



DSH1 Power Mode for Head

GSM850 Ant 1 DSH1								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	126	189	251		126	189	251	
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	28.44	28.46	28.39	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	21.58	22.50	18.21	18.43	18.58	19.50

GSM1900 Ant 1 DSH1								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
GSM 1 Tx slot	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

Band	WCDMA # Ant 1 DSH1				WCDMA # Ant 1 DSH1				WCDMA V Ant 1 DSH1				
	WCDMA #			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
TX Channel Frequency (MHz)	9262	9400	9538		1312	1413	1513		4132	4182	4233		
9GPP Rel 99	9662	9800	9938	1724	1838	1738	4367	4407	4458	4508			
3GPP Rel 99	1824	1860	1907.5	1724	1723.5	1823.5	426.4	433.4	440.6	447.6			
3GPP Rel 99	AMR 12.2Kbps	24.16	24.13	24.06	25.50	24.14	24.17	24.03	25.50	24.33	24.43	24.23	25.50
3GPP Rel 99	RMC	24.27	24.29	24.18	25.50	24.18	24.27	24.07	25.50	24.43	24.55	24.33	25.50
3GPP Rel 6	HSDPA Subtest-1	23.15	23.17	23.13	24.50	23.03	23.18	22.95	24.50	23.82	23.81	23.66	24.50
3GPP Rel 6	HSDPA Subtest-2	23.05	23.13	23.07	24.50	22.97	23.10	22.81	24.50	23.53	23.56	23.58	24.50
3GPP Rel 6	HSDPA Subtest-3	22.62	22.58	22.57	24.50	22.59	22.65	22.51	24.50	23.03	23.06	23.11	24.50
3GPP Rel 6	HSDPA Subtest-4	22.58	22.63	22.53	24.50	22.58	22.54	22.59	24.50	23.05	23.06	23.09	24.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.23	23.22	23.24	25.00	23.07	23.22	23.17	25.00	23.54	23.72	23.70	25.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.17	23.12	23.16	25.00	23.06	23.05	23.14	25.00	23.52	23.45	23.57	25.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.96	22.92	22.98	24.50	22.93	22.75	22.59	24.50	22.96	22.98	23.11	24.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.87	22.93	22.91	24.50	22.98	22.95	22.98	24.50	22.95	22.99	23.14	24.50
3GPP Rel 6	HSUPA Subtest-1	21.20	21.23	21.13	23.00	21.02	21.23	21.02	23.00	21.66	21.52	21.66	23.00
3GPP Rel 6	HSUPA Subtest-2	21.16	21.21	21.05	23.00	21.01	21.20	21.01	23.00	21.56	21.48	21.63	23.00
3GPP Rel 6	HSUPA Subtest-3	22.15	22.14	22.13	24.00	22.01	22.19	22.01	24.00	22.63	22.56	22.63	24.00
3GPP Rel 6	HSUPA Subtest-4	20.64	20.68	20.63	22.50	20.59	20.70	20.59	22.50	21.03	20.99	21.10	22.50
3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.10	24.00	22.10	22.20	22.10	24.00	22.50	22.40	22.50	24.00



Band 2 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)								
20	QPSK	1	0	24.00	24.19	24.38	25.5	0
20	QPSK	1	49	24.04	24.12	24.00		
20	QPSK	1	99	23.86	23.88	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	22.83	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	21.93		
20	64QAM	50	0	21.01	21.14	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	21.86	21.92	21.93		
15	16QAM	36	39	21.97	21.92	21.88		
15	16QAM	75	0	21.86	22.10	21.90	23.5	2
15	64QAM	1	0	22.03	22.23	21.95		
15	64QAM	1	37	22.12	22.10	22.24		
15	64QAM	1	74	21.98	21.88	22.04	22.5	3
15	64QAM	36	0	20.90	20.88	20.94		
15	64QAM	36	20	21.11	20.99	20.97		
15	64QAM	36	39	20.93	20.85	20.84	23.5	2
15	64QAM	75	0	20.83	20.87	20.96		
15	64QAM	75	0	20.83	20.94	20.86		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.88	24.08	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	22.89	22.95	24.5	1
10	16QAM	1	0	22.11	22.14	22.13		
10	16QAM	1	25	23.05	23.20	23.13		
10	16QAM	1	49	22.99	23.18	22.89	23.5	2
10	16QAM	25	0	21.86	21.93	21.91		
10	16QAM	25	12	22.01	22.08	21.98		
10	16QAM	25	25	21.89	22.08	21.89	22.5	3
10	16QAM	50	0	21.91	22.11	21.82		
10	16QAM	50	0	22.12	22.21	22.06		
10	16QAM	1	0	22.12	22.21	22.06	23.5	2
10	16QAM	1	25	22.17	22.07	22.21		
10	16QAM	1	49	21.93	21.92	21.90		
10	64QAM	25	0	20.86	21.01	21.09	22.5	3
10	64QAM	25	12	20.97	21.15	21.11		
10	64QAM	25	25	20.86	20.93	20.86		
10	64QAM	50	0	20.83	20.94	20.86	23.5	2
10	64QAM	1	0	22.18	22.14	22.16		
10	64QAM	1	12	22.02	22.04	22.21		
10	64QAM	1	24	21.98	21.93	21.86	22.5	3
10	64QAM	12	0	20.89	20.91	21.02		
10	64QAM	12	7	21.11	20.96	20.96		
10	64QAM	12	13	20.93	20.87	20.96	23.5	2
10	64QAM	15	0	20.83	20.94	20.86		
10	64QAM	15	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	23.90		
5	QPSK	1	24	23.81	23.82	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	64QAM	1	0	22.18	22.14	22.16		
5	64QAM	1	12	22.02	22.04	22.21	22.5	3
5	64QAM	1	24	21.98	21.93	21.86		
5	64QAM	12	0	20.89	20.91	21.02		
5	64QAM	12	7	21.11	20.96	20.96	23.5	2
5	64QAM	12	13	20.93	20.87	20.96		
5	64QAM	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	22.86	24.5	1
3	QPSK	8	4	22.88	22.81	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	22.88	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	64QAM	1	0	21.94	21.98	21.86		
3	64QAM	1	8	21.98	21.94	22.02	22.5	3
3	64QAM	1	14	21.80	21.80	21.81		
3	64QAM	8	0	20.95	20.91	20.99		
3	64QAM	8	4	21.00	20.85	21.04	23.5	2
3	64QAM	8	7	20.91	20.80	20.71		
3	64QAM	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	23.70	23.80	23.67		
1.4	QPSK	1	5	23.70	23.75	23.65		
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	23.09		
1.4	16QAM	1	5	22.92	22.95	22.79		
1.4	16QAM	1	5	22.74	22.85	22.78	23.5	2
1.4	16QAM	3	0	22.80	23.00	22.91		
1.4	16QAM	3	1	22.98	22.81	22.88		
1.4	16QAM	3	3	22.55	22.66	22.69	23.5	2
1.4	16QAM	6	0	21.64	21.99	21.81		
1.4	64QAM	1	0	21.92	21.94	21.95		
1.4	64QAM	1	3	22.12	21.93	21.94	22.5	3
1.4	64QAM	1	5	21.82	21.84	21.77		
1.4	64QAM	3	0	21.92	21.79	21.99		
1.4	64QAM	3	1	21.99	21.85	21.94	23.5	2
1.4	64QAM	3	3	21.90	21.93	21.88		
1.4	64QAM	6	0	20.86	20.89	20.80		

Band 4 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)								
20	QPSK	1	0	24.04	24.06	24.02	25.5	0
20	QPSK	1	49	24.11	24.07	24.14		
20	QPSK	1	99	23.89	23.85	23.87		
20	QPSK	50	0	23.03	23.18	23.00	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	23.5	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	23.22	22.98	23.5	1
20	16QAM	50	0	22.14	22.09	22.17		
20	16QAM							



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	23.92	23.74	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		
20	16QAM	1	0	22.79	22.84	22.72	24.5	1
20	16QAM	1	49	22.91	22.88	22.82		
20	16QAM	1	99	22.81	22.94	22.79		
20	16QAM	50	0	21.68	21.75	21.83	23.5	2
20	16QAM	50	24	21.95	21.92	21.96		
20	16QAM	50	50	21.80	21.91	21.87		
20	16QAM	100	0	21.81	21.76	21.70		
20	64QAM	1	0	21.86	21.78	21.69	23.5	2
20	64QAM	1	49	21.99	21.86	21.82		
20	64QAM	1	99	21.94	21.81	21.83		
20	64QAM	50	0	20.79	20.87	20.79	22.5	3
20	64QAM	50	24	20.91	20.81	20.91		
20	64QAM	50	50	20.90	20.91	20.78		
20	64QAM	100	0	20.88	20.85	20.80		
Channel				20825	21100	21375		
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	22.59	22.78	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	24.5	1
15	16QAM	1	37	22.90	22.84	22.80		
15	16QAM	1	74	22.78	22.85	22.75		
15	16QAM	36	0	21.56	21.58	21.81	23.5	2
15	16QAM	36	20	21.91	21.89	21.81		
15	16QAM	36	39	21.89	21.84	21.52		
15	16QAM	75	0	21.61	21.72	21.70	23.5	2
15	64QAM	1	0	21.86	21.74	21.64	23.5	2
15	64QAM	1	37	21.94	21.88	21.85		
15	64QAM	1	74	21.82	21.87	21.77		
15	64QAM	36	0	20.69	20.76	20.73	22.5	3
15	64QAM	36	20	20.78	20.72	20.79		
15	64QAM	36	39	20.75	20.79	20.66		
15	64QAM	75	0	20.82	20.85	20.66		
Channel				20800	21100	21400		
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	24.5	1
10	16QAM	1	25	22.75	22.71	22.75		
10	16QAM	1	49	22.67	22.78	22.67		
10	16QAM	25	0	21.57	21.64	21.84	23.5	2
10	16QAM	25	12	21.74	21.80	21.79		
10	16QAM	25	25	21.89	21.82	21.86		
10	16QAM	50	0	21.76	21.71	21.69	23.5	2
10	64QAM	1	0	21.77	21.80	21.78	23.5	2
10	64QAM	1	25	21.86	21.74	21.65		
10	64QAM	1	49	21.82	21.86	21.75		
10	64QAM	25	0	20.70	20.84	20.58	22.5	3
10	64QAM	25	12	20.84	20.69	20.85		
10	64QAM	25	25	20.74	20.81	20.57		
10	64QAM	50	0	20.83	20.85	20.56		
Channel				20775	21100	21425		
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	22.58	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	24.5	1
5	16QAM	1	24	22.64	22.67	22.57		
5	16QAM	12	0	21.69	21.70	21.69	23.5	2
5	16QAM	12	7	21.72	21.77	21.65		
5	16QAM	12	13	21.74	21.69	21.77		
5	16QAM	25	0	21.55	21.57	21.57	23.5	2
5	64QAM	1	0	21.75	21.50	21.54		
5	64QAM	1	12	21.73	21.74	21.74		
5	64QAM	1	24	21.83	21.82	21.62	23.5	2
5	64QAM	12	0	20.59	20.71	20.63	22.5	3
5	64QAM	12	7	20.61	20.71	20.63		
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				23060	23095	23130		
Frequency (MHz)				701.5	707.5	713.5		
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	24.5	1
10	16QAM	1	25	23.13	23.20	23.18		
10	16QAM	1	49	23.15	23.19	23.18		
10	16QAM	25	0	22.16	22.35	22.10	23.5	2
10	16QAM	25	12	22.26	22.24	22.27		
10	16QAM	25	25	22.35	22.19	22.13		
10	16QAM	50	0	22.25	22.14	22.15	23.5	2
10	64QAM	1	0	22.09	22.24	22.07	23.5	2
10	64QAM	1	25	22.11	22.21	22.19		
10	64QAM	1	49	22.18	22.20	22.18		
10	64QAM	25	0	20.99	21.22	21.01	22.5	3
10	64QAM	25	12	21.16	21.15	21.15		
10	64QAM	25	25	21.13	21.09	21.04		
10	64QAM	50	0	21.17	21.02	21.04		
Channel				23035	23095	23155		
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	24.5	1
5	16QAM	1	12	23.03	23.17	23.12		
5	16QAM	1	24	22.99	23.15	23.01		
5	16QAM	12	0	22.10	22.17	21.98	23.5	2
5	16QAM	12	7	22.23	22.07	22.17		
5	16QAM	12	13	22.31	22.08	21.97		
5	16QAM	25	0	22.08	22.02	22.10	23.5	2
5	64QAM	1	0	22.03	22.07	21.97	23.5	2
5	64QAM	1	12	22.06	22.19	22.02		
5	64QAM	1	24	22.16	22.16	22.05		
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	20.85	20.85		
Channel				23025	23095	23165		
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	23.19	23.25		
3	QPSK	8	7	23.12	23.19			



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							2370	2370	2380
Frequency (MHz)							719	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	23.25	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	2	
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	16QAM	1	0	22.06	22.16	22.05			
10	16QAM	1	25	22.01	22.14	22.08	23.5	2	
10	16QAM	1	49	22.10	22.12	22.14			
10	16QAM	25	0	20.99	21.20	21.06			
10	16QAM	25	12	21.12	21.18	20.98	22.5	3	
10	16QAM	25	25	21.07	21.09	21.11			
10	16QAM	50	0	21.01	21.06	21.09			
Channel							2375	2370	2382.5
Frequency (MHz)							706.5	710	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	23.19	22.98	23.16			
5	QPSK	12	13	23.03	23.05	23.08			
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	23.10	23.5	2	
5	16QAM	12	0	21.88	22.07	22.05			
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	16QAM	1	0	21.98	22.05	21.93			
5	16QAM	1	12	21.99	22.05	21.95	23.5	2	
5	16QAM	1	24	22.04	22.05	21.98			
5	16QAM	12	0	20.81	21.04	20.99			
5	16QAM	12	7	21.04	21.06	20.94	22.5	3	
5	16QAM	12	13	20.98	21.07	20.97			
5	16QAM	25	0	20.95	20.99	20.90			

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							2675	2685	2695
Frequency (MHz)							821.5	834.5	847.5
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	23.21	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	16QAM	1	0	22.17	22.22	22.17			
15	16QAM	1	37	22.18	22.27	22.24	23.5	2	
15	16QAM	1	74	22.11	22.26	22.24			
15	16QAM	36	0	21.36	21.42	21.26			
15	16QAM	36	20	21.31	21.39	21.28	22.5	3	
15	16QAM	36	39	21.15	21.30	21.16			
15	16QAM	75	0	21.22	21.38	21.34			
Channel							2674	2685	2699
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	22.19	22.26	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	16QAM	1	0	22.10	22.26	22.01			
10	16QAM	1	25	22.02	22.13	22.07	23.5	2	
10	16QAM	1	49	21.98	22.12	22.13			
10	16QAM	25	0	21.33	21.35	21.22			
10	16QAM	25	12	21.14	21.30	21.14	22.5	3	
10	16QAM	25	25	21.12	21.23	21.13			
10	16QAM	50	0	21.08	21.24	21.26			
Channel							2671.5	2685	2701.5
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	23.33	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	22.33	22.16			
5	16QAM	1	0	22.11	22.28	22.05			
5	16QAM	1	12	22.08	22.20	22.12	23.5	2	
5	16QAM	1	24	21.97	22.15	22.15			
5	16QAM	12	0	21.27	21.35	21.14			
5	16QAM	12	7	21.19	21.28	21.15	22.5	3	
5	16QAM	12	13	21.13	21.19	21.12			
5	16QAM	25	0	21.18	21.34	21.25			
Channel							2670.5	2685	2702.5
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	22.24			
3	16QAM	1	0	22.12	22.28	22.06			
3	16QAM	1	8	22.02	22.13	22.10	23.5	2	
3	16QAM	1	14	22.02	22.21	22.16			
3	16QAM	8	0	21.25	21.36	21.18			
3	16QAM	8	4	21.21	21.33	21.17	22.5	3	
3	16QAM	8	7	21.10	21.19	21.00			
3	16QAM	15	0	21.18	21.29	21.22			
Channel							2697	2685	2703
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	3	24.17	24.19	24.13			
1.4	QPSK	1	5	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	24.35	24.26			
1.4	QPSK	3	29	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	24.5	1	
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	16QAM	1	0	22.09	22.22	22.01			
1.4	16QAM								



Band 38 Ant1 DS11									
BW [MHz]	Modulation	Channel 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)				2350	2595	2810			
20	QPSK	1	0	24.14	24.30	24.15			
20	QPSK	1	49	24.03	23.89	24.12	25.5	0	
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	23.29	23.26	23.15			
20	16QAM	1	49	23.83	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	22.28	22.24	23.5	2	
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	22.28	22.29			
20	64QAM	50	0	21.05	21.08	21.09			
20	64QAM	50	24	21.32	21.22	21.28	22.5	3	
20	64QAM	50	50	21.10	21.09	21.18			
20	64QAM	100	0	21.22	21.11	21.12			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.03	24.28	24.14			
15	QPSK	1	37	24.13	24.10	24.23	25.5	0	
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	24.5	1	
15	QPSK	36	39	23.16	23.18	23.29			
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	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	23.5	2	
15	16QAM	36	39	22.34	22.28	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	22.5	3	
15	64QAM	36	39	21.22	21.42	21.25			
15	64QAM	75	0	21.37	21.46	21.15			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.81	24.02	23.77			
10	QPSK	1	25	24.00	23.85	23.92	25.5	0	
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	23.5	2	
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	22.5	3	
10	64QAM	25	25	20.99	20.92	21.12			
10	64QAM	50	0	21.30	21.13	21.06			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.06	24.21	24.08			
5	QPSK	1	12	24.16	24.05	24.22	25.5	0	
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	23.5	2	
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	21.36	22.5	3	
5	64QAM	12	13	21.26	21.14	21.04			
5	64QAM	25	0	21.17	21.22	21.20			

Band 41 Ant1 DS11										
BW [MHz]	Modulation	Channel 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	2549.3	2593	2636.3	2680		
20	QPSK	1	0	24.01	24.14	24.11	24.14	24.11		
20	QPSK	1	49	24.13	24.12	24.11	24.19	23.95	25.5	0
20	QPSK	1	99	24.06	24.01	24.06	24.11	24.22		
20	QPSK	50	0	23.12	23.04	23.90	23.25	23.06		
20	QPSK	50	24	23.28	23.17	23.07	23.29	23.12	24.5	1
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		
20	16QAM	1	0	23.50	23.15	23.44	23.22	23.38		
20	16QAM	1	49	23.27	23.17	23.16	23.26	23.55	24.5	1
20	16QAM	1	99	23.41	23.32	23.53	23.27	23.33		
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	23.5	2
20	16QAM	50	50	22.22	22.40	22.29	22.14	22.29		
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	21.06	21.09	21.30	21.11	21.15		
20	64QAM	100	0	20.99	20.95	21.21	21.02	21.16		
Channel				39725	40185	40620	41055	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.3	2682.5		
15	QPSK	1	0	23.88	23.88	24.16	23.91	23.98		
15	QPSK	1	37	24.05	24.07	24.00	24.01	23.88	25.5	0
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		
15	QPSK	36	20	23.15	23.03	23.02	23.05	22.89	24.5	1
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		
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	23.44	24.5	1
15	16QAM	1	74	23.26	23.27	23.22	23.44	23.18		
15	16QAM	36	0	21.90	22.02	22.32	22.16	22.21		
15	16QAM	36	20	22.05	22.32	22.19	22.28	22.26	23.5	2
15	16QAM	36	39	22.13	2					



GSM900 Ant 2 DSH								
GSM900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
GSM 1 Tx slots	32.26	32.33	32.21	33.50	23.26	23.33	23.21	24.50
GPRS 1 Tx slots	32.34	32.38	32.29	33.50	23.34	23.38	23.29	24.50
GPRS 2 Tx slots	30.17	30.11	30.02	31.00	24.17	24.11	24.02	25.00
GPRS 3 Tx slots	28.40	28.43	28.30	29.50	24.14	24.17	24.04	25.24
GPRS 4 Tx slots	26.46	26.44	26.33	27.50	23.46	23.44	23.33	24.50
EDGE 1 Tx slot	27.96	27.30	27.39	28.00	18.06	18.30	18.39	19.00
EDGE 2 Tx slots	24.55	24.78	24.88	25.50	18.55	18.78	18.88	19.50
EDGE 3 Tx slots	22.84	23.03	23.19	24.00	16.89	16.77	16.93	19.74
EDGE 4 Tx slots	21.56	21.73	21.93	22.50	16.86	16.73	16.93	19.50

GSM1900 Ant 2 DSH								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1860	1869.8	1852.2	1860	1869.8	1852.2	1860
GSM 1 Tx slot	24.03	23.84	24.05	24.50	15.03	14.84	15.05	15.50
GPRS 1 Tx slot	23.98	23.76	23.91	24.50	14.98	14.76	14.91	15.50
GPRS 2 Tx slots	21.64	21.74	21.49	22.50	15.64	15.74	15.49	16.50
GPRS 3 Tx slots	19.68	19.75	19.71	20.50	15.42	15.49	15.45	16.24
GPRS 4 Tx slots	18.40	18.28	18.58	19.00	15.40	15.28	15.58	16.00
EDGE 1 Tx slot	23.96	24.01	23.91	24.50	14.96	15.01	14.91	15.50
EDGE 2 Tx slots	22.36	22.25	22.17	22.50	16.36	16.25	16.17	16.50
EDGE 3 Tx slots	19.97	20.12	19.84	20.50	15.71	15.86	15.58	16.24
EDGE 4 Tx slots	18.62	18.84	18.68	19.00	15.62	15.84	15.68	16.00

Band	WCDMA I Ant 2 DSH			WCDMA N Ant 2 DSH			WCDMA V Ant 2 DSH			Tune-up Limit (dBm)	
	WCDMA I	WCDMA II	WCDMA III	WCDMA IV	WCDMA V	WCDMA VI	WCDMA VII	WCDMA VIII			
TX Channel	5292	9460	9538	1312	1413	1513	4132	4192	4233		
Rx Channel	9662	9690	9938	1537	1638	1738	4367	4407	4468		
Frequency (MHz)	1852.4	1860	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6		
3GPP Rel 99 AMR 12.2kops	15.80	15.84	15.82	16.50	15.75	15.78	15.67	16.50	23.54	23.48	24.50
3GPP Rel 99 AMR 12.2kops	15.82	15.87	15.84	16.50	15.76	15.80	15.71	16.50	23.55	23.69	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
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
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
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
3GPP Rel 6 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
3GPP Rel 6 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
3GPP Rel 6 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
3GPP Rel 6 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
3GPP Rel 6 HSUPA Subtest-1	13.91	13.91	13.72	14.50	13.79	13.85	13.68	14.50	21.56	21.36	21.55
3GPP Rel 6 HSUPA Subtest-2	11.94	11.97	11.92	12.50	11.92	11.98	11.83	12.50	21.45	21.38	21.29
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
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
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



Band 2 Ant2 DS11

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 18700	Power Middle Ch. / Freq. 18900	Power High Ch. / Freq. 19100	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.16	15.16	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	15.02	15.17	15.32				
20	QPSK	100	0	15.06	15.10	15.03				
20	16QAM	1	0	15.08	15.25	15.21				
20	16QAM	1	49	15.16	15.26	15.30	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	15.05	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	15.02	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	39	15.25	15.02	15.31	16.5	0		
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				
15	16QAM	1	74	15.06	15.18	15.26	16.5	0		
15	16QAM	36	0	15.01	15.01	15.28				
15	16QAM	36	39	15.09	15.09	15.25				
15	16QAM	36	39	15.07	15.02	15.08				
15	16QAM	75	0	15.06	15.26	15.05	16.5	0		
15	84QAM	1	0	15.12	15.00	15.26				
15	84QAM	1	37	15.01	15.14	15.31				
15	84QAM	1	74	15.22	15.20	15.12				
15	84QAM	36	0	15.01	15.18	15.30	16.5	0		
15	84QAM	36	39	15.13	15.01	15.35				
15	84QAM	75	0	15.15	15.10	15.05				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.16	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	15.30	16.5	0		
10	QPSK	25	25	15.17	15.10	15.31				
10	QPSK	50	0	15.16	15.21	15.14				
10	16QAM	1	0	15.10	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	12	15.07	15.14	15.23	16.5	0		
10	16QAM	25	25	15.29	15.01	15.03				
10	16QAM	50	0	15.35	15.13	15.33				
10	84QAM	1	0	15.12	15.22	15.33				
10	84QAM	1	25	15.10	15.21	15.07	16.5	0		
10	84QAM	1	49	15.30	15.17	15.28				
10	84QAM	25	0	15.01	15.08	15.30				
10	84QAM	25	12	15.10	15.29	15.16				
10	84QAM	25	12	15.10	15.29	15.16	16.5	0		
10	84QAM	25	25	15.02	15.10	15.02				
10	84QAM	25	25	15.02	15.10	15.02				
10	84QAM	50	0	15.29	15.11	15.05				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.17	15.19	15.27	16.5	0		
5	QPSK	1	12	15.14	15.21	15.33				
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	84QAM	1	0	15.04	15.34	15.31				
5	84QAM	1	12	15.34	15.11	15.30				
5	84QAM	1	24	15.27	15.23	15.14	16.5	0		
5	84QAM	12	0	15.21	15.28	15.34				
5	84QAM	12	7	15.17	15.23	15.16				
5	84QAM	12	13	15.07	15.16	15.06				
5	84QAM	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	84QAM	1	0	15.07	15.07	15.32				
3	84QAM	1	8	15.22	15.18	15.28				
3	84QAM	1	14	15.05	15.13	15.13	16.5	0		
3	84QAM	8	0	15.16	15.14	15.01				
3	84QAM	8	4	15.00	15.20	15.09				
3	84QAM	8	7	15.01	15.11	15.20				
3	84QAM	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	5	15.15	15.16	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	15.10				
1.4	64QAM	1	3	15.35	15.24	15.28				
1.4	84QAM	1	1	15.32	15.05	15.06	16.5	0		
1.4	84QAM	1	5	15.15	15.18	15.17				
1.4	84QAM	3	1	15.04	15.15	15.04				
1.4	84QAM	3	3	15.28	15.10	15.06				
1.4	84QAM	6	0	15.13	15.31	15.10	16.5	0		

Band 4 Ant2 DS11

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)								
20	QPSK	1	0	15.26	15.26	15.19	16.5	0
20	QPSK	1	49	15.33	15.37	15.31		
20	QPSK	1	99	15.28	15.24	15.12		
20	QPSK	50	0	15.08	15.32	15.21		
20	QPSK	50	24	15.29	15.28	15.23	16.5	0
20	QPSK	50	50	15.27	15.11	15.00		
20	QPSK	100	0	15.21	15.24	15.14		
20	16QAM	1	0	15.11	15.20	15.11		
20	16QAM	1	49	15.12	15.15	15.32	16.5	0
20	16QAM	1	99	15.16	15.15	15.04		
20	16QAM	50	0	15.06	15.16	15.05		
20	16QAM	50	24	15.15	15.24	15.27		
20	16QAM	50	50	15.24	15.05	15.00	16.5	0
20	16QAM	100	0	15.31	15.23	15.23		
20	64QAM	1	0	15.27	15.17	15.00		
20	64QAM	1	49	15.09	15.28	15.16		
20	64QAM	1	99	15.14	15.18	15.13	16.5	0
20	64QAM	50	0	15.12	15.21	15.02		
20	64QAM	50	24	15.21	15.34	15.15		
20	64QAM	50	50	15.29	15.17	15.23		
20	64QAM	100	0	15.29	15.03	15.19	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								
Frequency (MHz)				20850	21100	21350		
20	QPSK	1	0	17.57	17.57	17.74		
20	QPSK	1	49	17.81	17.71	17.87	19	0
20	QPSK	1	99	17.66	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	17.84	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)				20875	21100	21375		
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	17.81	17.44		
15	QPSK	36	20	17.70	17.45	17.58	19	0
15	QPSK	36	39	17.50	17.44	17.44		
15	QPSK	75	0	17.69	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	17.25	17.60	17.50		
Channel				20800	21100	21400		
Frequency (MHz)				20950	21100	21450		
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	17.61	19	0
10	QPSK	50	0	17.35	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	17.50		
10	64QAM	1	0	17.44	17.85	17.63		
10	64QAM	1	25	17.74	17.56	17.61	19	0
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)				20925	21100	21425		
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	17.84		
5	16QAM	1	0	17.69	17.57	17.51		
5	16QAM	1	12	17.46	17.52	17.38	19	0
5	16QAM	1	24	17.40	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 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)				23060	23095	23130		
10	QPSK	1	0	23.31	23.32	23.34		
10	QPSK	1	25	23.44	23.46	23.44	24.5	0
10	QPSK	1	49	23.40	23.44	23.43		
10	QPSK	25	0	23.29	23.54	23.32		
10	QPSK	25	12	23.38	23.26	23.33	24.5	0
10	QPSK	25	25	23.27	23.36	23.27		
10	QPSK	50	0	23.28	23.46	23.16		
10	16QAM	1	0	23.21	23.50	23.13		
10	16QAM	1	25	23.34	23.45	23.43	24.5	0
10	16QAM	1	49	23.19	23.44	23.25		
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	22.28		
10	64QAM	1	25	22.51	22.58	22.47	23.5	1
10	64QAM	1	49	22.48	22.44	22.34		
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	21.25		
10	64QAM	50	0	21.41	21.35	21.16		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.11	23.34	23.32		
5	QPSK	1	12	23.37	23.25	23.39	24.5	0
5	QPSK	1	24	23.18	23.42	23.27		
5	QPSK	12	0	23.28	23.34	23.21		
5	QPSK	12	7	23.35	23.05	23.32	24.5	0
5	QPSK	12	13	23.11	23.28	23.15		
5	QPSK	25	0	23.22	23.41	23.02		
5	16QAM	1	0	23.06	23.41	23.00		
5	16QAM	1	12	23.32	23.45	23.42	24.5	0
5	16QAM	1	24	23.07	23.29	23.29		
5	16QAM	12	0	22.21	22.24	22.12		
5	16QAM	12	7	22.38	22.30	22.24		
5	16QAM	12	13	22.28	22.11	22.16	23.5	1
5	16QAM	25	0	22.31	22.19	22.12		
5	64QAM	1	0	22.13	22.26	22.16		
5	64QAM	1	12	22.32	22.57	22.29	23.5	1
5	64QAM	1	24	22.47	22.44	22.38		
5	64QAM	12	0	21.00	21.29	21.11		
5	64QAM	12	7	21.26	21.42	21.11	22.5	2
5	64QAM	12	13	21.26	21.21	21.03		
5	64QAM	25	0	21.28	21.29	21.07		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.15	23.39	23.14		
3	QPSK	1	8	23.40	23.40	23.25	24.5	0
3	QPSK	1	14	23.35	23.38	23.26		
3	QPSK	8	0	23.21	23.49	23.32		
3	QPSK	8	4	23.30	23.08	23.24	24.5	0
3	QPSK	8	7	23.23	23.29	23.13		
3	QPSK	15	0	23.06	23.41	23.04		
3	16QAM	1	0	23.04	23.46	23.06		
3	16QAM	1						



Band 17 Ant2 DS1i

Channel	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	2370	2370	2380				
Channel							
Frequency (MHz)							
10	0	23.28	23.51	23.17			
10	QPSK	1	25	23.33	23.31	24.5	0
10	QPSK	1	49	23.32	23.48	23.34	
10	QPSK	25	0	23.27	23.43	23.09	
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	
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	
10	16QAM	25	0	22.12	22.10	22.02	
10	16QAM	25	12	22.22	22.30	22.24	
10	16QAM	25	25	22.23	22.29	22.13	
10	16QAM	50	0	22.17	22.24	22.23	
10	64QAM	1	0	22.35	22.29	22.38	
10	64QAM	1	25	22.52	22.48	22.52	
10	64QAM	1	49	22.54	22.49	22.39	
10	64QAM	25	0	21.10	21.09	21.06	
10	64QAM	25	12	21.23	21.15	21.22	
10	64QAM	25	25	21.27	21.16	21.10	
10	64QAM	50	0	21.18	21.16	21.19	
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.13	23.38	23.07	
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	
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	
5	16QAM	1	0	23.01	23.01	22.91	
5	16QAM	1	12	22.99	23.04	23.23	
5	16QAM	1	24	22.99	23.13	22.89	
5	16QAM	12	0	22.00	22.02	21.89	
5	16QAM	12	7	22.23	22.11	22.18	
5	16QAM	12	13	22.16	22.10	21.90	
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	
5	64QAM	1	24	22.33	22.50	22.23	
5	64QAM	12	0	21.05	20.95	20.88	
5	64QAM	12	7	21.05	20.96	21.16	
5	64QAM	12	13	21.14	20.95	21.08	
5	64QAM	25	0	21.15	21.09	21.21	

Band 26 Ant2 DS1i

Channel	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	2675	2675	2685				
Channel							
Frequency (MHz)							
15	QPSK	1	0	23.51	23.56	23.48	
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	
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	
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	
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	
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	
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	
15	64QAM	36	39	21.49	21.36	21.41	
15	64QAM	75	0	21.42	21.22	21.48	
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.47	23.46	23.38	
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	23.46	23.19	
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	
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	
10	16QAM	25	0	22.36	22.34	22.12	
10	16QAM	25	12	22.35	22.46	22.36	
10	16QAM	25	25	22.50	22.27	22.18	
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	
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	
10	64QAM	25	25	21.48	21.34	21.21	
10	64QAM	50	0	21.27	21.11	21.42	
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.49	23.38	23.34	
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	
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	23.25	
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	
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	
5	16QAM	25	0	22.38	22.20	22.39	
5	64QAM	1	0	22.32	22.27	22.32	
5	64QAM	1	12	22.59	22.54	22.57	
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	
5	64QAM	12	13	21.36	21.31	21.26	
5	64QAM	25	0	21.33	21.19	21.32	
Channel							
Frequency (MHz)							
3	QPSK	1	0	23.47	23.41	23.41	
3	QPSK	1	8	23.49	23.47	23.43	
3	QPSK	1	14	23.04	23.22	23.16	
3	QPSK	8	0	23.31	23.37	23.06	
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	
3	16QAM	1	0	23.36	23.24	23.16	
3	16QAM	1	8	23.46	23.46	23.35	
3	16QAM	1	14	22.97	23.10	23.02	
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	
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	
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	
3	64QAM	8	7	21.30	21.35	21.33	
3	64QAM	15	0	21.24	21.21	21.38	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	23.36	23.40	23.42	
1.4	QPSK	1	3	23.43	23.47	23.30	
1.4	QPSK	1	5	23.31	23.25	23.31	
1.4	QPSK	3	0	23.41	23.50	23.32	
1.4	QPSK	3	1	23.41	23.35	23.44	
1.4	QPSK	3	2	23.21	23.26	23.17	
1.4	QPSK	6	0	23.42	23.32	23.07	
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	23.26	23.30	23.17	
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	2	23.13	23.15	23.03	
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	
1.4	64QAM	1	5	22.36	22.04	22.35	
1.4	64QAM	3	0	22.38	22.34	22.47	
1.4	64QAM	3	1	22.55	22.56	22.58	
1.4	64QAM	3	2	22.53	22.17	22.38	
1.4	64QAM	6	0	21.23	20.95	21.36	

Band 66 Ant2 DS1i

Channel	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	13272	13232	13252				
Channel							
Frequency (MHz)							
20	QPSK	1	0	15.23	15.25	15.48	
20	QPSK	1	49	15.38	15.29	15.35	
20	QPSK	1	99	15.38	15.34	15.36	
20	QPSK	50	0	15.41	15.45	15.35	
20	QPSK	50	24	15.36	15.19	15.24	
20	QPSK	50	50	15.18	15.29	15.17	
20	QPSK	100	0	15.37	15.46	15.24	
20	16QAM	1	0	15.23	15.16	15.39	
20	16QAM	1	49	15.15	15.25	15.28	
20	16QAM	1	99	15.47	15.46	15.35	
20	16QAM	50	0	15.27	15.15	15.45	
20	16QAM	50	24	15.14	15.26	15.24	
20	16QAM	50	50	15.34	15.38	15.48	
20	16QAM	100	0	15.23	15.03	15.08	
20	64QAM	1	0	15.05	15.30	15.25	
20	64QAM	1	49	15.30	15.45	15.44	
20	64QAM	1	99	15.13	15.16	15.11	
20	64QAM	50	0	15.31	15.26	15.31	
20	64QAM	50	24	15.45	15.53	15.06	
20	64QAM	50	50	15.39	15.09	15.34	
20	64QAM	100	0	15.29	15.15	15.24	
Channel							
Frequency (MHz)							
15	QPSK	1	0	15.42	15.47	15.30	
15	QPSK	1	37	15.20	15		



Band 38 Ant2 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
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	22	0
20	QPSK	50	24	20.84	20.80	20.90		
20	QPSK	50	80	20.88	20.92	20.69		
20	QPSK	100	0	20.82	20.84	20.57	22	0
20	16QAM	1	0	20.71	20.97	20.69		
20	16QAM	1	49	20.92	20.94	20.71		
20	16QAM	1	99	20.91	20.80	20.72	22	0
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	22	0
20	64QAM	1	99	20.83	20.79	20.82		
20	64QAM	50	0	20.73	20.84	20.84		
20	64QAM	50	24	20.38	20.88	20.95	22	0
20	64QAM	50	80	20.86	20.74	20.83		
20	64QAM	100	0	20.95	20.98	20.59		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
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	20.64	20.57	20.53		
15	QPSK	36	0	20.71	20.84	20.74	22	0
15	QPSK	36	20	20.70	20.74	20.75		
15	QPSK	36	39	20.89	20.77	20.53		
15	QPSK	75	0	20.71	20.68	20.57	22	0
15	16QAM	1	0	20.69	20.79	20.59		
15	16QAM	1	37	20.91	20.76	20.57		
15	16QAM	1	74	20.74	20.79	20.56	22	0
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	22	0
15	64QAM	1	74	20.66	20.70	20.68		
15	64QAM	36	0	20.87	20.84	20.74		
15	64QAM	36	20	20.82	20.81	20.88	22	0
15	64QAM	36	39	20.73	20.85	20.67		
15	64QAM	75	0	20.87	20.84	20.71		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	20.70	20.85	20.66	22	0
10	QPSK	1	25	20.83	20.84	20.75		
10	QPSK	1	49	20.60	20.66	20.63		
10	QPSK	25	0	20.71	20.84	20.72	22	0
10	QPSK	25	12	20.71	20.61	20.84		
10	QPSK	25	25	20.91	20.92	20.66		
10	QPSK	50	0	20.71	20.75	20.57	22	0
10	16QAM	1	0	20.64	20.77	20.54		
10	16QAM	1	25	20.93	20.85	20.72		
10	16QAM	1	49	20.96	20.63	20.51	22	0
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	20.67	20.70	20.97	22	0
10	64QAM	1	49	20.72	20.62	20.66		
10	64QAM	25	0	20.64	20.70	20.71		
10	64QAM	25	12	20.88	20.86	20.95	22	0
10	64QAM	25	25	20.70	20.73	20.50		
10	64QAM	50	0	20.80	20.95	20.55		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
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	22	0
5	QPSK	12	7	20.70	20.61	20.89		
5	QPSK	12	13	20.87	20.87	20.70		
5	QPSK	25	0	20.87	20.72	20.61	22	0
5	16QAM	1	0	20.70	20.81	20.51		
5	16QAM	1	12	20.89	20.91	20.61		
5	16QAM	1	24	20.84	20.78	20.51	22	0
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	20.65	20.71		
5	64QAM	1	12	20.96	20.65	20.97	22	0
5	64QAM	1	24	20.56	20.57	20.57		
5	64QAM	12	0	20.50	20.59	20.82		
5	64QAM	12	7	20.81	20.96	20.90	22	0
5	64QAM	12	13	20.67	20.80	20.54		
5	64QAM	25	0	20.73	20.69	20.51		

Band 41 Ant2 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Front Ch. / Freq.	Power High Front Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2637	2680		
20	QPSK	1	0	20.76	20.75	21.02	20.74	20.84	22	0
20	QPSK	1	49	20.60	20.75	20.66	20.66	20.85		
20	QPSK	1	99	20.74	20.61	20.68	20.66	20.77		
20	QPSK	50	0	20.57	20.67	20.98	20.59	20.74	22	0
20	QPSK	50	24	20.58	20.54	20.73	20.70	20.71		
20	QPSK	50	50	20.56	20.56	20.76	20.75	20.78		
20	QPSK	100	0	20.66	20.74	20.80	20.53	20.73	22	0
20	16QAM	1	0	20.63	20.59	20.84	20.72	20.76		
20	16QAM	1	49	20.64	20.73	20.82	20.58	20.68		
20	16QAM	1	99	20.76	20.68	20.72	20.58	20.63	22	0
20	16QAM	50	0	20.61	20.56	20.82	20.76	20.85		
20	16QAM	50	24	20.56	20.58	20.86	20.61	20.83		
20	16QAM	50	50	20.65	20.63	20.74	20.58	20.69	22	0
20	16QAM	100	0	20.66	20.59	20.73	20.71	20.69		
20	64QAM	1	0	20.63	20.55	20.86	20.56	20.71		
20	64QAM	1	49	20.55	20.58	20.70	20.58	20.79	22	0
20	64QAM	1	99	20.59	20.56	20.84	20.65	20.75		
20	64QAM	50	0	20.60	20.59	20.71	20.71	20.76		
20	64QAM	50	24	20.63	20.60	20.80	20.55	20.69	22	0
20	64QAM	50	50	20.57	20.68	20.85	20.63	20.83		
20	64QAM	100	0	20.72	20.62	20.82	20.65	20.72		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.64	20.69	20.69	20.57	20.76	22.00	0
15	QPSK	1	37	20.39	20.73	20.54	20.50	20.73		
15	QPSK	1	74	20.70	20.40	20.54	20.63	20.57		
15	QPSK	36	0	20.62	20.60	20.72	20.71	20.67	22	0
15	QPSK	36	20	20.58	20.37	20.63	20.70	20.64		
15	QPSK	36	39	20.44	20.43	20.79	20.72	20.74		
15	QPSK	75	0	20.60	20.55	20.67	20.36	20.55	22	0
15	16QAM	1	0	20.62	20.57	20.82	20.57	20.71		
15	16QAM	1	37	20.59	20.59	20.62	20.51	20.53		
15	16QAM	1	74	20.74	20.49	20.53	20.42	20.56	22	0
15	16QAM	36	0	20.60	20.49	20.72	20.71	20.67		
15	16QAM	36	20	20.38	20.56	20.74	20.58	20.83		
15	16QAM	36	39	20.64	20.61	20.54	20.58	20.69	22	0
15	16QAM	75	0	20.63	20.57	20.54	20.68	20.69		
15	64QAM	1	0	20.54	20.55	20.66	20.44	20.53		
15	64QAM	1	37	20.66	20.41	20.57	20.41	20.79	22	0
15	64QAM	1	74	20.54	20.44	20.64	20.60	20.71		
15	64QAM	36	0	20.62	20.49	20.72	20.66	20.67		
15	64QAM	36	20	20.48	20.39	20.74	20.66	20.60	22	0
15	64QAM	36	39	20.50	20.55	20.76	20.61	20.72		
15	64QAM	75	0	20.57	20.51	20.68	20.51	20.51		



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				
Frequency (MHz)				18700	18900	19100				
20	QPSK	1	0	24.48	24.67	24.51				
20	QPSK	1	49	24.31	24.47	24.44	25.5	0		
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	23.28	23.50	23.46	24.5	1		
20	16QAM	1	99	23.33	23.60	23.38				
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	22.52				
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				
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	22.35	23.5	2		
15	16QAM	36	39	22.10	22.33	22.38				
15	16QAM	75	0	22.34	22.60	22.23				
15	64QAM	1	0	22.38	22.44	22.33				
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	21.29				
15	64QAM	75	0	21.08	21.35	21.43				
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				
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	23.49				
10	16QAM	1	25	23.24	23.49	23.28	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	23.5	2		
10	16QAM	25	25	22.26	22.33	22.36				
10	16QAM	50	0	22.32	22.65	22.34				
10	64QAM	1	0	22.58	22.45	22.28	23.5	2		
10	64QAM	1	25	22.38	22.56	22.38				
10	64QAM	1	49	22.11	22.37	22.32				
10	64QAM	25	0	21.42	21.50	21.39	22.5	3		
10	64QAM	25	12	21.51	21.75	21.47				
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)				1852.5	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				
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	23.5	2		
5	16QAM	12	13	22.18	22.32	22.41				
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	21.34	22.5	3		
5	64QAM	12	13	21.36	21.54	21.34				
5	64QAM	25	0	21.18	21.30	21.44				
Channel				18815	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				
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	23.20				
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	23.5	2		
3	16QAM	8	7	22.21	22.47	22.40				
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	23.5	2		
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				18507	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				
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	24.5	1		
1.4	16QAM	1	3	23.07	23.34	23.34				
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	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	22.53	22.19				
1.4	64QAM	3	3	22.16	22.14	22.50				
1.4	64QAM	6	0	21.00	21.40	21.45	22.5	3		

Band 7 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				20850	21000	21350				
Frequency (MHz)				20850	21000	21350				
20	QPSK	1	0	24.07	24.23	24.02				
20	QPSK	1	49	24.00	24.19	23.97	25.5	0		
20	QPSK	1	99	24.08	24.10	23.89				
20	QPSK	50	0	23.00	23.19	23.03				
20	QPSK	50	24	23.11	23.15	23.03	24.5	1		
20	QPSK	50	50	23.00	23.09	22.86				
20	QPSK	100	0	23.01	23.11	22.97				
20	16QAM	1	0	22.93	23.12	22.88				
20	16QAM	1	49	22.84	23.00	22.86	24.5	1		
20	16QAM	1	99	22.97	23.08	22.80				



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				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.64	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	20.90	20.56				
20	QPSK	50	24	20.63	20.50	20.52				
20	QPSK	50	50	20.57	20.70	20.89	22	1		
20	QPSK	100	0	20.59	20.70	20.64				
20	16QAM	1	0	20.44	20.65	20.80				
20	16QAM	1	49	20.48	20.53	20.62	22	1		
20	16QAM	1	99	20.34	20.63	20.59				
20	16QAM	50	0	19.47	19.76	19.43				
20	16QAM	50	24	19.45	19.60	19.79				
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	18.47	18.86	18.79				
20	64QAM	50	50	18.59	18.71	18.48	20	3		
20	64QAM	100	0	18.34	18.68	18.82				
Channel				37825	38000	38175				
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	20.70	21.69				
15	QPSK	36	0	20.56	20.75	20.69				
15	QPSK	36	20	20.59	20.51	20.57	22	1		
15	QPSK	36	39	20.60	20.74	20.73				
15	QPSK	75	0	20.57	20.70	20.65				
15	16QAM	1	0	20.43	20.78	20.63				
15	16QAM	1	37	20.55	20.64	20.59	22	1		
15	16QAM	1	74	20.42	20.59	20.64				
15	16QAM	36	0	19.59	19.56	19.45				
15	16QAM	36	20	19.72	19.76	19.64	21	2		
15	16QAM	36	39	19.39	19.59	19.68				
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	18.79	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				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	21.64	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				
10	QPSK	25	12	20.79	20.57	20.68	22	1		
10	QPSK	25	25	20.60	20.67	20.84				
10	QPSK	50	0	20.59	20.71	20.71				
10	16QAM	1	0	20.56	20.76	20.85				
10	16QAM	1	25	20.52	20.66	20.64	22	1		
10	16QAM	1	49	20.40	20.69	20.64				
10	16QAM	25	0	19.51	19.71	19.40				
10	16QAM	25	12	19.74	19.71	19.55	21	2		
10	16QAM	25	25	19.35	19.47	19.73				
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	19.66	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				
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				
5	QPSK	12	7	20.74	20.67	20.53	22	1		
5	QPSK	12	13	20.60	20.71	20.75				
5	QPSK	25	0	20.56	20.74	20.71				
5	16QAM	1	0	20.55	20.71	20.80				
5	16QAM	1	12	20.48	20.51	20.45	22	1		
5	16QAM	1	24	20.38	20.67	20.67				
5	16QAM	12	0	19.43	19.71	19.50				
5	16QAM	12	7	19.57	19.77	19.51	21	2		
5	16QAM	12	13	19.38	19.49	19.71				
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 Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620				
Frequency (MHz)				2506	2549.5	2593				
20	QPSK	1	0	21.50	21.66	21.83	23	0		
20	QPSK	1	49	21.42	21.52	21.79				
20	QPSK	1	99	21.46	21.50	21.79				
20	QPSK	50	0	20.65	20.71	20.82				
20	QPSK	50	24	20.60	20.91	20.69	22	1		
20	QPSK	50	50	20.67	20.71	20.84				
20	QPSK	100	0	20.58	20.76	20.80				
20	16QAM	1	0	20.60	20.65	20.82				
20	16QAM	1	49	20.74	20.64	20.68	22	1		
20	16QAM	1	99	20.56	20.51	20.74				
20	16QAM	50	0	19.66	19.64	19.77				
20	16QAM	50	24	19.58	19.72	19.77	21	2		
20	16QAM	50	50	19.51	19.43	19.65				
20	16QAM	100	0	19.50	19.70	19.72				
20	64QAM	1	0	19.62	19.59	19.89				
20	64QAM	1	49	19.45	19.72	19.62	21	2		
20	64QAM	1	99	19.62	19.57	19.75				
20	64QAM	50	0	18.80	18.70	18.87				
20	64QAM	50	24	18.72	18.60	18.89	20	3		
20	64QAM	50	50	18.73	18.68	18.71				
20	64QAM	100	0	18.53	18.45	18.86				
Channel				39725	40173	40620				
Frequency (MHz)				2503.5	2548.3	2593				
15	QPSK	1	0	21.45	21.50	21.82	23.00	0		
15	QPSK	1	37	21.29	21.37	21.66				
15	QPSK	1	74	21.28	21.30	21.77				
15	QPSK	36	0	20.52	20.68	20.76				
15	QPSK	36	20	20.42	20.80	20.61	22	1		
15	QPSK	36	39	20.56	20.65	20.82				
15	QPSK	75	0	20.53	20.69	20.61				
15	16QAM	1	0	20.47	20.63	20.75				
15	16QAM	1	37	20.52	20.52	20.61	22	1		
15	16QAM	1	74	20.52	20.49	20.60				
15	16QAM	36	0	19.59	19.50	19.72				
15	16QAM	36	20	19.57	19.51	19.70	21	2		
15	16QAM	36	39	19.34	19.35	19.48				
15	16QAM	75	0	19.39	19.49	19.59				
15	64QAM	1	0	19.46	19.51	19.53				
15	64QAM	1	37	19.44	19.42	19.70	21	2		
15</										



DSI2 Power Mode for Sensor off

GSM850 Ant 1 DSI2								
TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot	32.05	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	24.30	24.57	25.50	16.21	16.50	16.57	18.50
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 DSI2								
TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1869.8	1850.2	1860	1869.8		
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

Band	WCDMA II Ant 1 DSI2				WCDMA IV Ant 1 DSI2			WCDMA V Ant 1 DSI2					
	5982	8400	9538	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4132	4182	4233	Tune-up Limit (dBm)	
Rx Channel	8662	9200	9938		1537	1638	1738		4367	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2kops	24.16	24.13	24.06	25.50	24.14	24.17	24.03	25.50	24.33	24.43	24.23	25.50
3GPP Rel 99	RMC	24.27	24.29	24.18	25.50	24.18	24.27	24.07	25.50	24.43	24.55	24.33	25.50
3GPP Rel 6	HSDPA Subtest-1	23.15	23.17	23.13	24.50	23.03	23.16	22.95	24.50	23.62	23.61	23.66	24.50
3GPP Rel 6	HSDPA Subtest-2	23.05	23.13	23.07	24.50	22.97	23.10	22.81	24.50	23.53	23.56	23.58	24.50
3GPP Rel 6	HSDPA Subtest-3	22.62	22.88	22.57	24.50	22.89	22.65	22.51	24.50	23.03	23.06	23.11	24.50
3GPP Rel 6	HSDPA Subtest-4	22.58	22.83	22.53	24.50	22.58	22.54	22.59	24.50	23.05	23.06	23.09	24.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.23	23.22	23.24	25.00	23.07	23.22	23.17	25.00	23.54	23.72	23.70	25.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.17	23.12	23.15	25.00	23.06	23.05	23.14	25.00	23.52	23.45	23.57	25.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.58	22.52	22.66	24.50	22.53	22.75	22.59	24.50	22.96	22.98	23.11	24.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.67	22.53	22.51	24.50	22.58	22.55	22.58	24.50	22.95	22.99	23.14	24.50
3GPP Rel 6	HSUPA Subtest-1	21.20	21.23	21.13	23.00	21.02	21.23	21.02	23.00	21.66	21.52	21.66	23.00
3GPP Rel 6	HSUPA Subtest-2	21.16	21.21	21.05	23.00	21.01	21.20	21.01	23.00	21.56	21.46	21.63	23.00
3GPP Rel 6	HSUPA Subtest-3	22.15	22.14	22.13	24.00	22.01	22.15	22.01	24.00	22.63	22.56	22.63	24.00
3GPP Rel 6	HSUPA Subtest-4	20.64	20.65	20.63	22.50	20.59	20.70	20.59	22.50	21.03	20.99	21.10	22.50
3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.10	24.00	22.10	22.20	22.10	24.00	22.50	22.40	22.50	24.00



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)										
20	QPSK	1	0	24.00	24.18	24.35	25.5	0		
20	QPSK	1	49	24.04	24.12	24.00				
20	QPSK	1	99	23.88	23.88	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	22.83	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	21.93				
20	64QAM	50	0	21.01	21.14	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	22.91	23.5	2		
15	16QAM	36	0	21.88	21.92	21.83				
15	16QAM	36	20	21.97	21.92	21.88				
15	16QAM	36	39	21.97	21.92	21.88	23.5	2		
15	16QAM	75	0	21.88	22.10	21.90				
15	16QAM	75	0	22.03	22.23	21.95				
15	64QAM	1	0	22.12	22.10	22.24	23.5	2		
15	64QAM	1	37	22.12	22.10	22.24				
15	64QAM	1	74	21.98	21.88	20.94				
15	64QAM	36	0	20.90	20.88	20.94	22.5	3		
15	64QAM	36	20	21.11	20.99	20.97				
15	64QAM	36	39	20.93	20.85	20.84				
15	64QAM	75	0	20.83	20.87	20.86	23.5	2		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.88	24.08	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	22.89	22.95	24.5	1		
10	16QAM	1	0	22.11	22.14	22.15				
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	21.93	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	16QAM	50	1	22.12	22.21	22.06				
10	64QAM	1	0	22.12	22.21	22.06	23.5	2		
10	64QAM	1	25	22.17	22.07	21.97				
10	64QAM	1	49	21.93	21.92	21.90				
10	64QAM	25	0	20.86	21.01	21.09	22.5	3		
10	64QAM	25	12	20.97	21.15	21.11				
10	64QAM	25	25	20.86	20.93	20.86				
10	64QAM	50	0	20.83	20.94	20.86	23.5	2		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.88	23.98	23.75	25.5	0		
5	QPSK	1	12	23.99	24.10	23.90				
5	QPSK	1	24	23.91	23.82	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	22.88	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	21.87				
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	64QAM	1	0	22.18	22.14	22.16				
5	64QAM	1	12	22.02	22.04	22.21	23.5	2		
5	64QAM	1	24	21.98	21.93	21.86				
5	64QAM	12	0	20.89	20.91	21.02				
5	64QAM	12	7	21.11	21.06	20.86	22.5	3		
5	64QAM	12	13	20.93	20.87	20.86				
5	64QAM	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	22.88	24.5	1		
3	QPSK	8	4	22.88	22.81	22.83				
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	22.88	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	64QAM	1	0	21.94	21.98	21.86				
3	64QAM	1	8	21.98	21.94	22.02	23.5	2		
3	64QAM	1	14	21.80	21.80	21.81				
3	64QAM	8	0	20.95	20.91	20.99				
3	64QAM	8	4	21.00	20.85	21.04	22.5	3		
3	64QAM	8	7	20.91	20.80	20.71				
3	64QAM	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	23.70	23.80	23.67				
1.4	QPSK	1	5	23.70	23.75	23.65				
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	23.09				
1.4	16QAM	1	5	22.97	22.95	22.79				
1.4	16QAM	1	5	22.74	22.85	22.78	24.5	1		
1.4	16QAM	3	0	22.80	23.00	22.91				
1.4	16QAM	3	1	22.98	22.81	22.88				
1.4	16QAM	3	3	22.55	22.66	22.69	23.5	2		
1.4	16QAM	6	0	21.64	21.99	21.81				
1.4	64QAM	1	0	21.92	21.94	21.95				
1.4	64QAM	1	3	22.12	21.93	21.94	23.5	2		
1.4	64QAM	1	5	21.83	21.84	21.77				
1.4	64QAM	3	0	21.92	21.79	21.99				
1.4	64QAM	3	1	21.99	21.85	21.84	22.5	3		
1.4	64QAM	3	3	21.90	21.93	21.88				
1.4	64QAM	6	0	20.88	20.89	20.80				

Band 4 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)								
20	QPSK	1	0	24.04	24.05	24.02	25.5	0
20	QPSK	1	49	24.11	24.07	24.14		
20	QPSK	1	99	23.89	23.85	23.87		
20	QPSK	50	0	23.03	23.18	23.00	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	23.5	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	23.22	22.98	23.5	2
20	16QAM	50	0	22.14	22.09	22.17		
20	16QAM	50	24	22.32	22.22	22.14		
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	22.28	22.18	23.5	2
20	64QAM	1	99	22.07	22.00	21.83		
20	64QAM	50	0	21.05	21.14	21.07		



Band 7 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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.24	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	21.90	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	21100	21375	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	21.87	23.5	0
15	16QAM	36	0	22.01	21.98	22.12		
15	16QAM	36	20	22.25	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	21.65	21.48		
Channel				20800	21100	21400	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	22.01		
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	22.26	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	21100	21425	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	21.96	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		

Band 12 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				23060	23095	23130		
Frequency (MHz)				701	707.5	711		
10	QPSK	1	0	24.23	24.27	24.25	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	23.20	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	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	23095	23155	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	24.5	1
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	22.16		
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	20.85	20.95		
Channel				23025	23095	23165	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	23.19	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	22.10	22.28	22.05		
3	16QAM	8	4	22.10	22.13	22.11		
3								



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							2370	2370	2380		
Frequency (MHz)							719	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					
10	QPSK	25	12	23.21	23.13	23.19					
10	QPSK	25	25	23.12	23.15	23.18	24.5	1			
10	QPSK	50	0	23.11	23.17	23.15					
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					
10	16QAM	25	0	22.00	22.21	22.08	23.5	2			
10	16QAM	25	12	22.16	22.19	22.20					
10	16QAM	25	25	22.09	22.10	22.12					
10	16QAM	50	0	22.07	22.08	22.11					
10	16QAM	1	0	22.06	22.16	22.05					
10	16QAM	1	25	22.01	22.14	22.08	23.5	2			
10	16QAM	1	49	22.10	22.12	22.14					
10	16QAM	25	0	20.99	21.20	21.06					
10	16QAM	25	12	21.12	21.18	20.98					
10	16QAM	25	25	21.07	21.09	21.11					
10	16QAM	50	0	21.01	21.06	21.09	22.5	3			
Channel									2375	2370	23825
Frequency (MHz)									706.5	710	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					
5	QPSK	12	7	23.19	22.98	23.16					
5	QPSK	12	13	23.03	23.05	23.08	24.5	1			
5	QPSK	25	0	23.08	23.02	23.12					
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	23.10					
5	16QAM	12	0	21.88	22.07	22.05	23.5	2			
5	16QAM	12	7	21.99	22.07	22.16					
5	16QAM	12	13	22.05	22.00	22.10					
5	16QAM	25	0	21.93	22.02	22.01					
5	16QAM	1	0	21.98	22.05	21.93					
5	16QAM	1	12	21.99	22.05	21.95	23.5	2			
5	16QAM	1	24	22.04	22.05	21.98					
5	16QAM	12	0	20.81	21.04	20.99					
5	16QAM	12	7	21.04	21.06	20.94					
5	16QAM	12	13	20.96	21.07	20.97					
5	16QAM	25	0	20.95	20.99	20.90	22.5	3			

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							2675	2685	2695		
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					
15	QPSK	36	20	23.36	23.43	23.33					
15	QPSK	36	39	23.29	23.37	23.24	24.5	1			
15	QPSK	75	0	23.36	23.42	23.33					
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					
15	16QAM	36	0	22.24	22.40	22.36	23.5	2			
15	16QAM	36	20	22.32	22.25	22.15					
15	16QAM	36	39	22.15	22.26	22.10					
15	16QAM	75	0	22.30	22.36	22.29					
15	16QAM	1	0	22.17	22.27	22.17					
15	16QAM	1	37	22.18	22.27	22.24	23.5	2			
15	16QAM	1	74	22.11	22.26	22.24					
15	16QAM	36	0	21.36	21.42	21.26					
15	16QAM	36	20	21.31	21.39	21.28					
15	16QAM	36	39	21.15	21.30	21.16					
15	16QAM	75	0	21.22	21.38	21.34	22.5	3			
Channel									2674	2685	2699
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					
10	QPSK	25	12	23.21	23.37	23.18					
10	QPSK	25	25	23.15	23.25	23.09	24.5	1			
10	QPSK	50	0	23.30	23.36	23.22					
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					
10	16QAM	25	0	22.29	22.26	22.23	23.5	2			
10	16QAM	25	12	22.19	22.29	22.10					
10	16QAM	25	25	22.06	22.22	21.96					
10	16QAM	50	0	22.16	22.22	22.13					
10	16QAM	1	0	22.10	22.26	22.01					
10	16QAM	1	25	22.02	22.13	22.07	23.5	2			
10	16QAM	1	49	21.98	22.12	22.13					
10	16QAM	25	0	21.33	21.35	21.22					
10	16QAM	25	12	21.14	21.30	21.14					
10	16QAM	25	25	21.12	21.23	21.13					
10	16QAM	50	0	21.08	21.24	21.26	22.5	3			
Channel									2675	2685	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					
5	QPSK	12	7	23.22	23.30	23.22					
5	QPSK	12	13	23.14	23.34	23.18	24.5	1			
5	QPSK	25	0	23.33	23.29	23.26					
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					
5	16QAM	12	0	22.92	22.33	22.23	23.5	2			
5	16QAM	12	7	22.10	22.18	22.03					
5	16QAM	12	13	22.01	22.15	22.06					
5	16QAM	25	0	22.24	22.33	22.16					
5	16QAM	1	0	22.11	22.28	22.05					
5	16QAM	1	12	22.08	22.20	22.12	23.5	2			
5	16QAM	1	24	21.97	22.15	22.15					
5	16QAM	12	0	21.27	21.35	21.14					
5	16QAM	12	7	21.19	21.28	21.15					
5	16QAM	12	13	21.13	21.19	21.12					
5	16QAM	25	0	21.18	21.34	21.25	22.5	3			
Channel									26705	26855	27025
Frequency (MHz)									816.5	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					
3	QPSK	8	4	23.25	23.29	23.24					
3	QPSK	8	7	23.12	23.23	23.11	24.5	1			
3	QPSK	15	0	23.32	23.29	23.29					
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					
3	16QAM	8	0	22.22	22.34	22.33	23.5	2			
3	16QAM	8	4	22.20	22.09	22.12					
3	16QAM	8	7	21.98	22.10	22.03					
3	16QAM	15	0	22.25	22.22	22.24					
3	16QAM	1	0	22.12	22.28	22.06					
3	16QAM	1	8	22.02	22.13	22.10	23.5	2			
3	16QAM	1	14	22.02	22.21	22.16					
3	16QAM	8	0	21.25	21.36	21.18					
3	16QAM	8	4	21.21	21.33	21.17					
3	16QAM	8	7	21.10	21.19	21.00					
3	16QAM	15	0	21.18	21.29	21.22	22.5	3			
Channel									26997	26855	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	3	24.17	24.19	24.13					
1.4	QPSK	1	5	24.26	24.28	24.23					
1.4	QPSK	3	0	24.18	24.39	24.29					
1.4	QPSK	3	1	24.22	24.35	24.26					
1.4	QPSK	3	2	24.14	24.29	24.14	24.5	1			
1.4	QPSK	6	0	23.21	23.33	23.31					
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					
1.4	16QAM	3	0	23.25	23.28	23.30	24.5	1			
1.4	16QAM	3	1	23.16	23.18	23.11					
1.4	16QAM	3	2	22.99	23.12	23.00					
1.4	16QAM	6	0	22.22	22.25	22.14					
1.4	16QAM	1	0	22.09	22.22	22.01					
1.4	16QAM	1	3	22.12	22.15	22.13	23.5	2			
1.4	16QAM	1	5	22.00	22.16	22.13					
1.4	16QAM	3	0	22.30	22.27	22.23					
1.4	16QAM	3	1	22.18	22.29	22.16					
1.4	16QAM										



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				
Frequency (MHz)				2575	2595	2610				
20	QPSK	1	0	24.14	24.30	24.18	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	24.5	1		
20	QPSK	50	24	23.27	23.15	23.17				
20	QPSK	50	50	23.21	23.18	23.04				
20	QPSK	100	0	23.06	23.20	22.98	24.5	1		
20	16QAM	1	0	23.37	23.36	23.16				
20	16QAM	1	49	23.63	23.50	23.59				
20	16QAM	1	99	23.41	23.28	23.27	23.5	2		
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	16QAM	100	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	22.5	3		
20	64QAM	50	50	21.10	21.09	21.18				
20	64QAM	100	0	21.22	21.11	21.12				
Channel				37725	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	24.5	1		
15	QPSK	36	20	23.39	23.22	23.37				
15	QPSK	36	39	23.41	23.16	23.29				
15	QPSK	36	58	23.27	23.20	23.32	24.5	1		
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	23.5	2		
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	58	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	22.5	3		
15	64QAM	36	39	21.22	21.42	21.25				
15	64QAM	36	58	21.37	21.46	21.15				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
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	24.5	1		
10	QPSK	25	12	23.13	22.84	22.90				
10	QPSK	25	25	22.96	23.04	22.99				
10	QPSK	50	0	23.08	23.02	22.95	24.5	1		
10	16QAM	1	0	23.24	23.36	23.32				
10	16QAM	1	25	23.47	23.48	23.39				
10	16QAM	1	49	23.33	23.26	23.17	23.5	2		
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	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	22.5	3		
10	64QAM	25	25	20.99	20.92	21.12				
10	64QAM	50	0	21.30	21.13	21.06				
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	24.5	1		
5	QPSK	12	7	23.19	23.30	23.18				
5	QPSK	12	13	23.23	23.18	23.11				
5	QPSK	25	0	23.16	23.05	23.26	24.5	1		
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	23.5	2		
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	22.22				
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	21.36	22.5	3		
5	64QAM	12	13	21.26	21.14	21.04				
5	64QAM	25	0	21.17	21.22	21.20				

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.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2505	2540.5	2593	2638.5	2690				
20	QPSK	1	0	24.01	24.18	24.01	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	23.26	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	23.19	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	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	16QAM	100	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				39725	40185	40620	41055	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2638.5	2692.5				
15	QPSK	1	0	23.88	23.88	24.16	23.91	23.98	25.5	0		
15	QPSK	1	37	24.05	24.07	24.00	24.01	23.88				
15	QPSK	1	74	23.91	23.87	23.81	23.89	23.89				
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	36	58	22.90	23.07	23.07	23.07	23.14	24.5	1		
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	23.44				
15	16QAM	1	74	23.26	23.28	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	22.26				
15	16QAM	36	39	22.13								



GSM900 Ant 2 DS2								
GSM900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
GSM 1 Tx slots	32.26	32.33	32.21	33.50	23.26	23.33	23.21	24.50
GPRS 1 Tx slots	32.34	32.38	32.20	33.50	23.34	23.38	23.20	24.50
GPRS 2 Tx slots	30.17	30.11	30.02	31.00	24.17	24.11	24.02	25.00
GPRS 3 Tx slots	28.40	28.43	28.30	29.50	24.14	24.17	24.04	25.24
GPRS 4 Tx slots	26.46	26.44	26.33	27.50	23.46	23.44	23.33	24.50
EDGE 1 Tx slot	27.66	27.30	27.39	28.00	18.66	18.30	18.39	19.00
EDGE 2 Tx slots	24.55	24.78	24.88	25.50	18.55	18.78	18.88	19.50
EDGE 3 Tx slots	22.84	23.03	23.19	24.00	16.84	17.77	18.93	19.74
EDGE 4 Tx slots	21.56	21.73	21.93	22.50	16.56	16.73	16.93	19.50

GSM1900 Ant 2 DS2								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1860	1869.8	1852.2	1860	1869.8	1852.2	1860
GSM 1 Tx slot	29.53	29.45	29.96	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	21.58	21.42	22.24
GPRS 4 Tx slots	24.18	23.65	24.06	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	18.00
EDGE 2 Tx slots	23.92	23.62	23.81	24.50	17.92	17.62	17.81	18.50
EDGE 3 Tx slots	22.16	21.91	22.17	23.00	17.80	17.65	17.91	18.74
EDGE 4 Tx slots	20.58	20.46	20.53	21.50	17.58	17.46	17.53	18.20

Band	WCDMA 1 Ant 2 DS2				WCDMA N Ant 2 DS2				WCDMA V Ant 2 DS2			
	WCDMA 1			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel	5262	9460	9538		1312	1413	1513		4132	4192	4233	
Rx Channel	9662	9690	9938	1537	1638	1758	4367	4407	4468			
Frequency (MHz)	1852.4	1860	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99 AMR 12.2kops	22.57	22.62	22.59	23.50	22.94	23.19	22.87	24.00	24.44	24.50	24.46	25.50
3GPP Rel 99 AMR 12.2kops	22.66	22.72	22.61	23.50	23.17	23.20	23.11	24.00	24.56	24.59	24.53	25.50
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	23.58	24.50
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	23.42	24.50
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	22.94	24.50
3GPP Rel 6 HSDPA Subtest-4	21.16	21.12	21.00	22.50	21.52	21.86	21.23	23.00	23.03	22.90	22.82	24.50
3GPP Rel 6 DC-HSDPA Subtest-1	21.48	21.59	21.65	23.00	21.95	22.30	21.87	23.50	23.45	23.53	23.69	25.00
3GPP Rel 6 DC-HSDPA Subtest-2	21.62	21.64	21.62	23.00	21.89	21.98	22.08	23.50	23.51	23.49	23.32	25.00
3GPP Rel 6 DC-HSDPA Subtest-3	21.02	21.02	20.91	22.50	21.50	21.55	21.25	23.00	22.97	22.97	22.85	24.50
3GPP Rel 6 DC-HSDPA Subtest-4	21.06	21.21	20.94	22.50	21.29	21.68	21.44	23.00	22.91	23.00	23.01	24.50
3GPP Rel 6 HSUPA Subtest-1	19.67	19.78	19.56	21.00	19.88	20.25	19.96	21.50	21.52	21.43	21.49	23.00
3GPP Rel 6 HSUPA Subtest-2	19.68	19.64	19.71	21.00	19.93	20.18	20.07	21.50	21.49	21.43	21.40	23.00
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	22.48	24.00
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	20.95	22.50
3GPP Rel 6 HSUPA Subtest-5	20.79	20.80	20.71	22.00	21.00	21.08	20.97	22.50	22.37	22.37	22.37	24.00

**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)				1860	1890	1910		
20	QPSK	1	0	22.21	22.22	22.23	23.5	0
20	QPSK	1	49	22.44	22.40	22.33		
20	QPSK	1	99	22.44	22.33	22.34		
20	QPSK	50	0	22.20	22.29	22.23		
20	QPSK	50	24	22.36	22.38	22.20		
20	QPSK	50	50	22.05	22.28	22.33		
20	QPSK	100	0	22.24	22.29	22.25		
20	16QAM	1	0	22.35	22.29	22.38		
20	16QAM	1	49	22.10	22.18	22.22		
20	16QAM	1	99	22.30	22.12	22.25		
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		
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		
20	64QAM	50	0	21.10	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		
Channel				1867.5	1890	1912.5		
Frequency (MHz)				1867.5	1890	1912.5		
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	22.02	22.36	22.00		
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		
15	16QAM	1	74	22.25	21.95	22.15		
15	16QAM	36	0	21.86	22.28	22.04		
15	16QAM	36	20	22.15	22.18	22.04		
15	16QAM	36	39	22.10	22.12	22.21		
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		
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	21.21		
15	64QAM	75	0	20.87	21.10	20.92		
Channel				1865.0	1890	1915.0		
Frequency (MHz)				1865.0	1890	1915.0		
10	QPSK	1	0	22.08	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		
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	21.98	22.07		
10	16QAM	1	25	21.91	21.96	22.17		
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		
10	16QAM	50	0	22.12	21.86	22.20		
10	64QAM	1	0	22.06	21.86	21.79		
10	64QAM	1	25	22.13	21.98	22.08		
10	64QAM	1	49	21.91	22.10	22.12		
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	21.10		
10	64QAM	50	0	20.67	21.01	20.97		
Channel				1862.5	1890	1917.5		
Frequency (MHz)				1862.5	1890	1917.5		
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	22.33	22.39	22.46		
5	QPSK	12	0	22.34	22.53	22.21		
5	QPSK	12	7	22.28	22.43	22.33		
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		
5	16QAM	1	24	22.44	22.20	22.18		
5	16QAM	12	0	22.23	21.99	22.09		
5	16QAM	12	7	21.95	22.13	22.38		
5	16QAM	12	13	22.26	22.33	22.38		
5	16QAM	25	0	22.32	22.01	22.31		
5	64QAM	1	0	22.27	22.07	21.98		
5	64QAM	1	12	22.26	22.19	22.01		
5	64QAM	1	24	22.03	22.29	22.35		
5	64QAM	12	0	21.07	21.11	21.11		
5	64QAM	12	7	21.92	21.17	21.14		
5	64QAM	12	13	21.05	21.17	21.21		
5	64QAM	25	0	20.93	21.02	21.02		
Channel				1861.5	1890	1918.5		
Frequency (MHz)				1861.5	1890	1918.5		
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	4	22.45	22.34	22.20		
3	QPSK	8	7	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		
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		
3	16QAM	15	0	22.31	21.99	22.33		
3	64QAM	1	0	22.12	22.20	22.24		
3	64QAM	1	8	22.28	22.25	22.15		
3	64QAM	1	14	21.92	22.24	22.28		
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		
Channel				1859.7	1890	1916.3		
Frequency (MHz)				1859.7	1890	1916.3		
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		
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	3	22.19	22.45	22.38		
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		
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	22.13	22.25	22.41		
1.4	64QAM	3	0	22.33	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		

Band 4 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)				20050	20175	20300		
20	QPSK	1	0	22.63	22.67	22.61	24	0
20	QPSK	1	49	22.75	22.68	22.68		
20	QPSK	1	99	22.71	22.65	22.62		
20	QPSK	50	0	22.39	22.79	22.69		
20	QPSK	50	24	22.53	22.61	22.72		
20	QPSK	50	50	22.76	22.60	22.60		
20	QPSK	100	0	22.71	22.74	22.69		
20	16QAM	1	0	22.45	22.62	22.53		
20	16QAM	1	49	22.63	22.68	22.67		
20	16QAM	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	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.80	22.82	22.86	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	24	0
20	QPSK	50	24	22.56	22.63	22.56		
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	24	0
20	16QAM	1	49	22.47	22.61	22.95		
20	16QAM	1	99	22.58	22.60	22.51		
20	16QAM	50	0	22.09	22.23	22.17	23.5	0.5
20	16QAM	50	24	22.01	22.19	22.05		
20	16QAM	50	50	22.11	21.86	22.09		
20	16QAM	100	0	21.97	22.15	22.12		
20	64QAM	1	0	22.09	22.07	21.87	23.5	0.5
20	64QAM	1	49	22.02	22.06	22.09		
20	64QAM	1	99	21.97	22.24	22.02		
20	64QAM	50	0	21.99	21.22	21.12	22.5	1.5
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		
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	24	0
15	QPSK	36	20	22.36	22.56	22.58		
15	QPSK	36	39	22.40	22.47	22.49		
15	QPSK	75	0	22.50	22.58	22.39	24	0
15	16QAM	1	0	22.46	22.43	22.65	24	0
15	16QAM	1	37	22.27	22.52	22.61		
15	16QAM	1	74	22.52	22.56	22.40		
15	16QAM	36	0	22.03	22.15	22.00	23.5	0.5
15	16QAM	36	20	21.98	22.14	22.05		
15	16QAM	36	39	22.00	21.75	22.05		
15	16QAM	75	0	21.89	21.94	22.07	23.5	0.5
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		
15	64QAM	36	0	21.05	21.03	21.04	22.5	1.5
15	64QAM	36	20	20.99	21.07	20.96		
15	64QAM	36	39	21.01	20.88	20.98		
15	64QAM	75	0	20.84	20.89	20.95		
Channel				20800	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	24	0
10	QPSK	25	12	22.58	22.45	22.36		
10	QPSK	25	25	22.53	22.53	22.43		
10	QPSK	50	0	22.45	22.59	22.56	24	0
10	16QAM	1	0	22.58	22.55	22.53	24	0
10	16QAM	1	25	22.33	22.52	22.72		
10	16QAM	1	49	22.39	22.49	22.43		
10	16QAM	25	0	21.88	22.18	22.10	23.5	0.5
10	16QAM	25	12	22.00	22.16	22.04		
10	16QAM	25	25	21.89	21.80	21.94		
10	16QAM	50	0	21.95	21.93	22.10		
10	64QAM	1	0	22.09	21.86	21.84	23.5	0.5
10	64QAM	1	25	21.93	22.00	22.10		
10	64QAM	1	49	21.95	22.14	22.03		
10	64QAM	25	0	21.15	21.01	20.99	22.5	1.5
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		
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	24	0
5	QPSK	12	7	22.41	22.65	22.48		
5	QPSK	12	13	22.46	22.67	22.63		
5	QPSK	25	0	22.58	22.54	22.45	24	0
5	16QAM	1	0	22.47	22.55	22.62		
5	16QAM	1	12	22.26	22.60	22.68		
5	16QAM	1	24	22.46	22.46	22.29	23.5	0.5
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		
5	16QAM	25	0	21.80	22.10	21.94	23.5	0.5
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		
5	64QAM	12	0	21.20	21.00	21.14	22.5	1.5
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		

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)				707.5	713	718.5		
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		
10	16QAM	1	0	23.56	23.59	23.61	24.5	1
10	16QAM	1	25	23.74	23.71	23.68		
10	16QAM	1	49	23.70	23.70	23.66		
10	16QAM	25	0	22.32	22.37	22.26	23.5	2
10	16QAM	25	12	22.49	22.45	22.44		
10	16QAM	25	25	22.53	22.44	22.33		
10	16QAM	50	0	22.45	22.38	22.35		
10	64QAM	1	0	22.48	22.48	22.50	23.5	2
10	64QAM	1	25	22.63	22.61	22.57		
10	64QAM	1	49	22.61	22.62	22.56		
10	64QAM	25	0	21.29	21.34	21.23	22.5	3
10	64QAM	25	12	21.46	21.43	21.44		
10	64QAM	25	25	21.46	21.44	21.33		
10	64QAM	50	0	21.44	21.37	21.32		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	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	24.5	1
5	16QAM	1	24	23.51	23.69	23.61		
5	16QAM	12	0	22.12	22.30	22.28	23.5	2
5	16QAM	12	7	22.34	22.45	22.40		
5	16QAM	12	13	22.33	22.35	22.14		
5	16QAM	25	0	22.28	22.28	22.15	23.5	2
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	22.5	3
5	64QAM	12	7	21.43	21.35	21.45		
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	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	4	23.36	23.32	23.29		
3	QPSK	8						



Band 17 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							2370	2370	2380
Frequency (MHz)							710	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	23.25			
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	22.19			
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	16QAM	1	0	22.40	22.42	22.43			
10	16QAM	1	25	22.54	22.50	22.54	23.5	2	
10	16QAM	1	49	22.56	22.51	22.56			
10	16QAM	25	0	21.16	21.14	21.20			
10	16QAM	25	12	21.38	21.37	21.39	22.5	3	
10	16QAM	25	25	21.29	21.26	21.28			
10	16QAM	50	0	21.25	21.23	21.24			
Channel							2375	2370	2382.5
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	23.99	24.5	1	
5	QPSK	12	7	22.94	23.14	23.33			
5	QPSK	12	13	23.05	23.19	23.18			
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	21.84	22.00			
5	16QAM	1	0	22.26	22.18	22.25			
5	16QAM	1	12	22.23	22.37	22.22	23.5	2	
5	16QAM	1	24	22.26	22.32	22.44			
5	16QAM	12	0	20.86	21.03	20.93			
5	16QAM	12	7	21.09	21.12	21.12	22.5	3	
5	16QAM	12	13	21.01	21.14	21.19			
5	16QAM	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							2675	2685	2695		
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	23.41	23.42	24.5	1			
15	16QAM	1	0	23.23	23.34	23.28					
15	16QAM	1	37	22.08	22.21	22.24					
15	16QAM	36	0	21.36	21.47	21.31	22.5	3			
15	16QAM	36	20	21.36	21.41	21.26					
15	16QAM	36	39	21.22	21.34	21.20					
15	16QAM	75	0	21.27	21.43	21.30	22.5	3			
Channel									2674	2685	2690
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	22.25	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	16QAM	1	0	22.08	22.21	22.01					
10	16QAM	1	25	22.00	22.22	22.15	23.5	2			
10	16QAM	1	49	21.98	22.16	22.10					
10	16QAM	25	0	21.25	21.39	21.26					
10	16QAM	25	12	21.26	21.28	21.21	22.5	3			
10	16QAM	25	25	21.13	21.30	21.07					
10	16QAM	50	0	21.21	21.31	21.26					
Channel							2671.5	2685	2701.5		
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	24.5	1			
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	16QAM	25	12	22.10	22.26	21.98					
5	16QAM	1	0	22.09	22.17	22.04	23.5	2			
5	16QAM	1	12	21.98	22.06	22.13					
5	16QAM	1	24	21.98	22.06	22.13					
5	16QAM	12	0	21.22	21.36	21.20	22.5	3			
5	16QAM	12	7	21.25	21.27	21.14					
5	16QAM	12	13	21.13	21.28	21.08					
5	16QAM	25	0	21.13	21.29	21.16	22.5	3			
Channel									2670.5	2685	2702.5
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	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	22.02					
3	16QAM	1	8	22.00	22.19	22.25	23.5	2			
3	16QAM	1	14	21.95	22.09	22.13					
3	16QAM	8	4	21.21	21.43	21.17					
3	16QAM	8	7	21.12	21.24	21.17	22.5	3			
3	16QAM	15	0	21.17	21.31	21.23					
Channel									2697	2685	2703
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	24.29	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	24.17					
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	23.07					
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	16QAM	6	0	22.21	22.22	22.22					
1.4	16QAM	1	0	22.15	22.29	22.02					
1.4	16QAM	1	3	22.04	22.18	22.18	23.5	2			
1.4	16QAM	1	5	21.99	22.12	22.11					
1.4	16QAM	3	0	22.30	22.36	22.23					
1.4	16QAM	3	1	22.22	22.32	22.17	22.5	3			
1.4	16QAM	3	3	22.13	22.29	22.06					
1.4	16QAM	6	0	21.13	21.32	21.21					

Band 66 Ant2 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq
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Band 38 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				37550	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	24.23	24.27	23.98	25.5	0		
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	24.5	1		
20	QPSK	50	24	23.17	23.12	23.06				
20	QPSK	50	50	23.16	23.13	23.15				
20	QPSK	100	0	23.13	23.15	23.14	24.5	1		
20	16QAM	1	0	23.11	23.04	23.05				
20	16QAM	1	49	23.31	23.14	23.29				
20	16QAM	1	99	23.15	23.12	23.14	23.5	2		
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	23.5	2		
20	64QAM	1	99	21.93	21.98	21.91				
20	64QAM	50	0	21.13	21.16	21.12				
20	64QAM	50	24	21.20	21.26	21.26	22.5	3		
20	64QAM	50	50	21.21	21.18	21.18				
20	64QAM	100	0	21.26	21.23	21.29				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	24.13	24.09	23.85	25.5	0		
15	QPSK	1	37	23.97	24.11	24.01				
15	QPSK	1	74	24.13	23.99	23.99				
15	QPSK	36	0	22.97	23.15	23.04	24.5	1		
15	QPSK	36	20	23.01	23.02	22.89				
15	QPSK	36	39	23.09	23.05	22.91				
15	QPSK	75	0	23.13	23.12	22.99	24.5	1		
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	23.01	22.99	23.5	2		
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	23.5	2		
15	16QAM	75	0	22.23	22.16	22.19				
15	64QAM	1	0	21.74	21.91	21.81				
15	64QAM	1	37	21.95	22.06	21.86	23.5	2		
15	64QAM	1	74	21.90	21.77	21.75				
15	64QAM	36	0	21.09	21.15	21.09				
15	64QAM	36	20	21.18	21.16	21.11	22.5	3		
15	64QAM	36	39	21.18	21.04	21.02				
15	64QAM	75	0	21.26	21.02	21.30				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	24.00	24.05	23.83	25.5	0		
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	24.5	1		
10	QPSK	25	12	22.94	23.05	22.94				
10	QPSK	25	25	22.92	23.01	22.92				
10	QPSK	50	0	22.96	23.04	22.87	24.5	1		
10	16QAM	1	0	22.93	22.82	22.92				
10	16QAM	1	25	23.09	22.97	22.93				
10	16QAM	1	49	22.97	23.06	23.04	23.5	2		
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	21.56				
10	64QAM	1	25	21.87	21.83	21.89	23.5	2		
10	64QAM	1	49	21.84	21.91	21.85				
10	64QAM	25	0	20.97	20.96	20.93				
10	64QAM	25	12	21.15	21.22	21.07	22.5	3		
10	64QAM	25	25	20.95	21.05	21.10				
10	64QAM	50	0	21.11	20.97	21.25				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	24.03	24.07	23.79	25.5	0		
5	QPSK	1	12	23.98	24.01	24.05				
5	QPSK	1	24	23.93	23.85	23.93				
5	QPSK	12	0	22.76	22.92	22.75	24.5	1		
5	QPSK	12	7	22.94	23.00	22.91				
5	QPSK	12	15	22.92	22.91	22.86				
5	QPSK	25	0	22.94	23.05	22.85	24.5	1		
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	15	22.05	21.97	21.93	23.5	2		
5	16QAM	25	0	21.98	21.93	21.99				
5	64QAM	1	0	21.89	21.90	21.73				
5	64QAM	1	12	21.94	21.76	21.88	23.5	2		
5	64QAM	1	24	21.74	21.80	21.78				
5	64QAM	12	0	20.97	21.01	20.98				
5	64QAM	12	7	20.99	20.99	21.11	22.5	3		
5	64QAM	12	13	21.06	20.99	21.09				
5	64QAM	25	0	21.16	20.95	21.18				

Band 41 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				39750	40185	40600				
Frequency (MHz)				2506	2549.5	2593				
20	QPSK	1	0	24.28	24.21	24.34	25.5	0		
20	QPSK	1	49	24.33	24.19	24.09				
20	QPSK	1	99	24.07	24.13	24.07				
20	QPSK	50	0	23.12	22.99	23.25	24.5	1		
20	QPSK	50	24	23.18	23.10	23.00				
20	QPSK	50	50	23.23	23.05	23.00				
20	QPSK	100	0	23.22	23.03	23.23	24.5	1		
20	16QAM	1	0	23.27	22.98	23.19				
20	16QAM	1	49	23.24	23.14	23.13				
20	16QAM	1	99	23.14	23.24	22.98	24.5	1		
20	16QAM	50	0	22.22	22.08	22.05				
20	16QAM	50	24	22.35	22.19	22.15				
20	16QAM	50	50	22.35	22.19	22.15	23.5	2		
20	16QAM	100	0	22.29	22.12	22.21				
20	64QAM	1	0	22.43	22.40	22.36				
20	64QAM	1	49	22.67	22.51	22.41	23.5	2		
20	64QAM	1	99	22.41	22.37	22.49				
20	64QAM	50	0	21.66	21.51	21.47				
20	64QAM	50	24	21.79	21.65	21.58	22.5	3		
20	64QAM	50	50	21.77	21.63	21.58				
20	64QAM	100	0	21.80	21.65	21.61				
Channel				39725	40173	40620				
Frequency (MHz)				2503.5	2548.3	2593				
15	QPSK	1	0	24.27	24.17	24.24	25.50	0		
15	QPSK	1	37	24.17	24.03	23.90				
15	QPSK	1	74	24.04	24.08	23.86				
15	QPSK	36	0	23.11	22.85	23.09	24.5	1		
15	QPSK	36	20	23.10	23.10	22.97				
15	QPSK	36	39	23.15	22.85	22.89				
15	QPSK	75	0	23.17	22.88	23.06	24.5	1		
15	16QAM	1	0	23.24	22.87	23.17				
15	16QAM	1	37	23.06	22.99	23.11				
15	16QAM	1	74	23.11	23.07	22.89	23.5	2		
15	16QAM	36	0	22.22	22.01	21.91				
15	16QAM	36	20	22.28	22.13	22.02				
15	16QAM	36	39	22.20	22.12	22.11	23.5	2		
15	16QAM	75	0	22.23	22.08	22.03				
15	64QAM	1	0	22.31	22.32	22.28				
15	64QAM	1	37	22.64	22.47	22.36	23.5	2		
15	64QAM	1	74	22.35	22.27	22.38				
15	64QAM	36	0	21.44	21.44	21.56				
15	64QAM	36	20	21.77	21.64	21.56	22.5	3		
15	64QAM	36	39	21.76	21.46	21.47				
15	64QAM	75	0	21.67	21.47	21.56				
Channel				39700						



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)				18700	18900	19100			
20	QPSK	1	0	24.48	24.57	24.51			
20	QPSK	1	49	24.31	24.47	24.44	25.5	0	
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	23.28	23.50	23.46	24.5	1	
20	16QAM	1	99	23.33	23.60	23.30			
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	22.52			
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			
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	22.28	23.5	2	
15	16QAM	36	39	22.10	22.33	22.38			
15	16QAM	75	0	22.34	22.60	22.23			
15	64QAM	1	0	22.38	22.44	22.33			
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	21.29			
15	64QAM	75	0	21.08	21.35	21.43			
Channel				18550	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			
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	23.33	23.50	23.33			
10	16QAM	1	0	23.40	23.61	23.40			
10	16QAM	1	25	23.24	23.49	23.28	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	23.5	2	
10	16QAM	25	25	22.26	22.33	22.36			
10	16QAM	50	0	22.32	22.65	22.34			
10	64QAM	1	0	22.58	22.45	22.28	23.5	2	
10	64QAM	1	25	22.38	22.56	22.38			
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)				1852.5	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	24.13			
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	23.5	2	
5	16QAM	12	13	22.18	22.32	22.41			
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	21.45	22.5	3	
5	64QAM	12	13	21.36	21.54	21.34			
5	64QAM	25	0	21.18	21.30	21.44			
Channel				18815	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			
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	23.20			
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	23.5	2	
3	16QAM	8	7	22.21	22.47	22.40			
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	23.5	2	
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				18507	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			
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			
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			
1.4	64QAM	1	5	22.10	22.16	22.43	23.5	2	
1.4	64QAM	3	0	22.59	22.57	22.13			
1.4	64QAM	3	1	22.40	22.53	22.19			
1.4	64QAM	3	3	22.16	22.14	22.50			
1.4	64QAM	6	0	21.00	21.40	21.45	22.5	3	

Band 7 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				20850	21100	21350			
Frequency (MHz)				20850	21100	21350			
20	QPSK	1	0	22.14	22.33	22.02			
20	QPSK	1	49	22.08	22.28	22.07	23.5	0	
20	QPSK	1	99	22.19	22.10	21.91			
20	QPSK	50	0	22.13	22.20	21.94			
20	QPSK	50	24	22.06	22.14	22.04	23.5	0	
20	QPSK	50	50	21.91	22.12	21.89			
20	QPSK	100	0	22.05	22.13	21.83			
20	16QAM	1	0	22.07	22.24	21.97			
20	16QAM	1	49	22.00	22.27	21.96	23.5	0	
20	16QAM	1	99	21.96	22.27	22.00			
20	16QAM	50	0	21.99	22.29	21.82			
20	16QAM	50	24	21.89	22.21	21.97	23.5	0	
20	16QAM	50	50	22.15	21.90	21.82			
20	16QAM	100	0	21.96	22.07	21.79			
20	64QAM	1	0	21.87	22.10	21.98			
20	64QAM	1	49	21.86	21.92	21.68	23.5	0	
20	64QAM	1	99	22.02	22.05	21.83			
20	64QAM	50							



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					
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					
20	16QAM	50	24	19.41	19.58	19.35					
20	16QAM	50	50	19.54	19.56	19.50					
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					
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	18.46					
20	64QAM	50	50	18.57	18.45	18.79					
20	64QAM	100	0	18.55	18.78	18.83					
Channel				37825	38000	38175					
Frequency (MHz)				2577.5	2595	2612.5					
15	QPSK	1	0	19.57	19.60	19.81	21	0			
15	QPSK	1	37	19.42	19.79	19.51					
15	16QAM	1	0	19.29	19.56	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					
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	19.47	19.42	19.27					
15	16QAM	36	0	19.38	19.30	19.47					
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					
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					
Channel				37800	38000	38200					
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	19.45	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					
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					
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					
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					
Channel				37775	38000	38225					
Frequency (MHz)				2572.5	2595	2617.5					
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	19.63	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	19.46					
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					
5	16QAM	12	7	19.39	19.44	19.60					
5	16QAM	12	13	19.56	19.55	19.46					
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					
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					

Band 41 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				39750	40185	40620					
Frequency (MHz)				2506	2549.5	2593					
20	QPSK	1	0	19.65	19.72	19.92	21	0			
20	QPSK	1	49	19.59	19.58	19.90					
20	QPSK	1	99	19.62	19.64	19.74					
20	QPSK	50	0	19.58	19.67	19.75					
20	QPSK	50	24	19.36	19.59	19.69					
20	QPSK	50	50	19.34	19.53	19.62					
20	QPSK	100	0	19.46	19.63	19.72					
20	16QAM	1	0	19.54	19.69	19.72					
20	16QAM	1	49	19.68	19.42	19.59					
20	16QAM	1	99	19.50	19.63	19.72					
20	16QAM	50	0	19.66	19.66	19.52					
20	16QAM	50	24	19.64	19.59	19.72					
20	16QAM	50	50	19.37	19.34	19.72					
20	16QAM	100	0	19.59	19.46	19.74					
20	64QAM	1	0	19.72	19.38	19.64					
20	64QAM	1	49	19.56	19.35	19.53					
20	64QAM	1	99	19.39	19.48	19.51					
20	64QAM	50	0	18.46	18.73	18.89					
20	64QAM	50	24	18.66	18.56	18.79					
20	64QAM	50	50	18.49	18.70	18.82					
20	64QAM	100	0	18.54	18.76	18.79					
Channel				39725	40173	40620					
Frequency (MHz)				2503.5	2546.3	2593					
15	QPSK	1	0	19.47	19.55	19.80	21.00	0			
15	QPSK	1	37	19.46	19.37	19.83					
15	QPSK	1	74	19.46	19.46	19.64					
15	QPSK	36	0	19.53	19.60	19.84					
15	QPSK	36	20	19.46	19.55	19.88					
15	QPSK	36	39	19.66	19.74	19.82					
15	QPSK	75	0	19.44	19.62	19.70					
15	16QAM	1	0	19.56	19.61	19.84					
15	16QAM	1	37	19.64	19.63	19.73					
15	16QAM	1	74	19.46	19.55	19.69					
15	16QAM	36	0	19.59	19.53	19.96					
15	16QAM	36	20	19.64	19.64	19.79					
15	16QAM	36	39	19.60	19.62	19.88					
15	16QAM	75	0	19.38	19.36	19.62					
15	64QAM	1	0	19.52	19.35	19.65					
15	64QAM	1	37	19.52	19.29	19.35					
15	64QAM	1	74	19.39	19.32	19.34					
15	64QAM	36	0	18.41	18.71	18.84		</			



DSI4 Power Mode for Sensor on

GSM900 Ant 1 DSI4									
GSM900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	261		128	189	261		
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6		
GSM 1 Tx slot	32.06	32.09	32.03	33.50	23.05	23.09	23.03	24.50	
GPRS 1 Tx slots	32.15	32.18	32.16	33.50	23.15	23.16	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 DSI4									
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
Frequency (MHz)	1852.2	1930	1929.3		1852.2	1930	1929.3		
GSM 1 Tx slot	23.73	26.85	26.92	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	25.70	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	

Band	WCDMA II Ant 1 DSI4				WCDMA IV Ant 1 DSI4				WCDMA V Ant 1 DSI4				
	9250	9450	9638	9638	1312	1413	1513	1513	4152	4152	4233	4233	
TX Channel	9250	9450	9638	9638	1312	1413	1513	1513	4152	4152	4233	4233	
Rx Channel	9652	9950	9938	9938	1537	1638	1738	1738	4367	4407	4458	4458	
Frequency (MHz)	1852.4	1880	1907.6	1907.6	1712.4	1732.6	1752.8	1752.8	826.4	836.4	846.6	846.6	
3GPP Rel 99	AMR 12.2Kbps	20.40	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	HSDPA Subtest-1	18.43	18.54	18.46	19.50	18.59	18.50	18.47	19.50	23.02	23.61	23.66	24.50
3GPP Rel 6	HSDPA 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	HSDPA 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	HSDPA 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	18.38	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	22.96	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	HSUPA 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	HSUPA Subtest-2	18.49	18.59	18.50	17.50	18.60	18.42	18.40	17.50	21.56	21.48	21.63	23.00
3GPP Rel 6	HSUPA 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	HSUPA 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	HSUPA 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. 18700	Power Middle Ch. / Freq. 18900	Power High Ch. / Freq. 19100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.00	19.00	19.07	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		
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		
20	16QAM	1	0	19.96	20.26	19.78	21.5	0
20	16QAM	1	49	20.04	20.15	19.90		
20	16QAM	1	99	19.97	20.10	20.02		
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		
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	20.08	20.21	19.88		
20	64QAM	50	0	19.96	20.25	19.84		
20	64QAM	50	24	19.87	20.23	19.91		
20	64QAM	50	50	20.05	20.10	20.11	21.5	0
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	19.93	20.28	19.93		
15	QPSK	36	20	20.13	19.93	20.00		
15	QPSK	36	39	19.99	20.08	19.82	21.5	0
15	QPSK	75	0	19.81	19.95	19.78		
15	16QAM	1	0	20.04	20.16	19.78		
15	16QAM	1	37	19.85	20.13	19.82	21.5	0
15	16QAM	1	74	19.91	20.09	19.91		
15	16QAM	36	0	19.97	20.05	19.84		
15	16QAM	36	20	20.00	20.22	19.77	21.5	0
15	16QAM	36	39	19.96	20.02	19.89		
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	20.19	20.06		
15	64QAM	75	0	19.87	20.15	19.90		
Channel								
Frequency (MHz)								
10	QPSK	1	0	19.99	20.27	19.97	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		
10	QPSK	25	12	19.97	20.03	20.03	21.5	0
10	QPSK	25	25	19.80	20.09	19.89		
10	QPSK	50	0	20.05	20.22	19.74		
10	16QAM	1	0	19.91	20.11	19.79	21.5	0
10	16QAM	1	25	20.01	20.10	19.79		
10	16QAM	1	49	19.90	19.94	19.90		
10	16QAM	25	0	19.90	20.04	19.82		
10	16QAM	25	12	19.63	20.09	19.95	21.5	0
10	16QAM	25	25	19.80	20.12	19.89		
10	16QAM	50	0	19.94	20.12	19.79		
10	64QAM	1	0	19.87	20.25	19.77	21.5	0
10	64QAM	1	25	20.00	20.22	19.77		
10	64QAM	1	49	19.93	20.20	19.98		
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	19.87	21.5	0
5	QPSK	1	12	19.83	20.10	19.80		
5	QPSK	1	24	19.93	20.10	19.74		
5	QPSK	12	0	19.85	20.04	19.80		
5	QPSK	12	7	19.98	19.96	19.89	21.5	0
5	QPSK	12	13	19.64	20.09	19.88		
5	QPSK	25	0	19.89	20.00	19.77		
5	16QAM	1	0	20.02	20.28	19.79	21.5	0
5	16QAM	1	12	19.90	20.10	19.92		
5	16QAM	1	24	19.83	20.27	19.98		
5	16QAM	12	0	20.00	20.10	19.86	21.5	0
5	16QAM	12	7	19.79	19.95	19.92		
5	16QAM	12	13	19.70	19.92	19.74		
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	19.82	20.07	19.84	21.5	0
5	64QAM	12	13	19.90	19.91	20.02		
5	64QAM	25	0	19.78	20.18	19.89		
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		
3	QPSK	8	4	20.12	20.09	19.82	21.5	0
3	QPSK	8	7	19.74	19.86	19.69		
3	QPSK	15	0	19.93	19.93	19.84		
3	16QAM	1	0	19.84	20.24	19.80		
3	16QAM	1	8	20.02	20.12	19.76	21.5	0
3	16QAM	1	14	19.95	20.21	19.84		
3	16QAM	8	0	20.07	19.94	19.75		
3	16QAM	8	4	19.74	19.92	19.90	21.5	0
3	16QAM	8	7	19.74	19.95	19.67		
3	16QAM	15	0	19.95	20.12	19.96		
3	64QAM	1	0	19.95	20.25	19.85	21.5	0
3	64QAM	1	8	20.01	20.13	19.95		
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	19.83	21.5	0
3	64QAM	8	7	19.99	20.03	19.87		
3	64QAM	15	0	19.82	20.16	19.97		
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		
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	5	19.90	20.20	19.89		
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		
1.4	16QAM	6	0	19.95	20.03	19.83	21.5	0
1.4	64QAM	1	0	19.73	19.89	19.62		
1.4	64QAM	1	3	19.87	20.02	19.71		
1.4	64QAM	1	5	19.90	20.20	19.89	21.5	0
1.4	64QAM	3	0	19.77	20.14	19.81		
1.4	64QAM	3	1	19.89	20.24	19.75		
1.4	64QAM	3	3	19.91	19.99	20.08		
1.4	64QAM	6	0	19.87	20.11	19.88	21.5	0

Band 4 Ant1 DS14

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)								
20	QPSK	1	0	20.04	20.25	19.71	21.5	0
20	QPSK	1	49	20.01	20.14	20.05		
20	QPSK	1	99	20.08	20.05	20.01		
20	QPSK	50	0	20.03	20.12	20.10		
20	QPSK	50	24	20.00	19.99	19.96	21.5	0
20	QPSK	50	50	20.08	20.06	19.91		
20	QPSK	100	0	19.97	20.00	19.92		
20	16QAM	1	0	19.92	19.95	19.91	21.5	0
20	16QAM	1	49	20.05	20.05	19.84		
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	21.5	0
20	16QAM	50	50	19.96	20.02	20.05		
20	16QAM	100	0	19.98	19.93	19.87		
20	64QAM	1	0	19.99	20.01	20.02		
20	64QAM	1	49	19.85	19.95	20.12	21.5	0
20	64QAM	1	99	19.80	20.02	19.87		
20	64QAM	50	0	20.08	19.97	19.86		
20	64QAM	50	24	20.01	20.12	19.89		
20	64QAM	50	50	19.85	20.01	20.05	21.5	0
20	64QAM	100	0	19.89	20.03	19.92		
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	20.06	20.04		
15	QPSK	36	20	19.91	19.99	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	19.93	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	19.89	20.06	19.80	21.5	0
15	16QAM</							



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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.81	17.82	17.87		
20	QPSK	1	49	17.93	17.75	17.73	19	0
20	QPSK	1	99	17.91	17.87	17.64		
20	QPSK	50	0	17.68	17.87	17.82		
20	QPSK	50	24	17.71	17.73	17.72	19	0
20	QPSK	50	50	17.73	17.83	17.83		
20	QPSK	100	0	17.73	17.94	17.72		
20	16QAM	1	0	17.90	17.76	17.64		
20	16QAM	1	49	17.83	17.81	17.54	19	0
20	16QAM	1	99	17.80	17.93	17.64		
20	16QAM	50	0	17.81	17.61	17.82		
20	16QAM	50	24	17.77	17.69	17.52		
20	16QAM	50	50	17.61	17.81	17.74	19	0
20	16QAM	100	0	17.90	17.56	17.72		
20	64QAM	1	0	17.70	17.89	17.50		
20	64QAM	1	49	17.73	17.86	17.67	19	0
20	64QAM	1	99	17.80	17.86	17.52		
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		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.70	17.90	17.68		
15	QPSK	1	37	17.74	17.69	17.63	19	0
15	QPSK	1	74	17.71	17.67	17.59		
15	QPSK	36	0	17.82	17.70	17.69		
15	QPSK	36	20	17.72	17.67	17.72	19	0
15	QPSK	36	39	17.53	17.63	17.65		
15	QPSK	75	0	17.73	17.90	17.67		
15	16QAM	1	0	17.73	17.60	17.58		
15	16QAM	1	37	17.69	17.72	17.71	19	0
15	16QAM	1	74	17.79	17.80	17.60		
15	16QAM	36	0	17.75	17.53	17.50		
15	16QAM	36	20	17.82	17.84	17.69	19	0
15	16QAM	36	39	17.70	17.80	17.75		
15	16QAM	75	0	17.89	17.51	17.70		
15	64QAM	1	0	17.70	17.70	17.68		
15	64QAM	1	37	17.61	17.84	17.59	19	0
15	64QAM	1	74	17.60	17.56	17.51		
15	64QAM	36	0	17.80	17.61	17.76		
15	64QAM	36	20	17.72	17.80	17.69	19	0
15	64QAM	36	39	17.83	17.68	17.73		
15	64QAM	75	0	17.84	17.60	17.67		
Channel				20900	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.75	17.81	17.52		
10	QPSK	1	25	17.84	17.72	17.70	19	0
10	QPSK	1	49	17.81	17.86	17.65		
10	QPSK	25	0	17.61	17.81	17.71		
10	QPSK	25	12	17.60	17.62	17.67	19	0
10	QPSK	25	25	17.72	17.79	17.77		
10	QPSK	50	0	17.51	17.75	17.82		
10	16QAM	1	0	17.70	17.58	17.50		
10	16QAM	1	25	17.79	17.76	17.54	19	0
10	16QAM	1	49	17.79	17.86	17.68		
10	16QAM	25	0	17.75	17.51	17.57		
10	16QAM	25	12	17.59	17.57	17.87	19	0
10	16QAM	25	25	17.75	17.67	17.85		
10	16QAM	50	0	17.91	17.51	17.65		
10	64QAM	1	0	17.53	17.76	17.68	19	0
10	64QAM	1	25	17.56	17.76	17.60		
10	64QAM	1	49	17.72	17.54	17.75		
10	64QAM	25	0	17.75	17.55	17.71		
10	64QAM	25	12	17.68	17.73	17.59	19	0
10	64QAM	25	25	17.81	17.50	17.77		
10	64QAM	50	0	17.85	17.65	17.70		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.75	17.99	17.79		
5	QPSK	1	12	17.76	17.74	17.64	19	0
5	QPSK	1	24	17.76	17.83	17.80		
5	QPSK	12	0	17.67	17.86	17.77		
5	QPSK	12	7	17.54	17.53	17.71	19	0
5	QPSK	12	13	17.51	17.83	17.60		
5	QPSK	25	0	17.55	17.79	17.89		
5	16QAM	1	0	17.72	17.72	17.58		
5	16QAM	1	12	17.76	17.78	17.67	19	0
5	16QAM	1	24	17.78	17.87	17.65		
5	16QAM	12	0	17.73	17.50	17.63	19	0
5	16QAM	12	7	17.67	17.77	17.86		
5	16QAM	12	13	17.66	17.77	17.85		
5	16QAM	25	0	17.75	17.58	17.71		
5	64QAM	1	0	17.68	17.84	17.86		
5	64QAM	1	12	17.59	17.88	17.59	19	0
5	64QAM	1	24	17.59	17.50	17.71		
5	64QAM	12	0	17.74	17.68	17.69		
5	64QAM	12	7	17.73	17.85	17.58	19	0
5	64QAM	12	13	17.82	17.61	17.86		
5	64QAM	25	0	17.68	17.61	17.67		

Band 12 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				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.70	22.90	22.77		
10	QPSK	1	25	22.66	22.69	22.72	24	0
10	QPSK	1	49	22.49	22.74	22.76		
10	QPSK	25	0	22.63	22.75	22.62		
10	QPSK	25	12	22.63	22.67	22.70	24	0
10	QPSK	25	25	22.34	22.73	22.59		
10	QPSK	50	0	22.66	22.70	22.68		
10	16QAM	1	0	22.49	22.72	22.76		
10	16QAM	1	25	22.62	22.59	22.70	24	0
10	16QAM	1	49	22.47	22.69	22.78		
10	16QAM	25	0	22.18	22.13	21.91		
10	16QAM	25	12	22.13	22.06	22.16	23.5	0.5
10	16QAM	25	25	22.26	22.18	22.04		
10	16QAM	50	0	22.15	22.15	22.08		
10	64QAM	1	0	21.96	22.21	22.04		
10	64QAM	1	25	21.93	21.99	22.03	23.5	0.5
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	21.08	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		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.56	22.72	22.66		
5	QPSK	1	12	22.56	22.58	22.52	24	0
5	QPSK	1	24	22.34	22.61	22.55		
5	QPSK	12	0	22.35	22.30	22.44		
5	QPSK	12	7	22.56	22.50	22.65	24	0
5	QPSK	12	13	22.34	22.52	22.43		
5	QPSK	25	0	22.47	22.47	22.64		
5	16QAM	1	0	22.30	22.60	22.64		
5	16QAM	1	12	22.46	22.55	22.53	24	0
5	16QAM	1	24	22.45	22.62	22.73		
5	16QAM	12	0	21.99	21.94	21.80		
5	16QAM	12	7	21.95	21.98	22.02	23.5	0.5
5	16QAM	12	13	22.13	22.01	21.83		
5	16QAM	25	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	20.95	20.72		
5	64QAM	25	0	21.02	20.92	20.89		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.49	22.72	22.70		
3	QPSK	1	8	22.52	22.53	22.56	24	0
3	QPSK	1	14	22.45	22.68	22.73		
3	QPSK	8	0	22.47	22.65	22.41		
3	QPSK	8	4	22.64	22.58	22.58	24	0
3	QPSK	8	7	22.25	22.66	22.57		
3	QPSK	15	0	22.35	22.51	22.65		
3	16QAM							



Band 17 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				2370	2370	2380						
Frequency (MHz)				710	710	711						
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						
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						
10	16QAM	1	0	22.65	22.62	22.62						
10	16QAM	1	25	22.64	22.70	22.74	24	0				
10	16QAM	1	49	22.78	22.60	22.63						
10	16QAM	25	0	21.80	22.08	21.98						
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	21.94						
10	64QAM	1	25	22.01	21.94	21.99						
10	64QAM	1	49	22.01	21.95	22.15	23.5	0.5				
10	64QAM	25	0	20.87	21.09	20.89						
10	64QAM	25	12	20.97	21.14	20.80						
10	64QAM	25	25	21.01	20.94	21.09						
10	64QAM	50	0	20.88	21.04	21.03	22.5	1.5				
Channel				2375	2370	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						
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	22.62						
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						
5	16QAM	12	7	21.90	22.00	21.95						
5	16QAM	12	13	21.93	21.90	21.90	23.5	0.5				
5	16QAM	25	0	21.88	21.75	21.79						
5	64QAM	1	0	21.99	21.96	21.70						
5	64QAM	1	12	21.89	21.83	21.89						
5	64QAM	1	24	21.96	21.86	22.13	23.5	0.5				
5	64QAM	12	0	20.73	21.02	20.81						
5	64QAM	12	7	20.98	21.02	20.76						
5	64QAM	12	13	20.89	20.73	20.98						
5	64QAM	25	0	20.67	20.86	20.92	22.5	1.5				

Band 26 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				2675	2685	2695						
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						
15	QPSK	36	20	23.08	23.28	23.19	24.5	0				
15	QPSK	36	39	23.13	23.14	23.16						
15	QPSK	75	0	23.22	23.25	23.19						
15	16QAM	1	0	23.16	23.03	23.21						
15	16QAM	1	37	23.23	23.25	23.22	24.5	0				
15	16QAM	1	74	23.16	23.18	23.03						
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						
15	64QAM	1	74	22.16	22.23	22.07	23.5	1				
15	64QAM	36	0	21.09	20.99	21.01						
15	64QAM	36	20	21.05	21.15	21.21						
15	64QAM	36	39	21.16	21.10	21.04						
15	64QAM	75	0	21.02	20.90	21.03	22.5	2				
Channel				2674	2685	2699						
Frequency (MHz)				819	831.5	844						
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						
10	QPSK	25	12	22.98	23.10	23.19	24.5	0				
10	QPSK	25	25	22.95	23.08	23.11						
10	QPSK	50	0	23.13	23.17	23.05						
10	16QAM	1	0	23.04	22.86	23.01						
10	16QAM	1	25	23.16	23.22	23.12	24.5	0				
10	16QAM	1	49	23.10	23.05	22.84						
10	16QAM	25	0	22.08	21.90	21.88						
10	16QAM	25	12	22.11	21.96	21.93						
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						
10	64QAM	1	49	22.06	22.18	21.91	23.5	1				
10	64QAM	25	0	21.02	20.88	20.82						
10	64QAM	25	12	20.98	21.02	21.18						
10	64QAM	25	25	21.15	20.93	21.03						
10	64QAM	50	0	20.87	20.81	20.89	22.5	2				
Channel				2675	2685	27015						
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						
5	QPSK	12	7	23.06	23.26	23.01	24.5	0				
5	QPSK	12	13	23.11	23.10	23.08						
5	QPSK	25	0	23.06	23.16	23.16						
5	16QAM	1	0	23.06	22.87	23.17						
5	16QAM	1	12	23.07	23.07	23.10	24.5	0				
5	16QAM	1	24	23.01	23.05	22.98						
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	21.98	22.02						
5	64QAM	1	24	22.01	22.19	22.05	23.5	1				
5	64QAM	12	0	21.04	20.82	21.00						
5	64QAM	12	7	20.92	21.13	21.09						
5	64QAM	12	13	20.99	21.05	20.89						
5	64QAM	25	0	20.82	20.75	20.84	22.5	2				
Channel				26705	26855	27025						
Frequency (MHz)				816.5	831.5	847.5						
3	QPSK	1	0	23.29	23.29	23.11			24.5	0		
3	QPSK	1	8	23.08	23.26	23.13						
3	QPSK	1	14	23.02	23.13	23.13						
3	QPSK	8	0	23.12	23.13	23.25						
3	QPSK	8	4	22.93	23.19	23.16	24.5	0				
3	QPSK	8	7	23.02	23.12	23.07						
3	QPSK	15	0	23.19	23.20	23.04						
3	16QAM	1	0	23.08	22.93	23.19						
3	16QAM	1	8	23.06	23.13	23.12	24.5	0				
3	16QAM	1	14	23.09	23.14	22.97						
3	16QAM	8	0	22.11	21.99	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						
3	64QAM	1	14	22.18	22.20	22.07	23.5	1				
3	64QAM	8	0	20.96	20.83	20.82						
3	64QAM	8	4	20.94	20.96	21.16						
3	64QAM	8	7	21.07	20.96	21.03						
3	64QAM	15	0	20.87	20.81	20.96	22.5	2				
Channel				26987	26985	27033						
Frequency (MHz)				814.7	831.5	848.3						
1.4	QPSK	1	0	23.23	23.14	23.14			24.5	0		
1.4	QPSK	1	3	23.02	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						
1.4	QPSK	3	1	23.02	23.06	23.16	24.5	0				
1.4	QPSK	3	1	23.19	23.13	23.07						
1.4	QPSK	6	0	23.08	23.20	23.09						
1.4	16QAM	1	0	23.01	23.17	23.13						
1.4	16QAM	1	3	23.12	22.96	23.07	24.5	0				
1.4	16QAM	1	5	23.06	23.23	23.16						
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	64QAM	1	0	22.03	22.00	22.16						
1.4	64QAM	1	3	22.10	22.18	21.95						
1.4	64QAM	1	5	22.12	21.92	21.92	23.5	1				
1.4	64QAM	3	0	21.99	22.09	21.90						
1.4	64QAM	3	1	21.83	21.89	22.01						
1.4	64QAM	3	3	22.00	22.23	22.00						
1.4	64QAM	6	0	21.01	20.81</							



Band 38 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				37850	38000	38150					
Frequency (MHz)				2880	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	18.15	17.96	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	50	50	17.92	18.16	18.05	19.5	0			
20	16QAM	100	0	17.95	18.01	18.16					
20	64QAM	1	0	18.17	18.13	18.11					
20	64QAM	1	49	18.17	18.13	17.99	19.5	0			
20	64QAM	1	99	18.20	18.15	18.19					
20	64QAM	50	0	17.98	18.16	18.12					
20	64QAM	50	24	18.20	17.99	18.05	19.5	0			
20	64QAM	50	50	18.06	17.99	17.90					
20	64QAM	100	0	18.08	18.15	18.13					
Channel				37825	38000	38175					
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	17.50	17.73	17.81	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	17.81					
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	17.81					
15	64QAM	36	20	17.74	17.80	17.60	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					
Frequency (MHz)				2675	2595	2615					
10	QPSK	1	0	17.79	17.78	17.53	19.5	0			
10	QPSK	1	25	17.74	17.67	17.61					
10	QPSK	1	49	17.60	17.64	17.74					
10	QPSK	25	0	17.71	17.75	17.75	19.5	0			
10	QPSK	25	12	17.71	17.55	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	17.53	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					
Frequency (MHz)				2672.5	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	17.81	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 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				39750	40185	40620					
Frequency (MHz)				2506	2549.5	2593					
20	QPSK	1	0	18.33	18.30	18.38	19.5	0			
20	QPSK	1	49	18.05	18.04	18.28					
20	QPSK	1	99	18.09	18.20	18.28					
20	QPSK	50	0	18.27	18.31	18.35	19.5	0			
20	QPSK	50	24	18.29	17.96	18.25					
20	QPSK	50	50	18.08	18.02	18.12					
20	QPSK	100	0	18.23	18.21	18.31	19.5	0			
20	16QAM	1	0	18.37	18.20	18.24					
20	16QAM	1	49	18.35	18.00	18.23					
20	16QAM	1	99	18.19	18.02	18.29	19.5	0			
20	16QAM	50	0	18.11	18.16	18.24					
20	16QAM	50	24	18.21	18.22	18.14					
20	16QAM	50	50	17.99	18.21	18.26	19.5	0			
20	16QAM	100	0	18.12	18.29	18.31					
20	64QAM	1	0	18.11	18.31	18.18					
20	64QAM	1	49	18.21	18.16	18.27	19.5	0			
20	64QAM	1	99	18.04	18.26	18.24					
20	64QAM	50	0	18.27	17.95	18.15					
20	64QAM	50	24	18.14	18.02	18.11	19.5	0			
20	64QAM	50	50	18.13	18.17	18.24					
20	64QAM	100	0	18.25	18.18	18.26					
Channel				39725	40173	40620					
Frequency (MHz)				2503.5	2548.3	2593					
15	QPSK	1	0	17.50	17.62	17.82	19.50	0			
15	QPSK	1	37	17.67	17.55	17.57					
15	QPSK	1	74	17.61	17.63	17.68					
15	QPSK	36	0	17.50	17.69	17.82	19.5	0			
15	QPSK	36	20	17.58	17.57	17.75					
15	QPSK	36	39	17.61	17.66	17.74					
15	QPSK	75	0	17.63	17.74	17.72	19.5	0			
15	16QAM	1	0	17.68	17.55	17.75					
15	16QAM	1	37	17.67	17.52	17.68					
15	16QAM	1	74	17.67	17.64	17.73	19.5	0			
15	16QAM	36	0	17.54	17.69	17.82					
15	16QAM	36	20	17.66	17.66	17.77					
15	16QAM	36	39	17.55	17.70	17.68	19.5	0			
15	16QAM	75	0	17.67	17.56	17.68					
15	64QAM	1	0	17.59	17.74	17.70					
15	64QAM	1	37	17.64	17.54	17.65	19.5	0			
15	64QAM	1	74	17.62	17.62	17.77					
15	64QAM	36	0	17.64	17.69	17.76					
15	64QAM	36	20	17.64	17.65	17.57	19.5	0			
15	64QAM	36	39	17.51	17.65	17.70					
15	64QAM	75	0	17.55	17.64	17.66					
Channel				39700							



GSM900 Ant 2 DSK								
GSM900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
GSM 1 Tx slots	32.26	32.33	32.21	33.50	23.26	23.33	23.21	24.50
GPRS 1 Tx slots	32.34	32.38	32.29	33.50	23.34	23.38	23.29	24.50
GPRS 2 Tx slots	30.17	30.11	30.02	31.00	24.17	24.11	24.02	25.00
GPRS 3 Tx slots	28.40	28.43	28.30	29.50	24.14	24.17	24.04	25.24
GPRS 4 Tx slots	26.46	26.44	26.33	27.50	23.46	23.44	23.33	24.50
EDGE 1 Tx slot	27.96	27.30	27.39	28.00	18.06	18.30	18.39	19.00
EDGE 2 Tx slots	24.55	24.78	24.88	25.50	18.55	18.78	18.88	19.50
EDGE 3 Tx slots	22.84	23.03	23.19	24.00	16.89	16.77	16.93	17.74
EDGE 4 Tx slots	21.56	21.73	21.93	22.50	16.56	16.73	16.93	19.50

GSM1900 Ant 2 DSK								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1860	1869.8	1852.2	1860	1869.8	1852.2	1860
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	16.81	16.85	16.79	18.24
GPRS 4 Tx slots	19.49	19.26	19.61	20.50	16.49	16.26	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	17.74
EDGE 4 Tx slots	19.96	19.92	19.64	20.50	16.98	16.92	16.64	17.50

Band	WCDMA I Ant 2 DSK			WCDMA N Ant 2 DSK			WCDMA V Ant 2 DSK			Tune-up Limit (dBm)			
	WCDMA I	WCDMA IV	WCDMA V	WCDMA I	WCDMA IV	WCDMA V	WCDMA I	WCDMA IV	WCDMA V				
TX Channel	5262	9460	9538	1312	1413	1513	4132	4192	4233				
Rx Channel	9662	9690	9938	1537	1638	1738	4367	4407	4468				
Frequency (MHz)	1852.4	1860	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2kops	17.25	17.34	17.29	18.00	18.19	18.23	18.18	18.50	24.44	24.50	24.46	25.50
3GPP Rel 99	AMR 12.2kops	17.29	17.33	17.32	18.00	18.24	18.27	18.22	18.50	24.56	24.59	24.53	25.50
3GPP Rel 6	HSDPA 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
3GPP Rel 6	HSDPA 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
3GPP Rel 6	HSDPA Subtest-3	14.71	14.80	14.88	16.00	15.88	15.76	15.71	16.50	23.01	22.90	22.94	24.50
3GPP Rel 6	HSDPA Subtest-4	14.62	14.85	14.82	16.00	15.84	15.71	15.60	16.50	23.03	22.96	22.92	24.50
3GPP Rel 6	DC-HSDPA Subtest-1	15.33	15.46	15.35	16.00	16.28	16.28	16.18	16.50	23.45	23.53	23.69	25.00
3GPP Rel 6	DC-HSDPA Subtest-2	15.37	15.28	15.36	16.00	16.44	16.08	16.10	16.50	23.51	23.49	23.32	25.00
3GPP Rel 6	DC-HSDPA Subtest-3	14.75	14.80	14.81	16.00	15.86	15.87	15.67	16.50	22.97	22.97	22.85	24.50
3GPP Rel 6	DC-HSDPA Subtest-4	14.93	14.67	14.82	16.00	15.67	15.65	15.64	16.50	22.91	23.00	23.01	24.50
3GPP Rel 6	HSUPA 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
3GPP Rel 6	HSUPA Subtest-2	13.32	13.37	13.39	15.00	14.38	14.45	14.39	15.50	21.49	21.43	21.40	23.00
3GPP Rel 6	HSUPA Subtest-3	14.36	14.43	14.41	16.00	15.30	15.42	15.38	16.50	22.52	22.38	22.48	24.00
3GPP Rel 6	HSUPA Subtest-4	13.35	13.42	13.42	15.00	14.34	14.44	14.37	15.50	20.97	20.90	20.95	22.50
3GPP Rel 6	HSUPA 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



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	16.50	16.50	16.50	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	18	0
20	16QAM	1	49	16.70	16.86	16.83		
20	16QAM	1	99	16.56	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	18	0
20	64QAM	1	99	16.67	16.70	16.55		
20	64QAM	50	0	16.76	16.76	16.83		
20	64QAM	50	24	16.57	16.73	16.77	18	0
20	64QAM	50	50	16.57	16.79	16.69		
20	64QAM	100	0	16.53	16.91	16.85		
Channel								
Frequency (MHz)								
15	QPSK	1	0	16.52	16.79	16.77	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	16.94	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	16.80	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	16.62	16.51	18	0
15	16QAM	36	39	16.27	16.74	16.69		
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	18	0
15	64QAM	1	74	16.62	16.61	16.42		
15	64QAM	36	0	16.68	16.68	16.33		
15	64QAM	36	20	16.38	16.53	16.74	18	0
15	64QAM	36	39	16.52	16.73	16.49		
15	64QAM	75	0	16.50	16.69	16.61		
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	16.45	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	18	0
10	16QAM	25	25	16.46	16.74	16.75		
10	16QAM	50	0	16.47	16.73	16.37		
10	16QAM	50	25	16.61	16.49	16.51	18	0
10	16QAM	50	49	16.68	16.60	16.48		
10	64QAM	25	0	16.59	16.74	16.43		
10	64QAM	25	12	16.55	16.69	16.58	18	0
10	64QAM	25	25	16.53	16.64	16.61		
10	64QAM	50	0	16.36	16.83	16.43		
Channel								
Frequency (MHz)								
5	QPSK	1	0	16.50	16.76	16.78	18	0
5	QPSK	1	12	16.57	16.71	16.71		
5	QPSK	1	24	16.40	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	12	0	16.51	16.68	16.62		
5	16QAM	12	7	16.50	16.45	16.45	18	0
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	18	0
5	64QAM	1	24	16.59	16.60	16.42		
5	64QAM	12	0	16.66	16.77	16.54		
5	64QAM	12	7	16.50	16.53	16.56	18	0
5	64QAM	12	13	16.55	16.61	16.50		
5	64QAM	25	0	16.35	16.77	16.67		
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	5	16.54	16.69	16.57	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	18	0
1.4	16QAM	3	3	16.29	16.69	16.78		
1.4	16QAM	6	0	16.41	16.85	16.45	18	0
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	16.69	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	16.66	18	0
1.4	64QAM	6	0	16.51	16.84	16.58		

Band 4 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	17.68	17.25	17.53	19	0
20	QPSK	1	49	17.81	17.78	17.76		
20	QPSK	1	99	17.74	17.80	17.63		
20	QPSK	50	0	17.63	17.92	17.66		
20	QPSK	50	24	17.90	17.68	17.79	19	0
20	QPSK	50	50	17.84	17.55	17.58		
20	QPSK	100	0	17.80	17.88	17.62		
20	16QAM	1	0	17.62	17.76	17.58		
20	16QAM	1	49	17.83	17.78	17.79	19	0
20	16QAM	1	99	17.60	17.77	17.64		
20	16QAM	50	0	17.47	17.65	17.66		
20	16QAM	50	24	17.58	17.64	17.75		
20	16QAM	50	50	17.80	17.54	17.61	19	0
20	16QAM	100	0	17.77	17.76	17.83		
20	64QAM	1	0	17.73	17.79	17.51		
20	64QAM	1	49	17.47	17.87	17.70	19	0
20	64QAM	1	99	17.55	17.67	17.52		
20	64QAM	50	0	17.53	17.74	17.43		
20	64QAM	50	24	17.66	17.91	17.58		
20	64QAM	50	50	17.89	17.62	17.75	19	0
20	64QAM	100	0	17.79	17.50	17.61		
Channel								
Frequency (MHz)								
15	QPSK	1	0	17.48	17.84	17.70	19	0
15	QPSK	1	37	17.70	17.78	17.69		
15	QPSK	1	74	17.63	17.64	17.57		
15	QPSK	36	0	17.44	17.76	17.65		
15	QPSK	36	20	17.71	17.52	17.62	19	0
15	QPSK	36	39	17.72	17.44	17.52		
15	QPSK	75	0	17.69	17.49	17.45		
15	16QAM	1	0	17.41	17.71	17.48		
15	16QAM	1	37	17.62	17.58	17.57	19	0
15	16QAM	1	74	17.57	17.76	17.46		
15	16QAM	36	0	17.35	17.51	17.55		
15	16QAM	36	20	17.44	17.61	17.72	19	0
15	16QAM	36	39	17.76	17.47	17.43		
15	16QAM	75	0	17.58	17.56	17.82		
15	64QAM	1	0	17.73	17.61	17.32		
15	64QAM	1	37	17.44	17.68	17.65	19	0
15	64QAM	1	74	17.50	17.62	17.50		
15	64QAM	36	0	17.48	17.70	17.42		
15	64QAM	36	20	17.52	17.92	17.48	19	0
15	64QAM	36	39	17.88	17.44	17.27		
15	64QAM	75	0	17.67	17.50	17.54		
Channel								
Frequency (MHz)								
10	QPSK	1	0	17.60	17.75	17.62	19	0
10	QPSK	1	25	17.77	17.69	17.59		
10	QPSK	1	49	17.63	17.69	17.63		
10	QPSK	25	0	17.41	17.77	17.46		
10	QPSK	25	12	17.82	17.68	17.77	19	0
10	QPSK	25	25	17.72	17.41	17.55		
10	QPSK	50	0	17.76	17.91	17.61		
10	16QAM	1	0	17.45	17.55	17.36		
10	16QAM	1	25	17.48	17.77	17.62	19	0
10	16QAM	1	49	17.61	17.74	17.58		
10	16QAM	25	0	17.32	17.47	17.50		
10	16QAM	25	12	17.40	17.42	17.75	19	0
10	16QAM	25	25	17.80	17.41	17.46		
10	16QAM	50	0	17.57	17.65	17.71		
10	64QAM	1	0	17.64	17.63	17.22	19	0
10	64QAM	1	25	17.46	17.59	17.68		
10	64QAM	1	49	17.34	17.49	17.49		
10	64QAM	25						



Band 7 Ant2 DS14

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	20850	21100	21350		
Frequency (MHz)					
20 QPSK	1	0	17.57	17.57	17.74
20 QPSK	1	49	17.81	17.71	17.87
20 QPSK	1	99	17.68	17.78	17.85
20 QPSK	50	0	17.50	17.88	17.53
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
20 16QAM	1	0	17.81	17.69	17.69
20 16QAM	1	49	17.63	17.68	17.57
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
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
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
20 64QAM	50	50	17.75	17.59	17.84
20 64QAM	100	0	17.45	17.67	17.51
Channel					
Frequency (MHz)					
15 QPSK	1	0	17.54	17.76	17.54
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
15 QPSK	36	20	17.79	17.45	17.83
15 QPSK	36	39	17.50	17.44	17.44
15 QPSK	75	0	17.19	17.69	17.64
15 16QAM	1	0	17.64	17.55	17.50
15 16QAM	1	37	17.60	17.67	17.54
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
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	17.85
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
15 64QAM	36	39	17.39	17.52	17.41
15 64QAM	75	0	17.25	17.60	17.50
Channel					
Frequency (MHz)					
10 QPSK	1	0	17.40	17.85	17.85
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
10 QPSK	25	12	17.67	17.32	17.61
10 QPSK	25	25	17.35	17.48	17.53
10 QPSK	50	0	17.35	17.63	17.59
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
10 16QAM	25	0	17.58	17.68	17.72
10 16QAM	25	12	17.40	17.69	17.50
10 16QAM	25	25	17.56	17.62	17.67
10 16QAM	50	0	17.57	17.43	17.50
10 64QAM	1	0	17.44	17.85	17.63
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
10 64QAM	25	25	17.35	17.56	17.52
10 64QAM	50	0	17.46	17.59	17.44
Channel					
Frequency (MHz)					
5 QPSK	1	0	17.37	17.85	17.75
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
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
5 16QAM	1	0	17.69	17.57	17.51
5 16QAM	1	12	17.46	17.52	17.38
5 16QAM	1	24	17.40	17.82	17.59
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
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
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
5 64QAM	12	13	17.70	17.42	17.69
5 64QAM	25	0	17.28	17.55	17.41

Band 12 Ant2 DS14

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	23060	23095	23130		
Frequency (MHz)					
10 QPSK	1	0	24.34	24.53	24.34
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
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
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
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
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
10 64QAM	1	49	22.61	22.62	22.58
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
10 64QAM	50	0	21.44	21.37	21.32
Channel					
Frequency (MHz)					
5 QPSK	1	0	24.28	24.40	24.19
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
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
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
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
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
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
5 64QAM	12	13	21.33	21.22	21.29
5 64QAM	25	0	21.36	21.35	21.24
Channel					
Frequency (MHz)					
3 QPSK	1	0	24.28	24.38	24.25
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
3 QPSK	8	4	23.36	23.32	23.29
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
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
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
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
3 64QAM	8	7	21.23	21.40	21.16
3 64QAM	15	0	21.22	21.34	21.07
Channel					
Frequency (MHz)					
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	24.10	24.29
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
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
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	22.18	22.16
1.4 64QAM	1	0	22.19	22.21	22.20
1.4 64QAM	1	3	22.37	22.31	22.42
1.4 64QAM	1	5	22.30	22.50	22.32
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	21.27	21.05

Band 13 Ant2 DS14

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	23205	23230	23255		
Frequency (MHz)					
10 QPSK	1	0	24.51		
10 QPSK	1	25	24.48		25.5
10 QPSK	1				



Band 17 Ant2 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up	MPR
				Low Ch./Freq.	Middle Ch./Freq.	High Ch./Freq.		
Channel				2370	2370	2380		
Frequency (MHz)								
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		
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		
10	16QAM	1	0	23.51	23.52	23.54	24.5	1
10	16QAM	1	25	23.64	23.63	23.64		
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		
10	16QAM	50	0	22.27	22.26	22.27		
10	64QAM	1	0	22.40	22.42	22.43	23.5	2
10	64QAM	1	25	22.54	22.50	22.54		
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		
10	64QAM	25	25	21.29	21.26	21.28		
10	64QAM	50	0	21.25	21.23	21.24		
Channel				2375	2370	2382.5	Tune-up	MPR
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		
5	QPSK	12	13	23.05	23.19	23.18		
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	23.24		
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		
5	16QAM	25	0	21.97	21.84	22.00	23.5	2
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		
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		

Band 26 Ant2 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up	MPR
				Low Ch./Freq.	Middle Ch./Freq.	High Ch./Freq.		
Channel				2675	2685	2695		
Frequency (MHz)								
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		
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	24.5	1
15	16QAM	1	37	23.21	23.29	23.16		
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		
15	16QAM	75	0	22.33	22.36	22.36		
15	64QAM	1	0	22.22	22.24	22.12	23.5	2
15	64QAM	1	37	22.14	22.29	22.28		
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		
15	64QAM	36	39	21.22	21.34	21.20		
15	64QAM	75	0	21.27	21.43	21.30		
Channel				2674	2685	2699	Tune-up	MPR
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		
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		
10	16QAM	25	0	22.26	22.33	22.27		
10	16QAM	25	12	22.35	22.34	22.35		
10	16QAM	25	25	22.12	22.22	22.07		
10	16QAM	50	0	22.26	22.24	22.21	23.5	2
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		
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	21.25	21.39	21.26		
Channel				2675	2685	2701.5	Tune-up	MPR
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		
5	QPSK	12	13	23.14	23.26	23.16		
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		
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		
5	16QAM	25	0	22.26	22.27	22.26	23.5	2
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		
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		
Channel				2675	2685	2702.5	Tune-up	MPR
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	24.33		
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		
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	22.99	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		
3	16QAM	15	0	22.29	22.30	22.25	23.5	2
3	64QAM	1	0	22.17	22.21	22.02		
3	64QAM	1	8	22.00	22.19	22.25		
3	64QAM	1	14	21.95	22.09	22.13		
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		
Channel				2697	2685	2703	Tune-up	MPR
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	24.29	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		
1.4	QPSK	3	3	24.21	24.33	24.17		
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	23.07		
1.4	16QAM	1	5	22.97	23.14	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	22.11		
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		
Channel				13197	13232	13265.7	Tune-up	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	17.86	17.79	17.70	19	0
5	QPSK	1	12	17.67	17.65	17.81		
5	QPSK	1	24	17.76	17.88	17.54		
5	QPSK	12	0	17.76	17.65	17.75		
5	QPSK	12	7	17.55	17.53	17.53		
5	QPSK	12	13	17.76	17.77	17.65		
5	QPSK	25	0	17.72	17.69	17.69	19	0
5	16QAM	1	0	17.55	17.58	17.65		
5	16QAM	1	12	17.69	17.76	17.68		
5	16QAM	1	24	17.80	17.91	17.80		
5	16QAM	12	0	17.66	17.67	17.66		
5	16QAM	12	7	17.65	17.69	17.67		
5	16QAM	12	13	17.77	17.90	17.85		
5	16QAM	25	0	17.49	17.33	17.60	19	0
5	64QAM	1	0	17.53	17.76	17.60		
5	64QAM	1	12	17.71	17.80	17.68		
5	64QAM	1	24	17.66	17.43	17.56		
5	64QAM	12	0	17.69	17.77	17.62		
5	64QAM	12	7	17.66	17.79	17.66		



Band 38 Ant2 DSI4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2590	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	21	0		
20	QPSK	50	0	19.81	20.08	19.87				
20	QPSK	50	24	20.04	19.97	19.83	21	0		
20	QPSK	50	80	20.07	19.97	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	21	0		
20	16QAM	1	99	20.07	19.50	19.82				
20	16QAM	50	0	19.96	20.04	19.98	21	0		
20	16QAM	50	24	20.07	20.07	20.06				
20	16QAM	50	80	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	21	0		
20	64QAM	1	49	20.09	20.24	20.09				
20	64QAM	1	99	20.15	19.89	19.97	21	0		
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	80	19.93	20.05	19.90				
20	64QAM	100	0	20.08	19.88	19.90	21	0		
20	64QAM	100	0	20.08	19.88	19.90				
Channel				37825	38000	38175				
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	21	0		
15	QPSK	36	0	19.76	19.97	19.77				
15	QPSK	36	20	19.95	19.84	19.70	21	0		
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	21	0		
15	16QAM	1	74	19.98	19.57	19.70				
15	16QAM	36	0	19.86	19.80	19.82	21	0		
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	21	0		
15	64QAM	1	37	19.89	20.10	20.00				
15	64QAM	1	74	20.01	19.87	19.79	21	0		
15	64QAM	36	0	19.86	19.80	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	21	0		
15	64QAM	75	0	20.08	19.69	19.92				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.87	19.73	19.82	21	0		
10	QPSK	1	25	19.87	19.80	19.78				
10	QPSK	1	49	19.80	19.56	19.85	21	0		
10	QPSK	25	0	19.84	19.71	19.74				
10	QPSK	25	12	20.07	19.90	19.85	21	0		
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	19.80	19.78	21	0		
10	16QAM	1	49	19.73	19.52	19.58				
10	16QAM	25	0	19.86	19.70	19.73	21	0		
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	21	0		
10	64QAM	1	25	20.02	20.04	19.98				
10	64QAM	1	49	19.77	19.64	19.83	21	0		
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	21	0		
10	64QAM	50	0	19.90	19.56	19.85				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	19.89	19.73	19.84	21	0		
5	QPSK	1	12	19.75	19.61	19.86				
5	QPSK	1	24	19.67	19.58	19.92	21	0		
5	QPSK	12	0	19.88	19.79	19.67				
5	QPSK	12	7	19.86	19.71	19.70	21	0		
5	QPSK	12	13	19.99	19.56	19.79				
5	QPSK	25	0	19.89	19.72	19.84	21	0		
5	16QAM	1	0	19.59	19.96	19.53				
5	16QAM	1	12	19.71	19.84	19.75	21	0		
5	16QAM	1	24	19.82	19.55	19.56				
5	16QAM	12	0	19.78	19.60	19.59	21	0		
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	21	0		
5	64QAM	1	12	19.86	19.84	19.94				
5	64QAM	1	24	20.02	19.80	19.72	21	0		
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	21	0		
5	64QAM	25	0	19.78	19.61	19.91				

Band 41 Ant2 DSI4										
RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel		39750	40186	40620	41065	41490				
Frequency (MHz)		2596	2549.5	2593	2636.5	2680				
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	21.5	0		
50	0	20.01	20.07	20.33	20.00	20.26				
50	24	20.05	20.10	20.19	20.31	20.27	21.5	0		
50	50	20.14	20.08	20.28	20.23	20.21				
100	0	20.18	20.25	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	21.5	0		
1	99	20.35	20.26	20.32	20.17	20.12				
50	0	20.18	20.06	20.41	20.16	20.29	21.5	0		
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	21.5	0		
1	49	20.11	20.15	20.13	20.26	20.36				
1	99	20.07	20.10	20.39	20.03	20.19	21.5	0		
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	20.35	20.21	20.35	20.10	20.35				
100	0	20.32	20.08	20.35	20.21	20.20	21.5	0		
100	0	20.32	20.08	20.35	20.21	20.20				
Channel		39725	40173	40620	41068	41515				
Frequency (MHz)		2593.5	2548.3	2593	2637.8	2682.5				
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	21.5	0		
36	0	19.85	19.98	20.16	20.09	20.24				
36	20	20.02	20.11	20.00	20.32	20.22	21.5	0		
36	39	20.12	20.07	20.23	20.21	20.22				
75	0	20.10	20.22	20.28	20.19	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	21.5	0		
1	74	20.30	20.14	20.28	20.25	20.08				
36	0	20.13	20.09	20.16	20.09	20.14	21.5	0		
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	21			



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 DS12**

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 DS14

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 1 DS14

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		
37550	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 1 DS14

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
41480	41292	QPSK	1	0	1	99	18.17	19.50

Ant 2 DS11&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 DS11

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		
37550	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 DS11

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
41480	41292	QPSK	1	0	1	99	20.74	22.00

Ant 2 DS12

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 2 DS14

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		
37550	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 2 DS14

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
41480	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	24.06	24.18	
	Band 2	2	20M	1880	18900	QPSK	1	0	Band 4	20M	2133	2175	22.47	22.58	
CA_2A-5A	Band 4	1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1980	900	23.95	24.16	
	Band 4	2	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1980	900	22.63	22.77	
CA_2A-7A	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	
CA_2A-12A	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1980	900	24.03	24.24	
	Band 5	2	10M	836.5	20525	QPSK	1	0	Band 2	20M	1980	900	24.28	24.46	
CA_2A-66A	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	
CA_2A-12A	Band 7	1	20M	2535	21100	QPSK	1	0	Band 2	20M	1980	900	23.78	23.92	
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 2	20M	1980	900	22.76	22.82	
CA_2A-66A	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	
CA_2A-66A	Band 12	1	10M	707.5	23095	QPSK	1	0	Band 2	20M	1980	900	24.08	24.27	
	Band 12	2	10M	707.5	23095	QPSK	1	0	Band 2	20M	1980	900	24.34	24.53	
CA_2A-66A	Band 2	1	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	68886	24.02	24.18	
	Band 2	2	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	68886	22.44	22.58	
CA_4A-5A	Band 66	1	20M	1745	132322	QPSK	1	0	Band 2	20M	1980	900	24.09	24.20	
	Band 66	2	20M	1745	132322	QPSK	1	0	Band 2	20M	1980	900	22.83	22.96	
CA_4A-7A	Band 4	1	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	23.97	24.16	
	Band 4	2	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	22.65	22.77	
CA_4A-7A	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-12A	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	
CA_4A-12A	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-17A	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	
CA_4A-17A	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	
CA_5A-7A	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	
CA_5A-7A	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	68886	24.03	24.24	
	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	68886	24.32	24.46	
CA_5A-66A	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-66A	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	
CA_5A-66A	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	68886	23.76	23.92	
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	68886	22.70	22.82	
CA_7A-66A	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	68886	24.11	24.27	
	Band 12	2	10M	707.5	23095	QPSK	1	0	Band 66	20M	2155	68886	24.38	24.53	
CA_12A-66A	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	
CA_38A-38A	Band 38	1	20M	2595	38000	QPSK	1	0	Band 38	5M	2618	38225	21.62	21.82	
	Band 38	2	20M	2595	38000	QPSK	1	0	Band 38	5M	2618	38225	21.62	21.82	
CA_41C	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	20M	2613	40818	24.19	24.31	
	Band 41	2	20M	2593	40620	QPSK	1	0	Band 41	20M	2613	40818	24.13	24.34	
CA_41A-41A	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	5M	2688	41565	24.15	24.31	
	Band 41	2	20M	2593	40620	QPSK	1	0	Band 41	5M	2688	41565	24.18	24.34	
CA_66A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	5M	2196	67311	24.00	24.20	
	Band 66	2	20M	1745	132322	QPSK	1	0	Band 66	5M	2196	67311	22.75	22.96	
CA_66B	Band 66	1	15M	1745	132322	QPSK	1	0	Band 66	5M	2164	66979	23.83	24.02	
	Band 66	2	15M	1745	132322	QPSK	1	0	Band 66	5M	2164	66979	22.92	22.96	
CA_66C	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	20M	2175	67084	24.05	24.20	
	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 %	
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 %	
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 %	
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	5260	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 %	
802.11a 6Mbps	100	5500	13.50	14.50	11.50	11.50	97.40	
	116	5580	13.40	14.50				
	124	5620	13.19	14.50				
	132	5660	12.97	14.50				
	140	5700	13.40	14.50				
	144	5720	13.30	14.50				
802.11n-HT20 MCS0	100	5500	13.10	14.50	11.50	11.50	97.20	
	116	5580	13.10	14.50				
	124	5620	12.96	14.50				
	132	5660	12.85	14.50				
	140	5700	13.00	14.50				
	144	5720	13.20	14.50				
802.11n-HT40 MCS0	102	5510	12.30	14.00	11.50	11.50	95.00	
	110	5550	13.10	14.50				
	128	5630	12.81	14.50				
	134	5670	13.10	14.50				
802.11ac-VHT20 MCS0	100	5500	13.00	14.50	11.50	11.50	97.30	
	116	5580	13.00	14.50				
	124	5620	12.67	14.50				
	132	5660	12.53	14.00				
	140	5700	12.90	14.00				
	144	5720	13.10	14.00				
802.11ac-VHT40 MCS0	102	5510	12.20	14.00	11.50	11.50	94.80	
	110	5550	13.00	14.50				
	128	5630	12.81	14.50				
	134	5670	13.00	14.50				
802.11ac-VHT80 MCS0	106	5530	12.30	14.00	10.03	11.50	90.10	
	122	5610	13.30	14.50				
	138	5690	12.90	14.50				
	142	5710	13.10	14.50				

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 %	
802.11a 6Mbps	149	5745	13.40	14.50	12.50	12.50	97.40	
	157	5785	13.70	14.50				
	165	5825	13.70	14.50				
802.11n-HT20 MCS0	149	5745	13.30	14.50	12.50	12.50	97.20	
	157	5785	13.50	14.50				
	165	5825	13.50	14.50				
802.11n-HT40 MCS0	151	5755	13.30	14.50	12.50	12.50	94.80	
	159	5795	13.50	14.50				
802.11ac-VHT20 MCS0	149	5745	13.20	14.50	12.50	12.50	97.30	
	157	5785	13.40	14.50				
	165	5825	13.40	14.50				
802.11ac-VHT40 MCS0	151	5755	13.20	14.50	12.50	12.50	94.80	
	159	5795	13.40	14.50				
	155	5775	13.60	14.50				11.06

**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 76	2480	8.01	5.78	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	-4.61
	CH 19	2440	-3.11
	CH 39	2480	-3.73
Tune-up Limit			0.00