48	19.56			
10	16QAM	25	25	19.63	19.54	19.59			
10	16QAM	50	0	19.59	19.62	19.57			
10	64QAM	1	0	19.57	19.59	19.47			
10	64QAM	1	25	19.55	19.45	19.42	21	0	
10	64QAM	1	49	19.39	19.16	19.38			
10	64QAM	25	0	18.43	18.59	18.57			
10	64QAM	25	12	18.39	18.69	18.33			
10	64QAM	25	25	18.45	18.43	18.57			
10	64QAM	50	0	18.35	18.56	18.56	20	1	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)		MPR (dB)
5	QPSK	1	0	19.56	19.83	19.84	21	0	
5	QPSK	1	12	19.72	19.59	19.43			
5	QPSK	1	24	19.53	19.51	19.50			
5	QPSK	12	0	19.55	19.54	19.65			
5	QPSK	12	7	19.48	19.47	19.50			
5	QPSK	12	13	19.29	19.41	19.48	21	0	
5	QPSK	25	0	19.55	19.63	19.34			
5	16QAM	1	0	19.49	19.41	19.41			
5	16QAM	1	12	19.25	19.46	19.38			
5	16QAM	1	24	19.22	19.46	19.29			
5	16QAM	12	0	19.64	19.56	19.46	21	0	
5	16QAM	12	7	19.39	19.44	19.60			
5	16QAM	12	13	19.56	19.55	19.48			
5	16QAM	25	0	19.13	19.59	19.41			
5	64QAM	1	0	19.39	19.61	19.18			
5	64QAM	1	12	19.56	19.29	19.22	21	0	
5	64QAM	1	24	19.44	19.17	19.46			
5	64QAM	12	0	18.49	18.77	18.58			
5	64QAM	12	7	18.38	18.64	18.46			
5	64QAM	12	13	18.41	18.35	18.58			
5	64QAM	25	0	18.42	18.79	18.50	20	1	
Channel				37750	38000	38250			
Frequency (MHz)				2570	2595	2620	Tune-up limit (dBm)		MPR (dB)

Band 41 Ant4 DS12										
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	19.65	19.72	19.92	19.87	19.85	21	0
20	QPSK	1	49	19.59	19.58	19.90	19.67	19.61		
20	QPSK	1	99	19.62	19.64	19.74	19.74	19.64		
20	QPSK	50	0	19.58	19.67	19.75	19.73	19.69		
20	QPSK	50	24	19.36	19.59	19.69	19.57	19.63		
20	QPSK	50	50	19.34	19.53	19.62	19.72	19.67	21	0
20	QPSK	100	0	19.46	19.63	19.70	19.68	19.71		
20	16QAM	1	0	19.54	19.69	19.72	19.56	19.83		
20	16QAM	1	49	19.68	19.42	19.59	19.64	19.53		
20	16QAM	1	99	19.50	19.63	19.72	19.54	19.46		
20	16QAM	50	0	19.66	19.66	19.52	19.78	19.67	21	0
20	16QAM	50	24	19.64	19.59	19.72	19.53	19.58		
20	16QAM	50	50	19.37	19.34	19.72	19.68	19.39		
20	16QAM	100	0	19.59	19.46	19.74	19.56	19.53		
20	64QAM	1	0	19.72	19.38	19.64	19.49	19.51		
20	64QAM	1	49	19.56	19.35	19.53	19.52	19.52	21	0
20	64QAM	1	99	19.39	19.48	19.51	19.59	19.51		
20	64QAM	50	0	18.46	18.73	18.89	18.86	18.85		
20	64QAM	50	24	18.69	18.55	18.79	18.64	18.58		
20	64QAM	50	50	18.49	18.70	18.63	18.59	18.59		
20	64QAM	100	0	18.54	18.76	18.79	18.77	18.62		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.47	19.55	19.80	19.73	19.71	21.00	0
15	QPSK	1	37	19.46	19.37	19.83	19.51	19.53		
15	QPSK	1	74	19.46	19.46	19.64	19.70	19.65		
15	QPSK	36	0	19.53	19.60	19.70	19.82	19.71		
15	QPSK	36	20	19.46	19.55	19.88	19.73	19.75		
15	QPSK	36	39	19.66	19.74	19.82	19.79	19.84	21	0
15	QPSK	75	0	19.44	19.62	19.70	19.50	19.65		
15	16QAM	1	0	19.56	19.61	19.84	19.72	19.84	21	0
15	16QAM	1	37	19.64	19.63	19.73	19.88	19.75		
15	16QAM	1	74	19.48	19.55	19.69	19.69	19.71		
15	16QAM	36	0	19.58	19.53	19.83	19.83	19.86		
15	16QAM	36	20	19.64	19.64	19.79	19.76	19.79		
15	16QAM	36	39	19.60	19.62	19.88	19.89	19.76	21	0
15	16QAM	75	0	19.38	19.36	19.62	19.45	19.44		
15	64QAM	1	0	19.52	19.35	19.65	19.39	19.32	21	0
15	64QAM	1	37	19.52	19.29	19.35	19.53	19.37		
15	64QAM	1	74	19.38	19.32	19.34	19.49	19.33		
15	64QAM	36	0	18.41	18.71	18.84	18.69	18.85		
15	64QAM	36	20	18.55	18.48	18.73	18.55	18.51		
15	64QAM	36	39	18.37	18.56	18.56	18.83	18.48	20	1
15	64QAM	75	0	18.51	18.77	18.68	18.57	18.45		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.43	19.44	19.74	19.75	19.68	21.00	0
10	QPSK	1	25	19.42	19.37	19.70	19.54	19.60		
10	QPSK	1	49	19.60	19.54	19.69	19.69	19.56		
10	QPSK	25	0	19.57	19.71	19.94	19.68	19.84		
10	QPSK	25	12	19.58	19.53	19.78	19.68	19.69		
10	QPSK	25	25	19.55	19.65	19.76	19.67	19.75	21	0
10	QPSK	50	0	19.62	19.68	19.77	19.78	19.71		
10	16QAM	1	0	19.53	19.54	19.67	19.49	19.69		
10	16QAM	1	25	19.66	19.41	19.56	19.44	19.41		
10	16QAM	1	49	19.45	19.34	19.58	19.33	19.47		
10	16QAM	25	0	19.54	19.60	19.71	19.69	19.69	21	0
10	16QAM	25	12	19.49	19.62	19.74	19.69	19.66		
10	16QAM	25	25	19.45	19.53	19.81	19.74	19.68		
10	16QAM	50	0	19.51	19.35	19.36	19.36	19.45		
10	64QAM	1	0	19.58	19.34	19.43	19.51	19.38		
10	64QAM	1	25	19.55	19.28	19.32	19.32	19.44	21	0
10	64QAM	1	49	19.27	19.45	19.36	19.52	19.32		
10	64QAM	25	0	18.36	18.66	18.82	18.85	18.84		
10	64QAM	25	12	18.57	18.51	18.59	18.58	18.44		
10	64QAM	25	25	18.44	18.61	18.60	19.79	18.39		
10	64QAM	50	0	18.51	18.69	18.75	18.59	18.50	20	1
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.66	19.63	19.82	19.81	19.64	21.00	0
5	QPSK	1	12	19.51	19.39	19.69	19.65	19.58		
5	QPSK	1	24	19.60	19.56	19.63	19.59	19.58		
5	QPSK	12	0	19.51	19.54	19.93	19.72	19.68		
5	QPSK	12	7	19.53	19.61	19.75	19.73	19.70		
5	QPSK	12	13	19.66	19.54	19.76	19.66	19.83	21	0
5	QPSK	25	0	19.66	19.59	19.89	19.85	19.65		
5	16QAM	1	0	19.52	19.51	19.53	19.39	19.62		
5	16QAM	1	12	19.59	19.24	19.49	19.47	19.46		
5	16QAM	1	24	19.28	19.29	19.71	19.73	19.44		
5	16QAM	12	0	19.66	19.51	19.81	19.81	19.47	21	0
5	16QAM	12	7	19.53	19.38	19.57	19.42	19.43		
5	16QAM	12	13	19.66	19.26	19.51	19.66	19.51		
5	16QAM	25	0	19.52	19.25	19.67	19.47	19.40		
5	64QAM	1	0	19.54	19.22	19.44	19.50	19.50		
5	64QAM	1	12	19.52	19.34	19.47	19.46	19.39	21	0
5	64QAM	1	24	19.32	19.38	19.47	19.43	19.44		
5	64QAM	12	0	19.36	18.53	18.68	18.68	18.84		
5	64QAM	12	7	19.64	18.49	18.76	18.53	18.39		
5	64QAM	12	13	18.40	18.66	18.65	18.61	18.47		
5	64QAM	25	0	18.41	18.67	18.81	18.56	18.44		

DSI4 Power Mode for Sensor on

GSM900 Ant 1 DSI4									
GSM900		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	848.6		824.2	836.4	848.6	
Frequency (MHz)									
GSM 1 Tx slot		32.05	32.09	32.03	33.50	23.05	23.09	23.03	24.50
GPRS 1 Tx slot		32.15	32.18	32.16	33.50	23.15	23.18	23.16	24.50
GPRS 2 Tx slots		30.03	30.04	29.99	31.00	24.03	24.04	23.99	25.00
GPRS 3 Tx slots		28.33	28.34	28.31	29.50	24.07	24.08	24.05	25.24
GPRS 4 Tx slots		26.44	26.45	26.39	27.50	23.44	23.46	23.39	24.50
EDGE 1 Tx slot		26.75	27.03	27.08	28.00	17.75	18.03	18.08	19.00
EDGE 2 Tx slots		24.21	24.50	24.57	25.50	18.21	18.50	18.57	19.50
EDGE 3 Tx slots		22.57	22.81	22.89	24.00	18.31	18.55	18.63	19.74
EDGE 4 Tx slots		21.21	21.43	21.56	22.50	18.21	18.43	18.56	19.50

GSM1900 Ant 1 DSI4									
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		1500.2	1500	1500.3		1500.2	1500	1500.3	
Frequency (MHz)									
GSM 1 Tx slot		26.73	26.85	26.82	28.00	17.73	17.85	17.82	19.00
GPRS 1 Tx slot		26.68	26.82	26.79	28.00	17.68	17.82	17.79	19.00
GPRS 2 Tx slots		23.65	23.69	23.61	25.00	17.65	17.69	17.61	19.00
GPRS 3 Tx slots		21.60	21.67	21.65	23.50	17.34	17.41	17.39	19.24
GPRS 4 Tx slots		20.47	20.29	20.61	21.50	17.67	17.29	17.61	18.50
EDGE 1 Tx slot		25.79	25.74	25.68	27.00	16.79	16.74	16.68	18.00
EDGE 2 Tx slots		23.39	23.28	23.35	24.50	17.39	17.28	17.35	18.50
EDGE 3 Tx slots		21.38	21.43	21.39	23.00	17.12	17.17	17.13	18.74
EDGE 4 Tx slots		20.25	20.27	20.19	21.50	17.25	17.27	17.19	18.50

WCDMA II Ant 1 DSI4													
Band		WCDMA II				WCDMA IV				WCDMA V			
TX Channel	9262	9490	9638	Tune-up	1312	1413	1513	Tune-up	4132	4182	4233	Tune-up	
RX Channel	9692	9900	9938	Limit (dBm)	1537	1638	1738	Limit (dBm)	4367	4407	4458	Limit (dBm)	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		2426.4	2436.4	2446.3		
3GPP Rel 99	AMR 12.2Kbps	20.43	20.44	20.28	21.50	20.37	20.40	20.33	21.50	24.33	24.43	24.23	25.50
3GPP Rel 99	RMC 12.2Kbps	20.43	20.46	20.32	21.50	20.40	20.42	20.37	21.50	24.43	24.55	24.33	26.50
3GPP Rel 6	HS-DPA Subtest-1	18.43	18.54	18.46	19.50	18.59	18.50	18.47	19.50	23.62	23.61	23.66	24.50
3GPP Rel 6	HS-DPA Subtest-2	18.42	18.44	18.44	19.50	18.61	18.35	18.31	19.50	23.53	23.56	23.58	24.50
3GPP Rel 6	HS-DPA Subtest-3	17.92	18.02	18.03	19.50	18.08	17.93	17.83	19.50	23.03	23.06	23.11	24.50
3GPP Rel 6	HS-DPA Subtest-4	17.98	17.93	17.97	19.50	18.04	17.87	17.84	19.50	23.05	23.06	23.09	24.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.31	18.43	18.49	19.50	18.64	18.43	18.53	19.50	23.54	23.72	23.70	25.00
3GPP Rel 8	DC-HSDPA Subtest-2	18.34	18.39	18.42	19.50	18.54	18.33	18.36	19.50	23.52	23.45	23.57	25.00
3GPP Rel 8	DC-HSDPA Subtest-3	17.91	17.91	17.92	19.50	18.20	17.97	17.86	19.50	22.98	22.98	23.11	24.50
3GPP Rel 8	DC-HSDPA Subtest-4	17.92	18.03	18.08	19.50	18.06	17.91	17.93	19.50	22.95	22.99	23.14	24.50
3GPP Rel 6	HS-PA Subtest-1	18.50	18.51	18.52	19.50	18.54	18.54	18.62	19.50	21.66	21.52	21.66	23.00
3GPP Rel 6	HS-PA Subtest-2	16.40	16.59	16.50	17.50	16.60	16.42	16.40	17.50	21.56	21.48	21.63	23.00
3GPP Rel 6	HS-PA Subtest-3	17.52	17.52	17.49	18.50	17.60	17.47	17.43	18.50	22.63	22.56	22.63	24.00
3GPP Rel 6	HS-PA Subtest-4	16.36	16.20	16.28	16.50	16.37	16.25	16.28	16.50	21.03	20.99	21.10	22.50
3GPP Rel 6	HS-PA Subtest-5	18.50	18.50	18.40	19.50	18.60	18.50	18.30	19.50	22.50	22.40	22.50	24.00

Band 2 Ant1 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.03	20.20	19.97	21.5	0
20	QPSK	1	49	20.12	20.10	20.10		
20	QPSK	1	99	20.00	20.10	19.80		
20	QPSK	50	0	20.05	20.23	19.89	21.5	0
20	QPSK	50	24	20.13	20.07	20.08		
20	QPSK	50	50	19.84	20.16	19.88		
20	QPSK	100	0	20.03	20.10	19.94	21.5	0
20	16QAM	1	0	19.96	20.26	19.78		
20	16QAM	1	49	20.04	20.15	19.90		
20	16QAM	1	99	19.97	20.10	20.02	21.5	0
20	16QAM	50	0	20.09	20.16	19.96		
20	16QAM	50	24	19.81	20.08	19.95		
20	16QAM	50	50	19.90	20.14	19.89	21.5	0
20	16QAM	100	0	19.96	20.21	19.96		
20	64QAM	1	0	19.88	20.01	19.80		
20	64QAM	1	49	20.09	20.20	19.83	21.5	0
20	64QAM	1	99	20.03	20.21	19.88		
20	64QAM	50	0	19.96	20.25	19.94		
20	64QAM	50	24	19.87	20.23	19.91	21.5	0
20	64QAM	50	50	20.05	20.10	20.11		
20	64QAM	100	0	19.87	20.28	19.80		
Channel								
Frequency (MHz)								
15	QPSK	1	0	19.90	20.08	19.92	21.5	0
15	QPSK	1	37	20.09	20.07	20.08		
15	QPSK	1	74	20.00	19.98	19.81		
15	QPSK	36	0	19.82	20.28	19.93	21.5	0
15	QPSK	36	20	20.13	19.93	20.00		
15	QPSK	36	39	19.99	20.08	19.82		
15	QPSK	75	0	19.81	19.95	19.78	21.5	0
15	16QAM	1	0	20.04	20.16	19.78		
15	16QAM	1	37	19.85	20.13	19.82		
15	16QAM	1	74	19.91	20.09	19.81	21.5	0
15	16QAM	36	0	19.97	20.05	19.94		
15	16QAM	36	20	19.70	20.05	19.77		
15	16QAM	36	39	19.86	20.02	19.89	21.5	0
15	16QAM	75	0	19.74	20.20	19.84		
15	64QAM	1	0	19.81	20.02	19.76		
15	64QAM	1	37	20.08	20.15	19.89	21.5	0
15	64QAM	1	74	19.95	20.15	19.66		
15	64QAM	36	0	19.97	20.14	19.84		
15	64QAM	36	20	19.66	20.03	19.73	21.5	0
15	64QAM	36	39	20.03	19.89	20.06		
15	64QAM	75	0	19.99	20.15	19.90		
Channel								
Frequency (MHz)								
10	QPSK	1	0	19.99	20.27	19.87	21.5	0
10	QPSK	1	25	20.08	19.92	20.09		
10	QPSK	1	49	19.99	20.23	19.93		
10	QPSK	25	0	20.01	20.18	19.80	21.5	0
10	QPSK	25	12	19.97	20.03	20.03		
10	QPSK	25	25	19.80	20.09	19.89		
10	QPSK	50	0	20.05	20.11	19.74	21.5	0
10	16QAM	1	0	19.91	20.11	19.79		
10	16QAM	1	25	20.01	20.10	19.79		
10	16QAM	1	49	19.90	19.94	19.90	21.5	0
10	16QAM	25	0	19.90	20.04	19.82		
10	16QAM	25	12	19.63	20.09	19.95		
10	16QAM	25	25	19.80	20.12	19.69	21.5	0
10	16QAM	50	0	19.94	20.12	19.79		
10	64QAM	1	0	19.87	20.25	19.67		
10	64QAM	1	25	20.00	20.22	19.77	21.5	0
10	64QAM	1	49	19.93	20.20	19.99		
10	64QAM	25	0	19.87	20.11	19.86		
10	64QAM	25	12	19.87	20.26	19.92	21.5	0
10	64QAM	25	25	19.85	20.00	20.12		
10	64QAM	50	0	19.93	20.26	19.90		
Channel								
Frequency (MHz)								
5	QPSK	1	0	19.94	20.19	19.98	21.5	0
5	QPSK	1	12	19.93	20.10	20.21		
5	QPSK	1	24	19.93	20.10	19.74		
5	QPSK	12	0	19.85	20.04	19.89	21.5	0
5	QPSK	12	7	19.98	19.96	19.89		
5	QPSK	12	13	19.64	20.09	19.88		
5	QPSK	25	0	19.89	20.00	19.77	21.5	0
5	16QAM	1	0	20.02	20.28	19.79		
5	16QAM	1	12	19.90	20.10	19.92		
5	16QAM	1	24	19.83	20.27	19.98	21.5	0
5	16QAM	12	0	20.04	20.10	19.96		
5	16QAM	12	7	19.79	19.95	19.92		
5	16QAM	12	13	19.70	19.92	19.74	21.5	0
5	16QAM	25	0	19.90	20.08	19.93		
5	64QAM	1	0	19.74	19.95	19.64		
5	64QAM	1	12	20.08	20.12	19.72	21.5	0
5	64QAM	1	24	19.82	20.02	19.78		
5	64QAM	12	0	19.82	20.08	19.89		
5	64QAM	12	7	19.80	20.07	19.81	21.5	0
5	64QAM	12	13	19.99	19.91	20.02		
5	64QAM	25	0	19.78	20.18	19.69		
Channel								
Frequency (MHz)								
3	QPSK	1	0	19.97	20.08	19.80	21.5	0
3	QPSK	1	8	20.00	20.07	20.09		
3	QPSK	1	14	19.88	20.02	19.73		
3	QPSK	8	0	19.87	20.10	19.68	21.5	0
3	QPSK	8	4	20.12	20.09	19.87		
3	QPSK	8	7	19.74	19.86	19.69		
3	QPSK	15	0	19.93	19.93	19.84	21.5	0
3	16QAM	1	0	19.84	20.24	19.80		
3	16QAM	1	8	20.02	20.12	19.76		
3	16QAM	1	14	19.95	20.21	19.84	21.5	0
3	16QAM	8	0	20.07	19.94	19.75		
3	16QAM	8	4	19.74	19.92	19.90		
3	16QAM	8	7	19.74	19.95	19.67	21.5	0
3	16QAM	15	0	19.95	20.12	19.96		
3	64QAM	1	0	19.95	20.25	19.95		
3	64QAM	1	8	20.01	20.13	19.95	21.5	0
3	64QAM	1	14	20.00	20.08	19.81		
3	64QAM	8	0	19.89	20.18	19.79		
3	64QAM	8	4	19.86	20.13	19.93	21.5	0
3	64QAM	8	7	19.99	20.03	19.99		
3	64QAM	15	0	19.92	20.16	19.87		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	19.90	20.20	19.75	21.5	0
1.4	QPSK	1	3	19.94	20.10	19.85		
1.4	QPSK	1	5	19.98	20.07	19.99		
1.4	QPSK	3	0	19.98	20.27	19.77	21.5	0
1.4	QPSK	3	1	19.83	20.23	19.93		
1.4	QPSK	3	3	19.97	20.15	19.86		
1.4	QPSK	6	0	19.81	19.96	19.74	21.5	0
1.4	16QAM	1	0	19.94	20.08	19.66		
1.4	16QAM	1	3	19.92	19.98	19.84		
1.4	16QAM	1	5	19.87	20.02	19.99	21.5	0
1.4	16QAM	3	0	20.00	19.98	19.74		
1.4	16QAM	3	1	19.73	19.94	19.91		
1.4	16QAM	3	3	19.73	19.92	19.77	21.5	0
1.4	16QAM	6	0	19.95	20.03	19.83		
1.4	64QAM	1	0	19.73	19.89	19.62		
1.4	64QAM	1	3	19.87	20.02	19.71	21.5	0
1.4	64QAM	1	5	19.90	20.00	19.89		
1.4	64QAM	3	0	19.77	20.14	19.81		
1.4	64QAM	3	1	19.89	20.24	19.75	21.5	0
1.4	64QAM	3	3	19.91	19.99	20.08		
1.4	64QAM	6	0	19.87	20.11	19.68		

Band 4 Ant1 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.04	20.17	20.11	21.5	0		
20	QPSK	1	49	20.01	20.14	20.05				
20	QPSK	1	99	20.08	20.05	20.10				
20	QPSK	50	0	20.03	20.12	20.01				
20	QPSK	50	24	20.00	19.99	19.99	21.5	0		
20	QPSK	50	50	20.06	20.06	19.81				
20	QPSK	100	0	19.97	20.00	19.92				
20	16QAM	1	0	19.92	19.95	19.91				
20	16QAM	1	49	20.05	20.05	19.94	21.5	0		
20	16QAM	1	99	19.95	20.15	20.11				
20	16QAM	50	0	19.93	20.04	19.96				
20	16QAM	50	24	20.02	19.97	19.93				
20	16QAM	50	50	19.96	20.02	20.03	21.5	0		
20	16QAM	100	0	19.96	20.01	19.87				
20	84QAM	1	0	19.99	20.01	20.02				
20	84QAM	1	49	19.85	19.95	20.12				
20	84QAM	1	99	19.90	20.12	19.97	21.5	0		
20	84QAM	50	0	20.08	19.97	19.86				
20	84QAM	50	24	19.91	20.12	19.89				
20	84QAM	50	50	19.85	20.01	20.05				
20	84QAM	100	0	19.89	20.03	19.92	21.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.03	19.97	20.07			21.5	0
15	QPSK	1	37	19.83	20.15	19.87				
15	QPSK	1	74	19.91	19.92	20.02				
15	QPSK	36	0	19.89	20.08	20.04				
15	QPSK	36	20	19.91	19.95	19.94	21.5	0		
15	QPSK	36	39	19.97	19.98	19.91				
15	QPSK	75	0	19.75	19.96	19.71				
15	16QAM	1	0	19.83	19.77	19.70				
15	16QAM	1	37	20.06	19.91	19.73	21.5	0		
15	16QAM	1	74	19.77	20.01	20.03				
15	16QAM	36	0	19.86	20.04	19.84				
15	16QAM	36	20	20.01	19.89	19.90				
15	16QAM	36	39	19.94	19.83	19.84	21.5	0		
15	16QAM	75	0	19.88	19.74	19.71				
15	64QAM	1	0	19.97	19.93	19.87				
15	64QAM	1	37	19.87	19.84	20.01				
15	64QAM	1	74	19.86	19.91	19.87	21.5	0		
15	84QAM	36	0	20.10	19.76	19.72				
15	84QAM	36	20	19.72	19.95	19.76				
15	84QAM	36	39	19.76	19.82	19.99				
15	84QAM	75	0	19.87	20.03	19.78	21.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.85	20.14	20.01			21.5	0
10	QPSK	1	25	20.02	20.11	20.06				
10	QPSK	1	49	19.87	19.89	19.84				
10	QPSK	25	0	20.04	20.14	19.90				
10	QPSK	25	12	19.83	19.87	19.86	21.5	0		
10	QPSK	25	25	20.02	19.98	19.86				
10	QPSK	50	0	19.84	19.78	19.73				
10	16QAM	1	0	19.81	19.90	19.87				
10	16QAM	1	25	20.07	19.88	19.78	21.5	0		
10	16QAM	1	49	19.86	19.94	19.96				
10	16QAM	25	0	19.92	20.05	19.89				
10	16QAM	25	12	19.98	19.91	19.78				
10	16QAM	25	25	19.89	19.92	20.04	21.5	0		
10	16QAM	50	0	19.85	19.95	19.69				
10	84QAM	1	0	19.89	19.85	20.01				
10	84QAM	1	25	19.74	19.83	20.11				
10	64QAM	1	49	19.91	19.99	19.99	21.5	0		
10	64QAM	25	0	20.08	19.79	19.77				
10	64QAM	25	12	19.87	20.02	19.83				
10	64QAM	25	25	19.75	19.96	20.04				
10	84QAM	50	0	19.75	20.00	19.86	21.5	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.85	19.97	19.97			21.5	0
5	QPSK	1	12	19.89	20.10	19.89				
5	QPSK	1	24	19.94	19.99	19.90				
5	QPSK	12	0	19.94	20.14	20.06				
5	QPSK	12	7	19.91	19.94	19.83	21.5	0		
5	QPSK	12	13	19.92	19.91	19.83				
5	QPSK	25	0	19.98	19.80	19.74				
5	16QAM	1	0	19.84	19.87	19.70				
5	16QAM	1	12	19.92	19.97	19.93	21.5	0		
5	16QAM	1	24	19.91	20.06	20.08				
5	16QAM	12	0	19.81	19.85	19.79				
5	16QAM	12	7	19.88	19.78	19.85				
5	16QAM	12	13	19.80	19.91	20.03	21.5	0		
5	16QAM	25	0	19.76	19.74	19.81				
5	84QAM	1	0	19.79	19.89	19.80				
5	84QAM	1	12	19.66	19.90	19.92				
5	84QAM	1	24	19.85	20.08	19.76	21.5	0		
5	84QAM	12	0	20.04	19.91	19.71				
5	84QAM	12	7	19.72	19.94	19.79				
5	84QAM	12	13	19.63	19.83	19.85				
5	84QAM	25	0	19.85	19.88	19.78	21.5	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.86	20.09	20.05			21.5	0
3	QPSK	1	8	19.98	20.03	19.98				
3	QPSK	1	14	19.87	19.93	19.97				
3	QPSK	8	0	20.05	20.00	20.07				
3	QPSK	8	4	19.92	19.83	19.86	21.5	0		
3	QPSK	8	7	20.03	19.90	19.89				
3	QPSK	15	0	19.82	19.91	19.83				
3	16QAM	1	0	19.76	19.76	19.92				
3	16QAM	1	8	19.86	19.99	19.84	21.5	0		
3	16QAM	1	14	19.79	19.93	20.05				
3	16QAM	8	0	19.84	19.83	19.78				
3	16QAM	8	4	20.03	19.89	19.85				
3	16QAM	8	7	19.86	19.95	19.85	21.5	0		
3	16QAM	15	0	19.83	19.73	19.69				
3	64QAM	1	0	20.01	19.84	19.91				
3	64QAM	1	8	19.85	19.77	20.01				
3	84QAM	1	14	19.81	19.92	19.96	21.5	0		
3	84QAM	8	0	20.07	19.96	19.70				
3	84QAM	8	4	19.70	20.03	19.82				
3	84QAM	8	7	19.77	20.00	19.84				
3	84QAM	15	0	19.73	19.96	19.79	21.5	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.98	20.09	20.13			21.5	0
1.4	QPSK	1	3	19.98	20.10	20.05				
1.4	QPSK	1	3	20.01	20.09	20.06				
1.4	QPSK	3	0	19.94	20.01	20.14				
1.4	QPSK	3	1	19.91	19.82	19.87	21.5	0		
1.4	QPSK	3	3	20.03	20.00	19.89				
1.4	QPSK	6	0	19.98	19.84	19.87				
1.4	16QAM	1	0	19.93	19.96	19.76				
1.4	16QAM	1	3	19.97	20.02	19.88	21.5	0		
1.4	16QAM	1	6	19.93	20.09	19.98				
1.4	16QAM	3	0	19.82	19.94	19.84				
1.4	16QAM	3	1	19.99	19.92	19.72				
1.4	16QAM	3	3	19.88	19.85	19.93	21.5	0		
1.4	84QAM	1	0	19.88	19.97	19.90				
1.4	84QAM	1	3	19.78	19.86	20.04				
1.4	84QAM	1	5	19.87	19.92	19.76				
1.4	64QAM	3	0	20.04	19.80	19.64	21.5	0		
1.4	64QAM	3	3	19.85	20.11	19.89				
1.4	84QAM	3	3	19.85	20.00	19.90				
1.4	84QAM	6	0	19.75	20.02	19.85				



Band 7 Ant1 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20950	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.81	17.92	17.87	19	0
20	QPSK	1	49	17.93	17.75	17.73		
20	QPSK	1	99	17.91	17.87	17.84		
20	QPSK	50	0	17.68	17.87	17.82	19	0
20	QPSK	50	24	17.71	17.73	17.72		
20	QPSK	50	50	17.73	17.83	17.63		
20	QPSK	100	0	17.73	17.54	17.72	19	0
20	16QAM	1	0	17.90	17.76	17.64		
20	16QAM	1	99	17.85	17.81	17.54		
20	16QAM	50	0	17.81	17.61	17.82	19	0
20	16QAM	50	24	17.77	17.69	17.52		
20	16QAM	50	50	17.61	17.81	17.74		
20	16QAM	100	0	17.90	17.56	17.72	19	0
20	64QAM	1	0	17.70	17.89	17.50		
20	64QAM	1	49	17.73	17.86	17.67		
20	64QAM	1	99	17.80	17.56	17.52	19	0
20	64QAM	50	0	17.81	17.69	17.73		
20	64QAM	50	24	17.72	17.91	17.68		
20	64QAM	50	50	17.87	17.68	17.56	19	0
20	64QAM	100	0	17.83	17.66	17.66		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.70	17.90	17.68	19	0
15	QPSK	1	37	17.74	17.69	17.63		
15	QPSK	1	74	17.71	17.67	17.59		
15	QPSK	36	0	17.82	17.70	17.69	19	0
15	QPSK	36	20	17.72	17.67	17.72		
15	QPSK	36	39	17.53	17.63	17.65		
15	QPSK	75	0	17.73	17.90	17.67	19	0
15	16QAM	1	0	17.73	17.60	17.58		
15	16QAM	1	37	17.69	17.72	17.71		
15	16QAM	1	74	17.79	17.80	17.60	19	0
15	16QAM	36	0	17.75	17.53	17.50		
15	16QAM	36	20	17.82	17.84	17.66		
15	16QAM	36	39	17.70	17.80	17.75	19	0
15	16QAM	75	0	17.89	17.51	17.70		
15	84QAM	1	0	17.70	17.70	17.68		
15	84QAM	1	37	17.61	17.84	17.59	19	0
15	84QAM	1	74	17.60	17.56	17.51		
15	84QAM	36	0	17.80	17.61	17.76		
15	84QAM	36	20	17.72	17.80	17.69	19	0
15	84QAM	36	39	17.83	17.68	17.73		
15	84QAM	75	0	17.84	17.60	17.67		
Channel				20900	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.75	17.81	17.52	19	0
10	QPSK	1	25	17.84	17.72	17.70		
10	QPSK	1	49	17.81	17.86	17.65		
10	QPSK	25	0	17.61	17.81	17.71	19	0
10	QPSK	25	12	17.60	17.62	17.67		
10	QPSK	25	25	17.72	17.79	17.77		
10	QPSK	50	0	17.51	17.75	17.82	19	0
10	16QAM	1	0	17.70	17.58	17.50		
10	16QAM	1	25	17.79	17.76	17.54		
10	16QAM	1	49	17.79	17.86	17.68	19	0
10	16QAM	25	0	17.75	17.51	17.57		
10	16QAM	25	12	17.59	17.57	17.87		
10	16QAM	25	25	17.75	17.67	17.65	19	0
10	16QAM	50	0	17.91	17.51	17.65		
10	84QAM	1	0	17.53	17.76	17.68		
10	84QAM	1	25	17.86	17.76	17.60	19	0
10	84QAM	1	49	17.72	17.54	17.75		
10	84QAM	25	0	17.75	17.55	17.71		
10	84QAM	25	12	17.68	17.73	17.59	19	0
10	84QAM	25	25	17.81	17.50	17.77		
10	84QAM	50	0	17.85	17.65	17.70		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.75	17.99	17.79	19	0
5	QPSK	1	12	17.76	17.74	17.84		
5	QPSK	1	24	17.76	17.83	17.80		
5	QPSK	12	0	17.67	17.86	17.77	19	0
5	QPSK	12	7	17.54	17.53	17.71		
5	QPSK	12	13	17.51	17.83	17.60		
5	QPSK	25	0	17.55	17.79	17.89	19	0
5	16QAM	1	0	17.72	17.72	17.58		
5	16QAM	1	12	17.76	17.78	17.67		
5	16QAM	1	24	17.78	17.87	17.65	19	0
5	16QAM	12	0	17.73	17.50	17.63		
5	16QAM	12	7	17.67	17.77	17.86		
5	16QAM	12	13	17.66	17.77	17.85	19	0
5	16QAM	25	0	17.75	17.58	17.71		
5	84QAM	1	0	17.68	17.84	17.86		
5	84QAM	1	12	17.59	17.88	17.59	19	0
5	84QAM	1	24	17.59	17.50	17.71		
5	84QAM	12	0	17.74	17.68	17.69		
5	84QAM	12	7	17.73	17.85	17.58	19	0
5	84QAM	12	13	17.82	17.61	17.86		
5	84QAM	25	0	17.68	17.61	17.67		

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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				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.70	22.90	22.77	24	0
10	QPSK	1	25	22.66	22.69	22.72		
10	QPSK	1	49	22.49	22.74	22.76		
10	QPSK	25	0	22.63	22.75	22.62	24	0
10	QPSK	25	12	22.63	22.67	22.70		
10	QPSK	25	25	22.15	22.73	22.59		
10	QPSK	50	0	22.66	22.70	22.68	24	0
10	16QAM	1	0	22.49	22.72	22.76		
10	16QAM	1	25	22.62	22.58	22.70		
10	16QAM	1	49	22.47	22.69	22.78	23.5	0.5
10	16QAM	25	0	22.18	22.13	21.91		
10	16QAM	25	12	22.13	22.06	22.16		
10	16QAM	25	25	22.26	22.18	22.04	23.5	0.5
10	16QAM	50	0	22.15	22.15	22.08		
10	64QAM	1	0	21.96	22.21	22.04		
10	64QAM	1	25	21.83	21.99	22.03	22.5	1.5
10	64QAM	1	49	22.16	22.12	22.17		
10	64QAM	25	0	20.81	21.11	20.89		
10	64QAM	25	12	21.17	21.06	21.17	22.5	1.5
10	64QAM	25	25	21.00	21.09	20.82		
10	64QAM	50	0	21.00	20.93	20.89		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				703.5	707.5	713.5		
5	QPSK	1	0	22.56	22.72	22.66	24	0
5	QPSK	1	12	22.56	22.58	22.52		
5	QPSK	1	24	22.34	22.61	22.55		
5	QPSK	12	0	22.55	22.50	22.44	24	0
5	QPSK	12	7	22.56	22.50	22.65		
5	QPSK	12	13	22.34	22.52	22.43		
5	QPSK	25	0	22.47	22.47	22.64	24	0
5	16QAM	1	0	22.30	22.60	22.64		
5	16QAM	1	12	22.46	22.55	22.53		
5	16QAM	1	24	22.45	22.62	22.73	23.5	0.5
5	16QAM	12	0	21.99	21.94	21.80		
5	16QAM	12	7	21.95	21.86	22.02		
5	16QAM	12	13	22.13	22.01	21.83	23.5	0.5
5	16QAM	25	0	22.13	22.12	22.01		
5	64QAM	1	0	21.95	22.12	21.91		
5	64QAM	1	12	21.93	21.95	22.03	23.5	0.5
5	64QAM	1	24	22.05	22.13	22.06		
5	64QAM	12	0	20.77	20.94	20.78		
5	64QAM	12	7	21.09	21.05	21.12	22.5	1.5
5	64QAM	12	13	20.82	20.86	20.72		
5	64QAM	25	0	21.02	20.92	20.89		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.49	22.72	22.70	24	0
3	QPSK	1	8	22.52	22.53	22.56		
3	QPSK	1	14	22.45	22.68	22.73		
3	QPSK	8	0	22.47	22.65	22.41	24	0
3	QPSK	8	4	22.64	22.56	22.58		
3	QPSK	8	7	22.25	22.66	22.57		
3	QPSK	15	0	22.55	22.51	22.65	24	0
3	16QAM	1	0	22.44	22.60	22.73		
3	16QAM	1	8	22.60	22.57	22.66		
3	16QAM	1	14	22.26	22.27	22.66	23.5	0.5
3	16QAM	8	0	22.02	22.08	21.79		
3	16QAM	8	4	21.93	22.07	21.94		
3	16QAM	8	7	22.26	22.16	21.91	23.5	0.5
3	16QAM	15	0	22.12	22.16	22.03		
3	64QAM	1	0	21.79	22.05	21.93		
3	64QAM	1	8	21.85	21.78	21.83	23.5	0.5
3	64QAM	1	14	22.01	21.98	22.04		
3	64QAM	8	0	20.66	21.03	20.74		
3	64QAM	8	4	20.98	21.05	21.15	22.5	1.5
3	64QAM	8	7	21.00	20.97	20.76		
3	64QAM	15	0	20.86	20.95	20.65		
Channel				699.7	707.5	715.3	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	22.71	22.89	22.56	24	0
1.4	QPSK	1	3	22.55	22.56	22.59		
1.4	QPSK	1	5	22.38	22.68	22.75		
1.4	QPSK	3	0	22.62	22.64	22.62	24	0
1.4	QPSK	3	1	22.43	22.65	22.66		
1.4	QPSK	3	3	22.28	22.70	22.38		
1.4	QPSK	6	0	22.63	22.61	22.51	24	0
1.4	16QAM	1	0	22.51	22.63	22.61		
1.4	16QAM	1	3	22.42	22.37	22.51		
1.4	16QAM	1	5	22.28	22.58	22.72	24	0
1.4	16QAM	3	0	22.14	22.11	22.12		
1.4	16QAM	3	1	22.01	22.02	22.08		
1.4	16QAM	3	3	22.04	22.12	22.05	23.5	0.5
1.4	16QAM	6	0	22.13	22.00	21.94		
1.4	64QAM	1	0	21.87	22.14	21.91		
1.4	64QAM	1	3	21.72	21.86	21.95	23.5	0.5
1.4	64QAM	1	5	21.96	22.03	21.93		
1.4	64QAM	3	0	21.69	21.96	21.74		
1.4	64QAM	3	1	21.69	21.68	21.88	22.5	1.5
1.4	64QAM	3	3	21.94	22.07	21.98		
1.4	64QAM	6	0	20.80	20.81	20.90		

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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				23780	23790	23800		
Frequency (MHz)				2271	2285	2286		
10	QPSK	1	0	22.71	22.85	22.86	24	0
10	QPSK	1	25	22.77	22.72	22.82		
10	QPSK	1	49	22.64	22.60	22.59	24	0
10	QPSK	25	0	22.63	22.83	22.71		
10	QPSK	25	12	22.82	22.63	22.59	24	0
10	QPSK	25	25	22.67	22.72	22.72		
10	QPSK	50	0	22.59	22.75	22.61	24	0
10	16QAM	1	0	22.65	22.62	22.62		
10	16QAM	1	25	22.64	22.70	22.74	23.5	0.5
10	16QAM	1	49	22.75	22.60	22.63		
10	16QAM	25	0	21.80	22.08	21.98	23.5	0.5
10	16QAM	25	12	22.09	22.06	22.09		
10	16QAM	25	25	22.06	21.96	22.03	23.5	0.5
10	16QAM	50	0	21.93	21.87	21.94		
10	64QAM	1	0	22.00	22.06	21.84	23.5	0.5
10	64QAM	1	25	22.01	21.94	21.99		
10	64QAM	1	49	22.01	21.95	22.15	22.5	1.5
10	64QAM	25	0	20.87	21.09	20.89		
10	64QAM	25	12	20.97	21.14	20.80	22.5	1.5
10	64QAM	25	25	21.01	20.94	21.09		
10	64QAM	50	0	20.88	21.04	21.03		
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.50	22.64	22.47	24	0
5	QPSK	1	12	22.59	22.71	22.49		
5	QPSK	1	24	22.64	22.46	22.56	24	0
5	QPSK	12	0	22.64	22.58	22.68		
5	QPSK	12	7	22.71	22.54	22.60	24	0
5	QPSK	12	13	22.64	22.69	22.62		
5	QPSK	25	0	22.45	22.72	22.42	24	0
5	16QAM	1	0	22.53	22.58	22.55		
5	16QAM	1	12	22.63	22.69	22.71	24	0
5	16QAM	1	24	22.58	22.45	22.65		
5	16QAM	12	0	21.76	21.92	21.84	23.5	0.5
5	16QAM	12	7	21.90	22.00	21.95		
5	16QAM	12	13	21.93	21.90	21.89	23.5	0.5
5	16QAM	25	0	21.88	21.75	21.79		
5	64QAM	1	0	21.99	21.96	21.70	23.5	0.5
5	64QAM	1	12	21.89	21.83	21.89		
5	64QAM	1	24	21.96	21.86	22.13	22.5	1.5
5	64QAM	12	0	20.73	21.02	20.81		
5	64QAM	12	7	20.98	21.02	20.76	22.5	1.5
5	64QAM	12	13	20.89	20.73	20.98		
5	64QAM	25	0	20.67	20.86	20.92		

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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				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	23.30	23.31	23.24	24.5	0
15	QPSK	1	37	23.21	23.15	23.18		
15	QPSK	1	74	23.18	23.13	23.20		
15	QPSK	36	0	23.22	23.29	23.27	24.5	0
15	QPSK	36	20	23.08	23.28	23.19		
15	QPSK	36	39	23.13	23.14	23.16		
15	QPSK	75	0	23.22	23.25	23.19	24.5	0
15	16QAM	1	0	23.16	23.03	23.21		
15	16QAM	1	37	23.23	23.25	23.22		
15	16QAM	1	74	23.16	23.18	23.03	24.5	0
15	16QAM	36	0	22.11	21.97	22.01		
15	16QAM	36	20	22.17	22.04	22.19		
15	16QAM	36	39	22.25	22.20	21.95	23.5	1
15	16QAM	75	0	22.19	21.98	22.02		
15	64QAM	1	0	22.16	22.13	22.01		
15	64QAM	1	37	22.02	22.01	22.12	23.5	1
15	64QAM	1	74	22.19	22.23	22.07		
15	64QAM	36	0	21.09	20.89	21.01		
15	64QAM	36	20	21.05	21.15	21.21	22.5	2
15	64QAM	36	39	21.16	21.10	21.04		
15	64QAM	75	0	21.02	20.90	21.03		
Channel				26740	26865	26990		
Frequency (MHz)				819	831.5	844	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	23.17	23.18	23.11	24.5	0
10	QPSK	1	25	23.20	23.10	23.16		
10	QPSK	1	49	23.09	22.99	23.00		
10	QPSK	25	0	23.11	23.13	23.13	24.5	0
10	QPSK	25	12	22.98	23.10	23.19		
10	QPSK	25	25	22.95	23.08	23.11		
10	QPSK	50	0	23.13	23.17	23.05	24.5	0
10	16QAM	1	0	23.04	22.86	23.01		
10	16QAM	1	25	23.16	23.22	23.12		
10	16QAM	1	49	23.10	23.05	22.84	24.5	0
10	16QAM	25	0	22.08	21.90	21.88		
10	16QAM	25	12	22.11	21.96	22.03		
10	16QAM	25	25	22.06	22.01	21.78	23.5	1
10	16QAM	50	0	22.02	21.95	22.00		
10	64QAM	1	0	22.16	22.04	21.94		
10	64QAM	1	25	21.88	21.94	22.07	23.5	1
10	64QAM	1	49	22.06	22.18	21.91		
10	64QAM	25	0	21.02	20.88	20.82		
10	64QAM	25	12	20.98	21.02	21.18	22.5	2
10	64QAM	25	25	21.15	20.93	21.03		
10	64QAM	50	0	20.87	20.81	20.89		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.24	23.23	23.07	24.5	0
5	QPSK	1	12	23.02	23.05	23.00		
5	QPSK	1	24	23.08	23.10	23.00		
5	QPSK	12	0	23.09	23.12	23.12	24.5	0
5	QPSK	12	7	23.06	23.26	23.01		
5	QPSK	12	13	23.11	23.10	23.08		
5	QPSK	25	0	23.06	23.18	23.16	24.5	0
5	16QAM	1	0	23.06	22.87	23.17		
5	16QAM	1	12	23.07	23.06	23.10		
5	16QAM	1	24	23.01	23.05	22.98	24.5	0
5	16QAM	12	0	22.00	21.84	21.92		
5	16QAM	12	7	22.03	21.92	22.14		
5	16QAM	12	13	22.14	22.02	21.82	23.5	1
5	16QAM	25	0	22.19	21.83	21.97		
5	64QAM	1	0	22.06	21.97	21.82		
5	64QAM	1	12	21.83	21.88	22.02	23.5	1
5	64QAM	1	24	22.01	22.19	22.05		
5	64QAM	12	0	21.04	20.82	21.10		
5	64QAM	12	7	20.92	21.13	21.09	22.5	2
5	64QAM	12	13	20.99	21.05	20.89		
5	64QAM	25	0	20.82	20.75	20.84		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	23.29	23.29	23.11	24.5	0
3	QPSK	1	8	23.08	23.08	23.15		
3	QPSK	1	14	23.02	23.13	23.13		
3	QPSK	8	0	23.12	23.13	23.25	24.5	0
3	QPSK	8	4	22.93	23.19	23.16		
3	QPSK	8	7	23.02	23.12	23.07		
3	QPSK	15	0	23.19	23.20	23.04	24.5	0
3	16QAM	1	0	23.08	22.93	23.19		
3	16QAM	1	8	23.06	23.13	23.12		
3	16QAM	1	14	23.09	23.14	22.97	23.5	1
3	16QAM	8	0	22.11	21.89	21.96		
3	16QAM	8	4	22.16	21.89	22.19		
3	16QAM	8	7	22.20	22.06	21.88	23.5	1
3	16QAM	15	0	22.07	21.94	21.98		
3	64QAM	1	0	22.05	22.11	21.90		
3	64QAM	1	8	22.01	21.94	21.99	23.5	1
3	64QAM	1	14	22.18	22.20	22.07		
3	64QAM	8	0	20.96	20.83	20.82		
3	64QAM	8	4	20.94	20.96	21.16	22.5	2
3	64QAM	8	7	21.07	20.96	21.03		
3	64QAM	15	0	20.87	20.81	20.96		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	23.28	23.24	23.14	24.5	0
1.4	QPSK	1	3	23.23	23.07	23.07		
1.4	QPSK	1	5	23.00	23.12	23.17		
1.4	QPSK	3	0	23.30	23.13	23.19	24.5	0
1.4	QPSK	3	1	23.02	23.06	23.16		
1.4	QPSK	3	3	23.13	23.13	23.07		
1.4	QPSK	6	0	23.08	23.20	23.09	24.5	0
1.4	16QAM	1	0	23.01	23.17	23.13		
1.4	16QAM	1	3	23.12	22.96	23.07		
1.4	16QAM	1	5	23.06	23.06	23.18	24.5	0
1.4	16QAM	3	0	22.97	22.86	23.12		
1.4	16QAM	3	1	23.14	23.18	23.20		
1.4	16QAM	3	3	23.09	23.09	23.01	23.5	1
1.4	16QAM	6	0	22.03	21.85	21.95		
1.4	16QAM	1	0	22.03	22.00	22.16		
1.4	64QAM	1	3	22.10	22.18	21.95	23.5	1
1.4	64QAM	1	5	22.12	21.82	21.92		
1.4	64QAM	3	0	21.99	22.09	21.90		
1.4	64QAM	3	1	21.83	21.89	22.01	22.5	2
1.4	64QAM	3	3	22.00	22.23	22.00		
1.4	64QAM	6	0	21.01	20.81	20.84		

Band 38 Ant1 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	18.19	18.23	18.20	19.5	0	
20	QPSK	1	49	18.19	18.09	18.07			
20	QPSK	1	99	17.95	18.12	18.17			
20	QPSK	50	0	18.13	18.22	18.10	19.5	0	
20	QPSK	50	24	18.16	18.14	18.18			
20	QPSK	50	50	17.92	18.16	18.05			
20	QPSK	100	0	18.10	18.21	18.07	19.5	0	
20	16QAM	1	0	18.12	18.14	18.08			
20	16QAM	1	49	18.16	18.19	18.18			
20	16QAM	1	99	18.09	18.13	17.97	19.5	0	
20	16QAM	50	0	17.92	18.08	18.18			
20	16QAM	50	24	18.05	18.15	18.15			
20	16QAM	100	0	17.95	18.01	18.16	19.5	0	
20	64QAM	1	0	18.17	18.13	18.11			
20	64QAM	1	49	18.17	18.13	17.99			
20	64QAM	1	99	18.20	18.15	18.19	19.5	0	
20	64QAM	50	0	17.98	18.16	18.12			
20	64QAM	50	24	18.20	17.99	18.05			
20	64QAM	100	0	18.06	17.99	17.99	19.5	0	
20	64QAM	100	0	18.08	18.15	18.13			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	17.73	17.80	17.64	19.5	0	
15	QPSK	1	37	17.76	17.63	17.65			
15	QPSK	1	74	17.59	17.73	17.73			
15	QPSK	36	0	17.75	17.73	17.63	19.5	0	
15	QPSK	36	20	17.80	17.75	17.75			
15	QPSK	36	39	17.78	17.63	17.73			
15	QPSK	75	0	17.67	17.79	17.71	19.5	0	
15	16QAM	1	0	17.79	17.70	17.69			
15	16QAM	1	37	17.73	17.79	17.81			
15	16QAM	1	74	17.69	17.65	17.51	19.5	0	
15	16QAM	36	0	17.50	17.65	17.61			
15	16QAM	36	20	17.59	17.71	17.76			
15	16QAM	36	39	17.52	17.80	17.71	19.5	0	
15	16QAM	75	0	17.76	17.64	17.78			
15	64QAM	1	0	17.79	17.81	17.76			
15	64QAM	1	37	17.70	17.81	17.55	19.5	0	
15	64QAM	1	74	17.73	17.77	17.72			
15	64QAM	36	0	17.58	17.73	17.69			
15	64QAM	36	20	17.74	17.80	17.50	19.5	0	
15	64QAM	36	39	17.73	17.67	17.80			
15	64QAM	75	0	17.76	17.76	17.81			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	17.79	17.78	17.53	19.5	0	
10	QPSK	1	25	17.74	17.67	17.64			
10	QPSK	1	49	17.60	17.64	17.74			
10	QPSK	25	0	17.71	17.55	17.75	19.5	0	
10	QPSK	25	12	17.71	17.75	17.70			
10	QPSK	25	25	17.73	17.63	17.57			
10	QPSK	50	0	17.72	17.80	17.64	19.5	0	
10	16QAM	1	0	17.71	17.68	17.76			
10	16QAM	1	25	17.74	17.71	17.80			
10	16QAM	1	49	17.66	17.76	17.58	19.5	0	
10	16QAM	25	0	17.80	17.76	17.74			
10	16QAM	25	12	17.74	17.81	17.80			
10	16QAM	25	25	17.51	17.72	17.71	19.5	0	
10	16QAM	50	0	17.73	17.55	17.79			
10	64QAM	1	0	17.76	17.65	17.68			
10	64QAM	1	25	17.79	17.73	17.65	19.5	0	
10	64QAM	1	49	17.55	17.66	17.80			
10	64QAM	25	0	17.80	17.80	17.80			
10	64QAM	25	12	17.74	17.80	17.62	19.5	0	
10	64QAM	25	25	17.81	17.81	17.56			
10	64QAM	50	0	17.75	17.71	17.67			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2612.5	2595	2617.5			
5	QPSK	1	0	17.77	17.79	17.60	19.5	0	
5	QPSK	1	12	17.73	17.78	17.67			
5	QPSK	1	24	17.53	17.72	17.81			
5	QPSK	12	0	17.81	17.74	17.74	19.5	0	
5	QPSK	12	7	17.69	17.77	17.79			
5	QPSK	12	13	17.66	17.52	17.72			
5	QPSK	25	0	17.61	17.53	17.61	19.5	0	
5	16QAM	1	0	17.64	17.81	17.65			
5	16QAM	1	12	17.74	17.71	17.80			
5	16QAM	1	24	17.70	17.70	17.62	19.5	0	
5	16QAM	12	0	17.52	17.70	17.75			
5	16QAM	12	7	17.72	17.67	17.74			
5	16QAM	12	13	17.80	17.76	17.71	19.5	0	
5	16QAM	25	0	17.80	17.60	17.74			
5	64QAM	1	0	17.81	17.66	17.73			
5	64QAM	1	12	17.75	17.66	17.55	19.5	0	
5	64QAM	1	24	17.74	17.74	17.79			
5	64QAM	12	0	17.65	17.81	17.75			
5	64QAM	12	7	17.72	17.80	17.69	19.5	0	
5	64QAM	12	13	17.80	17.76	17.80			
5	64QAM	25	0	17.73	17.77	17.78			

Band 41 Ant1 DSI4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.33	18.30	18.38	18.28	18.31	19.5	0
20	QPSK	1	49	18.05	18.04	18.28	18.16	18.06		
20	QPSK	1	99	18.09	18.20	18.28	18.15	18.13		
20	QPSK	50	0	18.27	18.31	18.35	18.32	18.26	19.5	0
20	QPSK	50	24	18.29	17.96	18.25	18.17	18.00		
20	QPSK	50	50	18.06	18.02	18.12	18.02	18.13		
20	QPSK	100	0	18.23	18.21	18.31	18.25	18.30	19.5	0
20	16QAM	1	0	18.37	18.20	18.24	18.11	18.19		
20	16QAM	1	49	18.35	18.00	18.23	18.05	18.24		
20	16QAM	1	99	18.19	18.02	18.29	18.09	18.12	19.5	0
20	16QAM	50	0	18.11	18.16	18.24	18.03	18.15		
20	16QAM	50	24	18.21	18.22	18.14	18.10	17.98		
20	16QAM	50	50	17.99	18.21	18.26	18.28	18.17	19.5	0
20	16QAM	100	0	18.12	18.26	18.31	17.92	18.00		
20	64QAM	1	0	18.11	18.31	18.18	18.17	18.02		
20	64QAM	1	49	18.21	18.16	18.27	18.04	18.19	19.5	0
20	64QAM	1	99	18.04	18.26	18.24	18.21	18.10		
20	64QAM	50	0	18.27	17.95	18.15	18.07	18.00		
20	64QAM	50	24	18.14	18.02	18.11	18.23	18.23	19.5	0
20	64QAM	50	50	18.13	18.17	18.24	18.00	18.24		
20	64QAM	100	0	18.25	18.18	18.26	18.15	18.04		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.50	17.62	17.82	17.52	17.62	19.50	0
15	QPSK	1	37	17.57	17.55	17.57	17.76	17.59		
15	QPSK	1	74	17.61	17.63	17.68	17.73	17.52		
15	QPSK	36	0	17.50	17.65	17.50	17.61	17.59	19.5	0
15	QPSK	36	20	17.58	17.57	17.75	17.60	17.70		
15	QPSK	36	39	17.61	17.66	17.74	17.77	17.81		
15	QPSK	75	0	17.63	17.74	17.72	17.73	17.58	19.5	0
15	16QAM	1	0	17.68	17.55	17.75	17.62	17.55		
15	16QAM	1	37	17.67	17.52	17.68	17.66	17.71		
15	16QAM	1	74	17.67	17.64	17.73	17.79	17.50	19.5	0
15	16QAM	36	0	17.50	17.68	17.50	17.61	17.65		
15	16QAM	36	20	17.66	17.66	17.77	17.77	17.52		
15	16QAM	36	39	17.55	17.70	17.68	17.73	17.50	19.5	0
15	16QAM	75	0	17.67	17.56	17.66	17.54	17.71		
15	64QAM	1	0	17.59	17.74	17.73	17.73	17.71		
15	64QAM	1	37	17.64	17.54	17.65	17.68	17.53	19.5	0
15	64QAM	1	74	17.62	17.62	17.77	17.81	17.65		
15	64QAM	36	0	17.64	17.62	17.62	17.76	17.55		
15	64QAM	36	20	17.64	17.65	17.57	17.69	17.73	19.5	0
15	64QAM	36	39	17.61	17.65	17.70	17.67	17.54		
15	64QAM	75	0	17.55	17.64	17.66	17.76	17.66		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.58	17.74	17.72	17.64	17.67	19.50	0
10	QPSK	1	49	17.64	17.69	17.70	17.70	17.52		
10	QPSK	1	49	17.54	17.74	17.73	17.83	17.68		
10	QPSK	25	0	17.54	17.61	17.63	17.58	17.62	19.5	0
10	QPSK	25	12	17.52	17.77	17.62	17.68	17.53		
10	QPSK	25	25	17.52	17.62	17.67	17.79	17.53		
10	QPSK	50	0	17.58	17.58	17.70	17.55	17.61	19.5	0
10	16QAM	1	0	17.66	17.77	17.69	17.73	17.59		
10	16QAM	1	25	17.57	17.61	17.72	17.75	17.50		
10	16QAM	1	49	17.69	17.75	17.72	17.80	17.62	19.5	0
10	16QAM	25	0	17.67	17.56	17.67	17.67	17.54		
10	16QAM	25	12	17.69	17.73	17.61	17.64	17.72		
10	16QAM	25	25	17.55	17.71	17.72	17.77	17.55	19.5	0
10	16QAM	50	0	17.62	17.58	17.74	17.70	17.53		
10	64QAM	1	0	17.68	17.74	17.69	17.77	17.54		
10	64QAM	1	25	17.51	17.58	17.62	17.59	17.62	19.5	0
10	64QAM	1	49	17.53	17.66	17.78	17.52	17.61		
10	64QAM	25	0	17.52	17.64	17.71	17.54	17.71		
10	64QAM	25	12	17.69	17.59	17.76	17.60	17.73	19.5	0
10	64QAM	25	25	17.60	17.57	17.68	17.77	17.56		
10	64QAM	50	0	17.65	17.62	17.69	17.56	17.54		
Channel				26975	27413	27860	28303	28745	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				21498.5	22455.8	22993	23640.30	23871.5		
5	QPSK	1	0	17.53	17.54	17.72	17.64	17.67	19.50	0
5	QPSK	1	12	17.59	17.57	17.67	17.75	17.56		
5	QPSK	1	24	17.58	17.76	17.62	17.83	17.71		
5	QPSK	12	0	17.64	17.73	17.67	17.80	17.51	19.5	0
5	QPSK	12	6	17.64	17.67	17.66	17.82	17.62		
5	QPSK	12	13	17.70	17.70	17.79	17.77	17.56		
5	QPSK	25	0	17.65	17.76	17.63	17.73	17.60	19.5	0
5	16QAM	1	0	17.71	17.70	17.75	17.81	17.56		
5	16QAM	1	12	17.69	17.57	17.52	17.52	17.58		
5	16QAM	1	24	17.58	17.70	17.72	17.80	17.59	19.5	0
5	16QAM	12	0	17.53	17.55	17.74	17.75	17.54		
5	16QAM	12	6	17.74	17.62	17.68	17.82	17.54		
5	16QAM	12	13	17.69	17.56	17.62	17.66	17.70	19.5	0
5	16QAM	25	0	17.58	17.60	17.84	17.70	17.57		
5	64QAM	1	0	17.54	17.61	17.68	17.70	17.73		
5	64QAM	1	12	17.54	17.72	17.70	17.83	17.54	19.5	0
5	64QAM	1	24	17.71	17.54	17.54	17.67	17.66		
5	64QAM	12	0	17.53	17.57	17.84	17.70	17.65		
5	64QAM	12	6	17.63	17.63	17.84	17.83	17.52	19.5	0
5	64QAM	12	13	17.60	17.71	17.72	17.84	17.53		
5	64QAM	25	0	17.59	17.56	17.71	17.82	17.69		

GSM850 Art 2 DS4							
GSM850 TX Channel	Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	128	189	251		128	189	251
Frequency (MHz)	824.2	836.4	848.6	(dBm)	824.2	836.4	848.6
GSM 1 Tx slot	32.26	32.33	32.21	33.50	23.26	23.33	23.21
GPRS 1 Tx slot	32.34	32.38	32.29	33.50	23.34	23.38	23.29
GPRS 2 Tx slots	30.17	30.11	30.02	31.00	24.17	24.11	24.02
GPRS 3 Tx slots	28.40	28.43	28.30	29.50	24.14	24.17	24.04
GPRS 4 Tx slots	26.46	26.44	26.33	27.50	23.46	23.44	23.33
EDGE 1 Tx slot	27.06	27.30	27.39	28.00	18.06	18.30	18.39
EDGE 2 Tx slots	24.55	24.78	24.88	25.50	18.55	18.78	18.88
EDGE 3 Tx slots	22.84	23.03	23.19	24.00	18.58	18.77	18.93
EDGE 4 Tx slots	21.56	21.73	21.93	22.50	18.56	18.73	18.93

GSM1900 Art 2 DS4								
TX Channel	Burst Average Power (dbm)			Turnup Limit	Frame Average Power (dbm)			Turn-up Limit
	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1860	1868.2	(dbm)	1852.2	1860	1868.2	(dbm)
GSM 1 Tx slot	26.20	25.93	26.07	27.00	17.20	16.93	17.07	18.00
GPRS 1 Tx slot	26.16	25.88	25.95	27.00	17.16	16.88	16.95	18.00
GPRS 2 Tx slots	22.69	22.39	22.55	23.50	16.69	16.39	16.55	17.50
GPRS 3 Tx slots	21.07	21.11	21.05	22.50	16.61	16.65	16.79	17.50
GPRS 4 Tx slots	19.49	19.28	19.61	20.50	16.49	16.28	16.61	17.50
EDGE 1 Tx slot	26.21	25.92	25.96	27.00	17.21	16.92	16.96	18.00
EDGE 2 Tx slots	23.05	22.70	22.82	23.50	17.05	16.70	16.82	17.50
EDGE 3 Tx slots	21.30	20.91	20.90	22.00	17.04	16.65	16.64	17.50
EDGE 4 Tx slots	19.98	19.92	19.64	20.50	16.98	16.92	16.64	17.50

	WCDMA X Art 2 DSx4							WCDMA IV Art 2 DSx4							WCDMA V Art 2 DSx4						
	Band	WCDMA X			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)								
		TX Channel	9262	9400		9538	TX Channel	1312		1413	1513	TX Channel		4132	4192	4233					
			RX Channel	9662		9600		9638		RX Channel	1537			1638	1738	RX Channel	4367	4407	4458		
	Frequency (MHz)	1852.4	1860	1907.6		1712.4	1722.6	1752.6		826.4	836.4	846.6		826.4	836.4	846.6					
3GPP Rel 99	AMR 12.2Kbps	17.25	17.34	17.29	18.00	18.19	18.23	18.18	18.50	24.56	24.59	24.54	25.50	24.56	24.59	24.54					
3GPP Rel 99	RM-CE 12.2Kbps	17.29	17.38	17.32	18.00	18.24	18.27	18.22	18.50	24.64	24.69	24.63	25.50	24.64	24.69	24.63					
3GPP Rel 6	HS-DSPPA Subtest-1	15.38	15.40	15.35	16.00	16.35	16.34	16.29	16.50	23.56	23.49	23.58	24.50	23.56	23.49	23.58					
3GPP Rel 6	HS-DSPPA Subtest-2	15.26	15.33	15.28	16.00	16.35	16.20	16.13	16.50	23.49	23.38	23.42	24.50	23.49	23.38	23.42					
3GPP Rel 6	HS-DSPPA Subtest-3	14.71	14.80	14.88	16.00	15.88	15.76	15.71	16.50	23.01	22.92	23.04	24.50	23.01	22.92	23.04					
3GPP Rel 6	HS-DSPPA Subtest-4	14.82	14.85	14.82	16.00	15.84	15.71	15.60	16.50	23.03	22.90	22.92	24.50	23.03	22.90	22.92					
3GPP Rel 6	DC-HS-DSPPA Subtest-1	15.33	15.48	15.35	16.00	16.28	16.28	16.18	16.50	23.45	23.39	23.48	25.00	23.45	23.39	23.48					
3GPP Rel 6	DC-HS-DSPPA Subtest-2	15.37	15.28	15.36	16.00	16.44	16.08	16.10	16.50	23.51	23.40	23.52	25.00	23.51	23.40	23.52					
3GPP Rel 6	DC-HS-DSPPA Subtest-3	14.75	14.80	14.81	16.00	15.86	15.87	15.67	16.50	22.97	22.87	22.85	24.50	22.97	22.87	22.85					
3GPP Rel 6	DC-HS-DSPPA Subtest-4	14.63	14.68	14.62	16.00	15.87	15.65	15.64	16.50	23.01	22.93	22.91	24.50	23.01	22.93	22.91					
3GPP Rel 6	HS-UPA Subtest-1	15.25	15.37	15.20	16.00	16.29	16.37	16.22	16.50	21.52	21.43	21.49	23.00	21.52	21.43	21.49					
3GPP Rel 6	HS-UPA Subtest-2	13.32	13.37	13.39	15.00	14.38	14.45	14.39	16.50	21.49	21.43	21.40	23.00	21.49	21.43	21.40					
3GPP Rel 6	HS-UPA Subtest-3	14.36	14.43	14.41	16.00	15.30	15.42	15.38	16.50	22.55	22.58	22.46	24.00	22.55	22.58	22.46					
3GPP Rel 6	HS-UPA Subtest-4	13.35	13.42	13.42	15.00	14.34	14.44	14.37	16.50	20.56	20.59	20.56	22.50	20.56	20.59	20.56					
3GPP Rel 6	HS-UPA Subtest-5	15.28	15.38	15.27	16.00	16.28	16.35	16.31	16.50	22.37	22.37	22.37	24.00	22.37	22.37	22.37					

Band 2 Ant2 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.70	16.84	16.82	18	0		
20	QPSK	1	49	16.74	16.74	16.83				
20	QPSK	1	99	16.61	16.54	16.56				
20	QPSK	50	0	16.62	16.80	16.50				
20	QPSK	50	24	16.51	16.62	16.77	18	0		
20	QPSK	50	50	16.45	16.58	16.75				
20	QPSK	100	0	16.50	16.64	16.60				
20	16QAM	1	0	16.51	16.71	16.78				
20	16QAM	1	49	16.70	16.86	16.83	18	0		
20	16QAM	1	99	16.58	16.77	16.84				
20	16QAM	50	0	16.70	16.50	16.45				
20	16QAM	50	24	16.59	16.81	16.66				
20	16QAM	50	50	16.49	16.74	16.81	18	0		
20	16QAM	100	0	16.53	16.86	16.57				
20	64QAM	1	0	16.60	16.62	16.58				
20	64QAM	1	49	16.65	16.70	16.65				
20	64QAM	1	99	16.67	16.70	16.55	18	0		
20	64QAM	50	0	16.74	16.76	16.53				
20	64QAM	50	24	16.57	16.73	16.77				
20	64QAM	50	50	16.57	16.79	16.69				
20	64QAM	100	0	16.53	16.91	16.65	18	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.57	16.80	19.125	18	0		
15	QPSK	1	37	16.55	16.72	16.69				
15	QPSK	1	74	16.54	16.41	16.44				
15	QPSK	36	0	16.56	16.62	16.33				
15	QPSK	36	20	16.43	16.49	16.66	18	0		
15	QPSK	36	39	16.34	16.50	16.56				
15	QPSK	75	0	16.50	16.52	16.62				
15	16QAM	1	0	16.41	16.57	16.57				
15	16QAM	1	37	16.68	16.68	16.60	18	0		
15	16QAM	1	74	16.39	16.59	16.85				
15	16QAM	36	0	16.72	16.29	16.43				
15	16QAM	36	20	16.44	16.67	16.61				
15	16QAM	36	39	16.27	16.74	16.89	18	0		
15	16QAM	75	0	16.44	16.70	16.46				
15	64QAM	1	0	16.61	16.49	16.37				
15	64QAM	1	37	16.51	16.50	16.53				
15	64QAM	1	74	16.62	16.61	16.42	18	0		
15	64QAM	36	0	16.68	16.68	16.33				
15	64QAM	36	20	16.38	16.53	16.74				
15	64QAM	36	39	16.52	16.73	16.49				
15	64QAM	75	0	16.50	16.89	16.61	18	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.61	16.74	16.83	18	0		
10	QPSK	1	25	16.56	16.56	16.65				
10	QPSK	1	49	16.58	16.54	16.43				
10	QPSK	25	0	16.46	16.70	16.47				
10	QPSK	25	12	16.52	16.61	16.77	18	0		
10	QPSK	25	25	16.36	16.38	16.53				
10	QPSK	50	0	16.34	16.43	16.51				
10	16QAM	1	0	16.47	16.61	16.62				
10	16QAM	1	25	16.74	16.76	16.46	18	0		
10	16QAM	1	49	16.42	16.55	16.84				
10	16QAM	25	0	16.63	16.52	16.34				
10	16QAM	25	12	16.55	16.60	16.58				
10	16QAM	25	25	16.46	16.74	16.75	18	0		
10	16QAM	50	0	16.47	16.73	16.37				
10	64QAM	1	0	16.61	16.49	16.51				
10	64QAM	1	25	16.46	16.59	16.55				
10	64QAM	1	49	16.68	16.60	16.48	18	0		
10	64QAM	25	0	16.59	16.74	16.43				
10	64QAM	25	12	16.55	16.69	16.58				
10	64QAM	25	25	16.53	16.64	16.61				
10	64QAM	50	0	16.36	16.83	16.43	18	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.50	16.76	16.78	18	0		
5	QPSK	1	12	16.57	16.61	16.71				
5	QPSK	1	24	16.53	16.40	16.48				
5	QPSK	12	0	16.63	16.72	16.38				
5	QPSK	12	7	16.40	16.44	16.55	18	0		
5	QPSK	12	13	16.39	16.40	16.55				
5	QPSK	25	0	16.37	16.42	16.58				
5	16QAM	1	0	16.38	16.59	16.73				
5	16QAM	1	12	16.55	16.73	16.44	18	0		
5	16QAM	1	24	16.51	16.68	16.62				
5	16QAM	12	0	16.59	16.45	16.45				
5	16QAM	12	7	16.56	16.72	16.68				
5	16QAM	12	13	16.36	16.67	16.62	18	0		
5	16QAM	25	0	16.32	16.76	16.52				
5	64QAM	1	0	16.39	16.50	16.58				
5	64QAM	1	12	16.59	16.60	16.48				
5	64QAM	1	24	16.59	16.60	16.42	18	0		
5	64QAM	12	0	16.66	16.77	16.54				
5	64QAM	12	7	16.53	16.53	16.56				
5	64QAM	12	13	16.55	16.61	16.50				
5	64QAM	25	0	16.35	16.77	16.67	18	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.59	16.82	16.82	18	0		
3	QPSK	1	8	16.76	16.54	16.75				
3	QPSK	1	14	16.51	16.44	16.54				
3	QPSK	8	0	16.64	16.70	16.29				
3	QPSK	8	4	16.31	16.53	16.57	18	0		
3	QPSK	8	7	16.44	16.55	16.62				
3	QPSK	15	0	16.46	16.57	16.39				
3	16QAM	1	0	16.35	16.51	16.63				
3	16QAM	1	8	16.78	16.66	16.43	18	0		
3	16QAM	1	14	16.58	16.70	16.84				
3	16QAM	8	0	16.67	16.30	16.36				
3	16QAM	8	4	16.42	16.72	16.67				
3	16QAM	8	7	16.31	16.59	16.75	18	0		
3	16QAM	15	0	16.34	16.83	16.40				
3	64QAM	1	0	16.45	16.49	16.41				
3	64QAM	1	8	16.51	16.70	16.51				
3	64QAM	1	14	16.65	16.52	16.35	18	0		
3	64QAM	8	0	16.62	16.56	16.36				
3	64QAM	8	4	16.49	16.64	16.70				
3	64QAM	8	7	16.39	16.76	16.55				
3	64QAM	15	0	16.50	16.82	16.44	18	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.64	16.73	16.62	18	0		
1.4	QPSK	1	3	16.56	16.60	16.64				
1.4	QPSK	1	5	16.57	16.33	16.57				
1.4	QPSK	3	0	16.53	16.58	16.37				
1.4	QPSK	3	1	16.32	16.58	16.73	18	0		
1.4	QPSK	3	3	16.46	16.36	16.55				
1.4	QPSK	6	0	16.42	16.61	16.40				
1.4	16QAM	1	0	16.52	16.54	16.73				
1.4	16QAM	1	3	16.54	16.81	16.52	18	0		
1.4	16QAM	1	5	16.57	16.71	16.82				
1.4	16QAM	3	0	16.69	16.46	16.41				
1.4	16QAM	3	1	16.52	16.68	16.59				
1.4	16QAM	3	3	16.29	16.69	16.78	18	0		
1.4	16QAM	6	0	16.41	16.85	16.45				
1.4	64QAM	1	0	16.48	16.54	16.54				
1.4	64QAM	1	3	16.64	16.54	16.47				
1.4	64QAM	1	5	16.54	16.68	16.57	18	0		
1.4	64QAM	3	0	16.64	16.63	16.35				
1.4	64QAM	3	1	16.52	16.54	16.77				
1.4	64QAM	3	3	16.37	16.70	16.58				
1.4	64QAM	6	0	16.51	16.84	16.66	18	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.64	16.73	16.62	18	0		
1.4	QPSK	1	3	16.56	16.60	16.64				
1.4	QPSK	1	5	16.57	16.33	16.57				
1.4	QPSK	3	0	16.53	16.58	16.37				
1.4	QPSK	3	1	16.32	16.58	16.73	18	0		
1.4	QPSK	3	3	16.46	16.36	16.55				
1.4	QPSK	6	0	16.42	16.61	16.40				
1.4	16QAM	1	0	16.52	16.54	16.73				
1.4	16QAM	1	3	16.54	16.81	16.52	18	0		
1.4	16QAM	1	5	16.57	16.71	16.82				
1.4	16QAM	3	0	16.69	16.46	16.41				
1.4	16QAM	3	1	16.52	16.68	16.59				
1.4	16QAM	3	3	16.29	16.69	16.78	18	0		
1.4	16QAM	6	0	16.41	16.85	16.45				
1.4	64QAM	1	0	16.48	16.54	16.54				
1.4	64QAM	1	3	16.64	16.54	16.47				
1.4	64QAM	1	5	16.54	16.68	16.57	18	0		
1.4	64QAM	3	0	16.64	16.63	16.35				
1.4	64QAM	3	1	16.52	16.54	16.77				
1.4	64QAM	3	3	16.37	16.70	16.58				
1.4	64QAM	6	0	16.51	16.84	16.66	18	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.64	16.73	16.62	18	0		
1.4	QPSK	1	3	16.56	16.60	16.64				
1.4	QPSK	1	5	16.57	16.33	16.57				
1.4	QPSK	3	0	16.53	16.58	16.37				
1.4	QPSK	3	1	16.32	16.58	16.73	18	0		
1.4	QPSK	3	3	16.46	16.36	16.55				
1.4	QPSK	6	0	16.42	16.61	16.40				
1.4	16QAM	1	0	16.52	16.54	16.73				
1.4	16QAM	1	3	16.54	16.81	16.52	18	0		
1.4	16QAM	1	5	16.57	16.71	16.82				
1.4	16QAM	3	0	16.69	16.46	16.41				
1.4	16QAM	3	1	16.52	16.68	16.59				
1.4	16QAM	3	3	16.29	16.69	16.78	18	0		
1.4	16QAM	6	0	16.41	16.85	16.45				
1.4	64QAM	1	0	16.48	16.54	16.54				
1.4	64QAM	1	3	16.64	16.54	16.47				
1.4	64QAM	1	5	16.54	16.68	16.57	18	0		
1.4	64QAM	3	0	16.64	16.63	16.35				
1.4	64QAM	3	1	16.52	16.54	16.77				
1.4	64QAM	3	3	16.37	16.70	16.58				
1.4	64QAM	6	0	16.51	16.84	16.66	18	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.64	16.73	16.62	18	0		
1.4	QPSK	1	3	16.56	16.60	16.64				
1.4	QPSK	1	5	16.57	16.33	16.57				
1.4	QPSK	3	0	16.53	16.58	16.37				
1.4	QPSK	3	1	16.32	16.58	16.73	18	0		
1.4	QPSK	3	3	16.46	16.36	16.55				
1.4	QPSK	6	0	16.42	16.61	16.40				
1.4	16QAM	1	0	16.52	16.54	16.73				
1.4	16QAM	1	3	16.54	16.81	16.52	18	0		
1.4	16QAM									



Band 7 Ant2 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20950	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.57	17.67	17.74		
20	QPSK	1	49	17.81	17.71	17.87	19	0
20	QPSK	1	99	17.68	17.78	17.65		
20	QPSK	50	0	17.50	17.88	17.53		
20	QPSK	50	24	17.77	17.53	17.84	19	0
20	QPSK	50	50	17.55	17.59	17.63		
20	QPSK	100	0	17.39	17.64	17.74		
20	16QAM	1	0	17.81	17.69	17.69		
20	16QAM	1	49	17.63	17.68	17.57	19	0
20	16QAM	1	99	17.57	17.65	17.66		
20	16QAM	50	0	17.72	17.67	17.77		
20	16QAM	50	24	17.58	17.76	17.52		
20	16QAM	50	50	17.56	17.80	17.67	19	0
20	16QAM	100	0	17.61	17.58	17.70		
20	64QAM	1	0	17.43	17.91	17.62		
20	64QAM	1	49	17.77	17.65	17.85	19	0
20	64QAM	1	99	17.52	17.73	17.47		
20	64QAM	50	0	17.44	17.78	17.58		
20	64QAM	50	24	17.57	17.77	17.54	19	0
20	64QAM	50	50	17.75	17.59	17.84		
20	64QAM	100	0	17.45	17.67	17.51		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.54	17.76	17.54		
15	QPSK	1	37	17.70	17.54	17.67	19	0
15	QPSK	1	74	17.50	17.73	17.60		
15	QPSK	36	0	17.34	17.61	17.44		
15	QPSK	36	20	17.79	17.45	17.63	19	0
15	QPSK	36	39	17.50	17.44	17.44		
15	QPSK	75	0	17.19	17.69	17.64		
15	16QAM	1	0	17.64	17.55	17.50		
15	16QAM	1	37	17.60	17.67	17.54	19	0
15	16QAM	1	74	17.41	17.78	17.54		
15	16QAM	36	0	17.55	17.61	17.65		
15	16QAM	36	20	17.51	17.65	17.33	19	0
15	16QAM	36	39	17.38	17.58	17.58		
15	16QAM	75	0	17.40	17.49	17.55		
15	64QAM	1	0	17.42	17.73	17.56		
15	64QAM	1	37	17.78	17.57	17.65	19	0
15	64QAM	1	74	17.45	17.69	17.43		
15	64QAM	36	0	17.45	17.80	17.39		
15	64QAM	36	20	17.74	17.40	17.65	19	0
15	64QAM	36	39	17.39	17.52	17.41		
15	64QAM	75	0	17.35	17.60	17.50		
Channel				20900	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.40	17.85	17.85		
10	QPSK	1	25	17.82	17.61	17.74	19	0
10	QPSK	1	49	17.58	17.59	17.52		
10	QPSK	25	0	17.51	17.71	17.42		
10	QPSK	25	12	17.67	17.32	17.63	19	0
10	QPSK	25	25	17.35	17.48	17.51		
10	QPSK	50	0	17.65	17.63	17.59		
10	16QAM	1	0	17.65	17.59	17.68		
10	16QAM	1	25	17.58	17.63	17.43	19	0
10	16QAM	1	49	17.56	17.85	17.45		
10	16QAM	25	0	17.58	17.66	17.72		
10	16QAM	25	12	17.40	17.69	17.50	19	0
10	16QAM	25	25	17.56	17.62	17.67		
10	16QAM	50	0	17.57	17.43	17.63		
10	64QAM	1	0	17.44	17.85	17.63	19	0
10	64QAM	1	25	17.74	17.56	17.61		
10	64QAM	1	49	17.54	17.55	17.36		
10	64QAM	25	0	17.43	17.75	17.48		
10	64QAM	25	12	17.59	17.39	17.77	19	0
10	64QAM	25	25	17.35	17.56	17.52		
10	64QAM	50	0	17.46	17.59	17.44		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.37	17.85	17.75		
5	QPSK	1	12	17.68	17.71	17.84	19	0
5	QPSK	1	24	17.65	17.61	17.56		
5	QPSK	12	0	17.49	17.84	17.49		
5	QPSK	12	7	17.68	17.44	17.84	19	0
5	QPSK	12	13	17.36	17.50	17.46		
5	QPSK	25	0	17.19	17.67	17.64		
5	16QAM	1	0	17.69	17.57	17.51		
5	16QAM	1	12	17.46	17.52	17.52	19	0
5	16QAM	1	24	17.49	17.82	17.59		
5	16QAM	12	0	17.68	17.50	17.78		
5	16QAM	12	7	17.36	17.60	17.46	19	0
5	16QAM	12	13	17.43	17.70	17.59		
5	16QAM	25	0	17.63	17.55	17.59		
5	64QAM	1	0	17.30	17.69	17.48		
5	64QAM	1	12	17.63	17.51	17.72	19	0
5	64QAM	1	24	17.37	17.40	17.52		
5	64QAM	12	0	17.32	17.59	17.40		
5	64QAM	12	7	17.45	17.62	17.55	19	0
5	64QAM	12	13	17.70	17.42	17.69		
5	64QAM	25	0	17.28	17.55	17.41		

Band 12 Ant2 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.34	24.53	24.34		
10	QPSK	1	25	24.49	24.47	24.44	25.5	0
10	QPSK	1	49	24.47	24.45	24.35		
10	QPSK	25	0	23.35	23.58	23.30		
10	QPSK	25	12	23.52	23.47	23.49	24.5	1
10	QPSK	25	25	23.51	23.36	23.39		
10	QPSK	50	0	23.35	23.46	23.38		
10	16QAM	1	0	23.56	23.59	23.61		
10	16QAM	1	25	23.74	23.71	23.68	24.5	1
10	16QAM	1	49	23.70	23.70	23.66		
10	16QAM	25	0	22.32	22.37	22.26		
10	16QAM	25	12	22.49	22.45	22.44		
10	16QAM	25	25	22.53	22.44	22.33	23.5	2
10	16QAM	50	0	22.45	22.38	22.35		
10	64QAM	1	0	22.48	22.48	22.50		
10	64QAM	1	25	22.63	22.61	22.57	23.5	2
10	64QAM	1	49	22.61	22.62	22.56		
10	64QAM	25	0	21.29	21.34	21.23		
10	64QAM	25	12	21.46	21.43	21.44		
10	64QAM	25	25	21.46	21.44	21.33	22.5	3
10	64QAM	50	0	21.44	21.37	21.32		
Channel				23035	23095	23155		
Frequency (MHz)				707.5	707.5	713.5		
5	QPSK	1	0	24.28	24.40	24.19		
5	QPSK	1	12	24.40	24.40	24.29	25.5	0
5	QPSK	1	24	24.45	24.17	24.28		
5	QPSK	12	0	23.26	23.37	23.20		
5	QPSK	12	7	23.48	23.49	23.34	24.5	1
5	QPSK	12	13	23.47	23.36	23.26		
5	QPSK	25	0	23.37	23.29	23.22		
5	16QAM	1	0	23.57	23.57	23.41		
5	16QAM	1	12	23.69	23.52	23.47	24.5	1
5	16QAM	1	24	23.51	23.69	23.61		
5	16QAM	12	0	22.12	22.30	22.28		
5	16QAM	12	7	22.34	22.45	22.40	23.5	2
5	16QAM	12	13	22.33	22.35	22.14		
5	16QAM	25	0	22.28	22.28	22.15		
5	64QAM	1	0	22.32	22.42	22.45		
5	64QAM	1	12	22.55	22.58	22.57	23.5	2
5	64QAM	1	24	22.48	22.53	22.52		
5	64QAM	12	0	21.15	21.21	21.06		
5	64QAM	12	7	21.43	21.35	21.45	22.5	3
5	64QAM	12	13	21.33	21.22	21.29		
5	64QAM	25	0	21.36	21.35	21.24		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.28	24.38	24.25		
3	QPSK	1	8	24.33	24.21	24.19	25.5	0
3	QPSK	1	14	24.38	24.31	24.12		
3	QPSK	8	0	23.20	23.51	23.27		
3	QPSK	8	4	23.36	23.32	23.29	24.5	1
3	QPSK	8	7	23.38	23.24	23.15		
3	QPSK	15	0	23.26	23.36	23.20		
3	16QAM	1	0	23.49	23.36	23.41		
3	16QAM	1	8	23.68	23.52	23.63	24.5	1
3	16QAM	1	14	23.65	23.49	23.47		
3	16QAM	8	0	22.23	22.17	22.20		
3	16QAM	8	4	22.37	22.40	22.32	23.5	2
3	16QAM	8	7	22.41	22.24	22.13		
3	16QAM	15	0	22.36	22.30	22.25		
3	64QAM	1	0	22.38	22.40	22.32	23.5	2
3	64QAM	1	8	22.57	22.43	22.34		
3	64QAM	1	14	22.44	22.38	22.41		
3	64QAM	8	0	21.23	21.25	21.19		
3	64QAM	8	4	21.33	21.16	21.24	22.5	3
3	64QAM	8	7	21.23	21.40	21.16		
3	64QAM	15	0	21.22	21.34	21.07		
Channel				23017	23095	23173		
Frequency (MHz)				699.7	707.5	715.3 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	24.24	24.28	24.15		
1.4	QPSK	1	3	24.30	24.19	24.19		
1.4	QPSK	1	5	24.27	24.18	24.29	25.5	0
1.4	QPSK	3	0	24.06	24.14	24.13		
1.4	QPSK	3	1	24.22	24.06	24.04		
1.4	QPSK	3	3	24.08	24.15	24.22		
1.4	QPSK	6	0	23.12	23.20	23.17	24.5	1
1.4	16QAM	1	0	23.41	23.50	23.46		
1.4	16QAM	1	3	23.48	23.50	23.54		
1.4	16QAM	1	5	23.59	23.52	23.50	24.5	1
1.4	16QAM	3	0	23.31	23.39	23.30		
1.4	16QAM	3	1	23.35	23.45	23.44		
1.4	16QAM	3	3	23.51	23.43	23.31		
1.4	16QAM	6	0	22.23	22.28	22.26	23.5	2
1.4	64QAM	1	0	22.19	22.21	22.20		
1.4	64QAM	1	3	22.37	22.31	22.32		
1.4	64QAM	1	5	22.30	22.50	22.42	23.5	2
1.4	64QAM	3	0	22.28	22.31	22.14		
1.4	64QAM	3	1	22.21	22.24	22.18		
1.4	64QAM	3	3	22.15	22.15	22.14		
1.4	64QAM	6	0	21.17	22.21	21.05	22.5	3

Band 17 Ant2 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.28	24.43	24.28	25.5	0	
10	QPSK	1	25	24.40	24.39	24.41			
10	QPSK	1	49	24.42	24.39	24.42			
10	QPSK	25	0	23.20	23.44	23.25			
10	QPSK	25	12	23.24	23.40	23.42	24.5	1	
10	QPSK	25	25	23.35	23.34	23.36			
10	QPSK	50	0	23.28	23.32	23.30			
10	16QAM	1	0	23.51	23.52	23.54			
10	16QAM	1	25	23.64	23.63	23.64	24.5	1	
10	16QAM	1	49	23.65	23.61	23.65			
10	16QAM	25	0	22.18	22.16	22.19			
10	16QAM	25	12	22.39	22.37	22.38			
10	16QAM	25	25	22.30	22.29	22.29	23.5	2	
10	16QAM	50	0	22.27	22.26	22.27			
10	64QAM	1	0	22.40	22.42	22.43			
10	64QAM	1	25	22.54	22.50	22.54			
10	64QAM	1	49	22.56	22.51	22.56	23.5	2	
10	64QAM	25	0	21.16	21.14	21.20			
10	64QAM	25	12	21.38	21.37	21.39			
10	64QAM	25	25	21.29	21.26	21.28			
10	64QAM	50	0	21.25	21.23	21.24	22.5	3	
Channel				23755	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.02	24.31	24.15	25.5	0	
5	QPSK	1	12	24.21	24.10	24.27			
5	QPSK	1	24	24.12	24.30	23.98			
5	QPSK	12	0	23.01	23.30	22.99			
5	QPSK	12	7	22.94	23.14	23.33	24.5	1	
5	QPSK	12	13	23.05	23.19	23.16			
5	QPSK	25	0	23.03	23.00	23.17			
5	16QAM	1	0	23.20	23.24	23.29			
5	16QAM	1	12	23.53	23.41	23.34	24.5	1	
5	16QAM	1	24	23.55	23.34	23.41			
5	16QAM	12	0	21.89	22.04	22.00			
5	16QAM	12	7	22.24	22.21	22.27			
5	16QAM	12	13	22.12	22.01	21.98	23.5	2	
5	16QAM	25	0	21.97	22.04	22.00			
5	64QAM	1	0	22.26	22.18	22.25			
5	64QAM	1	12	22.23	22.37	22.22			
5	64QAM	1	24	22.26	22.32	22.44	23.5	2	
5	64QAM	12	0	20.86	21.03	20.93			
5	64QAM	12	7	21.09	21.12	21.12			
5	64QAM	12	13	21.01	21.14	21.19			
5	64QAM	25	0	21.15	21.15	20.97	22.5	3	

Band 26 Ant2 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	24.43	24.50	24.45	25.5	0	
15	QPSK	1	37	24.32	24.38	24.26			
15	QPSK	1	74	24.25	24.47	24.31			
15	QPSK	36	0	23.41	23.49	23.40			
15	QPSK	36	20	23.42	23.46	23.28	24.5	1	
15	QPSK	36	39	23.28	23.41	23.29			
15	QPSK	75	0	23.38	23.46	23.42			
15	16QAM	1	0	23.23	23.34	23.28			
15	16QAM	1	37	23.21	23.29	23.16	24.5	1	
15	16QAM	1	74	23.08	23.18	23.11			
15	16QAM	36	0	22.31	22.41	22.36			
15	16QAM	36	20	22.22	22.27	22.19			
15	16QAM	36	39	22.18	22.29	22.16	23.5	2	
15	16QAM	75	0	22.33	22.35	22.36			
15	64QAM	1	0	22.22	22.34	22.12			
15	64QAM	1	37	22.14	22.29	22.28			
15	64QAM	1	74	22.08	22.21	22.24	23.5	2	
15	64QAM	36	0	21.36	21.47	21.31			
15	64QAM	36	20	21.36	21.41	21.26			
15	64QAM	36	39	21.22	21.34	21.20			
15	64QAM	75	0	21.27	21.43	21.30	22.5	3	
Channel				26740	26865	26990			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	24.34	24.44	24.36	25.5	0	
10	QPSK	1	25	24.21	24.24	24.21			
10	QPSK	1	49	24.20	24.44	24.20			
10	QPSK	25	0	23.17	23.46	23.15			
10	QPSK	25	12	23.28	23.34	23.20	24.5	1	
10	QPSK	25	25	23.17	23.35	23.23			
10	QPSK	50	0	23.32	23.36	23.16			
10	16QAM	1	0	23.08	23.24	23.19			
10	16QAM	1	25	23.14	23.22	23.07	24.5	1	
10	16QAM	1	49	22.98	23.12	22.97			
10	16QAM	25	0	22.26	22.33	22.27			
10	16QAM	25	12	22.24	22.30	22.26			
10	16QAM	25	25	22.12	22.22	22.07	23.5	2	
10	16QAM	50	0	22.26	22.24	22.21			
10	64QAM	1	0	22.08	22.21	22.01			
10	64QAM	1	25	22.00	22.22	22.15			
10	64QAM	1	49	21.98	22.16	22.10	23.5	2	
10	64QAM	25	0	21.25	21.39	21.26			
10	64QAM	25	12	21.26	21.28	21.21			
10	64QAM	25	25	21.13	21.30	21.07			
10	64QAM	50	0	21.23	21.33	21.20	22.5	3	
Channel				26715	26865	27015			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	24.35	24.36	24.41	25.5	0	
5	QPSK	1	12	24.18	24.27	24.21			
5	QPSK	1	24	24.12	24.35	24.25			
5	QPSK	12	0	23.19	23.38	23.21			
5	QPSK	12	7	23.28	23.43	23.20	24.5	1	
5	QPSK	12	13	23.14	23.26	23.19			
5	QPSK	25	0	23.24	23.34	23.16			
5	16QAM	1	0	23.19	23.28	23.16			
5	16QAM	1	12	23.14	23.22	23.01	24.5	1	
5	16QAM	1	24	22.99	23.06	23.01			
5	16QAM	12	0	22.21	22.31	22.25			
5	16QAM	12	7	22.11	22.17	22.05			
5	16QAM	12	13	22.06	22.18	22.02	23.5	2	
5	16QAM	25	0	22.26	22.27	22.26			
5	64QAM	1	0	22.10	22.26	21.98			
5	64QAM	1	12	22.09	22.17	22.24			
5	64QAM	1	24	21.98	22.06	22.13	23.5	2	
5	64QAM	12	0	21.22	21.36	21.20			
5	64QAM	12	7	21.25	21.27	21.14			
5	64QAM	12	13	21.13	21.28	21.08			
5	64QAM	25	0	21.13	21.29	21.16	22.5	3	
Channel				26705	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	24.31	24.41	24.36	25.5	0	
3	QPSK	1	8	24.25	24.35	24.13			
3	QPSK	1	14	24.16	24.42	24.22			
3	QPSK	8	0	23.28	23.42	23.27			
3	QPSK	8	4	23.35	23.34	23.16	24.5	1	
3	QPSK	8	7	23.17	23.32	23.18			
3	QPSK	15	0	23.23	23.34	23.17			
3	16QAM	1	0	23.09	23.24	23.22			
3	16QAM	1	8	23.15	23.21	23.08	24.5	1	
3	16QAM	1	14	22.96	23.14	23.07			
3	16QAM	8	0	22.17	22.30	22.25			
3	16QAM	8	4	22.14	22.16	22.07			
3	16QAM	8	7	22.06	22.22	22.05	23.5	2	
3	16QAM	15	0	22.29	22.30	22.25			
3	64QAM	1	0	22.17	22.27	22.05			
3	64QAM	1	8	22.00	22.19	22.25			
3	64QAM	1	14	21.95	22.09	22.13	23.5	2	
3	64QAM	8	0	21.21	21.43	21.17			
3	64QAM	8	4	21.29	21.36	21.11			
3	64QAM	8	7	21.12	21.24	21.17			
3	64QAM	15	0	21.17	21.31	21.23	22.5	3	
Channel				26697	26865	27033			
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	24.30	24.35	24.33	25.5	0	
1.4	QPSK	1	2	24.21	24.36	24.22			
1.4	QPSK	1	5	24.10	24.41	24.21			
1.4	QPSK	3	0	24.27	24.34	24.19			
1.4	QPSK	3	1	24.38	24.37	24.17	24.5	1	
1.4	QPSK	3	3	24.21	24.33	24.17			
1.4	QPSK	6	0	23.24	23.40	23.25			
1.4	16QAM	1	0	23.10	23.21	23.24			
1.4	16QAM	1	3	23.11	23.26	23.23	24.5	1	
1.4	16QAM	1	5	22.97	23.12	23.07			
1.4	16QAM	3	0	23.19	23.36	23.22			
1.4	16QAM	3	1	23.15	23.22	23.07			
1.4	16QAM	3	3	23.15	23.19	23.04	23.5	2	
1.4	16QAM	6	0	22.21	22.22	22.22			
1.4	64QAM	1	0	22.15	22.29	22.02			
1.4	64QAM	1	3	22.04	22.18	22.18			
1.4	64QAM	1	5	21.99	22.12	22.12	23.5	2	
1.4	64QAM	3	0	22.30	22.36	22.23			
1.4	64QAM	3	1	22.22	22.32	22.17			
1.4	64QAM	3	3	22.13	22.29	22.06			
1.4	64QAM	6	0	21.13	21.32	21.21	22.5	3	

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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				37850	38000	38150	21	0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	19.90	20.09	19.76	21	0
20	QPSK	1	49	20.07	19.71	19.98		
20	QPSK	1	99	20.04	19.73	19.99		
20	QPSK	50	0	19.81	20.08	19.87		
20	QPSK	50	24	20.04	19.97	19.83		
20	QPSK	50	60	20.01	20.12	19.96		
20	QPSK	100	0	19.86	19.84	19.79	21	0
20	16QAM	1	0	19.85	20.08	19.78		
20	16QAM	1	49	20.01	19.90	19.87		
20	16QAM	1	99	20.07	19.50	19.82		
20	16QAM	50	0	19.96	20.04	19.98		
20	16QAM	50	24	20.07	20.07	20.06		
20	16QAM	50	60	20.01	20.12	19.97	21	0
20	16QAM	100	0	19.94	19.76	19.97		
20	64QAM	1	0	20.01	19.88	20.06		
20	64QAM	1	49	20.09	20.24	20.09		
20	64QAM	1	99	20.15	19.89	19.97		
20	64QAM	50	0	19.91	19.85	19.82		
20	64QAM	50	24	19.99	19.92	20.18	21	0
20	64QAM	50	60	19.93	20.05	19.90		
20	64QAM	100	0	20.08	19.88	19.90		
Channel				37825	38000	38175	21	0
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	19.86	20.01	19.86	21	0
15	QPSK	1	37	19.96	19.71	19.83		
15	QPSK	1	74	19.94	19.78	19.89		
15	QPSK	36	0	19.76	19.97	19.77		
15	QPSK	36	20	19.95	19.84	19.70		
15	QPSK	36	39	20.08	19.76	19.93		
15	QPSK	75	0	19.86	19.84	19.74	21	0
15	16QAM	1	0	19.83	19.97	19.79		
15	16QAM	1	37	19.90	19.82	19.88		
15	16QAM	1	74	19.98	19.57	19.70		
15	16QAM	36	0	19.86	19.84	19.82		
15	16QAM	36	20	20.08	19.80	19.98		
15	16QAM	36	39	20.01	20.12	19.92	21	0
15	16QAM	75	0	19.80	19.56	19.97		
15	64QAM	1	0	19.90	19.76	19.89		
15	64QAM	1	37	19.89	20.10	20.00		
15	64QAM	1	74	20.01	19.87	19.79		
15	64QAM	36	0	19.86	19.61	19.80		
15	64QAM	36	20	19.79	19.88	19.98	21	0
15	64QAM	36	39	19.88	19.95	19.77		
15	64QAM	75	0	20.08	19.69	19.92		
Channel				37800	38000	38200	21	0
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	19.87	19.73	19.62	21	0
10	QPSK	1	25	19.87	19.65	19.84		
10	QPSK	1	49	19.80	19.56	19.85		
10	QPSK	25	0	19.84	19.71	19.74		
10	QPSK	25	12	20.07	19.90	19.65		
10	QPSK	25	25	19.92	19.61	19.74		
10	QPSK	50	0	19.80	19.59	19.54	21	0
10	16QAM	1	0	19.68	19.97	19.51		
10	16QAM	1	25	19.70	19.88	19.78		
10	16QAM	1	49	19.73	19.52	19.58		
10	16QAM	25	0	19.86	19.70	19.73		
10	16QAM	25	12	19.83	19.84	19.98		
10	16QAM	25	25	19.76	20.03	19.82	21	0
10	16QAM	50	0	19.67	19.57	19.88		
10	64QAM	1	0	19.97	19.70	19.82		
10	64QAM	1	25	20.02	20.04	19.89		
10	64QAM	1	49	19.77	19.64	19.83		
10	64QAM	25	0	19.70	19.62	19.62		
10	64QAM	25	12	19.76	19.56	19.84	21	0
10	64QAM	25	25	19.71	19.75	19.57		
10	64QAM	50	0	19.90	19.56	19.85		
Channel				37775	38000	38225	21	0
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	19.89	19.73	19.64	21	0
5	QPSK	1	12	19.75	19.61	19.86		
5	QPSK	1	24	19.67	19.58	19.92		
5	QPSK	12	0	19.88	19.79	19.67		
5	QPSK	12	7	19.86	19.71	19.70		
5	QPSK	12	13	19.99	19.56	19.79		
5	QPSK	25	0	19.89	19.72	19.64	21	0
5	16QAM	1	0	19.59	19.96	19.53		
5	16QAM	1	12	19.71	19.84	19.75		
5	16QAM	1	24	19.82	19.55	19.56		
5	16QAM	12	0	19.78	19.60	19.59		
5	16QAM	12	7	19.76	19.76	19.92		
5	16QAM	12	13	19.74	20.02	19.90	21	0
5	16QAM	25	0	19.81	19.63	19.83		
5	64QAM	1	0	19.88	19.82	19.82		
5	64QAM	1	12	19.86	19.84	19.94		
5	64QAM	1	24	20.02	19.80	19.72		
5	64QAM	12	0	19.78	19.84	19.85		
5	64QAM	12	7	19.90	19.80	19.89	21	0
5	64QAM	12	13	19.79	19.91	19.54		
5	64QAM	25	0	19.78	19.61	19.91		

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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							21.5	0
Frequency (MHz)								
1	0	20.31	20.13	20.45	20.29	20.27	21.5	0
1	49	20.11	20.31	20.16	20.09	20.23		
1	99	20.35	20.15	20.07	20.26	20.16		
50	0	20.01	20.07	20.33	20.00	20.26		
50	24	20.05	20.10	20.19	20.31	20.27		
50	50	20.14	20.08	20.28	20.23	20.21		
100	0	20.18	20.29	20.32	20.09	20.12	21.5	0
1	0	20.02	20.03	20.37	20.17	20.19		
1	49	20.15	20.14	20.20	20.12	20.21		
1	99	20.35	20.26	20.32	20.17	20.12		
50	0	20.18	20.06	20.41	20.16	20.29		
50	24	20.05	20.17	20.29	20.18	20.29		
50	50	20.19	20.03	20.32	20.28	20.20	21.5	0
100	0	20.26	20.04	20.29	20.14	20.21		
1	0	20.12	20.01	20.42	20.10	20.30		
1	49	20.11	20.15	20.13	20.26	20.36		
1	99	20.07	20.10	20.39	20.03	20.19		
50	0	20.08	20.04	20.27	20.31	20.30		
50	24	20.18	20.00	20.24	20.06	20.10	21.5	0
50	50	20.03	20.21	20.35	20.10	20.35		
100	0	20.32	20.08	20.35	20.21	20.20		
Channel							21.50	0
Frequency (MHz)								
1	0	20.27	20.09	20.34	20.13	20.23	21.50	0
1	37	20.24	20.01	20.06	20.09	20.11		
1	74	20.12	20.00	20.42	20.08	20.07		
36	0	19.85	19.98	20.16	19.93	20.25		
36	20	20.02	20.11	20.00	20.32	20.22		
36	39	20.12	20.07	20.23	20.21	20.22		
75	0	20.10	20.22	20.28	19.94	19.93	21.5	0
1	0	20.32	20.00	20.44	20.25	20.20		
1	37	20.16	20.29	20.42	20.24	20.15		
1	74	20.30	20.14	20.28	20.25	20.08		
36	0	20.13	20.13	20.26	20.27	20.24		
36	20	20.20	20.08	20.32	20.09	20.08		
36	39	20.10	20.11	20.33	20.30	20.09	21.5	0
75	0	20.18	20.03	20.25	20.10	20.11		
1	0	20.24	20.08	20.30	20.27	20.22		
1	37	20.22	20.07	20.14	20.28	20.13		
1	74	20.03	20.01	20.38	20.19	20.05		
36	0	20.17	20.00	20.43	20.09	20.11	21.5	0
36	20	20.10	20.05	20.33	20.26	20.18		
36	39	20.14	20.09	20.32	20.17	20.16		
75	0	20.14	20.03	20.16	20.10	20.02		
Channel							21.50	0
Frequency (MHz)								
1	0	20.17	20.01	20.30	20.22	20.26	21.50	0
1	25	20.04	20.29	20.09	20.09	20.14		
1	49	20.20	20.03	20.04	20.14	20.06		
25	0	19.79	19.88	20.21	19.82	20.22		
25	12	19.85	19.88	20.09	20.11	20.12		
25	25	20.03	20.05	20.20	20.01	19.99		
50	0	20.10	20.12	20.16	20.10	20.03	21.5	0
1	0	20.12	20.04	20.27	20.08	20.29		
1	25	20.12	20.09	20.08	20.28	20.14		
1	49	20.33	20.14	20.11	20.10	20.11		
25	0	20.17	20.17	20.29	20.14	20.17		
25	12	20.26	20.16	20.27	20.16	20.07		
25	25	20.14	20.15	20.31	20.13	20.05	21.5	0
50	0	20.18	20.18	20.08	20.18	20.12		
1	0	20.10	20.13	20.32	20.30	20.28		
1	25	20.03	20.15	20.06	20.16	20.35	21.5	0
1	49	20.16	20.03	20.19	20.14	20.20		
25	0	20.11	20.03	20.42	20.26	20.14		
25	12	20.33	20.14	20.25	20.28	20.18		
25	25	20.06	20.20	20.20	20.13	20.04	21.5	0
50	0	20.28	20.09	20.35	20.21	20.12		
Channel								
Frequency (MHz)								
1	0	20.27	20.20	20.37	20.30	20.17	21.50	0
1	12	20.25	20.13	20.14	20.01	20.09		
1	24	20.29	20.14	20.39	20.21	20.12		
12	0	19.80	19.99	20.19	19.87	20.15		
12	7	20.07	19.94	20.06	20.26	20.24		
12	13	20.06	19.98	20.19	20.10	20.01		
25	0	20.00	20.30	20.30	19.97	19.98	21.5	0
1	0	20.17	20.03	20.25	20.10	20.15		
1	12	20.08	20.13	20.05	20.11	20.18		
1	24	20.20	20.20	20.30	20.17	20.29		
12	0	20.10	20.23	20.27	20.19	20.08		
12	7	20.05	20.12	20.29	20.04	20.09		
12	13	20.27	20.23	20.44	20.19	20.28	21.5	0
25	0	20.20	20.10	20.43	20.13	20.09		
1	0	20.20	20.11	20.21	20.07	20.10		
1	12	20.12	20.14	20.10	20.24	20.27	21.5	0
1	24	20.09	20.08	20.19	20.02	20.07		
12	0	20.08	20.04	20.23	20.15	20.04		
12	7	20.10	20.31	20.23	20.28	20.02		
12	13	20.16	20.09	20.39	20.20	20.20	21.5	0
25	0	20.12	20.06	20.34	20.15	20.19		



UL Power

Ant 1 DSI1									
CA_7C									
Combination 20MHz+20MHz (1RB+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	23.78	25.50	
21100	21298	QPSK	1	99	1	0	23.89	25.50	
21350	21152	QPSK	1	0	1	99	23.65	25.50	

Ant 1 DSI1&2									
CA_38C									
Combination 20MHz+20MHz (1RB+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	24.06	25.50	
37901	38099	QPSK	1	99	1	0	24.27	25.50	
38150	37952	QPSK	1	0	1	99	24.11	25.50	

Ant 1 DSI1&2									
CA_41C									
Combination 20MHz+20MHz (1RB+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	24.00	25.50	
40185	40383	QPSK	1	99	1	0	24.15	25.50	
40620	40818	QPSK	1	99	1	0	24.24	25.50	
41055	41253	QPSK	1	99	1	0	24.11	25.50	
41490	41292	QPSK	1	0	1	99	24.06	25.50	

Ant 2 DSI2									
CA_38C									
Combination 20MHz+20MHz (1RB+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	24.10	25.50	
37901	38099	QPSK	1	99	1	0	24.19	25.50	
38150	37952	QPSK	1	0	1	99	23.95	25.50	

Ant 2 DSI2									
CA_41C									
Combination 20MHz+20MHz (1RB+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	24.21	25.50	
40185	40383	QPSK	1	99	1	0	24.15	25.50	
40620	40818	QPSK	1	99	1	0	24.30	25.50	
41055	41253	QPSK	1	99	1	0	24.12	25.50	
41490	41292	QPSK	1	0	1	99	24.26	25.50	

Ant 1 DSI2

CA_7C								
Combination 20MHz+20MHz (1RB+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	21.98	23.50
21100	21298	QPSK	1	99	1	0	22.22	23.50
21350	21152	QPSK	1	0	1	99	21.90	23.50

Ant 1 DSI4

CA_7C								
Combination 20MHz+20MHz (1RB+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	17.76	19.00
21100	21298	QPSK	1	99	1	0	17.82	19.00
21350	21152	QPSK	1	0	1	99	17.61	19.00

Ant 2 DSI1&4

CA_7C								
Combination 20MHz+20MHz (1RB+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	17.54	19.00
21100	21298	QPSK	1	99	1	0	17.83	19.00
21350	21152	QPSK	1	0	1	99	17.60	19.00

Ant 2 DSI2

CA_7C								
Combination 20MHz+20MHz (1RB+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	22.54	24.00
21100	21298	QPSK	1	99	1	0	22.77	24.00
21350	21152	QPSK	1	0	1	99	22.61	24.00

Ant 1 DSI4

CA_38C								
Combination 20MHz+20MHz (1RB+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	18.03	19.50
37901	38099	QPSK	1	99	1	0	18.17	19.50
38150	37952	QPSK	1	0	1	99	18.10	19.50

Ant 2 DSI1

CA_38C								
Combination 20MHz+20MHz (1RB+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	20.72	22.00
37901	38099	QPSK	1	99	1	0	20.86	22.00
38150	37952	QPSK	1	0	1	99	20.48	22.00

Ant 2 DSI4

CA_38C								
Combination 20MHz+20MHz (1RB+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	19.78	21.00
37901	38099	QPSK	1	99	1	0	19.96	21.00
38150	37952	QPSK	1	0	1	99	19.70	21.00

Ant 1 DSI4

CA_41C								
Combination 20MHz+20MHz (1RB+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	18.13	19.50
40185	40383	QPSK	1	99	1	0	18.22	19.50
40620	40818	QPSK	1	99	1	0	18.29	19.50
41055	41253	QPSK	1	99	1	0	18.06	19.50
41490	41292	QPSK	1	0	1	99	18.17	19.50

Ant 2 DSI1

CA_41C								
Combination 20MHz+20MHz (1RB+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	20.62	22.00
40185	40383	QPSK	1	99	1	0	20.70	22.00
40620	40818	QPSK	1	99	1	0	20.85	22.00
41055	41253	QPSK	1	99	1	0	20.67	22.00
41490	41292	QPSK	1	0	1	99	20.74	22.00

Ant 2 DSI4

CA_41C								
Combination 20MHz+20MHz (1RB+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	20.29	21.50
40185	40383	QPSK	1	99	1	0	20.03	21.50
40620	40818	QPSK	1	99	1	0	20.35	21.50
41055	41253	QPSK	1	99	1	0	20.25	21.50
41490	41292	QPSK	1	0	1	99	20.20	21.50

2CA DL

CA List	PCC										SCC				Power	
	LTE	BW	BW	UL	UL		ULF	UL			LTE	BW	DL	DL	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset			Band	(MHz)	Freq. Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2C	Band 2	1	20M	1880	18900	QPSK	1	0			Band 2	20M	1980	1098	24.01	24.18
	Band 2	2	20M	1880	18900	QPSK	1	0			Band 2	20M	1980	1098	22.51	22.58
CA_2A-4A	Band 2	1	20M	1880	18900	QPSK	1	0			Band 4	20M	2133	2175	24.08	24.18
	Band 2	2	20M	1880	18900	QPSK	1	0			Band 4	20M	2133	2175	22.47	22.58
	Band 4	1	20M	1732.5	20175	QPSK	1	0			Band 2	20M	1960	900	23.95	24.16
	Band 4	2	20M	1732.5	20175	QPSK	1	0			Band 2	20M	1960	900	22.63	22.77
CA_2A-5A	Band 2	1	20M	1880	18900	QPSK	1	0			Band 5	10M	881.5	2525	24.05	24.18
	Band 2	2	20M	1880	18900	QPSK	1	0			Band 5	10M	881.5	2525	22.48	22.58
	Band 5	1	10M	836.5	20525	QPSK	1	0			Band 2	20M	1960	900	24.03	24.24
	Band 5	2	10M	836.5	20525	QPSK	1	0			Band 2	20M	1960	900	24.28	24.46
CA_2A-7A	Band 2	1	20M	1880	18900	QPSK	1	0			Band 7	20M	2655	3100	24.03	24.18
	Band 2	2	20M	1880	18900	QPSK	1	0			Band 7	20M	2655	3100	22.52	22.58
	Band 7	1	20M	2535	21100	QPSK	1	0			Band 2	20M	1960	900	23.78	23.92
	Band 7	2	20M	2535	21100	QPSK	1	0			Band 2	20M	1960	900	22.76	22.82
CA_2A-12A	Band 2	1	20M	1880	18900	QPSK	1	0			Band 12	10M	737.5	5095	24.03	24.18
	Band 2	2	20M	1880	18900	QPSK	1	0			Band 12	10M	737.5	5095	22.39	22.58
	Band 12	1	10M	707.5	23095	QPSK	1	0			Band 2	20M	1960	900	24.08	24.27
	Band 12	2	10M	707.5	23095	QPSK	1	0			Band 2	20M	1960	900	24.34	24.53
CA_2A-66A	Band 2	1	20M	1880	18900	QPSK	1	0			Band 66	20M	2155	66886	24.02	24.18
	Band 2	2	20M	1880	18900	QPSK	1	0			Band 66	20M	2155	66886	22.44	22.58
	Band 66	1	20M	1745	132322	QPSK	1	0			Band 2	20M	1960	900	24.09	24.20
	Band 66	2	20M	1745	132322	QPSK	1	0			Band 2	20M	1960	900	22.83	22.96
CA_4A-5A	Band 4	1	20M	1732.5	20175	QPSK	1	0			Band 5	10M	881.5	2525	23.57	24.16
	Band 4	2	20M	1732.5	20175	QPSK	1	0			Band 5	10M	881.5	2525	22.65	22.77
	Band 5	1	10M	836.5	20525	QPSK	1	0			Band 4	20M	2133	2175	24.10	24.24
	Band 5	2	10M	836.5	20525	QPSK	1	0			Band 4	20M	2133	2175	24.29	24.46
CA_4A-7A	Band 4	1	20M	1732.5	20175	QPSK	1	0			Band 7	20M	2655	3100	23.96	24.16
	Band 4	2	20M	1732.5	20175	QPSK	1	0			Band 7	20M	2655	3100	22.73	22.77
	Band 7	1	20M	2535	21100	QPSK	1	0			Band 7	20M	2655	3100	23.80	23.92
	Band 7	2	20M	2535	21100	QPSK	1	0			Band 4	20M	2133	2175	22.74	22.82
CA_4A-12A	Band 4	1	20M	1732.5	20175	QPSK	1	0			Band 12	10M	737.5	5095	24.01	24.16
	Band 4	2	20M	1732.5	20175	QPSK	1	0			Band 12	10M	737.5	5095	22.68	22.77
	Band 12	1	10M	707.5	23095	QPSK	1	0			Band 4	20M	2133	2175	24.15	24.27
	Band 12	2	10M	707.5	23095	QPSK	1	0			Band 4	20M	2133	2175	24.32	24.53
CA_4A-17A	Band 4	1	10M	1732.5	20175	QPSK	1	0			Band 17	10M	740	5790	24.00	24.16
	Band 4	2	10M	1732.5	20175	QPSK	1	0			Band 17	10M	740	5790	22.61	22.77
	Band 17	1	10M	710	23790	QPSK	1	0			Band 4	10M	2133	2175	24.07	24.24
	Band 17	2	10M	710	23790	QPSK	1	0			Band 4	10M	2133	2175	24.26	24.43
CA_5A-7A	Band 5	1	10M	836.5	20525	QPSK	1	0			Band 7	20M	2655	3100	24.12	24.24
	Band 5	1	10M	836.5	20525	QPSK	1	0			Band 7	20M	2655	3100	24.31	24.46
	Band 7	1	20M	2535	21100	QPSK	1	0			Band 5	10M	881.5	2525	23.75	23.92
	Band 7	2	20M	2535	21100	QPSK	1	0			Band 5	10M	881.5	2525	22.77	22.82
CA_5A-66A	Band 5	1	10M	836.5	20525	QPSK	1	0			Band 66	20M	2155	66886	24.03	24.24
	Band 5	1	10M	836.5	20525	QPSK	1	0			Band 66	20M	2155	66886	24.32	24.46
	Band 66	1	20M	1745	132322	QPSK	1	0			Band 5	10M	881.5	2525	24.03	24.20
	Band 66	2	20M	1745	132322	QPSK	1	0			Band 5	10M	881.5	2525	22.75	22.96
CA_5A-41A	Band 5	1	10M	836.5	20525	QPSK	1	0			Band 41	20M	2598	40670	24.04	24.24
	Band 5	1	10M	836.5	20525	QPSK	1	0			Band 41	20M	2598	40670	24.34	24.46
	Band 41	1	20M	2598	40670	QPSK	1	0			Band 5	10M	881.5	2525	24.15	24.31
	Band 41	2	20M	2598	40670	QPSK	1	0			Band 5	10M	881.5	2525	24.14	24.34
CA_7A-7A	Band 7	1	20M	2535	21100	QPSK	1	0			Band 7	5M	2688	3425	23.79	23.92
	Band 7	2	20M	2535	21100	QPSK	1	0			Band 7	5M	2688	3425	22.68	22.82
CA_7C	Band 7	1	20M	2535	21100	QPSK	1	0			Band 7	20M	2675	3298	23.76	23.92
	Band 7	2	20M	2535	21100	QPSK	1	0			Band 7	20M	2675	3298	22.73	22.82
CA_7A-66A	Band 7	1	20M	2535	21100	QPSK	1	0			Band 66	20M	2155	66886	23.76	23.92
	Band 7	2	20M	2535	21100	QPSK	1	0			Band 66	20M	2155	66886	22.70	22.82
	Band 66	1	20M	1745	132322	QPSK	1	0			Band 7	20M	2675	3298	24.02	24.20
	Band 66	2	20M	1745	132322	QPSK	1	0			Band 7	20M	2675	3298	22.88	22.96
CA_12A-66A	Band 12	1	10M	707.5	23095	QPSK	1	0			Band 66	20M	2155	66886	24.11	24.27
	Band 12	2	10M	707.5	23095	QPSK	1	0			Band 66	20M	2155	66886	24.38	24.53
	Band 66	1	20M	1745	132322	QPSK	1	0			Band 12	10M	737.5	5095	24.05	24.20
	Band 66	2	20M	1745	132322	QPSK	1	0			Band 12	10M	737.5	5095	22.81	22.96
CA_38C	Band 38	1	20M	2595	38000	QPSK	1	0			Band 38	20M	2618	38225	24.11	24.30
	Band 38	2	20M	2595	38000	QPSK	1	0			Band 38	20M	2618	38225	24.10	24.27
CA_38A-38A	Band 38	1	20M	2595	38000	QPSK	1	0			Band 38	5M	2618	38225	24.18	24.30
	Band 38	2	20M	2595	38000	QPSK	1	0			Band 38	5M	2618	38225	24.14	24.27
	Band 38	2	20M	2595	38000	QPSK	1	0			Band 38	5M	2618	38225	21.62	21.82
	Band 41	1	20M	2593	40620	QPSK	1	0			Band 41	20M	2613	40818	24.19	24.31
CA_41C	Band 41	2	20M	2593	40620	QPSK	1	0			Band 41	20M	2613	40818	24.13	24.34
	Band 41	1	20M	2593	40620	QPSK	1	0			Band 41	5M	2688	41565	24.15	24.31
CA_41A-41A	Band 41	2	20M	2593	40620	QPSK	1	0			Band 41	5M	2688	41565	24.18	24.34
	Band 66	1	20M	1745	132322	QPSK	1	0			Band 66	5M	2196	67311	24.00	24.20
CA_66A-66A	Band 66	2	20M	1745	132322	QPSK	1	0			Band 66	5M	2196	67311	22.75	22.96
	Band 66	1	15M	1745	132322	QPSK	1	0			Band 66	5M	2164	66979	23.83	24.02
CA_66B	Band 66	2	15M	1745	132322	QPSK	1	0			Band 66	5M	2164	66979	22.92	22.96
	Band 66	1	20M	1745	132322	QPSK	1	0			Band 66	20M	2175	67084	24.05	24.20
CA_66C	Band 66	2	20M	1745	132322	QPSK	1	0			Band 66	20M	2175	67084	22.85	22.96

Conducted Power for BT/WLAN

2.4GHz WLAN				Ant 3 full power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.20	18.50	99.70
		6	2437	17.40	18.50	
		11	2462	17.40	18.50	
	802.11g 6Mbps	1	2412	14.80	16.00	97.50
		6	2437	15.00	16.00	
		11	2462	15.00	16.00	
	802.11n-HT20 MCS0	1	2412	13.20	14.50	97.30
		6	2437	13.60	14.50	
		11	2462	13.50	14.50	

5.2GHz WLAN				Ant 3 full power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	13.60	14.50	97.40
		40	5200	13.58	15.00	
		44	5220	13.80	15.00	
		48	5240	13.80	15.00	
	802.11n-HT20 MCS0	36	5180	13.30	14.50	97.20
		40	5200	13.37	15.00	
		44	5220	13.70	15.00	
		48	5240	13.50	15.00	
	802.11n-HT40 MCS0	38	5190	13.40	14.50	95.00
		46	5230	13.60	15.00	
	802.11ac-VHT20 MCS0	36	5180	13.20	14.50	97.30
		40	5200	13.36	15.00	
		44	5220	13.60	15.00	
		48	5240	13.40	15.00	
	802.11ac-VHT40 MCS0	38	5190	13.30	14.50	94.80
		46	5230	13.50	15.00	
	802.11ac-VHT80 MCS0	42	5210	11.90	12.50	90.10

5.3GHz WLAN				Ant 3 full power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	13.50	15.00	97.40
		56	5280	13.49	15.00	
		60	5300	13.70	15.00	
		64	5320	13.50	15.00	
	802.11n-HT20 MCS0	52	5260	13.30	15.00	97.20
		56	5280	13.29	15.00	
		60	5300	13.60	15.00	
		64	5320	13.20	15.00	
	802.11n-HT40 MCS0	54	5270	13.40	15.00	95.00
		62	5310	13.00	15.00	
	802.11ac-VHT20 MCS0	52	5280	13.20	15.00	97.30
		56	5280	13.27	15.00	
		60	5300	13.50	15.00	
		64	5320	13.10	15.00	
	802.11ac-VHT40 MCS0	54	5270	13.30	15.00	94.80
		62	5310	12.90	14.50	
	802.11ac-VHT80 MCS0	58	5290	11.90	12.50	90.10

5.5GHz WLAN				Ant 3 full power		Head Receive on		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.50	14.50		11.50	97.40
		116	5580	13.40	14.50		11.50	
		124	5620	13.19	14.50		11.50	
		132	5660	12.97	14.50		11.50	
		140	5700	13.40	14.50		11.50	
		144	5720	13.30	14.50		11.50	
	802.11n-HT20 MCS0	100	5500	13.10	14.50		11.50	97.20
		116	5580	13.10	14.50		11.50	
		124	5620	12.96	14.50		11.50	
		132	5660	12.85	14.50		11.50	
		140	5700	13.00	14.50		11.50	
		144	5720	13.20	14.50		11.50	
	802.11n-HT40 MCS0	102	5510	12.30	14.00		11.50	95.00
		110	5550	13.10	14.50		11.50	
		126	5630	12.81	14.50		11.50	
		134	5670	13.10	14.50		11.50	
		142	5710	13.20	14.50		11.50	
		100	5500	13.00	14.50		11.50	97.30
	802.11ac-VHT20 MCS0	116	5580	13.00	14.50		11.50	
		124	5620	12.67	14.50		11.50	
		132	5660	12.53	14.00		11.50	
		140	5700	12.90	14.00		11.50	
		144	5720	13.10	14.00		11.50	
	802.11ac-VHT40 MCS0	102	5510	12.20	14.00		11.50	94.80
		110	5550	13.00	14.50		11.50	
		126	5630	12.81	14.50		11.50	
		134	5670	13.00	14.50		11.50	
		142	5710	13.10	14.50		11.50	
		106	5530	12.30	14.00	10.03	11.50	90.10
	802.11ac-VHT80 MCS0	122	5610	13.30	14.50		11.50	
		138	5690	12.90	14.50		11.50	

5.8GHz WLAN				Ant 3 full power		Head Receive on		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	13.40	14.50		12.50	97.40
		157	5785	13.70	14.50		12.50	
		165	5825	13.70	14.50		12.50	
	802.11n-HT20 MCS0	149	5745	13.30	14.50		12.50	97.20
		157	5785	13.50	14.50		12.50	
		165	5825	13.50	14.50		12.50	
	802.11n-HT40 MCS0	151	5755	13.30	14.50		12.50	94.80
		159	5795	13.50	14.50		12.50	
		149	5745	13.20	14.50		12.50	97.30
	802.11ac-VHT20 MCS0	157	5785	13.40	14.50		12.50	
		165	5825	13.40	14.50		12.50	
		151	5755	13.20	14.50		12.50	94.80
	802.11ac-VHT40 MCS0	159	5795	13.40	14.50		12.50	
		155	5775	13.60	14.50	11.06	12.50	90.10

BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	8.08	6.26	5.82
	CH 39	2441	8.69	6.00	5.96
	CH 18	2480	8.01	5.76	5.55
Tune-up Limit			9.5	7	7

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	-4.50
	CH 19	2440	-2.91
	CH 39	2480	-3.98
Tune-up Limit			0

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	-4.51
	CH 19	2440	-3.11
	CH 39	2480	-3.73
Tune-up Limit			0.00