



Default Power for WWAN

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.51	32.65	32.49	33.50	23.51	23.55	23.49	24.50
GPRS 1 Tx slot	32.54	32.57	32.54	33.50	23.54	23.57	23.54	24.50
GPRS 2 Tx slots	31.55	31.56	31.58	32.50	25.55	25.56	25.58	26.50
GPRS 3 Tx slots	29.46	29.49	29.52	30.50	25.20	25.23	25.26	26.24
GPRS 4 Tx slots	28.33	28.41	28.38	29.50	25.33	25.41	25.38	26.50
EDGE 1 Tx slot	26.34	26.54	26.55	27.50	17.34	17.54	17.55	18.50
EDGE 2 Tx slots	25.27	25.35	25.36	26.50	19.27	19.35	19.36	20.50
EDGE 3 Tx slots	22.89	22.87	22.79	24.00	18.63	18.61	18.53	19.74
EDGE 4 Tx slots	21.48	21.42	21.46	22.50	18.48	18.42	18.46	19.50

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1830	1809.8		1850.2	1830	1809.8	
GSM 1 Tx slot	30.01	30.02	29.78	31.00	21.01	21.02	20.78	22.00
GPRS 1 Tx slot	30.13	30.17	29.83	31.00	21.13	21.17	20.83	22.00
GPRS 2 Tx slots	28.93	29.02	28.73	30.00	22.93	23.02	22.73	24.00
GPRS 3 Tx slots	26.46	26.60	26.43	27.50	22.20	22.34	22.17	23.24
GPRS 4 Tx slots	23.35	25.51	25.39	28.50	22.35	22.51	22.39	23.50
EDGE 1 Tx slot	25.70	25.77	25.44	27.00	16.70	16.77	16.44	18.00
EDGE 2 Tx slots	24.93	24.88	24.49	26.00	18.93	18.88	18.49	20.00
EDGE 3 Tx slots	22.58	22.45	22.00	23.50	18.32	18.19	17.74	19.24
EDGE 4 Tx slots	21.15	21.09	20.40	22.00	18.15	18.09	17.40	19.00

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V			Tune-up Limit (dBm)		
	9262	9400	9538		1312	1413	1513	4132	4182	4233			
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1722.6	1752.6	828.4	838.4	868.6			
3GPP Rel 99	23.56	23.58	23.57	24.50	23.62	23.61	23.59	24.50	23.11	23.13	23.15	24.50	
3GPP Rel 99	RMC 12.2Kbps	23.67	23.68	23.58	24.50	23.64	23.65	23.61	24.50	23.16	23.18	23.16	24.50
3GPP Rel 6	HSDPA Subtest-1	22.47	22.34	22.28	23.50	22.37	22.30	22.29	23.50	21.97	21.94	22.01	23.50
3GPP Rel 6	HSDPA Subtest-2	22.38	22.25	22.17	23.50	22.26	22.31	22.25	23.50	22.01	21.85	21.91	23.50
3GPP Rel 6	HSDPA Subtest-3	21.88	21.73	21.69	23.00	21.79	21.81	21.79	23.00	21.50	21.43	21.45	23.00
3GPP Rel 6	HSDPA Subtest-4	21.87	21.69	21.67	23.00	21.87	21.79	21.81	23.00	21.47	21.31	21.30	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.36	22.31	22.28	23.50	22.08	22.11	22.15	23.50	21.82	21.88	21.82	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.28	22.22	22.20	23.50	22.05	22.09	22.18	23.50	21.81	21.84	21.79	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.63	21.65	21.59	23.00	21.62	21.68	21.70	23.00	21.31	21.36	21.28	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.61	21.53	21.58	23.00	21.62	21.64	21.69	23.00	21.26	21.28	21.19	23.00
3GPP Rel 6	HSUPA Subtest-1	20.51	20.52	20.52	21.50	20.51	20.55	20.55	21.50	19.88	19.92	19.88	21.50
3GPP Rel 6	HSUPA Subtest-2	20.44	20.35	20.27	21.50	20.36	20.39	20.31	21.50	19.91	19.94	19.99	21.50
3GPP Rel 6	HSUPA Subtest-3	21.45	21.39	21.26	22.50	21.40	21.39	21.31	22.50	20.85	20.92	20.92	22.50
3GPP Rel 6	HSUPA Subtest-4	20.02	19.87	19.76	21.00	19.90	19.87	19.82	21.00	19.45	19.46	19.44	21.00
3GPP Rel 6	HSUPA Subtest-5	21.40	21.30	21.20	22.50	21.30	21.24	21.28	22.50	21.16	20.80	20.90	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.59	20.54	20.51	21.50	20.52	20.57	20.56	21.50	20.53	20.59	20.56	21.50



Band 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 19150	Power Middle Ch. / Freq. 19160	Power High Ch. / Freq. 19165	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	24.40	24.40	24.41	25	0
20	QPSK	1	49	24.35	24.21	24.25		
20	QPSK	1	99	24.03	23.62	23.97		
20	QPSK	50	0	23.46	23.21	23.23		
20	QPSK	50	24	23.45	23.42	23.35		
20	QPSK	50	50	23.44	23.26	23.26		
20	QPSK	100	0	23.46	23.48	23.27		
20	16QAM	1	0	23.17	23.33	23.21		
20	16QAM	1	49	23.95	23.94	23.52		
20	16QAM	1	99	23.59	23.15	23.25		
20	16QAM	50	0	22.51	22.34	22.33		
20	16QAM	50	24	22.48	22.31	22.29		
20	16QAM	50	50	22.44	22.18	22.13		
20	16QAM	100	0	22.47	22.26	22.21		
Channel								
Frequency (MHz)								
15	QPSK	1	0	1857.5	1859	1862.5	25	0
15	QPSK	1	37	24.26	24.24	24.15		
15	QPSK	1	74	24.24	24.43	24.52		
15	QPSK	36	0	24.21	24.13	24.02		
15	QPSK	36	36	23.91	23.42	23.29		
15	QPSK	36	72	23.86	23.17	23.13		
15	QPSK	36	39	23.47	23.24	23.17		
15	QPSK	72	0	23.45	23.38	23.29		
15	16QAM	7	0	23.50	23.44	23.35		
15	16QAM	1	37	23.86	23.51	23.53		
15	16QAM	1	74	23.46	23.27	23.23		
15	16QAM	36	0	22.52	22.36	22.31		
15	16QAM	36	20	22.48	22.34	22.24		
15	16QAM	36	39	22.41	22.24	22.21		
15	16QAM	72	0	22.49	22.28	22.18		
Channel								
Frequency (MHz)								
10	QPSK	1	0	18650	18660	18670	25	0
10	QPSK	1	29	24.29	24.29	24.17		
10	QPSK	1	49	24.01	24.37	24.24		
10	QPSK	25	0	23.56	23.42	23.33		
10	QPSK	25	25	23.50	23.38	23.29		
10	QPSK	25	25	23.45	23.31	23.22		
10	QPSK	50	0	23.53	23.39	23.31		
10	16QAM	1	19	23.65	23.48	23.45		
10	16QAM	1	29	23.68	23.48	23.40		
10	16QAM	1	49	23.60	23.39	23.25		
10	16QAM	25	0	22.51	22.35	22.23		
10	16QAM	25	12	22.47	22.31	22.22		
10	16QAM	25	25	22.43	22.24	22.21		
10	16QAM	50	0	22.49	22.30	22.23		
Channel								
Frequency (MHz)								
5	QPSK	1	0	18625	18630	18635	25	0
5	QPSK	1	12	24.26	24.46	24.37		
5	QPSK	1	24	24.05	24.15	24.13		
5	QPSK	12	0	23.28	23.45	23.37		
5	QPSK	12	7	23.24	23.45	23.31		
5	QPSK	12	13	23.38	23.39	23.35		
5	QPSK	25	0	23.48	23.47	23.32		
5	16QAM	1	13	23.36	23.50	23.35		
5	16QAM	1	15	23.37	23.36	23.45		
5	16QAM	1	24	23.38	23.48	23.35		
5	16QAM	12	0	22.23	22.28	22.30		
5	16QAM	12	7	22.28	22.32	22.21		
5	16QAM	12	13	22.21	22.07	22.18		
5	16QAM	25	0	22.26	22.38	22.19		
Channel								
Frequency (MHz)								
3	QPSK	1	0	18615	18620	18625	25	0
3	QPSK	1	8	24.44	24.28	24.40		
3	QPSK	1	14	24.12	24.10	24.17		
3	QPSK	8	0	23.36	23.35	23.35		
3	QPSK	8	4	23.43	23.41	23.35		
3	QPSK	8	7	23.39	23.41	23.19		
3	QPSK	15	0	23.42	23.35	23.27		
3	16QAM	1	0	23.44	23.45	23.41		
3	16QAM	1	8	23.40	23.45	23.33		
3	16QAM	1	14	23.32	23.29	23.29		
3	16QAM	8	0	22.25	22.33	22.20		
3	16QAM	8	4	22.41	22.28	22.17		
3	16QAM	8	7	22.19	22.29	22.18		
3	16QAM	15	0	22.40	22.30	22.24		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	18507	18507	18503	25	0
1.4	QPSK	1	2	24.50	24.49	24.42		
1.4	QPSK	1	5	24.05	24.02	23.91		
1.4	QPSK	3	0	24.38	24.11	24.16		
1.4	QPSK	3	1	24.02	24.01	23.95		
1.4	QPSK	3	3	24.00	23.99	24.09		
1.4	16QAM	1	0	23.89	23.92	23.84		
1.4	16QAM	1	3	23.07	23.11	23.14		
1.4	16QAM	1	5	22.97	23.09	22.98		
1.4	16QAM	3	0	23.09	23.06	23.19		
1.4	16QAM	3	1	23.11	23.06	23.00		
1.4	16QAM	3	3	22.93	23.06	23.03		
1.4	16QAM	6	0	21.97	22.12	22.19		

Band 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20150	Power Middle Ch. / Freq. 20155	Power High Ch. / Freq. 20160	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	1720	1722.5	1725	25	0
20	QPSK	1	49	24.37	24.23	24.24		
20	QPSK	1	99	24.22	23.89	24.20		
20	QPSK	50	0	23.67	23.69	23.88		
20	QPSK	50	24	23.38	23.31	23.23		
20	QPSK	50	24	23.27	23.22	23.25		
20	QPSK	50	50	23.18	23.24	23.22		
20	QPSK	100	0	23.19	23.24	23.15		
20	16QAM	1	0	23.19	23.31	23.23		
20	16QAM	1	49	23.97	23.92	23.36		
20	16QAM	1	99	23.13	23.08	23.11		
20	16QAM	50	0	22.25	22.26	22.17		
20	16QAM	50	24	22.26	22.22	22.17		
20	16QAM	50	50	22.15	22.21	22.17		
20	16QAM	100	0	22.17	22.23	22.14		
Channel								
Frequency (MHz)								
15	QPSK	1	0	1717.5	1722.5	1727.5	25	0
15	QPSK	1	37	24.12	24.19	24.19		
15	QPSK	1	74	23.81	23.96	23.82		
15	QPSK	36	0	23.71	23.69	23.88		
15	QPSK	36	36	23.50	23.43	23.19		
15	QPSK	36	72	23.36	23.07	23.28		
15	QPSK	36	39	23.26	23.31	23.24		
15	QPSK	72	0	23.29	23.21	23.30		
15	16QAM	7	0	23.24	23.37	23.28		
15	16QAM	1	37	23.39	23.46	23.43		
15	16QAM	1	74	23.17	23.12	23.18		
15	16QAM	36	0	22.20	22.17	22.15		
15	16QAM	36	20	22.16	22.28	22.22		
15	16QAM	36	39	22.17	22.23	22.13		
15	16QAM	72	0	22.24	22.08	22.31		
Channel								
Frequency (MHz)								
10	QPSK	1	0	2000	2017.5	20350	25	0
10	QPSK	1	29	24.15	24.14	24.15		
10	QPSK	1	49	23.88	23.71	23.99		
10	QPSK	25	0	23.79	23.86	23.24		
10	QPSK	25	0	23.18	23.26	23.19		
10	QPSK	25	25	23.15	23.22	23.25		
10	QPSK	25	25	23.15	23.31	23.27		
10	QPSK	50	0	23.15	23.25	23.27		
10	16QAM	1	19	23.17	23.27	23.31		
10	16QAM	1	29	23.31	23.48	23.45		
10	16QAM	1	49	23.09	23.11	23.12		
10	16QAM	25	0	22.52	22.53	22.11		
10	16QAM	25	12	22.19	22.15	22.18		
10	16QAM	25	25	22.15	22.13	22.08		
10	16QAM	50	0	22.15	22.31	22.25		
Channel								
Frequency (MHz)								
5	QPSK	1	0	1997.5	2017.5	2037.5	25	0
5	QPSK	1	12	24.13	24.18	24.14		
5	QPSK	1	12	23.74	23.61	23.77		
5	QPSK	12	24	23.72	23.69	23.71		
5	QPSK	12	0	23.20	23.21	23.29		
5	QPSK	12	7	23.26	23.26	23.24		
5	QPSK	12	13	23.31	23.22	23.13		
5	QPSK	25	0	23.27	23.17	23.22		
5	16QAM	1	0	23.36	23.22	23.18		
5	16QAM	1	13	23.39	23.53	23.48		
5	16QAM	1	24	23.17	23.08	23.05		
5	16QAM	12	0	22.16	22.18	22.18		
5	16QAM	12	7	22.24	22.09	22.20		
5	16QAM	12	13	22.15	22.27	22.11		
5	16QAM	25	0	22.11	22.24	22.14		
Channel								
Frequency (MHz)								
3	QPSK	1	0	1996.5	2017.5	2038.5	25	0
3	QPSK	1	8	24.10	24.15	24.14		
3	QPSK	1	14	23.77	23.87	23.77		
3	QPSK	8	0	23.21	23.24	23.24		
3	QPSK	8	4	23.21	23.31	23.20		
3	QPSK	8	7	23.31	23.14	23.24		
3	QPSK	15	0	23.24	23.24	23.15		
3	16QAM	1	0	23.27	23.34	23.27		
3	16QAM	1	8	23.07	23.41	23.50		
3	16QAM	1	14	23.13	23.14	23.14		
3	16QAM	8	0	22.23	22.12	22.22		
3	16QAM	8	4	22.25	22.25	22.16		
3	16QAM	8	7	22.16	22.12	22.31		
3	16QAM	15	0	22.19	22.03	22.23		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	1710.7	1722.5	1724.3	25	0
1.4	QPSK	1	2	24.01	24.01	24.03		
1.4	QPSK	1	5	23.85	23.85	23.91		
1.4	QPSK	3	0	23.96	23.89	23.77		
1.4	QPSK	3	1	23.80	23.81	23.83		
1.4	QPSK	3	3	23.76	23.81	23.87		
1.4	QPSK	3	3	23.94	23.91	23.77		
1.4	16QAM	1	0	22.97	23.05	23.05		
1.4	16QAM	1	3	23.04	23.04	22.83		
1.4	16QAM	1	5	23.00	23.01	22.83		
1.4	16QAM	3	0	22.91	22.98	23.03		
1.4	16QAM	3	1	22.82	22.96	22.92		
1.4	16QAM	3	3	22.86	23.05	23.06		
1.4	16QAM	6	0	22.87	22.86	22.86		
1.4	16QAM	6	0	22.13	22.05	22.08		



Band 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq 24460	Power Middle Ch. Freq 24600	Power High Ch. Freq 24660	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.19	24.23	24.25	25	0		
10	QPSK	1	25	24.11	24.24	24.02				
10	QPSK	1	49	24.06	24.15	24.00				
10	QPSK	25	0	23.30	23.32	23.26				
10	QPSK	25	12	23.26	23.30	23.21				
10	QPSK	25	25	23.17	23.20	23.16				
10	QPSK	50	0	23.33	23.35	23.28				
10	QPSK	1	0	23.42	23.37	23.31				
10	16QAM	1	25	23.38	23.46	23.44				
10	16QAM	1	49	23.33	23.29	23.34				
10	16QAM	25	0	22.27	22.21	22.25	24	1		
10	16QAM	25	12	22.26	22.31	22.20				
10	16QAM	25	25	22.28	22.18	22.19				
10	16QAM	50	0	22.27	22.19	22.26				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.22	24.27	24.21			25	0
5	QPSK	1	12	24.23	24.22	24.11				
5	QPSK	1	24	23.95	23.98	23.96				
5	QPSK	12	0	23.38	23.42	23.31				
5	QPSK	12	7	23.21	23.19	23.11				
5	QPSK	12	13	23.27	23.07	23.08				
5	QPSK	25	0	23.44	23.25	23.30				
5	16QAM	1	0	23.30	23.47	23.22				
5	16QAM	1	12	23.36	23.40	23.40				
5	16QAM	12	0	22.29	22.15	22.21				
5	16QAM	12	7	22.20	22.27	22.29	23	2		
5	16QAM	12	13	22.03	22.15	22.21				
5	16QAM	25	0	22.24	22.05	22.28				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.22	24.13	24.15			25	0
3	QPSK	1	8	24.21	24.24	24.16				
3	QPSK	1	14	24.08	24.05	24.06				
3	QPSK	8	0	23.42	23.32	23.22				
3	QPSK	8	4	23.22	23.26	23.22				
3	QPSK	8	7	23.19	23.27	23.07				
3	QPSK	15	0	23.30	23.28	23.24				
3	16QAM	1	0	23.45	23.28	23.48				
3	16QAM	1	8	23.50	23.52	23.48				
3	16QAM	1	14	23.36	23.22	23.18				
3	16QAM	8	0	22.29	22.18	22.17	24	1		
3	16QAM	8	4	22.14	22.23	22.11				
3	16QAM	8	7	22.18	22.04	22.03				
3	16QAM	15	0	22.06	22.25	22.05				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.80	23.94	23.58			25	0
1.4	QPSK	1	3	23.89	24.02	24.12				
1.4	QPSK	1	5	23.90	23.98	23.90				
1.4	QPSK	3	0	23.88	23.90	23.85				
1.4	QPSK	3	1	24.08	24.01	24.00				
1.4	QPSK	3	3	24.01	23.97	23.83				
1.4	QPSK	6	0	23.05	23.07	23.15				
1.4	16QAM	1	0	23.18	23.11	23.07				
1.4	16QAM	1	3	23.05	23.17	23.08				
1.4	16QAM	1	5	23.09	23.11	23.01				
1.4	16QAM	3	0	23.01	23.09	23.07	24	1		
1.4	16QAM	3	1	23.05	23.04	23.00				
1.4	16QAM	3	3	23.08	23.02	22.94				
1.4	16QAM	6	0	22.99	22.15	22.15				

Band 12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq 24060	Power Middle Ch. Freq 24200	Power High Ch. Freq 24130	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.26	24.23	24.24	25	0		
10	QPSK	1	25	24.51	24.35	24.34				
10	QPSK	1	49	24.44	24.44	24.51				
10	QPSK	25	0	23.23	23.23	23.21				
10	QPSK	25	12	23.24	23.26	23.55				
10	QPSK	25	25	23.36	23.00	23.09				
10	QPSK	50	0	23.27	23.09	23.09				
10	16QAM	1	0	23.40	23.39	23.37				
10	16QAM	1	25	23.76	23.72	23.76				
10	16QAM	1	49	23.63	23.73	23.69				
10	16QAM	25	0	22.49	22.51	22.55	24	1		
10	16QAM	25	12	22.50	22.50	22.46				
10	16QAM	25	25	22.53	22.53	22.55				
10	16QAM	50	0	22.52	22.53	22.61				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.45	24.44	24.42			25	0
5	QPSK	1	12	24.43	24.29	24.45				
5	QPSK	1	24	24.47	24.30	24.35				
5	QPSK	12	0	23.36	23.39	23.60				
5	QPSK	12	7	23.36	23.45	23.52				
5	QPSK	12	13	23.63	23.60	23.69				
5	QPSK	25	0	23.60	23.57	23.52				
5	16QAM	1	0	23.59	23.52	23.47				
5	16QAM	1	12	23.80	23.73	23.58				
5	16QAM	1	24	23.69	23.62	23.75				
5	16QAM	12	0	22.50	22.50	22.52	24	1		
5	16QAM	12	7	22.47	22.44	22.56				
5	16QAM	12	13	22.42	22.49	22.45				
5	16QAM	25	0	22.62	22.41	22.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.49	24.39	24.47			25	0
3	QPSK	1	8	24.29	24.29	24.27				
3	QPSK	1	14	24.35	24.35	24.43				
3	QPSK	8	0	23.69	23.59	23.68				
3	QPSK	8	4	23.63	23.53	23.59				
3	QPSK	8	7	23.59	23.70	23.59				
3	QPSK	15	0	23.52	23.52	23.54				
3	16QAM	1	0	23.51	23.49	23.45				
3	16QAM	1	8	23.76	23.81	23.82				
3	16QAM	1	14	23.60	23.63	23.70				
3	16QAM	8	0	22.52	22.59	22.58	24	1		
3	16QAM	8	4	22.52	22.39	22.50				
3	16QAM	8	7	22.50	22.57	22.46				
3	16QAM	15	0	22.56	22.43	22.49				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.13	24.17	24.17			25	0
1.4	QPSK	1	3	24.06	24.01	24.00				
1.4	QPSK	1	5	23.95	24.03	24.05				
1.4	QPSK	3	0	24.10	24.02	24.10				
1.4	QPSK	3	1	23.86	24.02	23.87				
1.4	QPSK	3	3	24.06	24.09	23.98				
1.4	QPSK	6	0	23.34	23.28	23.14				
1.4	16QAM	1	0	23.16	23.27	23.24				
1.4	16QAM	1	3	23.27	23.25	23.34				
1.4	16QAM	1	5	23.29	23.31	23.36				
1.4	16QAM	3	0	23.01	23.06	23.27	24	1		
1.4	16QAM	3	1	23.30	23.23	23.10				
1.4	16QAM	3	3	23.21	23.28	23.38				
1.4	16QAM	6	0	23.06	23.21	23.13				



Band 14

BW (MHz)	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)				793				
10	QPSK	1	0	24.06	24.17	24.28	25	0
10	QPSK	1	35	24.14	24.25	24.36	25	0
10	QPSK	1	49	24.14	24.25	24.36	25	0
10	QPSK	25	0	23.29	23.40	23.51	24	1
10	QPSK	12	0	23.25	23.36	23.47	24	1
10	QPSK	25	25	23.22	23.33	23.44	24	1
10	QPSK	50	0	23.27	23.38	23.49	24	1
10	16QAM	1	0	23.38	23.49	23.60	24	1
10	16QAM	1	25	23.50	23.61	23.72	24	1
10	16QAM	1	49	23.55	23.66	23.77	24	1
10	16QAM	25	0	22.24	22.35	22.46	23	2
10	16QAM	25	12	22.26	22.37	22.48	23	2
10	16QAM	25	25	22.17	22.28	22.39	23	2
10	16QAM	50	0	22.23	22.34	22.45	23	2
Channel								
Frequency (MHz)				793.5				
5	QPSK	1	0	24.03	24.07	24.06	25	0
5	QPSK	1	12	24.15	24.23	24.25	25	0
5	QPSK	1	24	23.99	24.08	24.01	25	0
5	QPSK	12	0	23.14	23.19	23.21	24	1
5	QPSK	12	7	23.18	23.23	23.20	24	1
5	QPSK	12	13	23.16	23.13	23.09	24	1
5	QPSK	25	0	23.19	23.16	23.20	24	1
5	16QAM	1	0	23.23	23.31	23.27	24	1
5	16QAM	1	12	23.45	23.50	23.62	24	1
5	16QAM	1	24	23.28	23.34	23.33	24	1
5	16QAM	12	0	22.15	22.19	22.21	23	2
5	16QAM	12	7	22.22	22.24	22.23	23	2
5	16QAM	12	13	22.18	22.18	22.12	23	2
5	16QAM	25	0	22.17	22.21	22.17	23	2

Band 30

BW (MHz)	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)				2310				
10	QPSK	1	0	23.35	23.28	23.25	24.5	0
10	QPSK	1	25	23.28	23.28	23.28	24.5	0
10	QPSK	1	49	23.28	23.28	23.28	24.5	0
10	QPSK	25	0	22.27	22.27	22.27	23.5	1
10	QPSK	25	12	22.21	22.21	22.21	23.5	1
10	QPSK	25	25	22.17	22.17	22.17	23.5	1
10	QPSK	50	0	22.20	22.20	22.20	23.5	1
10	16QAM	1	0	22.19	22.19	22.19	23.5	1
10	16QAM	1	25	22.21	22.24	22.24	23.5	1
10	16QAM	1	49	22.21	22.24	22.24	23.5	1
10	16QAM	25	0	21.23	21.23	21.23	22.5	2
10	16QAM	25	12	21.28	21.28	21.28	22.5	2
10	16QAM	25	25	21.20	21.20	21.20	22.5	2
10	16QAM	50	0	21.20	21.20	21.20	22.5	2
Channel								
Frequency (MHz)				2307.5				
5	QPSK	1	0	23.30	23.25	23.29	24.5	0
5	QPSK	1	12	23.20	23.19	23.20	24.5	0
5	QPSK	1	24	23.18	23.24	23.20	24.5	0
5	QPSK	12	0	22.26	22.17	22.29	23.5	1
5	QPSK	12	7	22.14	22.14	22.19	23.5	1
5	QPSK	12	13	22.07	22.16	22.11	23.5	1
5	QPSK	25	0	22.17	22.16	22.14	23.5	1
5	16QAM	1	0	22.10	22.13	22.10	23.5	1
5	16QAM	1	12	22.15	22.13	22.17	23.5	1
5	16QAM	1	24	22.16	22.23	22.18	23.5	1
5	16QAM	12	0	21.19	21.19	21.14	22.5	2
5	16QAM	12	7	21.18	21.19	21.23	22.5	2
5	16QAM	12	13	21.17	21.14	21.13	22.5	2
5	16QAM	25	0	21.15	21.10	21.13	22.5	2



Band 66												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 153092	Power Middle Ch. Freq. 153102	Power High Ch. Freq. 153112	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	GFSK	1	0	24.20	24.21	24.22	25	0				
20	GFSK	1	49	24.30	24.31	24.32						
20	GFSK	1	99	24.84	24.82	24.82						
20	GFSK	50	0	23.34	23.35	23.36						
20	GFSK	24	24	23.28	23.30	23.28			24	1		
20	GFSK	50	50	23.17	23.28	23.11	24	1				
20	GFSK	100	0	23.23	23.25	23.24						
20	16QAM	1	0	23.21	23.23	23.11						
20	16QAM	1	49	23.52	23.52	23.46						
20	16QAM	1	99	23.13	23.05	23.08						
20	16QAM	50	0	22.29	22.22	22.33	23	2				
20	16QAM	50	24	22.26	22.26	22.26						
20	16QAM	50	50	22.18	22.21	22.05						
20	16QAM	100	0	22.30	22.23	22.20						
Channel												
Frequency (MHz)												
15	GFSK	1	0	24.27	24.23	24.18	25	0				
15	GFSK	1	37	24.12	24.15	24.28						
15	GFSK	1	74	23.89	23.88	23.84						
15	GFSK	36	0	23.27	23.33	23.43			24	1		
15	GFSK	36	20	23.30	23.29	23.36						
15	GFSK	36	36	23.37	23.30	23.16	24	1				
15	GFSK	78	0	23.16	23.31	23.14						
15	16QAM	1	0	23.23	23.24	23.32						
15	16QAM	1	37	23.53	23.44	23.45						
15	16QAM	1	74	23.07	23.12	23.13						
15	16QAM	36	0	22.20	22.20	22.12	23	2				
15	16QAM	36	20	22.19	22.29	22.33						
15	16QAM	36	36	22.08	22.06	22.06						
15	16QAM	75	0	22.10	22.23	22.23						
Channel												
Frequency (MHz)												
10	GFSK	1	0	24.24	24.18	24.20	25	0				
10	GFSK	1	25	24.25	24.26	24.16						
10	GFSK	1	49	23.83	23.85	23.89						
10	GFSK	25	0	23.43	23.35	23.40			24	1		
10	GFSK	25	12	23.38	23.24	23.25						
10	GFSK	25	25	23.38	23.31	23.15	24	1				
10	GFSK	50	0	23.12	23.35	23.29						
10	16QAM	1	0	23.35	23.23	23.21						
10	16QAM	1	25	23.43	23.55	23.41						
10	16QAM	1	49	23.07	23.14	23.15						
10	16QAM	25	0	22.11	22.10	22.27	23	2				
10	16QAM	25	12	22.19	22.14	22.19						
10	16QAM	25	25	22.08	22.06	22.06						
10	16QAM	50	0	22.32	22.08	22.20						
Channel												
Frequency (MHz)												
5	GFSK	1	0	24.19	24.31	24.30	25	0				
5	GFSK	1	12	24.28	24.23	24.12						
5	GFSK	1	24	23.85	23.88	23.88						
5	GFSK	12	0	23.34	23.31	23.30			24	1		
5	GFSK	12	7	23.30	23.28	23.25						
5	GFSK	12	13	23.30	23.29	23.17	24	1				
5	GFSK	25	0	23.22	23.18	23.35						
5	16QAM	1	0	23.40	23.23	23.18						
5	16QAM	1	12	23.43	23.41	23.39						
5	16QAM	1	24	22.85	23.11	22.96						
5	16QAM	12	0	22.37	22.33	22.30	23	2				
5	16QAM	12	7	22.21	22.31	22.14						
5	16QAM	12	13	22.13	22.07	22.24						
5	16QAM	25	0	22.30	22.35	22.25						
Channel												
Frequency (MHz)												
3	GFSK	1	0	24.21	24.21	24.20	25	0				
3	GFSK	1	8	24.17	24.30	24.11						
3	GFSK	1	14	23.81	23.92	23.89						
3	GFSK	8	0	23.37	23.32	23.31			24	1		
3	GFSK	8	4	23.19	23.21	23.35						
3	GFSK	8	7	23.26	23.35	23.14	24	1				
3	GFSK	15	0	23.17	23.35	23.12						
3	16QAM	1	0	23.17	23.34	23.22						
3	16QAM	1	8	23.52	23.42	23.48						
3	16QAM	1	14	23.03	23.11	23.14						
3	16QAM	8	0	22.22	22.25	22.22	23	2				
3	16QAM	8	4	22.37	22.33	22.14						
3	16QAM	8	7	22.06	22.14	22.28						
3	16QAM	15	0	22.26	22.24	22.12						
Channel												
Frequency (MHz)												
1.4	GFSK	1	0	24.12	24.04	24.02	25	0				
1.4	GFSK	1	3	24.01	24.01	24.00						
1.4	GFSK	1	5	23.86	23.88	24.01						
1.4	GFSK	3	0	24.06	24.01	24.05						
1.4	GFSK	3	1	23.93	24.01	23.97			24	1		
1.4	GFSK	3	3	23.95	23.88	23.96	24	1				
1.4	GFSK	6	0	23.92	23.17	23.17						
1.4	16QAM	1	0	23.01	23.15	23.06						
1.4	16QAM	1	3	23.09	23.12	23.14						
1.4	16QAM	1	5	23.21	23.14	23.08						
1.4	16QAM	3	0	23.14	23.18	23.26	23	2				
1.4	16QAM	3	1	23.17	23.12	23.00						
1.4	16QAM	3	3	23.13	23.15	23.00						
1.4	16QAM	6	0	22.12	22.15	22.06						

Band 71												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 153092	Power Middle Ch. Freq. 153107	Power High Ch. Freq. 153122	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
30	GFSK	1	0	24.09	24.23	24.08	25	0				
30	GFSK	1	49	24.00	24.31	23.78						
30	GFSK	1	99	23.81	23.78	23.78						
30	GFSK	50	0	23.11	23.15	23.07			24	1		
30	GFSK	50	24	23.04	23.13	22.96						
30	GFSK	50	50	22.81	22.88	22.78	24	1				
30	GFSK	100	0	23.00	23.09	22.74						
30	16QAM	1	0	23.09	23.23	22.78						
30	16QAM	1	49	23.12	23.02	22.98						
30	16QAM	1	99	22.78	22.81	22.82						
30	16QAM	50	0	22.14	21.84	21.77	23	2				
30	16QAM	50	24	22.13	21.78	21.72						
30	16QAM	50	50	21.80	21.72	21.78						
30	16QAM	100	0	22.08	21.83	21.72						
Channel												
Frequency (MHz)												
15	GFSK	1	0	23.84	23.98	24.05	25	0				
15	GFSK	1	37	23.86	23.89	23.88						
15	GFSK	1	74	23.76	23.69	23.74						
15	GFSK	36	0	22.70	22.91	22.85			24	1		
15	GFSK	36	20	22.84	22.92	23.14						
15	GFSK	36	36	22.84	22.79	22.77	24	1				
15	GFSK	78	0	22.97	22.84	22.95						
15	16QAM	1	0	23.19	23.02	23.18						
15	16QAM	1	37	22.99	22.98	23.08						
15	16QAM	1	74	22.79	22.75	22.86						
15	16QAM	36	0	22.00	22.00	22.01	23	2				
15	16QAM	36	20	22.14	22.15	22.10						
15	16QAM	36	36	21.80	21.71	21.78						
15	16QAM	75	0	22.07	22.11	22.07						
Channel												
Frequency (MHz)												
10	GFSK	1	0	24.08	23.90	23.91	25	0				
10	GFSK	1	26	23.89	23.86	23.85						
10	GFSK	25	0	23.76	23.75	23.75						
10	GFSK	25	0	22.89	22.71	22.80			24	1		
10	GFSK	25	12	23.01	23.08	23.15						
10	GFSK	25	25	22.89	22.83	22.81	24	1				
10	GFSK	50	0	22.88	23.07	22.93						
10	16QAM	1	0	23.04	22.87	23.02						
10	16QAM	1	26	23.16	22.98	22.97						
10	16QAM	1	49	22.72	22.67	22.66						
10	16QAM	25	0	22.05	22.18	22.10	23	2				
10	16QAM	25	12	22.05	22.19	22.17						
10	16QAM	25	25	21.71	21.73	21.73						
10	16QAM	50	0	22.08	22.02	22.08						
Channel												
Frequency (MHz)												
5	GFSK	1	0	23.86	23.98	24.02	25	0				
5	GFSK	1	12	23.94	23.93	23.98						
5	GFSK	1	24	23.85	23.85	23.73						
5	GFSK	12	0	22.74	22.72	22.84			24	1		
5	GFSK	12	7	23.14	23.18	23.15						
5	GFSK	12	13	22.86	22.78	22.77	24	1				
5	16QAM	1	0	23.09	22.84	22.89						
5	16QAM	1	12	23.12	22.96	22.96						
5	16QAM	1	24	22.68	22.78	22.77						
5	16QAM	12	0	22								



Reduced Power for Receiver On

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.51	32.65	32.49	33.50	23.51	23.55	23.49	24.50
GPRS 1 Tx slot	32.54	32.57	32.54	33.50	23.54	23.57	23.54	24.50
GPRS 2 Tx slots	31.55	31.56	31.58	32.50	25.55	25.56	25.58	26.50
GPRS 3 Tx slots	29.46	29.49	29.52	30.50	25.20	25.23	25.26	26.24
GPRS 4 Tx slots	28.33	28.41	28.38	29.50	25.33	25.41	25.38	26.50
EDGE 1 Tx slot	26.34	26.54	26.55	27.50	17.34	17.54	17.55	18.50
EDGE 2 Tx slots	25.27	25.35	25.36	26.50	19.27	19.35	19.36	20.50
EDGE 3 Tx slots	22.89	22.87	22.79	24.00	18.63	18.61	18.53	19.74
EDGE 4 Tx slots	21.48	21.42	21.46	22.50	18.48	18.42	18.46	19.50

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1850	1809.8		1850.2	1850	1809.8	
GSM 1 Tx slot	30.01	30.02	29.78	31.00	21.01	21.02	20.78	22.00
GPRS 1 Tx slot	30.13	30.17	29.83	31.00	21.13	21.17	20.83	22.00
GPRS 2 Tx slots	28.93	29.02	28.73	30.00	22.93	23.02	22.73	24.00
GPRS 3 Tx slots	26.46	26.60	26.43	27.50	22.20	22.34	22.17	23.24
GPRS 4 Tx slots	23.35	25.51	25.39	28.50	22.35	22.51	22.39	23.50
EDGE 1 Tx slot	25.70	25.77	25.44	27.00	16.70	16.77	16.44	18.00
EDGE 2 Tx slots	24.93	24.88	24.49	26.00	18.93	18.88	18.49	20.00
EDGE 3 Tx slots	22.58	22.45	22.00	23.50	18.32	18.19	17.74	19.24
EDGE 4 Tx slots	21.15	21.09	20.40	22.00	18.15	18.09	17.40	19.00

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V			Tune-up Limit (dBm)		
	9262	9400	9538		1312	1413	1513	4132	4182	4233			
TX Channel	9682	9800	9938		1597	1638	1738	4397	4407	4468			
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1722.6	1752.6	828.4	838.4	848.6			
3GPP Rel 99	23.56	23.58	23.57	24.50	23.62	23.61	23.59	24.50	23.11	23.13	23.15	24.50	
3GPP Rel 99	RMC 12.2Kbps	23.67	23.68	23.58	24.50	23.64	23.65	23.61	24.50	23.16	23.18	23.16	24.50
3GPP Rel 6	HSDPA Subtest-1	22.47	22.34	22.28	23.50	22.37	22.30	22.29	23.50	21.97	21.94	22.01	23.50
3GPP Rel 6	HSDPA Subtest-2	22.38	22.25	22.17	23.50	22.26	22.31	22.25	23.50	22.01	21.85	21.91	23.50
3GPP Rel 6	HSDPA Subtest-3	21.88	21.73	21.69	23.00	21.79	21.81	21.79	23.00	21.50	21.43	21.45	23.00
3GPP Rel 6	HSDPA Subtest-4	21.87	21.69	21.67	23.00	21.87	21.79	21.81	23.00	21.47	21.31	21.30	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.36	22.31	22.28	23.50	22.08	22.11	22.15	23.50	21.82	21.88	21.82	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.28	22.22	22.20	23.50	22.05	22.09	22.18	23.50	21.81	21.84	21.79	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.63	21.65	21.59	23.00	21.62	21.68	21.70	23.00	21.31	21.36	21.28	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.61	21.53	21.58	23.00	21.62	21.64	21.69	23.00	21.26	21.28	21.19	23.00
3GPP Rel 6	HSUPA Subtest-1	20.51	20.52	20.52	21.50	20.51	20.55	20.55	21.50	19.88	19.92	19.98	21.50
3GPP Rel 6	HSUPA Subtest-2	20.44	20.35	20.27	21.50	20.36	20.39	20.31	21.50	19.91	19.94	19.99	21.50
3GPP Rel 6	HSUPA Subtest-3	21.45	21.39	21.26	22.50	21.40	21.39	21.31	22.50	20.85	20.92	20.92	22.50
3GPP Rel 6	HSUPA Subtest-4	20.02	19.87	19.76	21.00	19.90	19.87	19.82	21.00	19.45	19.46	19.44	21.00
3GPP Rel 6	HSUPA Subtest-5	21.40	21.30	21.20	22.50	21.30	21.24	21.28	22.50	21.16	20.80	20.90	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.59	20.54	20.51	21.50	20.52	20.57	20.56	21.50	20.53	20.59	20.56	21.50



Band 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 16700	Power Middle Ch. Freq. 16800	Power High Ch. Freq. 16900	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.48	24.48	24.51	25	0		
20	QPSK	1	49	24.35	24.31	24.29				
20	QPSK	1	99	24.03	23.92	23.87				
20	QPSK	50	0	23.48	23.51	23.39	24	1		
20	QPSK	50	24	23.45	23.42	23.35				
20	QPSK	50	50	23.44	23.28	23.27				
20	QPSK	100	0	23.44	23.48	23.27	24	1		
20	16QAM	1	0	23.17	23.33	23.21				
20	16QAM	1	49	23.69	23.54	23.52				
20	16QAM	1	99	23.51	23.15	23.23	23	2		
20	16QAM	50	0	22.51	22.34	22.33				
20	16QAM	50	24	22.46	22.34	22.29				
20	16QAM	50	50	22.44	22.18	22.13	23	2		
20	16QAM	100	0	22.47	22.28	22.21				
Channel										
Frequency (MHz)										
15	QPSK	1	0	1867.5	1860	1902.5	25	0		
15	QPSK	1	37	24.36	24.24	24.19				
15	QPSK	1	74	24.21	24.13	24.02				
15	QPSK	36	0	23.91	23.92	23.59	24	1		
15	QPSK	36	39	23.86	23.97	23.93				
15	QPSK	36	79	23.47	23.24	23.17				
15	QPSK	75	0	23.69	23.38	23.25	24	1		
15	16QAM	1	0	23.56	23.44	23.35				
15	16QAM	1	37	23.96	23.61	23.63				
15	16QAM	1	74	23.46	23.27	23.23	23	2		
15	16QAM	36	0	22.92	22.36	22.31				
15	16QAM	36	20	22.46	22.34	22.24				
15	16QAM	36	39	22.41	22.34	22.13	23	2		
15	16QAM	75	0	22.49	22.28	22.18				
Channel										
Frequency (MHz)										
10	QPSK	1	0	1860	1860	19150	25	0		
10	QPSK	1	25	24.39	24.29	24.17				
10	QPSK	1	49	24.30	24.19	24.08				
10	QPSK	25	0	23.56	23.42	23.33	24	1		
10	QPSK	25	12	23.50	23.39	23.28				
10	QPSK	25	25	23.45	23.31	23.22				
10	QPSK	50	0	23.53	23.39	23.31	24	1		
10	16QAM	1	0	23.65	23.45	23.35				
10	16QAM	1	25	23.68	23.48	23.40				
10	16QAM	1	49	23.80	23.39	23.25	23	2		
10	16QAM	25	0	22.51	22.35	22.23				
10	16QAM	25	12	22.47	22.31	22.22				
10	16QAM	25	25	22.46	22.21	22.14	23	2		
10	16QAM	50	0	22.49	22.30	22.23				
Channel										
Frequency (MHz)										
5	QPSK	1	0	1862.5	1860	19175	25	0		
5	QPSK	1	12	24.39	24.17	24.25				
5	QPSK	1	12	24.36	24.46	24.37				
5	QPSK	12	0	24.05	24.15	24.33	24	1		
5	QPSK	12	6	23.28	23.45	23.37				
5	QPSK	12	7	23.34	23.45	23.31				
5	QPSK	12	13	23.38	23.39	23.35	24	1		
5	QPSK	25	0	23.48	23.47	23.32				
5	16QAM	1	0	23.59	23.50	23.35				
5	16QAM	1	14	23.37	23.39	23.42	23	2		
5	16QAM	1	24	23.38	23.46	23.35				
5	16QAM	12	0	22.29	22.38	22.39				
5	16QAM	12	7	22.28	22.32	22.21	23	2		
5	16QAM	12	13	22.21	22.07	22.18				
5	16QAM	25	0	22.26	22.38	22.24				
Channel										
Frequency (MHz)										
3	QPSK	1	0	1861.5	1860	19185	25	0		
3	QPSK	1	8	24.17	24.29	24.27				
3	QPSK	1	14	24.12	24.10	24.17				
3	QPSK	8	0	23.36	23.33	23.30	24	1		
3	QPSK	8	4	23.43	23.41	23.35				
3	QPSK	8	7	23.39	23.41	23.39				
3	QPSK	15	0	23.42	23.35	23.27	24	1		
3	16QAM	1	0	23.44	23.45	23.41				
3	16QAM	1	8	23.40	23.36	23.33				
3	16QAM	1	14	23.32	23.29	23.29	23	2		
3	16QAM	8	0	22.25	22.33	22.29				
3	16QAM	8	4	22.41	22.38	22.17				
3	16QAM	8	7	22.10	22.29	22.18	23	2		
3	16QAM	15	0	22.40	22.38	22.24				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	1860.7	1860	19163	25	0		
1.4	QPSK	1	5	24.05	24.04	24.03				
1.4	QPSK	1	5	24.05	24.02	23.91				
1.4	QPSK	3	0	24.18	24.11	24.36	24	1		
1.4	QPSK	3	1	24.02	24.01	23.99				
1.4	QPSK	3	3	24.00	23.99	24.09				
1.4	QPSK	6	0	22.98	23.02	23.04	24	1		
1.4	16QAM	1	0	23.07	23.11	23.14				
1.4	16QAM	1	3	23.20	23.12	23.01				
1.4	16QAM	1	6	22.97	23.09	22.98	24	1		
1.4	16QAM	3	0	23.09	23.06	23.15				
1.4	16QAM	3	1	23.11	23.05	23.00				
1.4	16QAM	3	3	22.93	23.06	23.03	23	2		
1.4	16QAM	6	0	21.97	22.12	22.19				

Band 4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20000	Power Middle Ch. Freq. 20100	Power High Ch. Freq. 20200	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	1742	1742.5	1743	25	0		
20	QPSK	1	49	24.22	23.89	24.20				
20	QPSK	1	99	23.87	23.89	23.88				
20	QPSK	50	0	23.28	23.31	23.23	24	1		
20	QPSK	50	24	23.27	23.22	23.25				
20	QPSK	50	50	23.18	23.24	23.22				
20	QPSK	100	0	23.19	23.24	23.16	24	1		
20	16QAM	1	0	23.19	23.21	23.23				
20	16QAM	1	49	23.97	23.92	23.96				
20	16QAM	1	99	23.13	23.08	23.11	23	2		
20	16QAM	50	0	22.25	22.28	22.17				
20	16QAM	50	24	22.26	22.52	22.17				
20	16QAM	50	50	22.16	22.21	22.17	23	2		
20	16QAM	100	0	22.17	22.23	22.14				
Channel										
Frequency (MHz)										
15	QPSK	1	0	1742.5	1742.5	1742.5	25	0		
15	QPSK	1	37	24.12	24.19	24.19				
15	QPSK	1	74	23.81	23.96	23.82				
15	QPSK	36	0	23.71	23.89	23.88	24	1		
15	QPSK	36	39	23.90	23.23	23.19				
15	QPSK	36	79	23.26	23.07	23.28				
15	QPSK	75	0	23.26	23.31	23.24	24	1		
15	16QAM	1	0	23.24	23.27	23.28				
15	16QAM	1	37	24.39	23.96	23.43				
15	16QAM	1	74	23.17	23.12	23.18	23	2		
15	16QAM	36	0	22.20	22.17	22.16				
15	16QAM	36	20	22.16	22.26	22.22				
15	16QAM	36	39	22.17	22.34	22.13	23	2		
15	16QAM	75	0	22.24	22.08	22.13				
Channel										
Frequency (MHz)										
10	QPSK	1	0	1741.5	1741.5	1741.5	25	0		
10	QPSK	1	25	24.15	24.14	24.15				
10	QPSK	1	49	23.85	23.96	23.84				
10	QPSK	25	0	23.18	23.28	23.19	24	1		
10	QPSK	25	12	23.12	23.12	23.23				
10	QPSK	25	25	23.15	23.31	23.27				
10	QPSK	50	0	23.15	23.25	23.27	24	1		
10	16QAM	1	0	23.17	23.23	23.27				
10	16QAM	1	25	23.51	23.48	23.45				
10	16QAM	1	49	23.09	23.11	23.12	23	2		
10	16QAM	25	0	22.32	22.13	22.11				
10	16QAM	25	12	22.19	22.15	22.18				
10	16QAM	25	12	22.19	22.15	22.18	23	2		
10	16QAM	50	0	22.13	22.21	22.25				
Channel										
Frequency (MHz)										
5	QPSK	1	0	1741.5	1741.5	1741.5	25	0		
5	QPSK	1	12	24.13	24.18	24.14				
5	QPSK	1	12	24.12	23.91	23.77				
5	QPSK	12	0	23.72	23.66	23.71	24	1		
5	QPSK	12	6	23.20	23.21	23.29				



Band 5

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 20050	Middle Ch. Freq. 20050	High Ch. Freq. 20050		
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.16	24.28	24.40	25	0
10	QPSK	1	25	24.11	24.24	24.02		
10	QPSK	1	49	24.06	24.15	24.00		
10	QPSK	25	0	23.30	23.32	23.50	24	1
10	QPSK	25	12	23.25	23.30	23.21		
10	QPSK	25	25	23.17	23.20	23.16		
10	QPSK	50	0	23.32	23.35	23.29	24	1
10	HQAM	1	0	23.42	23.37	23.31		
10	HQAM	1	25	23.38	23.46	23.44		
10	HQAM	1	49	23.33	23.29	23.34	23	2
10	HQAM	25	0	22.27	22.21	22.25		
10	HQAM	25	12	22.28	22.24	22.25		
10	HQAM	25	25	22.25	22.18	22.19	23	2
10	HQAM	50	0	22.27	22.19	22.26		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.22	24.27	24.21	25	0
5	QPSK	1	12	24.23	24.22	24.11		
5	QPSK	1	24	23.95	23.98	23.95		
5	QPSK	12	0	23.38	23.42	23.31	24	1
5	QPSK	12	7	23.21	23.19	23.11		
5	QPSK	12	13	23.27	23.07	23.08		
5	QPSK	25	0	23.44	23.25	23.20	24	1
5	HQAM	1	0	23.30	23.47	23.22		
5	HQAM	1	12	23.56	23.40	23.40		
5	HQAM	1	24	23.30	23.28	23.38	23	2
5	HQAM	12	0	22.29	22.15	22.21		
5	HQAM	12	7	22.20	22.27	22.29		
5	HQAM	12	13	22.03	22.15	22.21	23	2
5	HQAM	25	0	22.24	22.05	22.28		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.22	24.13	24.15	25	0
3	QPSK	1	8	24.21	24.24	24.19		
3	QPSK	1	14	24.03	24.05	24.06		
3	QPSK	8	0	23.42	23.32	23.22	24	1
3	QPSK	8	4	23.22	23.26	23.22		
3	QPSK	8	7	23.19	23.27	23.07		
3	QPSK	15	0	23.30	23.28	23.24	24	1
3	HQAM	1	0	23.45	23.28	23.46		
3	HQAM	1	8	23.50	23.52	23.48		
3	HQAM	1	14	23.36	23.22	23.18	23	2
3	HQAM	8	0	22.28	22.18	22.17		
3	HQAM	8	4	22.14	22.23	22.11		
3	HQAM	8	7	22.18	22.04	22.03	23	2
3	HQAM	15	0	22.08	22.25	22.05		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	24.80	24.94	24.98	25	0
1.4	QPSK	1	3	23.89	24.02	24.12		
1.4	QPSK	1	5	23.90	23.98	23.93		
1.4	QPSK	3	0	23.89	23.90	23.85	24	1
1.4	QPSK	3	1	24.08	24.01	24.00		
1.4	QPSK	3	3	24.01	23.97	23.93		
1.4	QPSK	6	0	23.05	23.07	23.15	24	1
1.4	HQAM	1	0	23.18	23.11	23.07		
1.4	HQAM	1	3	23.05	23.17	23.08		
1.4	HQAM	1	5	23.09	23.11	23.01	24	1
1.4	HQAM	3	0	23.01	23.08	23.07		
1.4	HQAM	3	1	23.05	23.04	23.00		
1.4	HQAM	3	3	23.08	23.02	22.94	23	2
1.4	HQAM	6	0	22.98	22.12	22.15		

Band 12

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 20130	Middle Ch. Freq. 20130	High Ch. Freq. 20130		
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.25	24.53	24.53	25	0
10	QPSK	1	25	24.51	24.35	24.34		
10	QPSK	1	49	24.44	24.44	24.51		
10	QPSK	25	0	23.53	23.63	23.61	24	1
10	QPSK	25	12	23.54	23.56	23.55		
10	QPSK	25	25	23.58	23.60	23.59		
10	QPSK	50	0	23.37	23.68	23.65	24	1
10	HQAM	1	0	23.40	23.59	23.57		
10	HQAM	1	25	23.78	23.72	23.76		
10	HQAM	1	49	23.63	23.73	23.60	23	2
10	HQAM	25	0	22.49	22.61	22.55		
10	HQAM	25	12	22.56	22.48	22.46		
10	HQAM	25	25	22.53	22.53	22.55	23	2
10	HQAM	50	0	22.52	22.53	22.61		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.45	24.44	24.42	25	0
5	QPSK	1	12	24.43	24.29	24.45		
5	QPSK	1	24	24.47	24.30	24.35		
5	QPSK	12	0	23.96	23.99	23.80	24	1
5	QPSK	12	7	23.99	23.66	23.82		
5	QPSK	12	13	23.83	23.60	23.69		
5	QPSK	25	0	23.69	23.51	23.52	24	1
5	HQAM	1	0	23.99	23.92	23.47		
5	HQAM	1	12	23.80	23.73	23.58		
5	HQAM	1	24	23.69	23.62	23.75	23	2
5	HQAM	12	0	22.50	22.55	22.52		
5	HQAM	12	7	22.47	22.44	22.56		
5	HQAM	12	13	22.42	22.49	22.45	23	2
5	HQAM	25	0	22.62	22.41	22.54		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.49	24.39	24.47	25	0
3	QPSK	1	8	24.25	24.26	24.27		
3	QPSK	1	14	24.35	24.35	24.46		
3	QPSK	8	0	23.69	23.55	23.68	24	1
3	QPSK	8	4	23.63	23.51	23.59		
3	QPSK	8	7	23.99	23.70	23.59		
3	QPSK	15	0	23.52	23.52	23.54	24	1
3	HQAM	1	0	23.51	23.49	23.45		
3	HQAM	1	8	23.76	23.81	23.82		
3	HQAM	1	14	23.60	23.63	23.70	23	2
3	HQAM	8	0	22.52	22.58	22.36		
3	HQAM	8	4	22.52	22.38	22.50		
3	HQAM	8	7	22.59	22.41	22.46	23	2
3	HQAM	15	0	22.56	22.43	22.49		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	24.13	24.17	24.07	25	0
1.4	QPSK	1	3	24.06	24.01	24.00		
1.4	QPSK	1	5	23.95	24.03	24.05		
1.4	QPSK	3	0	24.10	24.02	24.10	24	1
1.4	QPSK	3	1	23.88	24.02	23.87		
1.4	QPSK	3	3	24.06	24.06	23.98		
1.4	QPSK	6	0	23.34	23.28	23.14	24	1
1.4	HQAM	1	0	23.16	23.27	23.26		
1.4	HQAM	1	3	23.27	23.26	23.34		
1.4	HQAM	1	5	23.29	23.31	23.36	24	1
1.4	HQAM	3	0	23.08	23.09	23.27		
1.4	HQAM	3	1	23.30	23.23	23.10		
1.4	HQAM	3	3	23.21	23.28	23.38	23	2
1.4	HQAM	6	0	22.98	22.23	22.13		



Band 14

BW (MHz)	Modulation	RB Size	RB Offset	Channel			Tune-up limit (dBm)	MPR (dB)
				Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.		
Channel								
Frequency (MHz)								
10	QPSK	1	0	79.5	79.5	79.5	25	0
10	QPSK	1	28	24.17	24.17	24.17		
10	QPSK	1	48	24.14	24.14	24.14		
10	QPSK	25	0	23.28	23.28	23.28	24	1
10	QPSK	25	12	23.28	23.28	23.28		
10	QPSK	25	25	23.22	23.22	23.22		
10	QPSK	50	0	23.27	23.27	23.27	24	1
10	16QAM	1	0	23.38	23.38	23.38		
10	16QAM	1	25	23.30	23.30	23.30		
10	16QAM	1	48	23.35	23.35	23.35	23	2
10	16QAM	25	0	22.24	22.24	22.24		
10	16QAM	25	12	22.28	22.28	22.28		
10	16QAM	25	25	22.17	22.17	22.17	23	2
10	16QAM	50	0	22.23	22.23	22.23		
10	16QAM	50	0	22.23	22.23	22.23		
Channel								
Frequency (MHz)								
5	QPSK	1	0	790.5	790.5	790.5	25	0
5	QPSK	1	12	24.03	24.07	24.06		
5	QPSK	1	24	24.15	24.23	24.23		
5	QPSK	12	0	23.14	23.18	23.21	24	1
5	QPSK	12	7	23.18	23.25	23.25		
5	QPSK	12	13	23.16	23.13	23.09		
5	QPSK	25	0	23.19	23.19	23.20	24	1
5	16QAM	1	0	23.23	23.31	23.27		
5	16QAM	1	12	23.45	23.50	23.52		
5	16QAM	1	24	23.29	23.34	23.33	23	2
5	16QAM	12	0	22.15	22.19	22.21		
5	16QAM	12	7	22.22	22.24	22.23		
5	16QAM	12	13	22.18	22.18	22.12	23	2
5	16QAM	25	0	22.17	22.21	22.17		
5	16QAM	25	0	22.17	22.21	22.17		

Band 30

BW (MHz)	Modulation	RB Size	RB Offset	Channel			Tune-up limit (dBm)	MPR (dB)
				Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.		
Channel								
Frequency (MHz)								
10	QPSK	1	0	231.6	231.6	231.6	24.5	0
10	QPSK	1	35	23.28	23.28	23.28		
10	QPSK	1	49	23.28	23.28	23.28		
10	QPSK	25	0	22.27	22.27	22.27	23.5	1
10	QPSK	25	12	22.21	22.21	22.21		
10	QPSK	25	25	22.17	22.17	22.17		
10	QPSK	50	0	22.20	22.20	22.20	23.5	1
10	16QAM	1	0	22.19	22.19	22.19		
10	16QAM	1	25	22.21	22.21	22.21		
10	16QAM	1	49	22.24	22.24	22.24	22.5	2
10	16QAM	25	0	21.23	21.23	21.23		
10	16QAM	25	12	21.26	21.26	21.26		
10	16QAM	25	25	21.20	21.20	21.20	22.5	2
10	16QAM	50	0	21.20	21.20	21.20		
10	16QAM	50	0	21.20	21.20	21.20		
Channel								
Frequency (MHz)								
5	QPSK	1	0	2307.5	2307.5	2307.5	24.5	0
5	QPSK	1	15	23.30	23.26	23.29		
5	QPSK	1	24	23.18	23.24	23.30		
5	QPSK	12	0	22.28	22.17	22.25	23.5	1
5	QPSK	12	7	22.14	22.14	22.19		
5	QPSK	12	13	22.07	22.16	22.11		
5	QPSK	25	0	22.17	22.16	22.14	23.5	1
5	16QAM	1	0	22.10	22.18	22.16		
5	16QAM	1	12	22.15	22.13	22.17		
5	16QAM	1	24	22.16	22.23	22.18	22.5	2
5	16QAM	12	0	21.19	21.19	21.14		
5	16QAM	12	7	21.18	21.19	21.23		
5	16QAM	12	13	21.17	21.14	21.13	22.5	2
5	16QAM	25	0	21.15	21.10	21.13		
5	16QAM	25	0	21.15	21.10	21.13		



Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 150975	Middle Ch. Freq. 151000	High Ch. Freq. 151015		
Channel								
Frequency (MHz)								
20	QPSK	1	0	24.23	24.31	24.39	25	0
20	QPSK	1	49	24.30	24.31	24.23		
20	QPSK	1	99	23.84	24.02	23.82		
20	QPSK	50	0	23.32	23.35	23.30		
20	QPSK	50	24	23.28	23.30	23.28		
20	QPSK	50	50	23.17	23.28	23.11		
20	QPSK	100	0	22.23	22.25	22.24		
20	16QAM	1	0	23.21	23.23	23.11		
20	16QAM	1	49	23.52	23.52	23.46		
20	16QAM	1	99	23.13	23.05	23.08		
20	16QAM	50	0	22.29	22.22	22.33		
20	16QAM	50	24	22.25	22.25	22.26		
20	16QAM	50	50	22.18	22.21	22.05		
20	16QAM	100	0	22.19	22.23	22.20		
Channel								
Frequency (MHz)								
15	QPSK	1	0	24.27	24.23	24.18	25	0
15	QPSK	1	37	24.12	24.15	24.28		
15	QPSK	1	74	23.85	23.88	23.84		
15	QPSK	36	0	23.47	23.33	23.43		
15	QPSK	36	49	23.30	23.29	23.36		
15	QPSK	36	99	23.37	23.30	23.16		
15	16QAM	1	0	23.15	23.11	23.14		
15	16QAM	1	0	23.23	23.24	23.32		
15	16QAM	1	37	23.53	23.44	23.45		
15	16QAM	1	74	23.07	23.12	23.13		
15	16QAM	36	0	22.10	22.20	22.12		
15	16QAM	36	20	22.19	22.29	22.33		
15	16QAM	36	39	22.09	22.26	22.26		
15	16QAM	75	0	22.10	22.23	22.23		
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.24	24.18	24.20	24	1
10	QPSK	1	25	24.25	24.25	24.16		
10	QPSK	1	49	23.43	23.45	23.56		
10	QPSK	25	0	23.43	23.35	23.40		
10	QPSK	25	19	23.38	23.24	23.25		
10	QPSK	25	25	23.38	23.31	23.15		
10	QPSK	50	0	23.12	23.35	23.29		
10	16QAM	1	0	23.35	23.23	23.21		
10	16QAM	1	25	23.43	23.55	23.41		
10	16QAM	1	49	23.07	23.14	23.15		
10	16QAM	25	0	22.11	22.10	22.27		
10	16QAM	25	12	22.19	22.14	22.19		
10	16QAM	25	18	22.06	22.06	22.11		
10	16QAM	50	0	22.32	22.08	22.20		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.19	24.31	24.30	24	1
5	QPSK	1	12	24.28	24.23	24.12		
5	QPSK	1	24	23.85	23.88	23.86		
5	QPSK	12	0	23.34	23.31	23.30		
5	QPSK	12	7	23.30	23.28	23.29		
5	QPSK	12	13	23.30	23.29	23.17		
5	QPSK	25	0	23.22	23.18	23.35		
5	16QAM	1	0	23.40	23.23	23.18		
5	16QAM	1	12	23.43	23.41	23.39		
5	16QAM	1	24	22.95	23.11	22.96		
5	16QAM	12	0	22.37	22.33	22.30		
5	16QAM	12	7	22.21	22.31	22.14		
5	16QAM	12	13	22.13	22.07	22.24		
5	16QAM	25	0	22.30	22.35	22.25		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.21	24.21	24.26	24	1
3	QPSK	1	8	24.17	24.30	24.11		
3	QPSK	1	14	23.81	23.92	23.89		
3	QPSK	8	0	23.37	23.32	23.31		
3	QPSK	8	4	23.19	23.21	23.35		
3	QPSK	8	7	23.26	23.35	23.14		
3	QPSK	15	0	23.17	23.35	23.12		
3	16QAM	1	0	23.17	23.34	23.22		
3	16QAM	1	8	23.52	23.42	23.48		
3	16QAM	1	14	23.03	23.11	23.14		
3	16QAM	8	0	22.22	22.25	22.22		
3	16QAM	8	4	22.37	22.33	22.14		
3	16QAM	8	7	22.06	22.14	22.26		
3	16QAM	15	0	22.26	22.24	22.12		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	24.12	24.04	24.02	25	0
1.4	QPSK	1	3	24.01	24.01	24.00		
1.4	QPSK	1	5	23.86	23.98	24.01		
1.4	QPSK	3	0	24.05	24.01	24.05		
1.4	QPSK	3	1	23.53	24.01	23.97		
1.4	QPSK	3	3	23.95	23.98	23.96		
1.4	QPSK	6	0	23.22	23.17	23.17		
1.4	16QAM	1	0	23.01	23.15	23.06		
1.4	16QAM	1	3	23.09	23.12	23.14		
1.4	16QAM	1	5	23.21	23.14	23.08		
1.4	16QAM	3	0	23.14	23.18	23.26		
1.4	16QAM	3	1	23.17	23.12	23.00		
1.4	16QAM	3	3	23.13	23.15	23.00		
1.4	16QAM	6	0	22.12	22.15	22.06		

Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 133025	Middle Ch. Freq. 133050	High Ch. Freq. 133075		
Channel								
Frequency (MHz)								
20	QPSK	1	0	24.28	24.23	24.18	25	0
20	QPSK	1	49	24.00	23.74	23.78		
20	QPSK	1	99	23.81	23.78	23.78		
20	QPSK	50	0	23.11	23.15	23.07		
20	QPSK	50	24	23.04	23.12	22.95		
20	QPSK	50	50	22.81	22.88	22.79		
20	QPSK	100	0	21.90	21.99	21.74		
20	16QAM	1	0	23.09	23.23	22.75		
20	16QAM	1	49	23.12	23.02	22.98		
20	16QAM	1	99	22.78	22.81	22.86		
20	16QAM	50	0	22.14	21.94	21.77		
20	16QAM	50	24	22.13	21.78	21.72		
20	16QAM	50	50	21.80	21.72	21.75		
20	16QAM	100	0	22.05	21.83	21.72		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.84	23.95	24.05	25	0
15	QPSK	1	37	23.88	23.89	23.84		
15	QPSK	1	74	23.76	23.69	23.74		
15	QPSK	36	0	22.75	22.91	22.89		
15	QPSK	36	25	22.84	23.22	23.14		
15	QPSK	36	39	22.84	22.79	22.77		
15	16QAM	1	0	23.19	23.02	23.05		
15	16QAM	1	37	22.99	22.98	23.08		
15	16QAM	1	74	22.79	22.75	22.86		
15	16QAM	36	0	22.00	22.00	22.01		
15	16QAM	36	20	22.14	22.15	22.10		
15	16QAM	36	39	21.89	21.71	21.78		
15	16QAM	75	0	22.07	22.11	22.07		
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.08	23.90	23.91	24	1
10	QPSK	1	25	23.89	23.96	23.93		
10	QPSK	1	49	23.75	23.75	23.89		
10	QPSK	25	0	22.89	22.71	22.90		
10	QPSK	25	19	23.04	23.08	23.15		
10	QPSK	25	25	22.89	22.83	22.91		
10	QPSK	50	0	22.88	23.07	22.93		
10	16QAM	1	0	23.84	22.87	23.02		
10	16QAM	1	25	23.18	22.98	22.97		
10	16QAM	1	49	22.72	22.67	22.68		
10	16QAM	25	0	22.95	22.78	22.75		
10	16QAM	25	12	22.05	22.19	22.17		
10	16QAM	25	18	21.77	21.73	21.73		
10	16QAM	50	0	22.08	22.02	22.09		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.88	23.95	24.02	25	0
5	QPSK	1	12	23.94	23.93	23.98		
5	QPSK	1	24	23.85	23.88	23.73		
5	QPSK	12	0	22.74	22.72	22.84		
5	QPSK	12	7	23.14	23.16	23.15		
5	QPSK	12	13	22.86	22.78	22.77		
5	QPSK	25	0	23.09	22.94	22.88		
5	16QAM	1	0	23.12	22.95	22.96		
5	16QAM	1	12	23.15	23.03	23.00		
5	16QAM	1	24	22.68	22.78	22.77		
5	16QAM	12	0	22.17	22.07	22.08		
5	16QAM	12	7	22.05	22.12	22.15		
5	16QAM	12	13	21.86	21.80	21.88		
5	16QAM	25	0	22.10	22.11	21.96		



Reduced Power for Sensor On

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.51	32.55	32.49	33.50	23.51	23.55	23.49	24.50
GPRS 1 Tx slot	32.54	32.57	32.54	33.50	23.54	23.57	23.54	24.50
GPRS 2 Tx slots	31.55	31.56	31.58	32.50	25.55	25.56	25.58	26.50
GPRS 3 Tx slots	29.46	29.49	29.52	30.50	25.20	25.23	25.26	26.24
GPRS 4 Tx slots	28.33	28.41	28.38	29.50	25.33	25.41	25.38	26.50
EDGE 1 Tx slot	26.34	26.54	26.55	27.50	17.34	17.54	17.55	18.50
EDGE 2 Tx slots	25.27	25.35	25.36	26.50	19.27	19.35	19.36	20.50
EDGE 3 Tx slots	22.89	22.87	22.79	24.00	18.63	18.61	18.53	19.74
EDGE 4 Tx slots	21.48	21.42	21.46	22.50	18.48	18.42	18.46	19.50

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1850	1900.8		1850.2	1850	1900.8	
GSM 1 Tx slot	23.49	26.50	26.49	23.00	17.49	17.50	17.49	19.00
GPRS 1 Tx slot	26.38	26.40	26.24	28.00	17.38	17.40	17.24	19.00
GPRS 2 Tx slots	25.22	25.24	25.21	27.00	19.22	19.24	19.21	21.00
GPRS 3 Tx slots	23.02	23.17	23.04	24.50	18.76	18.91	18.78	20.24
GPRS 4 Tx slots	22.19	22.19	22.01	23.50	19.19	19.19	19.01	20.50
EDGE 1 Tx slot	22.06	22.22	22.14	24.00	13.06	13.22	13.14	15.00
EDGE 2 Tx slots	21.04	21.12	21.03	23.00	15.04	15.12	15.03	17.00
EDGE 3 Tx slots	19.21	19.23	19.20	20.50	14.95	14.97	14.94	16.24
EDGE 4 Tx slots	17.10	17.15	17.04	19.00	14.10	14.15	14.04	16.00

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9682	9800	9938		1537	1633	1733		4357	4407	4463		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1722.6	1752.6		828.4	838.4	848.6		
3GPP Rel 99	20.27	20.33	20.21	21.50	20.54	20.55	20.52	21.50	23.11	23.13	23.15	24.50	
3GPP Rel 99	RMC 12.2Kbps	20.44	20.45	20.43	21.50	20.56	20.63	20.53	21.50	23.16	23.18	23.16	24.50
3GPP Rel 6	HSDPA Subtest-1	19.43	19.44	19.39	20.50	19.26	19.23	19.18	20.50	21.97	21.94	22.01	23.50
3GPP Rel 6	HSDPA Subtest-2	19.41	19.43	19.37	20.50	19.21	19.27	19.22	20.50	22.01	21.85	21.91	23.50
3GPP Rel 6	HSDPA Subtest-3	18.90	18.94	18.89	20.00	18.74	18.71	18.75	20.00	21.50	21.43	21.45	23.00
3GPP Rel 6	HSDPA Subtest-4	18.88	18.94	18.91	20.00	18.86	18.77	18.71	20.00	21.47	21.31	21.30	23.00
3GPP Rel 6	DC-HSDPA Subtest-1	19.42	19.43	19.36	20.50	19.89	19.06	19.12	20.50	21.82	21.88	21.82	23.50
3GPP Rel 6	DC-HSDPA Subtest-2	19.35	19.43	19.37	20.50	18.97	19.07	19.07	20.50	21.81	21.84	21.79	23.50
3GPP Rel 6	DC-HSDPA Subtest-3	18.89	18.89	18.86	20.00	18.56	18.64	18.58	20.00	21.31	21.36	21.28	23.00
3GPP Rel 6	DC-HSDPA Subtest-4	18.93	18.88	18.91	20.00	18.59	18.56	18.67	20.00	21.26	21.28	21.19	23.00
3GPP Rel 6	HSUPA Subtest-1	17.38	17.37	17.42	18.50	17.41	17.47	17.53	18.50	19.88	19.92	19.98	21.50
3GPP Rel 6	HSUPA Subtest-2	17.39	17.44	17.35	18.50	17.27	17.35	17.20	18.50	19.91	19.94	19.99	21.50
3GPP Rel 6	HSUPA Subtest-3	16.42	16.44	16.36	16.50	16.29	16.31	16.22	19.50	20.85	20.92	20.92	22.50
3GPP Rel 6	HSUPA Subtest-4	16.93	16.94	16.90	18.00	16.88	16.78	16.74	18.00	19.45	19.46	19.44	21.00
3GPP Rel 6	HSUPA Subtest-5	18.43	18.44	18.39	19.50	18.18	18.15	18.20	19.50	21.16	20.80	20.90	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.40	17.37	17.39	18.50	17.44	17.50	17.47	18.50	20.53	20.59	20.56	21.50



Band 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq. 19100	Middle Ch. Freq. 19300	High Ch. Freq. 19500				
Channel										
Frequency (MHz)										
20	QPSK	1	0	1910	1930	1950	22	0		
20	QPSK	1	49	21.43	21.54	21.49				
20	QPSK	1	99	21.41	21.53	21.48				
20	QPSK	50	0	21.40	21.48	21.46				
20	QPSK	50	24	21.32	21.45	21.39				
20	QPSK	50	50	21.37	21.39	21.41				
20	QPSK	100	0	21.39	21.44	21.41	22	0		
20	QPSK	100	0	21.32	21.43	21.43				
20	16QAM	1	0	21.38	21.43	21.42				
20	16QAM	1	49	21.35	21.44	21.38				
20	16QAM	50	0	21.33	21.42	21.38				
20	16QAM	50	24	21.38	21.41	21.37				
20	16QAM	50	50	21.34	21.40	21.44	22	0		
20	16QAM	100	0	21.39	21.47	21.45				
Channel										
Frequency (MHz)										
15	QPSK	1	0	1857.5	1860	1862.5			22	0
15	QPSK	1	37	21.46	21.45	21.45				
15	QPSK	1	74	21.51	21.49	21.47				
15	QPSK	36	0	21.48	21.42	21.41				
15	QPSK	36	20	21.38	21.35	21.43				
15	QPSK	36	39	21.33	21.37	21.30				
15	16QAM	1	0	21.41	21.37	21.42	22	0		
15	16QAM	1	0	21.35	21.39	21.40				
15	16QAM	1	37	21.38	21.37	21.35				
15	16QAM	1	74	21.34	21.40	21.42				
15	16QAM	36	0	21.36	21.34	21.41				
15	16QAM	36	20	21.35	21.36	21.38				
15	16QAM	36	39	21.35	21.35	21.31	22	0		
15	16QAM	75	0	21.42	21.37	21.37				
Channel										
Frequency (MHz)										
10	QPSK	1	0	1850	1860	1865			22	0
10	QPSK	1	25	21.48	21.44	21.50				
10	QPSK	1	49	21.44	21.45	21.46				
10	QPSK	25	0	21.42	21.39	21.47				
10	QPSK	12	0	21.44	21.39	21.38				
10	QPSK	25	25	21.38	21.34	21.38				
10	QPSK	50	0	21.38	21.41	21.35	22	0		
10	16QAM	1	0	21.38	21.38	21.38				
10	16QAM	1	49	21.39	21.40	21.40				
10	16QAM	12	0	21.40	21.39	21.33				
10	16QAM	25	12	21.33	21.38	21.35				
10	16QAM	25	25	21.35	21.35	21.29				
10	16QAM	50	0	21.45	21.37	21.43	22	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	1822.5	18300	1837.5			22	0
5	QPSK	1	12	21.47	21.50	21.51				
5	QPSK	1	24	21.44	21.44	21.51				
5	QPSK	12	0	21.45	21.43	21.45				
5	QPSK	12	7	21.44	21.36	21.39				
5	QPSK	12	13	21.32	21.30	21.31				
5	16QAM	1	0	21.39	21.42	21.39	22	0		
5	16QAM	1	12	21.33	21.35	21.39				
5	16QAM	1	24	21.42	21.36	21.34				
5	16QAM	12	0	21.36	21.46	21.36				
5	16QAM	12	7	21.33	21.37	21.37				
5	16QAM	12	13	21.32	21.33	21.30				
5	16QAM	25	0	21.43	21.43	21.42	22	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	1815	18300	1845			22	0
3	QPSK	1	8	21.48	21.47	21.51				
3	QPSK	1	16	21.52	21.43	21.52				
3	QPSK	8	0	21.44	21.42	21.43				
3	QPSK	8	4	21.36	21.41	21.43				
3	QPSK	8	7	21.29	21.35	21.34				
3	QPSK	15	0	21.35	21.37	21.34	22	0		
3	16QAM	1	0	21.42	21.41	21.35				
3	16QAM	1	8	21.33	21.40	21.30				
3	16QAM	1	14	21.37	21.38	21.43				
3	16QAM	8	0	21.34	21.41	21.40				
3	16QAM	8	4	21.36	21.31	21.38				
3	16QAM	8	7	21.38	21.36	21.30	22	0		
3	16QAM	15	0	21.44	21.41	21.35				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	1857	1860	1863			22	0
1.4	QPSK	1	24	21.61	21.46	21.44				
1.4	QPSK	1	3	21.40	21.53	21.44				
1.4	QPSK	1	5	21.47	21.47	21.50				
1.4	QPSK	3	0	21.56	21.40	21.50				
1.4	QPSK	3	1	21.40	21.40	21.41				
1.4	QPSK	3	3	21.30	21.38	21.35	22	0		
1.4	QPSK	6	0	21.42	21.40	21.38				
1.4	16QAM	1	0	21.41	21.41	21.34				
1.4	16QAM	1	5	21.40	21.39	21.39				
1.4	16QAM	1	5	21.42	21.42	21.40				
1.4	16QAM	3	0	21.40	21.35	21.34				
1.4	16QAM	3	1	21.40	21.31	21.35	22	0		
1.4	16QAM	3	3	21.32	21.34	21.36				
1.4	16QAM	6	0	21.38	21.42	21.46				

Band 4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq. 20750	Middle Ch. Freq. 20975	High Ch. Freq. 21200				
Channel										
Frequency (MHz)										
20	QPSK	1	0	1720	1723	1745	22	0		
20	QPSK	1	49	21.27	21.27	21.29				
20	QPSK	1	99	21.22	21.35	21.34				
20	QPSK	50	0	21.20	21.28	21.30				
20	QPSK	50	24	21.19	21.26	21.28				
20	QPSK	50	50	21.19	21.20	21.26				
20	QPSK	100	0	21.17	21.22	21.22	22	0		
20	QPSK	100	0	21.20	21.19	21.28				
20	16QAM	1	0	21.17	21.24	21.21				
20	16QAM	1	49	21.16	21.19	21.21				
20	16QAM	50	0	21.15	21.27	21.23				
20	16QAM	50	24	21.18	21.27	21.28				
20	16QAM	50	50	21.19	21.19	21.25	22	0		
20	16QAM	100	0	21.16	21.22	21.28				
Channel										
Frequency (MHz)										
15	QPSK	1	0	1717.5	1722.5	1747.5			22	0
15	QPSK	1	37	21.31	21.32	21.32				
15	QPSK	1	74	21.22	21.21	21.18				
15	QPSK	1	74	21.31	21.29	21.25				
15	QPSK	36	0	21.27	21.22	21.29				
15	QPSK	36	20	21.27	21.26	21.21				
15	QPSK	36	39	21.13	21.15	21.11	22	0		
15	16QAM	1	0	21.14	21.19	21.16				
15	16QAM	1	37	21.20	21.17	21.19				
15	16QAM	1	74	21.12	21.16	21.17				
15	16QAM	36	0	21.23	21.17	21.26				
15	16QAM	36	20	21.18	21.24	21.23				
15	16QAM	36	39	21.18	21.10	21.09	22	0		
15	16QAM	75	0	21.19	21.20	21.20				
Channel										
Frequency (MHz)										
10	QPSK	1	0	2090	2097.5	2100			22	0
10	QPSK	1	25	21.27	21.29	21.29				
10	QPSK	1	49	21.23	21.20	21.21				
10	QPSK	25	0	21.24	21.29	21.18				
10	QPSK	25	12	21.17	21.26	21.25				
10	QPSK	25	25	21.16	21.11	21.15				
10	QPSK	50	0	21.19	21.21	21.19	22	0		
10	16QAM	1	0	21.14	21.18	21.17				
10	16QAM	1	25	21.17	21.12	21.14				
10	16QAM	1	49	21.13	21.15	21.17				
10	16QAM	25	0	21.20	21.19	21.29				
10	16QAM	25	12	21.23	21.26	21.18				
10	16QAM	25	25	21.16	21.16	21.18	22	0		
10	16QAM	50	0	21.19	21.16	21.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	1872.5	1877.5	1892.5			22	0
5	QPSK	1	12	21.30	21.29	21.35				
5	QPSK	1	24	21.18	21.28	21.24				
5	QPSK	12	0	21.31	21.32	21.33				
5	QPSK	12	0	21.27	21.23	21.23				
5	QPSK	12	7	21.21	21.16	21.23				
5	QPSK	12	13	21.13	21.16	21.12	22	0		
5	16QAM	1	0	21.10	21.12	21.13				
5	16QAM	1	12	21.13	21.14	21.15				
5	16QAM	1	24	21.09	21.12	21.11				
5	16QAM	12	0	21.24	21.22	21.26				
5	16QAM	12	7	21.20	21.19	21.20				
5	16QAM	12	13	21.22	21.13	21.14	22	0		
5	16QAM	25	0	21.15	21.21	21.13				
Channel										
Frequency (MHz)										
3	QPSK	1	0	1966	1972.5	1986			22	0
3	QPSK	1	8	21.17	21.19	21.24				
3	QPSK	1	14	21.26	21.29	21.27				
3	QPSK	8	0	21.26	21.22	21.29				
3	QPSK	8	4	21.17	21.16	21.20				
3	QPSK	8	7	21.11	21.18	21.13				
3	QPSK	15	0	21.16	21.12	21.16	22	0		
3	16QAM	1	0	21.09	21.09	21.12				
3	16QAM	1	8	21.18	21.19	21.17				
3	16QAM	1	14	21.10	21.11	21.10				



Band 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20460	Power Middle Ch. Freq. 20500	Power High Ch. Freq. 20540	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.19	24.25	24.31	25	0
10	QPSK	1	25	24.11	24.24	24.02		
10	QPSK	1	49	24.06	24.15	24.00		
10	QPSK	25	0	23.30	23.32	23.28	24	1
10	QPSK	25	12	23.25	23.30	23.21		
10	QPSK	25	25	23.17	23.20	23.16		
10	QPSK	50	0	23.33	23.35	23.28	23	2
10	16QAM	1	0	23.42	23.37	23.31		
10	16QAM	1	25	23.38	23.46	23.44		
10	16QAM	1	49	23.33	23.29	23.34	24	1
10	16QAM	25	0	22.27	22.21	22.25		
10	16QAM	25	12	22.26	22.34	22.28		
10	16QAM	25	25	22.28	22.18	22.19	23	2
10	16QAM	50	0	22.27	22.19	22.28		
10	16QAM	50	0	22.15	22.10	22.05		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.22	24.27	24.21	25	0
5	QPSK	1	12	24.23	24.22	24.11		
5	QPSK	1	24	23.95	23.98	23.96		
5	QPSK	12	0	23.88	23.42	23.91	24	1
5	QPSK	12	7	23.81	23.19	23.11		
5	QPSK	12	13	23.27	23.07	23.08		
5	QPSK	25	0	23.44	23.25	23.30	24	1
5	16QAM	1	0	23.30	23.47	23.22		
5	16QAM	1	12	23.56	23.49	23.49		
5	16QAM	1	24	23.30	23.28	23.38	23	2
5	16QAM	12	0	22.29	22.15	22.21		
5	16QAM	12	7	22.20	22.27	22.29		
5	16QAM	12	13	22.03	22.15	22.21	24	1
5	16QAM	25	0	22.24	22.05	22.28		
5	16QAM	25	0	22.19	22.02	22.05		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.22	24.13	24.15	25	0
3	QPSK	1	8	24.21	24.24	24.18		
3	QPSK	1	14	24.08	24.05	24.06		
3	QPSK	8	0	23.42	23.32	23.22	24	1
3	QPSK	8	4	23.52	23.26	23.22		
3	QPSK	8	7	23.19	23.27	23.07		
3	QPSK	15	0	23.30	23.28	23.24	24	1
3	16QAM	1	0	23.45	23.28	23.46		
3	16QAM	1	8	23.50	23.52	23.48		
3	16QAM	1	14	23.36	23.22	23.18	23	2
3	16QAM	8	0	22.28	22.18	22.17		
3	16QAM	8	4	22.14	22.23	22.11		
3	16QAM	8	7	22.18	22.04	22.03	24	1
3	16QAM	15	0	22.06	22.25	22.05		
3	16QAM	15	0	22.07	22.25	22.43		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	24.19	24.24	24.28	25	0
1.4	QPSK	1	3	23.89	24.02	24.12		
1.4	QPSK	1	6	23.50	23.98	23.98		
1.4	QPSK	3	0	23.89	23.90	23.85	24	1
1.4	QPSK	3	1	24.08	24.01	24.00		
1.4	QPSK	3	3	24.01	23.97	23.93		
1.4	QPSK	6	0	23.05	23.07	23.15	24	1
1.4	16QAM	1	0	23.18	23.11	23.01		
1.4	16QAM	1	3	23.06	23.17	23.08		
1.4	16QAM	1	5	23.09	23.01	23.01	24	1
1.4	16QAM	3	0	23.01	23.09	23.01		
1.4	16QAM	3	1	23.05	23.04	23.00		
1.4	16QAM	3	3	23.08	23.02	22.94	23	2
1.4	16QAM	6	0	22.09	22.12	22.15		

Band 12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 7060	Power Middle Ch. Freq. 7066	Power High Ch. Freq. 7072	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.28	24.33	24.28	25	0
10	QPSK	1	25	24.51	24.35	24.34		
10	QPSK	1	49	24.44	24.44	24.21		
10	QPSK	25	0	23.53	23.63	23.61	24	1
10	QPSK	25	12	23.54	23.56	23.56		
10	QPSK	25	25	23.58	23.60	23.59		
10	QPSK	50	0	23.57	23.68	23.65	24	1
10	16QAM	1	0	23.40	23.59	23.57		
10	16QAM	1	25	23.78	23.72	23.76		
10	16QAM	1	49	23.63	23.73	23.60	23	2
10	16QAM	25	0	22.49	22.51	22.55		
10	16QAM	25	12	22.50	22.49	22.49		
10	16QAM	25	25	22.53	22.53	22.55	24	1
10	16QAM	50	0	22.52	22.53	22.61		
10	16QAM	50	0	22.30	22.40	23.16		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.45	24.44	24.42	25	0
5	QPSK	1	12	24.43	24.29	24.45		
5	QPSK	1	24	24.47	24.30	24.35		
5	QPSK	12	0	23.56	23.59	23.60	24	1
5	QPSK	12	7	23.99	23.46	23.62		
5	QPSK	12	13	23.83	23.60	23.69		
5	QPSK	25	0	23.65	23.51	23.52	24	1
5	16QAM	1	0	23.59	23.52	23.47		
5	16QAM	1	12	23.80	23.73	23.68		
5	16QAM	1	24	23.69	23.62	23.75	23	2
5	16QAM	12	0	22.50	22.55	22.52		
5	16QAM	12	7	22.47	22.44	22.56		
5	16QAM	12	13	22.42	22.49	22.45	24	1
5	16QAM	25	0	22.62	22.41	22.54		
5	16QAM	25	0	22.62	22.41	22.54		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.40	24.39	24.47	25	0
3	QPSK	1	8	24.25	24.28	24.27		
3	QPSK	1	14	24.35	24.38	24.48		
3	QPSK	8	0	23.69	23.55	23.68	24	1
3	QPSK	8	4	23.63	23.51	23.59		
3	QPSK	8	7	23.69	23.70	23.59		
3	QPSK	15	0	23.52	23.52	23.54	24	1
3	16QAM	1	0	23.51	23.49	23.45		
3	16QAM	1	8	23.76	23.81	23.82		
3	16QAM	1	14	23.60	23.63	23.70	23	2
3	16QAM	8	0	22.52	22.58	22.58		
3	16QAM	8	4	22.52	22.48	22.50		
3	16QAM	8	7	22.50	22.51	22.49	24	1
3	16QAM	15	0	22.56	22.43	22.49		
3	16QAM	15	0	22.56	22.43	22.49		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	24.13	24.17	24.07	25	0
1.4	QPSK	1	3	24.06	24.01	24.00		
1.4	QPSK	1	6	23.95	24.03	24.05		
1.4	QPSK	3	0	24.10	24.02	24.10	24	1
1.4	QPSK	3	1	23.88	24.02	23.97		
1.4	QPSK	3	3	24.06	24.05	23.98		
1.4	QPSK	6	0	23.34	23.28	23.14	24	1
1.4	16QAM	1	0	23.10	23.27	23.23		
1.4	16QAM	1	3	23.27	23.26	23.34		
1.4	16QAM	1	5	23.29	23.31	23.36	24	1
1.4	16QAM	3	0	23.08	23.19	23.21		
1.4	16QAM	3	1	23.30	23.23	23.10		
1.4	16QAM	3	3	23.21	23.28	23.38	23	2
1.4	16QAM	6	0	22.08	22.23	22.13		



Band 14

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.26	24.17		25	0		
10	QPSK	1	25		24.14					
10	QPSK	1	49		24.14					
10	QPSK	25	0	23.29						
10	QPSK	25	12	23.26			24	1		
10	QPSK	25	25	23.22						
10	QPSK	50	0	23.27						
10	16QAM	1	0	23.38						
10	16QAM	1	25	23.30			24	1		
10	16QAM	1	49	23.35						
10	16QAM	25	0	22.24						
10	16QAM	25	12	22.28						
10	16QAM	25	25	22.17			23	2		
10	16QAM	50	0	22.23						
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.55	23.50	23.55	25	0		
5	QPSK	1	12	24.03	24.07	24.06				
5	QPSK	1	24	24.15	24.23	24.25				
5	QPSK	12	0	23.14	23.19	23.21				
5	QPSK	12	7	23.18	23.23	23.25	24	1		
5	QPSK	12	13	23.16	23.13	23.09				
5	QPSK	25	0	23.19	23.19	23.20				
5	16QAM	1	0	23.23	23.31	23.27				
5	16QAM	1	12	23.46	23.50	23.52	24	1		
5	16QAM	1	24	23.29	23.34	23.33				
5	16QAM	12	0	22.15	22.19	22.21				
5	16QAM	12	7	22.22	22.24	22.23				
5	16QAM	12	13	22.18	22.18	22.12	23	2		
5	16QAM	25	0	22.17	22.21	22.17				

Band 30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0			23.32	21.5	0		
10	QPSK	1	25			20.25				
10	QPSK	1	49			20.31				
10	QPSK	25	0	20.33						
10	QPSK	25	12	20.21			21.5	0		
10	QPSK	25	25	20.22						
10	QPSK	50	0	20.29						
10	16QAM	1	0	20.21						
10	16QAM	1	25	20.27			21.5	0		
10	16QAM	1	49	20.25						
10	16QAM	25	0	20.22						
10	16QAM	25	12	20.28						
10	16QAM	25	25	20.25			21.5	0		
10	16QAM	50	0	20.25						
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.07	23.03	23.03	21.5	0		
5	QPSK	1	12	20.27	20.23	20.28				
5	QPSK	1	24	20.30	20.21	20.24				
5	QPSK	12	0	20.22	20.27	20.27				
5	QPSK	12	7	20.17	20.18	20.15	21.5	0		
5	QPSK	12	13	20.18	20.12	20.16				
5	QPSK	25	0	20.19	20.12	20.11				
5	16QAM	1	0	20.18	20.15	20.15				
5	16QAM	1	12	20.22	20.26	20.26	21.5	0		
5	16QAM	1	24	20.21	20.16	20.20				
5	16QAM	12	0	20.16	20.10	20.21				
5	16QAM	12	7	20.10	20.19	20.11				
5	16QAM	12	13	20.19	20.24	20.19	21.5	0		
5	16QAM	25	0	20.16	20.11	20.19				



Band 66

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. Freq, Power Middle Ch. Freq, Power High Ch. Freq, Tune-up limit (dBm), MPR (dB). Includes channel frequency lists and sub-channel parameters.

Band 71

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. Freq, Power Middle Ch. Freq, Power High Ch. Freq, Tune-up limit (dBm), MPR (dB). Includes channel frequency lists and sub-channel parameters.



Power for Sensor Off

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.51	32.65	32.49	33.50	23.51	23.55	23.49	24.50
GPRS 1 Tx slot	32.54	32.57	32.54	33.50	23.54	23.57	23.54	24.50
GPRS 2 Tx slots	31.55	31.56	31.58	32.50	25.55	25.56	25.58	26.50
GPRS 3 Tx slots	29.46	29.49	29.52	30.50	25.20	25.23	25.26	26.24
GPRS 4 Tx slots	28.33	28.41	28.38	29.50	25.33	25.41	25.38	26.50
EDGE 1 Tx slot	26.34	26.54	26.55	27.50	17.34	17.54	17.55	18.50
EDGE 2 Tx slots	25.27	25.35	25.36	26.50	19.27	19.35	19.36	20.50
EDGE 3 Tx slots	22.89	22.87	22.79	24.00	18.63	18.61	18.53	19.74
EDGE 4 Tx slots	21.48	21.42	21.46	22.50	18.48	18.42	18.46	19.50

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1830	1809.8		1850.2	1830	1809.8	
GSM 1 Tx slot	30.01	30.02	29.78	31.00	21.01	21.02	20.78	22.00
GPRS 1 Tx slot	30.13	30.17	29.83	31.00	21.13	21.17	20.83	22.00
GPRS 2 Tx slots	28.93	29.02	28.73	30.00	22.93	23.02	22.73	24.00
GPRS 3 Tx slots	26.46	26.60	26.43	27.50	22.20	22.34	22.17	23.24
GPRS 4 Tx slots	23.35	25.51	25.39	28.50	22.35	22.51	22.39	23.50
EDGE 1 Tx slot	25.70	25.77	25.44	27.00	16.70	16.77	16.44	18.00
EDGE 2 Tx slots	24.93	24.88	24.49	26.00	18.93	18.88	18.49	20.00
EDGE 3 Tx slots	22.58	22.45	22.00	23.50	18.32	18.19	17.74	19.24
EDGE 4 Tx slots	21.15	21.09	20.40	22.00	18.15	18.09	17.40	19.00

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V			Tune-up Limit (dBm)		
	9262	9400	9538		1312	1413	1513	4132	4182	4233			
TX Channel	9682	9800	9938		1537	1638	1738	4357	4407	4468			
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1722.6	1752.6	828.4	838.4	848.6			
3GPP Rel 99	AMR 12.2Kbps	23.56	23.58	23.57	24.50	23.62	23.61	23.59	24.50	23.11	23.13	23.15	24.50
3GPP Rel 99	RMC 12.2Kbps	23.67	23.68	23.58	24.50	23.64	23.65	23.61	24.50	23.16	23.18	23.16	24.50
3GPP Rel 6	HSDPA Subtest-1	22.47	22.34	22.28	23.50	22.37	22.30	22.29	23.50	21.97	21.94	22.01	23.50
3GPP Rel 6	HSDPA Subtest-2	22.38	22.25	22.17	23.50	22.26	22.31	22.25	23.50	22.01	21.85	21.91	23.50
3GPP Rel 6	HSDPA Subtest-3	21.88	21.73	21.69	23.00	21.79	21.81	21.79	23.00	21.50	21.43	21.45	23.00
3GPP Rel 6	HSDPA Subtest-4	21.87	21.69	21.67	23.00	21.87	21.79	21.81	23.00	21.47	21.31	21.30	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.36	22.31	22.28	23.50	22.08	22.11	22.15	23.50	21.82	21.88	21.82	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.28	22.22	22.20	23.50	22.05	22.09	22.18	23.50	21.81	21.84	21.79	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.63	21.65	21.59	23.00	21.62	21.68	21.70	23.00	21.31	21.36	21.28	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.61	21.53	21.58	23.00	21.62	21.64	21.69	23.00	21.26	21.28	21.19	23.00
3GPP Rel 6	HSUPA Subtest-1	20.51	20.52	20.52	21.50	20.51	20.55	20.55	21.50	19.88	19.92	19.98	21.50
3GPP Rel 6	HSUPA Subtest-2	20.44	20.35	20.27	21.50	20.36	20.39	20.31	21.50	19.91	19.94	19.99	21.50
3GPP Rel 6	HSUPA Subtest-3	21.45	21.39	21.26	22.50	21.40	21.39	21.31	22.50	20.85	20.92	20.92	22.50
3GPP Rel 6	HSUPA Subtest-4	20.02	19.87	19.76	21.00	19.90	19.87	19.82	21.00	19.45	19.46	19.44	21.00
3GPP Rel 6	HSUPA Subtest-5	21.40	21.30	21.20	22.50	21.30	21.24	21.28	22.50	21.16	20.80	20.90	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.59	20.54	20.51	21.50	20.52	20.57	20.58	21.50	20.53	20.59	20.58	21.50



Band 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 19100	Middle Ch. Freq. 19200	High Ch. Freq. 19300		
Channel								
Frequency (MHz)								
20	QPSK	1	0	24.30	24.31	24.31	25	0
20	QPSK	1	49	24.35	24.21	24.29		
20	QPSK	1	99	24.03	23.92	23.97	24	1
20	QPSK	50	0	23.46	23.51	23.38		
20	QPSK	50	24	23.45	23.42	23.35	24	1
20	QPSK	50	50	23.44	23.28	23.20		
20	QPSK	100	0	23.44	23.48	23.27	24	1
20	16QAM	1	0	23.17	23.33	23.21		
20	16QAM	1	49	23.69	23.54	23.52	23	2
20	16QAM	1	99	23.19	23.15	23.23		
20	16QAM	50	0	22.81	22.34	22.33	23	2
20	16QAM	50	24	22.46	22.34	22.30		
20	16QAM	50	50	22.41	22.18	22.13	23	2
20	16QAM	100	0	22.47	22.26	22.21		
Channel								
Frequency (MHz)								
15	QPSK	1	0	1857.5	1860	1862.5	25	0
15	QPSK	1	37	24.34	24.43	24.32		
15	QPSK	1	74	24.21	24.13	24.02	24	1
15	QPSK	36	20	23.51	23.42	23.29		
15	QPSK	36	20	23.46	23.37	23.23	24	1
15	QPSK	36	39	23.47	23.24	23.17		
15	16QAM	1	0	23.50	23.38	23.25	24	1
15	16QAM	1	0	23.50	23.44	23.35		
15	16QAM	1	37	23.56	23.51	23.53	23	2
15	16QAM	1	74	23.46	23.27	23.23		
15	16QAM	36	0	22.52	22.36	22.31	23	2
15	16QAM	36	20	22.46	22.34	22.24		
15	16QAM	36	39	22.41	22.24	22.13	23	2
15	16QAM	75	0	22.49	22.28	22.18		
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.30	24.29	24.17	25	0
10	QPSK	1	25	24.51	24.37	24.24		
10	QPSK	1	49	24.30	24.19	24.08	24	1
10	QPSK	25	0	23.50	23.42	23.33		
10	QPSK	25	12	23.50	23.38	23.28	24	1
10	QPSK	25	25	23.45	23.31	23.22		
10	QPSK	50	0	23.53	23.39	23.31	24	1
10	16QAM	1	0	23.62	23.48	23.35		
10	16QAM	1	1	23.68	23.48	23.45	23	2
10	16QAM	1	49	23.60	23.39	23.25		
10	16QAM	25	0	22.51	22.35	22.23	23	2
10	16QAM	25	12	22.47	22.31	22.22		
10	16QAM	25	25	22.48	22.24	22.14	23	2
10	16QAM	50	0	22.49	22.30	22.23		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.30	24.17	24.25	25	0
5	QPSK	1	12	24.36	24.46	24.37		
5	QPSK	1	24	24.03	24.13	24.10	24	1
5	QPSK	12	0	23.28	23.45	23.37		
5	QPSK	12	7	23.34	23.48	23.31	24	1
5	QPSK	12	13	23.38	23.39	23.32		
5	QPSK	25	0	23.48	23.47	23.35	24	1
5	16QAM	1	0	23.38	23.50	23.50		
5	16QAM	1	12	23.37	23.39	23.42	23	2
5	16QAM	1	24	23.38	23.46	23.30		
5	16QAM	12	0	23.23	23.28	23.30	23	2
5	16QAM	12	7	23.28	23.32	23.22		
5	16QAM	12	13	23.21	22.07	22.18	23	2
5	16QAM	25	0	22.28	22.38	22.19		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.17	24.20	24.27	25	0
3	QPSK	1	8	24.44	24.28	24.40		
3	QPSK	1	14	24.12	24.10	24.17	24	1
3	QPSK	8	0	23.36	23.33	23.30		
3	QPSK	8	4	23.43	23.41	23.35	24	1
3	QPSK	8	7	23.39	23.41	23.19		
3	QPSK	15	0	23.42	23.35	23.27	24	1
3	16QAM	1	0	23.44	23.45	23.41		
3	16QAM	1	8	23.40	23.56	23.33	23	2
3	16QAM	1	14	23.32	23.29	23.29		
3	16QAM	8	0	22.25	22.33	22.20	23	2
3	16QAM	8	4	22.41	22.28	22.17		
3	16QAM	8	7	22.10	22.20	22.18	23	2
3	16QAM	15	0	22.40	22.38	22.24		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	1850.7	1850	1850.3	25	0
1.4	QPSK	1	3	24.03	24.04	24.02		
1.4	QPSK	1	5	24.05	24.02	23.91	24	1
1.4	QPSK	3	0	24.18	24.11	24.16		
1.4	QPSK	3	1	24.02	24.01	23.99	24	1
1.4	QPSK	3	3	24.00	23.99	24.09		
1.4	QPSK	6	0	22.98	23.02	23.04	24	1
1.4	16QAM	1	0	23.07	23.11	23.14		
1.4	16QAM	1	3	23.20	23.12	23.01	24	1
1.4	16QAM	1	5	22.97	23.09	22.98		
1.4	16QAM	3	0	23.09	23.06	23.10	24	1
1.4	16QAM	3	1	23.11	23.08	23.05		
1.4	16QAM	3	3	22.83	23.06	23.03	23	2
1.4	16QAM	6	0	21.97	22.12	22.19		

Band 4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 20050	Middle Ch. Freq. 20175	High Ch. Freq. 20300		
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.87	23.83	23.80	25	0
20	QPSK	1	49	24.22	23.89	24.20		
20	QPSK	1	99	23.87	23.89	23.88	24	1
20	QPSK	50	0	23.16	23.31	23.23		
20	QPSK	50	24	23.27	23.22	23.25	24	1
20	QPSK	50	50	23.18	23.24	23.22		
20	QPSK	100	0	23.19	23.48	23.18	24	1
20	16QAM	1	0	23.10	23.31	23.23		
20	16QAM	1	49	23.97	23.92	23.98	23	2
20	16QAM	1	99	23.19	23.08	23.11		
20	16QAM	50	0	22.25	22.28	22.17	23	2
20	16QAM	50	24	22.28	22.22	22.17		
20	16QAM	50	50	22.16	22.21	22.17	23	2
20	16QAM	100	0	22.17	22.23	22.14		
Channel								
Frequency (MHz)								
15	QPSK	1	0	24.12	24.10	24.19	25	0
15	QPSK	1	37	23.81	23.95	23.82		
15	QPSK	1	74	23.71	23.69	23.88	24	1
15	QPSK	36	0	23.34	23.23	23.19		
15	QPSK	36	20	23.38	23.02	23.24	24	1
15	QPSK	36	39	23.26	23.31	23.24		
15	16QAM	1	0	23.24	23.37	23.28	24	1
15	16QAM	1	37	23.39	23.56	23.43		
15	16QAM	1	74	23.12	23.12	23.15	23	2
15	16QAM	36	0	22.20	22.17	22.15		
15	16QAM	36	20	22.16	22.26	22.22	23	2
15	16QAM	36	39	22.14	22.23	22.13		
15	16QAM	75	0	22.24	22.08	22.18	23	2
15	16QAM	75	0	22.24	22.08	22.18		
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.15	24.14	24.15	25	0
10	QPSK	1	25	23.75	23.77	23.69		
10	QPSK	1	49	23.75	23.84	23.84	24	1
10	QPSK	25	0	23.18	23.28	23.19		
10	QPSK	25	12	23.22	23.38	23.28	24	1
10	QPSK	25	25	23.15	23.31	23.27		
10	QPSK	50	0	23.15	23.25	23.27	24	1
10	16QAM	1	0	23.17	23.33	23.27		
10	16QAM	1	25	23.51	23.48	23.45	23	2
10	16QAM	1	49	23.08	23.11	23.12		
10	16QAM	25	0	22.21	22.13	22.11	23	2
10	16QAM	25	12	22.19	22.19	22.18		
10	16QAM	25	25	22.21	22.15	22.15	23	2
10	16QAM	50	0	22.13	22.31	22.25		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.15	24.18	24.14	25	0
5	QPSK	1	12	23.74	23.91	23.77		
5	QPSK	1	24	23.72	23.69	23.71	24	1
5	QPSK	12	0	23.20	23.21	23.24		
5	QPSK	12	7	23.26	23.26	23.24	24	1
5	QPSK	12	13	23.31	23.22	23.13		
5	QPSK	25	0	23.27	23.17	23.22	24	1
5	16QAM	1	0	23.38	23.22	23.18		
5	16QAM	1	12	23.38	23.33	23.48	23	2
5	16QAM	1	24	23.17	23.08	23.05		
5	16QAM	12	0	23.16	23.25	23.13	23	2
5	16QAM	12	7	22.24	22.09	22.20		
5	16QAM	12	13	22.15	22.27	22.11	23	



Band 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20650	Power Middle Ch. Freq. 20695	Power High Ch. Freq. 20700	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.19	24.28	24.09	25	0
10	QPSK	1	26	24.11	24.24	24.02		
10	QPSK	1	49	24.06	24.15	24.00		
10	QPSK	25	0	23.30	23.34	23.28	24	1
10	QPSK	25	12	23.25	23.30	23.21		
10	QPSK	25	25	23.17	23.20	23.16		
10	QPSK	60	0	23.33	23.35	23.29	23	2
10	16QAM	1	0	23.42	23.37	23.31		
10	16QAM	1	26	23.38	23.46	23.44		
10	16QAM	1	49	23.33	23.29	23.34	24	1
10	16QAM	25	0	22.27	22.21	22.25		
10	16QAM	25	12	22.26	22.34	22.28		
10	16QAM	25	25	22.28	22.18	22.19	23	2
10	16QAM	60	0	22.27	22.19	22.28		
10	16QAM	60	0	22.27	22.19	22.28		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.22	24.27	24.21	25	0
5	QPSK	1	12	24.23	24.22	24.11		
5	QPSK	1	24	23.95	23.98	23.96		
5	QPSK	12	0	23.38	23.42	23.41	24	1
5	QPSK	12	7	23.31	23.39	23.31		
5	QPSK	12	13	23.27	23.07	23.08		
5	QPSK	25	0	23.44	23.26	23.30	24	1
5	16QAM	1	0	23.30	23.47	23.22		
5	16QAM	1	12	23.56	23.49	23.49		
5	16QAM	1	24	23.30	23.28	23.38	23	2
5	16QAM	12	0	22.29	22.15	22.21		
5	16QAM	12	7	22.20	22.27	22.29		
5	16QAM	12	13	22.03	22.15	22.21	23	2
5	16QAM	25	0	22.24	22.05	22.28		
5	16QAM	25	0	22.24	22.05	22.28		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.22	24.13	24.15	25	0
3	QPSK	1	8	24.21	24.24	24.18		
3	QPSK	1	14	24.08	24.05	24.06		
3	QPSK	8	0	23.42	23.32	23.22	24	1
3	QPSK	8	4	23.22	23.26	23.22		
3	QPSK	8	7	23.19	23.27	23.07		
3	QPSK	15	0	23.30	23.28	23.24	24	1
3	16QAM	1	0	23.45	23.28	23.46		
3	16QAM	1	8	23.50	23.52	23.48		
3	16QAM	1	14	23.36	23.22	23.18	23	2
3	16QAM	8	0	22.28	22.18	22.17		
3	16QAM	8	4	22.14	22.23	22.11		
3	16QAM	8	7	22.18	22.04	22.03	23	2
3	16QAM	15	0	22.06	22.25	22.05		
3	16QAM	15	0	22.06	22.25	22.05		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.80	23.94	23.99	25	0
1.4	QPSK	1	3	23.89	24.02	24.12		
1.4	QPSK	1	6	23.90	23.98	23.88		
1.4	QPSK	3	0	23.89	23.90	23.85	24	1
1.4	QPSK	3	1	24.08	24.01	24.00		
1.4	QPSK	3	3	24.01	23.97	23.93		
1.4	QPSK	6	0	23.05	23.07	23.15	24	1
1.4	16QAM	1	0	23.18	23.11	23.07		
1.4	16QAM	1	3	23.05	23.11	23.06		
1.4	16QAM	1	6	23.09	23.11	23.01	24	1
1.4	16QAM	3	0	23.01	23.06	23.07		
1.4	16QAM	3	1	23.05	23.04	23.00		
1.4	16QAM	3	3	23.08	23.02	22.94	23	2
1.4	16QAM	6	0	22.09	22.12	22.15		
1.4	16QAM	6	0	22.09	22.12	22.15		

Band 12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20995	Power Middle Ch. Freq. 21000	Power High Ch. Freq. 21030	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.28	24.53	24.36	25	0
10	QPSK	1	25	24.21	24.35	24.34		
10	QPSK	1	49	24.44	24.44	24.21		
10	QPSK	25	0	23.53	23.63	23.61	24	1
10	QPSK	25	12	23.54	23.56	23.56		
10	QPSK	25	25	23.58	23.60	23.59		
10	QPSK	60	0	23.57	23.68	23.65	24	1
10	16QAM	1	0	23.40	23.59	23.57		
10	16QAM	1	25	23.78	23.72	23.76		
10	16QAM	1	49	23.63	23.73	23.65	23	2
10	16QAM	25	0	22.49	22.51	22.56		
10	16QAM	25	12	22.50	22.49	22.49		
10	16QAM	25	25	22.53	22.53	22.56	23	2
10	16QAM	60	0	22.52	22.53	22.61		
10	16QAM	60	0	22.52	22.53	22.61		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.45	24.44	24.42	25	0
5	QPSK	1	12	24.43	24.29	24.46		
5	QPSK	1	24	24.47	24.30	24.35		
5	QPSK	12	0	23.56	23.59	23.60	24	1
5	QPSK	12	7	23.59	23.46	23.62		
5	QPSK	12	13	23.63	23.60	23.69		
5	QPSK	25	0	23.65	23.51	23.52	24	1
5	16QAM	1	0	23.59	23.52	23.47		
5	16QAM	1	12	23.60	23.73	23.58		
5	16QAM	1	24	23.69	23.62	23.75	23	2
5	16QAM	12	0	22.50	22.55	22.52		
5	16QAM	12	7	22.47	22.44	22.56		
5	16QAM	12	13	22.42	22.49	22.45	23	2
5	16QAM	25	0	22.62	22.41	22.54		
5	16QAM	25	0	22.62	22.41	22.54		
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.49	24.39	24.47	25	0
3	QPSK	1	8	24.23	24.29	24.27		
3	QPSK	1	14	24.35	24.38	24.48		
3	QPSK	8	0	23.69	23.55	23.68	24	1
3	QPSK	8	4	23.63	23.51	23.59		
3	QPSK	8	7	23.59	23.70	23.59		
3	QPSK	15	0	23.52	23.52	23.54	24	1
3	16QAM	1	0	23.51	23.49	23.45		
3	16QAM	1	8	23.76	23.81	23.82		
3	16QAM	1	14	23.60	23.63	23.70	23	2
3	16QAM	8	0	22.52	22.58	22.38		
3	16QAM	8	4	22.52	22.38	22.50		
3	16QAM	8	7	22.50	22.51	22.49	23	2
3	16QAM	15	0	22.56	22.43	22.49		
3	16QAM	15	0	22.56	22.43	22.49		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	24.13	24.17	24.07	25	0
1.4	QPSK	1	3	24.06	24.01	24.00		
1.4	QPSK	1	6	23.95	24.03	24.03		
1.4	QPSK	3	0	24.10	24.02	24.10	24	1
1.4	QPSK	3	1	23.88	24.02	23.87		
1.4	QPSK	3	3	24.06	24.05	23.98		
1.4	QPSK	6	0	23.34	23.28	23.14	24	1
1.4	16QAM	1	0	23.16	23.22	23.23		
1.4	16QAM	1	3	23.27	23.26	23.34		
1.4	16QAM	1	6	23.29	23.31	23.36	24	1
1.4	16QAM	3	0	23.08	23.31	23.27		
1.4	16QAM	3	1	23.20	23.23	23.10		
1.4	16QAM	3	3	23.21	23.28	23.38	23	2
1.4	16QAM	6	0	22.08	22.23	22.13		
1.4	16QAM	6	0	22.08	22.23	22.13		



Band 14

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.20	24.17	24.14	25	0
10	QPSK	1	25	24.15	24.12	24.09		
10	QPSK	1	49	24.10	24.07	24.04		
10	QPSK	25	0	23.20	23.17	23.14	24	1
10	QPSK	25	12	23.15	23.12	23.09		
10	QPSK	25	25	23.10	23.07	23.04		
10	QPSK	50	0	22.20	22.17	22.14	24	1
10	16QAM	1	0	22.30	22.27	22.24		
10	16QAM	1	25	22.25	22.22	22.19		
10	16QAM	1	49	22.20	22.17	22.14	23	2
10	16QAM	25	0	22.24	22.21	22.18		
10	16QAM	25	12	22.19	22.16	22.13		
10	16QAM	25	25	22.14	22.11	22.08	23	2
10	16QAM	50	0	22.23	22.20	22.17		
10	16QAM	50	0	22.23	22.20	22.17		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.05	24.02	23.99	25	0
5	QPSK	1	12	24.00	23.97	23.94		
5	QPSK	1	24	23.95	23.92	23.89		
5	QPSK	12	0	23.14	23.11	23.08	24	1
5	QPSK	12	7	23.09	23.06	23.03		
5	QPSK	12	13	23.04	23.01	22.98		
5	QPSK	25	0	22.10	22.07	22.04	24	1
5	16QAM	1	0	22.20	22.17	22.14		
5	16QAM	1	12	22.15	22.12	22.09		
5	16QAM	12	0	22.10	22.07	22.04	23	2
5	16QAM	12	7	22.05	22.02	21.99		
5	16QAM	12	13	22.00	21.97	21.94		
5	16QAM	25	0	22.17	22.14	22.11	23	2
5	16QAM	25	0	22.17	22.14	22.11		
5	16QAM	25	0	22.17	22.14	22.11		

Band 30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.30	23.28	23.26	24.5	0
10	QPSK	1	25	23.25	23.23	23.21		
10	QPSK	1	49	23.20	23.18	23.16		
10	QPSK	25	0	22.27	22.25	22.23	23.5	1
10	QPSK	25	12	22.22	22.20	22.18		
10	QPSK	25	25	22.17	22.15	22.13		
10	QPSK	50	0	22.20	22.18	22.16	23.5	1
10	16QAM	1	0	22.10	22.08	22.06		
10	16QAM	1	25	22.05	22.03	22.01		
10	16QAM	1	49	22.00	21.98	21.96	22.5	2
10	16QAM	25	0	22.04	22.02	22.00		
10	16QAM	25	12	21.99	21.97	21.95		
10	16QAM	25	25	21.94	21.92	21.90	22.5	2
10	16QAM	50	0	22.03	22.01	21.99		
10	16QAM	50	0	22.03	22.01	21.99		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.07	23.05	23.03	24.5	0
5	QPSK	1	12	23.02	23.00	22.98		
5	QPSK	1	24	22.97	22.95	22.93		
5	QPSK	12	0	22.06	22.04	22.02	23.5	1
5	QPSK	12	7	22.01	21.99	21.97		
5	QPSK	12	13	21.96	21.94	21.92		
5	QPSK	25	0	22.07	22.05	22.03	23.5	1
5	16QAM	1	0	22.10	22.08	22.06		
5	16QAM	1	12	22.05	22.03	22.01		
5	16QAM	12	0	22.00	21.98	21.96	22.5	2
5	16QAM	12	7	21.95	21.93	21.91		
5	16QAM	12	13	21.90	21.88	21.86		
5	16QAM	25	0	21.15	21.13	21.11	22.5	2
5	16QAM	25	0	21.15	21.13	21.11		
5	16QAM	25	0	21.15	21.13	21.11		



Band 66										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 15002	Power Middle Ch. Freq. 15002	Power High Ch. Freq. 15002	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	0	24.29	24.31	24.33	25	0		
30	QPSK	1	49	24.30	24.31	24.32				
30	QPSK	1	99	23.84	24.02	23.62				
30	QPSK	50	0	23.52	23.55	23.58	24	1		
30	QPSK	50	24	23.28	23.30	23.28				
30	QPSK	50	50	23.17	23.28	23.11				
30	QPSK	100	0	23.23	23.25	23.24	24	1		
30	16QAM	1	0	23.21	23.29	23.11				
30	16QAM	1	49	23.42	23.52	23.46				
30	16QAM	50	0	23.13	23.05	23.08	23	2		
30	16QAM	50	0	22.29	22.22	22.33				
30	16QAM	50	24	22.26	22.28	22.28				
30	16QAM	50	50	22.18	22.21	22.05	23	2		
30	16QAM	100	0	22.19	22.23	22.20				
30	16QAM	100	0	132417	132422	132407				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.27	24.23	24.18	25	0		
15	QPSK	1	37	24.12	24.15	24.28				
15	QPSK	1	74	23.89	23.88	23.84				
15	QPSK	36	0	23.27	23.30	23.40	24	1		
15	QPSK	36	20	23.30	23.29	23.38				
15	QPSK	36	39	23.37	23.30	23.18				
15	16QAM	1	0	23.23	23.24	23.32	24	1		
15	16QAM	1	37	23.63	23.44	23.45				
15	16QAM	1	74	23.07	23.12	23.13				
15	16QAM	36	0	22.10	22.20	22.12	23	2		
15	16QAM	36	20	22.19	22.29	22.33				
15	16QAM	36	39	22.09	22.26	22.25				
15	16QAM	75	0	22.10	22.23	22.23	23	2		
15	16QAM	75	0	130522	130522	130522				
15	16QAM	75	0	1171.5	1745	1772.5				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.24	24.18	24.20	25	0		
10	QPSK	1	20	24.28	24.28	24.18				
10	QPSK	1	49	23.83	23.85	23.88				
10	QPSK	25	0	23.43	23.35	23.49	24	1		
10	QPSK	25	15	23.38	23.24	23.35				
10	QPSK	25	25	23.38	23.31	23.15				
10	QPSK	50	0	23.12	23.25	23.29	24	1		
10	16QAM	1	0	23.35	23.23	23.21				
10	16QAM	1	25	23.43	23.55	23.41				
10	16QAM	1	49	23.07	23.14	23.15	23	2		
10	16QAM	25	0	22.11	22.19	22.27				
10	16QAM	25	12	22.19	22.14	22.19				
10	16QAM	25	20	22.09	22.08	22.09	23	2		
10	16QAM	25	20	22.32	22.24	22.24				
10	16QAM	25	0	22.32	22.08	22.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.19	24.31	24.30	25	0		
5	QPSK	1	12	24.28	24.23	24.12				
5	QPSK	1	24	23.85	23.88	23.88				
5	QPSK	12	0	23.34	23.31	23.30	24	1		
5	QPSK	12	7	23.30	23.28	23.25				
5	QPSK	12	13	23.30	23.29	23.17				
5	QPSK	25	0	23.22	23.18	23.35	24	1		
5	16QAM	1	0	23.40	23.23	23.18				
5	16QAM	1	12	23.43	23.41	23.39				
5	16QAM	1	24	23.05	23.11	22.98	23	2		
5	16QAM	12	7	22.27	22.28	22.29				
5	16QAM	12	7	22.21	22.31	22.14				
5	16QAM	12	13	22.13	22.07	22.24	23	2		
5	16QAM	12	13	22.25	22.22	22.12				
5	16QAM	25	0	22.30	22.32	22.22				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.17	24.30	24.11	25	0		
3	QPSK	1	14	23.81	23.92	23.85				
3	QPSK	1	28	23.37	23.32	23.31				
3	QPSK	8	4	23.19	23.21	23.35	24	1		
3	QPSK	8	7	23.28	23.26	23.14				
3	QPSK	15	0	23.17	23.30	23.12				
3	16QAM	1	0	23.17	23.34	23.22	24	1		
3	16QAM	1	8	23.02	23.42	23.48				
3	16QAM	1	14	23.03	23.11	23.14				
3	16QAM	8	0	22.22	22.25	22.22	23	2		
3	16QAM	8	4	22.37	22.33	22.14				
3	16QAM	8	7	22.06	22.14	22.28				
3	16QAM	15	0	22.25	22.24	22.12	23	2		
3	16QAM	15	0	131919	131922	131916				
3	16QAM	15	0	1171.5	1745	1772.5				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.42	24.44	24.44	25	0		
1.4	QPSK	1	5	23.96	23.98	24.01				
1.4	QPSK	3	0	24.09	24.01	24.03				
1.4	QPSK	3	1	23.53	24.01	23.97	24	1		
1.4	QPSK	3	3	23.95	23.98	23.96				
1.4	QPSK	6	0	23.22	23.17	23.17				
1.4	16QAM	1	0	23.01	23.15	23.08	24	1		
1.4	16QAM	1	3	23.09	23.12	23.14				
1.4	16QAM	1	6	23.21	23.14	23.08				
1.4	16QAM	3	0	23.14	23.18	23.26	23	2		
1.4	16QAM	3	1	23.17	23.15	23.07				
1.4	16QAM	3	1	23.13	23.15	23.00				
1.4	16QAM	6	0	22.12	22.15	22.06	23	2		
1.4	16QAM	6	0	132417	132422	132407				
1.4	16QAM	6	0	1171.5	1745	1772.5				

Band 71										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 133592	Power Middle Ch. Freq. 133592	Power High Ch. Freq. 133592	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.08	24.03	24.08	25	0		
20	QPSK	1	49	24.00	23.74	23.78				
20	QPSK	1	99	23.81	23.78	23.78				
20	QPSK	50	0	23.11	23.15	23.07	24	1		
20	QPSK	50	24	23.04	23.13	22.95				
20	QPSK	50	50	22.81	22.88	22.79				
20	QPSK	100	0	23.02	23.09	22.74	24	1		
20	16QAM	1	0	23.09	23.23	22.75				
20	16QAM	1	49	23.12	23.01	22.98				
20	16QAM	50	0	22.78	22.81	22.88	23	2		
20	16QAM	50	0	22.14	21.84	21.77				
20	16QAM	50	24	22.15	21.76	21.72				
20	16QAM	50	50	21.80	21.72	21.59	23	2		
20	16QAM	100	0	21.08	21.83	21.72				
20	16QAM	100	0	22.08	21.83	21.72				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.84	23.98	24.05	25	0		
15	QPSK	1	37	23.96	23.89	23.94				
15	QPSK	1	74	23.76	23.89	23.74				
15	QPSK	36	0	22.75	22.91	22.60	24	1		
15	QPSK	36	20	23.24	23.02	23.14				
15	QPSK	36	39	23.84	22.79	22.77				
15	16QAM	1	0	23.19	23.02	23.16	24	1		
15	16QAM	1	37	22.99	22.98	23.08				
15	16QAM	1	74	22.78	22.75	22.86				
15	16QAM	36	0	22.06	22.00	22.01	23	2		
15	16QAM	36	20	22.14	22.15	22.10				
15	16QAM	36	39	21.98	21.71	21.78				
15	16QAM	75	0	22.07	22.11	22.07	23	2		
15	16QAM	75	0	133112	133107	133102				
15	16QAM	75	0	1171.5	1745	1772.5				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.08	23.90	23.91	25	0		
10	QPSK	1	25	23.89	23.88	23.81				
10	QPSK	1	49	23.76	23.75	23.89				
10	QPSK	25	0	22.89	22.71	22.80	24	1		
10	QPSK	25	15	23.01	23.06	23.15				
10	QPSK	25	25	22.89	22.83	22.81				
10	QPSK	50	0	22.88	23.07	22.93	24	1		
10	16QAM	1	0	23.04	22.97	23.02				
10	16QAM	1	25	23.16	22.98	22.97				
10	16QAM	1	49	22.72	22.67	22.68	23	2		
10	16QAM	25	0	22.05	22.18	22.19				
10	16QAM	25	12	22.05	22.19	22.17				
10	16QAM	25	20	21.71	21.73	21.73	23	2		
10	16QAM	25	20	22.08	22.02	22.09				
10	16QAM	25	0	22.08	22.02	22.09				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.86	23.99	24.02	25	0		



Reduced Power for Hotspot On

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.51	32.55	32.49	33.50	23.51	23.55	23.49	24.50
GPRS 1 Tx slot	32.54	32.57	32.54	33.50	23.54	23.57	23.54	24.50
GPRS 2 Tx slots	31.55	31.56	31.58	32.50	25.55	25.56	25.58	26.50
GPRS 3 Tx slots	29.46	29.49	29.52	30.50	25.20	25.23	25.26	26.24
GPRS 4 Tx slots	28.33	28.41	28.38	29.50	25.33	25.41	25.38	26.50
EDGE 1 Tx slot	26.34	26.54	26.55	27.50	17.34	17.54	17.55	18.50
EDGE 2 Tx slots	25.27	25.35	25.36	26.50	19.27	19.35	19.36	20.50
EDGE 3 Tx slots	22.89	22.87	22.79	24.00	18.63	18.61	18.53	19.74
EDGE 4 Tx slots	21.48	21.42	21.46	22.50	18.48	18.42	18.46	19.50

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1850	1900.8		1850.2	1850	1900.8	
GSM 1 Tx slot	25.24	25.32	25.21	27.00	19.24	19.32	19.21	19.00
GPRS 1 Tx slot	25.30	25.37	25.32	27.00	16.30	16.37	16.32	18.00
GPRS 2 Tx slots	24.32	24.43	24.35	26.00	18.32	18.43	18.35	20.00
GPRS 3 Tx slots	22.24	22.41	22.36	23.50	17.98	18.15	18.10	19.24
GPRS 4 Tx slots	21.12	21.30	21.27	22.50	19.12	19.30	19.27	19.50
EDGE 1 Tx slot	22.03	22.19	21.79	23.00	13.03	13.19	12.79	14.00
EDGE 2 Tx slots	20.76	20.83	20.45	22.00	14.76	14.83	14.45	16.00
EDGE 3 Tx slots	18.53	18.67	18.23	19.50	14.27	14.41	13.97	15.24
EDGE 4 Tx slots	17.01	17.07	16.67	18.00	14.01	14.07	13.67	15.00

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V			Tune-up Limit (dBm)		
	9262	9400	9538		1312	1413	1513	4132	4182	4233			
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1722.6	1752.6		828.4	838.4	868.6		
3GPP Rel 99	19.50	19.54	19.49	20.50	20.54	20.55	20.52	21.50	23.11	23.13	23.15	24.50	
3GPP Rel 99	RMC 12.2Kbps	19.53	19.61	19.35	20.50	20.56	20.63	20.53	21.50	23.16	23.18	23.16	24.50
3GPP Rel 6	HSDPA Subtest-1	18.38	18.30	18.23	19.50	19.26	19.23	19.18	20.50	21.97	21.94	22.01	23.50
3GPP Rel 6	HSDPA Subtest-2	18.29	18.13	18.14	19.50	19.21	19.22	19.22	20.50	22.01	21.85	21.91	23.50
3GPP Rel 6	HSDPA Subtest-3	17.81	17.66	17.60	19.00	18.74	18.71	18.75	20.00	21.50	21.43	21.45	23.00
3GPP Rel 6	HSDPA Subtest-4	17.85	17.66	17.59	19.00	18.86	18.77	18.71	20.00	21.47	21.31	21.30	23.00
3GPP Rel 6	DC-HSDPA Subtest-1	18.27	18.24	18.27	19.50	18.99	19.06	19.12	20.50	21.82	21.88	21.82	23.50
3GPP Rel 6	DC-HSDPA Subtest-2	18.21	18.16	18.12	19.50	18.97	19.07	19.07	20.50	21.81	21.84	21.79	23.50
3GPP Rel 6	DC-HSDPA Subtest-3	17.61	17.56	17.48	19.00	18.56	18.64	18.58	20.00	21.31	21.36	21.28	23.00
3GPP Rel 6	DC-HSDPA Subtest-4	17.52	17.45	17.50	19.00	18.59	18.56	18.67	20.00	21.26	21.28	21.19	23.00
3GPP Rel 6	HSUPA Subtest-1	18.45	18.48	18.50	17.50	17.41	17.47	17.53	18.50	19.88	19.92	19.98	21.50
3GPP Rel 6	HSUPA Subtest-2	18.42	18.24	18.25	17.50	17.27	17.35	17.20	18.50	19.91	19.94	19.99	21.50
3GPP Rel 6	HSUPA Subtest-3	17.35	17.37	17.22	18.50	18.29	18.31	18.22	19.50	20.85	20.92	20.92	22.50
3GPP Rel 6	HSUPA Subtest-4	15.90	15.78	15.71	17.00	16.88	16.78	16.74	18.00	19.45	19.46	19.44	21.00
3GPP Rel 6	HSUPA Subtest-5	17.36	17.18	17.15	18.50	18.18	18.15	18.20	19.50	21.16	20.80	20.90	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.51	18.53	18.30	17.50	17.44	17.50	17.47	18.50	20.53	20.59	20.56	21.50



Band 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq 18700	Middle Ch. Freq 18900	High Ch. Freq 19100		
Channel				1870	1890	1910		
Frequency (MHz)								
20	QPSK	1	0	20.25	20.44	20.37	21	0
20	QPSK	1	49	20.25	20.37	20.28		
20	QPSK	1	99	20.29	20.47	20.17		
20	QPSK	50	0	20.25	20.46	20.15		
20	QPSK	50	24	20.16	20.44	20.13	21	0
20	QPSK	50	50	20.15	20.45	20.11		
20	QPSK	50	0	20.19	20.39	20.08		
20	16QAM	1	0	20.32	20.39	20.15		
20	16QAM	1	49	20.13	20.31	20.04	21	0
20	16QAM	1	99	20.18	20.37	20.05		
20	16QAM	50	0	20.20	20.43	20.08		
20	16QAM	50	24	20.06	20.37	20.15		
20	16QAM	50	50	20.06	20.35	20.04	21	0
20	16QAM	50	0	20.07	20.38	20.09		
20	16QAM	100	0	20.07	20.38	20.09		
20	16QAM	100	0	20.07	20.38	20.09		
Channel				1870.5	1890	1902.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	0	20.26	20.36	20.24	21	0
15	QPSK	1	37	20.14	20.36	20.23		
15	QPSK	1	74	20.22	20.36	20.16		
15	QPSK	36	0	20.14	20.35	20.05		
15	QPSK	36	20	20.08	20.42	20.02	21	0
15	QPSK	36	36	20.12	20.35	20.03		
15	QPSK	36	0	20.20	20.31	20.01		
15	16QAM	1	0	20.21	20.34	20.09		
15	16QAM	1	37	20.11	20.27	20.21	21	0
15	16QAM	1	74	20.14	20.32	19.84		
15	16QAM	36	0	20.13	20.34	20.02		
15	16QAM	36	20	19.99	20.28	19.99		
15	16QAM	36	0	19.98	20.30	20.01	21	0
15	16QAM	75	0	20.06	20.30	19.91		
15	16QAM	75	0	20.06	20.30	19.91		
15	16QAM	75	0	20.06	20.30	19.91		
Channel				1890	1890	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	0	20.29	20.37	20.23	21	0
10	QPSK	1	25	20.22	20.36	20.17		
10	QPSK	1	49	20.25	20.45	20.15		
10	QPSK	25	0	20.18	20.45	20.12		
10	QPSK	25	12	20.05	20.35	20.15	21	0
10	QPSK	25	25	20.04	20.36	19.99		
10	QPSK	50	0	20.11	20.34	20.03		
10	16QAM	1	0	20.30	20.34	20.07		
10	16QAM	1	25	20.02	20.26	20.14	21	0
10	16QAM	1	49	20.16	20.27	20.04		
10	16QAM	25	0	20.09	20.32	20.01		
10	16QAM	25	12	19.99	20.30	20.09		
10	16QAM	25	0	19.98	20.30	20.09	21	0
10	16QAM	50	0	20.03	20.33	19.92		
10	16QAM	50	0	20.03	20.33	19.92		
10	16QAM	50	0	20.03	20.33	19.92		
Channel				1892.5	1890	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	0	20.33	20.37	20.18	21	0
5	QPSK	1	12	20.22	20.27	20.21		
5	QPSK	1	24	20.26	20.42	20.07		
5	QPSK	12	0	20.17	20.39	20.05		
5	QPSK	12	7	20.05	20.36	20.03	21	0
5	QPSK	12	13	20.03	20.43	20.04		
5	QPSK	25	0	20.13	20.37	19.98		
5	16QAM	1	0	20.21	20.37	20.09		
5	16QAM	1	12	20.10	20.28	20.21	21	0
5	16QAM	1	24	20.15	20.26	20.09		
5	16QAM	12	0	20.14	20.44	19.86		
5	16QAM	12	7	19.99	20.26	20.09		
5	16QAM	12	13	19.96	20.24	19.93	21	0
5	16QAM	25	0	19.99	20.30	19.96		
5	16QAM	25	0	19.99	20.30	19.96		
5	16QAM	25	0	19.99	20.30	19.96		
Channel				1895	1890	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
3	QPSK	1	0	20.27	20.40	20.23	21	0
3	QPSK	1	8	20.13	20.34	20.17		
3	QPSK	1	14	20.26	20.38	20.16		
3	QPSK	8	0	20.16	20.34	20.04		
3	QPSK	8	4	20.09	20.43	20.05	21	0
3	QPSK	8	7	20.06	20.37	20.06		
3	QPSK	15	0	20.17	20.31	20.09		
3	16QAM	1	0	20.31	20.38	20.10		
3	16QAM	1	8	20.00	20.30	20.19	21	0
3	16QAM	1	14	20.09	20.33	19.97		
3	16QAM	8	0	20.18	20.40	19.95		
3	16QAM	8	4	19.99	20.35	20.04		
3	16QAM	8	7	20.03	20.29	19.92	21	0
3	16QAM	15	0	20.06	20.30	19.96		
3	16QAM	15	0	20.06	20.30	19.96		
3	16QAM	15	0	20.06	20.30	19.96		
Channel				1897.5	1890	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
1.4	QPSK	1	0	20.24	20.44	20.23	21	0
1.4	QPSK	1	5	20.18	20.35	20.11		
1.4	QPSK	3	0	20.22	20.38	20.04		
1.4	QPSK	3	1	20.09	20.37	20.11		
1.4	QPSK	3	3	20.14	20.44	20.01	21	0
1.4	QPSK	6	0	20.08	20.37	20.02		
1.4	16QAM	1	0	20.27	20.28	20.12		
1.4	16QAM	1	3	20.12	20.24	20.14		
1.4	16QAM	1	5	20.13	20.31	19.95	21	0
1.4	16QAM	3	0	20.16	20.25	20.02		
1.4	16QAM	3	1	20.01	20.25	20.02		
1.4	16QAM	3	3	20.02	20.34	19.93		
1.4	16QAM	6	0	19.98	20.27	19.88	21	0
1.4	16QAM	6	0	19.98	20.27	19.88		
1.4	16QAM	6	0	19.98	20.27	19.88		
1.4	16QAM	6	0	19.98	20.27	19.88		

Band 4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq 20000	Middle Ch. Freq 20175	High Ch. Freq 20300		
Channel				1720	1732.5	1745		
Frequency (MHz)								
20	QPSK	1	0	20.24	20.43	20.23	21	0
20	QPSK	1	49	20.17	20.37	20.23		
20	QPSK	1	99	20.18	20.31	20.20		
20	QPSK	50	0	20.16	20.41	20.24		
20	QPSK	50	24	20.14	20.36	20.15	21	0
20	QPSK	50	50	20.05	20.32	20.22		
20	QPSK	100	0	20.09	20.29	20.22		
20	16QAM	1	0	20.17	20.31	20.18		
20	16QAM	1	49	20.10	20.29	20.17	21	0
20	16QAM	1	99	20.13	20.33	20.13		
20	16QAM	50	0	20.13	20.38	20.15		
20	16QAM	50	24	20.05	20.34	20.06		
20	16QAM	50	50	19.98	20.25	20.12	21	0
20	16QAM	100	0	19.99	20.18	20.12		
20	16QAM	100	0	19.99	20.18	20.12		
20	16QAM	100	0	19.99	20.18	20.12		
Channel				1720.5	1732.5	1747.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	0	20.16	20.35	20.23	21	0
15	QPSK	1	37	20.15	20.31	20.12		
15	QPSK	1	74	20.13	20.25	20.08		
15	QPSK	36	0	20.13	20.30	20.13		
15	QPSK	36	20	20.03	20.33	20.06	21	0
15	QPSK	36	36	19.93	20.20	20.14		
15	QPSK	36	0	19.98	20.28	20.12		
15	16QAM	1	0	20.13	20.30	20.09		
15	16QAM	1	37	20.01	20.26	20.11	21	0
15	16QAM	1	74	20.09	20.19	20.03		
15	16QAM	36	0	20.03	20.32	20.03		
15	16QAM	36	20	19.95	20.23	20.03		
15	16QAM	36	0	19.96	20.14	20.05	21	0
15	16QAM	75	0	19.95	20.14	20.02		
15	16QAM	75	0	19.95	20.14	20.02		
15	16QAM	75	0	19.95	20.14	20.02		
Channel				20000	20175	20300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	0	20.20	20.39	20.19	21	0
10	QPSK	1	25	20.12	20.26	20.17		
10	QPSK	1	49	20.09	20.44	20.12		
10	QPSK	25	0	20.14	20.38	20.14		
10	QPSK	25	12	19.97	20.12	20.06	21	0
10	QPSK	25	25	19.93	20.27	20.19		
10	QPSK	50	0	20.00	20.22	20.19		
10	16QAM	1	0	20.14	20.17	20.11		
10	16QAM	1	25	20.02	20.19	20.05	21	0
10	16QAM	1	49	20.06	20.11	20.01		
10	16QAM	25	0	20.01	20.36	20.04		
10	16QAM	25	12	20.04	20.21	20.00		
10	16QAM	25	0	19.97	20.25	20.00	21	0
10	16QAM	50	0	19.92	20.07	20.02		
10	16QAM	50	0	19.92	20.07	20.02		
10	16QAM	50	0	19.92	20.07	20.02		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	0	20.15	20.36	20.18	21	0
5	QPSK	1	12	20.15	20.33	20.21		
5	QPSK	1	24	20.12	20.37	20.15		
5	QPSK	12	0	20.12	20.35	20.23		
5	QPSK	12	7	20.09	20.32	20.06	21	0
5	QPSK	12	13	20.01	20.22	20.15		
5	QPSK	25	0	19.99	20.23	20.12		
5	16QAM	1	0	20.08	20.29	20.17		
5	16QAM	1	12	20.05	20.27	20.06	21	0
5	16QAM	1	24	20.12	20.18	20.06		
5	16QAM	12	0	20.10	20.36	20.09		
5	16QAM	12	7	19.94	20.18	20.03		
5	16QAM	12	13	19.92	20.24	20.06	21	0
5	16QAM	25	0	19				



Band 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq [MHz]	Power Middle Ch. Freq [MHz]	Power High Ch. Freq [MHz]	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.19	24.20	24.21	25	0		
10	QPSK	1	28	24.11	24.24	24.02				
10	QPSK	1	48	24.06	24.15	24.00				
10	QPSK	25	0	23.30	23.32	23.28				
10	QPSK	25	12	23.25	23.30	23.21	24	1		
10	QPSK	25	25	23.17	23.20	23.16				
10	QPSK	50	0	23.33	23.35	23.29				
10	16QAM	1	0	23.42	23.37	23.31				
10	16QAM	1	28	23.36	23.46	23.44	24	1		
10	16QAM	1	48	23.33	23.29	23.24				
10	16QAM	25	0	22.27	22.21	22.29				
10	16QAM	25	12	22.25	22.24	22.28				
10	16QAM	25	25	22.28	22.18	22.19	23	2		
10	16QAM	50	0	22.27	22.19	22.26				
Channel										
Frequency (MHz)										
5	QPSK	1	0	826.5	836.5	846.5	25	0		
5	QPSK	1	12	24.22	24.27	24.21				
5	QPSK	1	24	23.95	23.98	23.96				
5	QPSK	12	0	23.36	23.42	23.31				
5	QPSK	12	7	23.21	23.19	23.11	24	1		
5	QPSK	12	13	23.27	23.07	23.08				
5	QPSK	25	0	23.44	23.28	23.30				
5	16QAM	1	0	23.30	23.47	23.22				
5	16QAM	1	12	23.66	23.49	23.49	24	1		
5	16QAM	1	24	23.30	23.28	23.38				
5	16QAM	12	0	22.29	22.15	22.21				
5	16QAM	12	7	22.20	22.27	22.29				
5	16QAM	12	13	22.03	22.15	22.21	23	2		
5	16QAM	25	0	22.24	22.09	22.28				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.22	24.13	24.15	25	0		
3	QPSK	1	8	24.21	24.24	24.18				
3	QPSK	1	14	24.08	24.05	24.05				
3	QPSK	8	0	23.42	23.32	23.32				
3	QPSK	8	4	23.22	23.28	23.22	24	1		
3	QPSK	8	7	23.19	23.27	23.07				
3	QPSK	15	0	23.30	23.28	23.24				
3	16QAM	1	0	23.45	23.28	23.48				
3	16QAM	1	8	23.50	23.52	23.49	24	1		
3	16QAM	1	14	23.36	23.22	23.16				
3	16QAM	8	0	22.28	22.18	22.17				
3	16QAM	8	4	22.14	22.23	22.11				
3	16QAM	8	7	22.18	22.04	22.05	23	2		
3	16QAM	15	0	22.06	22.25	22.25				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.80	23.84	23.88	25	0		
1.4	QPSK	1	3	23.89	24.02	24.12				
1.4	QPSK	1	5	23.50	23.85	23.85				
1.4	QPSK	3	0	23.89	23.90	23.85				
1.4	QPSK	3	1	24.08	24.01	24.00	24	1		
1.4	QPSK	3	3	24.01	23.97	23.83				
1.4	QPSK	6	0	23.05	23.07	23.19				
1.4	16QAM	1	0	23.16	23.11	23.07				
1.4	16QAM	1	3	23.05	23.11	23.08	24	1		
1.4	16QAM	1	5	23.09	23.11	23.01				
1.4	16QAM	3	0	23.01	23.08	23.07				
1.4	16QAM	3	1	23.05	23.04	23.05				
1.4	16QAM	3	3	23.08	23.02	22.84	23	2		
1.4	16QAM	6	0	23.09	23.12	23.15				

Band 12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq [MHz]	Power Middle Ch. Freq [MHz]	Power High Ch. Freq [MHz]	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	704	707.5	711	25	0		
10	QPSK	1	25	24.51	24.35	24.34				
10	QPSK	1	48	24.44	24.44	24.51				
10	QPSK	25	0	23.53	23.63	23.61				
10	QPSK	25	12	23.54	23.56	23.85	24	1		
10	QPSK	25	25	23.58	23.60	23.69				
10	QPSK	50	0	23.17	23.68	23.65				
10	16QAM	1	0	23.40	23.59	23.67				
10	16QAM	1	25	23.18	23.12	23.16	24	1		
10	16QAM	1	48	23.63	23.73	23.60				
10	16QAM	25	0	22.49	22.51	22.55				
10	16QAM	25	12	22.50	22.46	22.46				
10	16QAM	25	25	22.53	22.53	22.55	23	2		
10	16QAM	50	0	22.52	22.53	22.61				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.45	24.44	24.42	25	0		
5	QPSK	1	12	24.43	24.28	24.45				
5	QPSK	1	24	24.47	24.30	24.35				
5	QPSK	12	0	23.96	23.99	23.90				
5	QPSK	12	7	23.95	23.46	23.82	24	1		
5	QPSK	12	13	23.63	23.60	23.69				
5	QPSK	25	0	23.65	23.51	23.54				
5	16QAM	1	0	23.59	23.52	23.47				
5	16QAM	1	12	23.80	23.73	23.68	24	1		
5	16QAM	1	24	23.60	23.62	23.15				
5	16QAM	12	0	22.50	22.55	22.52				
5	16QAM	12	7	22.47	22.44	22.36				
5	16QAM	12	13	22.42	22.48	22.45	23	2		
5	16QAM	25	0	22.62	22.41	22.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.49	24.39	24.47	25	0		
3	QPSK	1	8	24.25	24.28	24.27				
3	QPSK	1	14	24.35	24.38	24.49				
3	QPSK	8	0	23.69	23.55	23.68				
3	QPSK	8	4	23.63	23.51	23.65	24	1		
3	QPSK	8	7	23.59	23.70	23.59				
3	QPSK	15	0	23.52	23.52	23.54				
3	16QAM	1	0	23.51	23.48	23.45				
3	16QAM	1	8	23.76	23.81	23.82	24	1		
3	16QAM	1	14	23.60	23.63	23.70				
3	16QAM	8	0	22.52	22.58	22.36				
3	16QAM	8	4	22.52	22.38	22.50				
3	16QAM	8	7	22.50	22.51	22.46	23	2		
3	16QAM	15	0	22.56	22.43	22.49				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.13	24.17	24.07	25	0		
1.4	QPSK	1	3	24.06	24.01	24.00				
1.4	QPSK	1	5	23.95	24.03	24.05				
1.4	QPSK	3	0	24.10	24.02	24.10				
1.4	QPSK	3	1	23.88	24.02	23.87	24	1		
1.4	QPSK	3	3	24.06	24.05	23.98				
1.4	QPSK	6	0	23.34	23.28	23.14				
1.4	16QAM	1	0	23.19	23.27	23.23				
1.4	16QAM	1	3	23.27	23.26	23.34	24	1		
1.4	16QAM	1	5	23.29	23.31	23.36				
1.4	16QAM	3	0	23.08	23.19	23.27				
1.4	16QAM	3	1	23.30	23.23	23.10				
1.4	16QAM	3	3	23.21	23.28	23.38	23	2		
1.4	16QAM	6	0	22.98	22.93	22.13				



Band 14

BW (MHz)	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)							793	
10	QPSK	1	0	24.25	24.17		25	0
10	QPSK	1	25	24.14				
10	QPSK	1	49	23.25				
10	QPSK	25	0	23.25	23.22		24	1
10	QPSK	25	12	23.25				
10	QPSK	25	25	23.22				
10	QPSK	50	0	23.27			24	1
10	16QAM	1	0	23.39				
10	16QAM	1	25	23.39				
10	16QAM	1	49	23.35			23	2
10	16QAM	25	0	22.24				
10	16QAM	25	12	22.26				
10	16QAM	25	25	22.17			23	2
10	16QAM	50	0	22.23				
Channel								
Frequency (MHz)							793.5	
5	QPSK	1	0	24.05	24.07	24.08	25	0
5	QPSK	1	12	24.19	24.23	24.25		
5	QPSK	1	24	23.99	24.08	24.01		
5	QPSK	12	0	23.14	23.19	23.21	24	1
5	QPSK	12	7	23.15	23.23	23.26		
5	QPSK	12	13	23.16	23.13	23.09		
5	QPSK	25	0	23.16	23.19	23.29	24	1
5	16QAM	1	0	23.23	23.31	23.27		
5	16QAM	1	12	23.45	23.50	23.52		
5	16QAM	1	24	23.28	23.34	23.33	23	2
5	16QAM	12	0	22.10	22.19	22.21		
5	16QAM	12	7	22.22	22.24	22.23		
5	16QAM	12	13	22.18	22.19	22.12	23	2
5	16QAM	25	0	22.17	22.21	22.17		

Band 30

BW (MHz)	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)							2310	
10	QPSK	1	0	21.49	21.45		22.5	0
10	QPSK	1	25	21.49				
10	QPSK	1	49	21.49				
10	QPSK	25	0	21.58	21.48		22.5	0
10	QPSK	25	12	21.39				
10	QPSK	25	25	21.48				
10	QPSK	50	0	21.52			22.5	0
10	16QAM	1	0	21.22				
10	16QAM	1	25	21.29				
10	16QAM	1	49	21.19			22.5	0
10	16QAM	25	0	21.16				
10	16QAM	25	12	21.22				
10	16QAM	25	25	21.20			22.5	0
10	16QAM	50	0	21.23				
Channel								
Frequency (MHz)							2310.5	
5	QPSK	1	0	21.24	21.25	21.23	22.5	0
5	QPSK	1	12	21.23	21.24	21.26		
5	QPSK	1	24	21.24	21.26	21.27		
5	QPSK	12	0	21.23	21.19	21.16	22.5	0
5	QPSK	12	7	21.04	21.12	21.07		
5	QPSK	12	13	21.13	21.08	21.11		
5	QPSK	25	0	21.08	21.10	21.12	22.5	0
5	16QAM	1	0	21.16	21.17	21.13		
5	16QAM	1	12	21.19	21.22	21.19		
5	16QAM	1	24	21.17	21.17	21.13	22.5	0
5	16QAM	12	0	21.14	21.08	21.11		
5	16QAM	12	7	21.14	21.12	21.19		
5	16QAM	12	13	21.18	21.18	21.12	22.5	0
5	16QAM	25	0	21.17	21.22	21.16		



Band 66

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 159292	Power Middle Ch. Freq. 159302	Power High Ch. Freq. 159312	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.28	20.42	20.56	21	0
20	QPSK	1	49	20.26	20.42	20.52		
20	QPSK	1	99	20.33	20.39	20.21		
20	QPSK	50	0	20.22	20.44	20.31	21	0
20	QPSK	50	24	20.19	20.41	20.23		
20	QPSK	50	50	20.21	20.38	20.27		
20	QPSK	100	0	20.19	20.30	20.28	21	0
20	16QAM	1	0	20.28	20.42	20.58		
20	16QAM	1	49	20.20	20.36	20.27		
20	16QAM	1	99	20.28	20.39	20.18	21	0
20	16QAM	50	0	20.23	20.38	20.28		
20	16QAM	50	24	20.16	20.38	20.19		
20	16QAM	50	50	20.14	20.35	20.24	21	0
20	16QAM	100	0	20.13	20.36	20.27		
20	16QAM	100	0	19.2415	19.2502	19.2587		
Channel								
Frequency (MHz)								
15	QPSK	1	0	19.29	19.46	19.26	21	0
15	QPSK	1	37	19.21	19.41	19.31		
15	QPSK	1	74	19.30	19.30	19.34		
15	QPSK	36	0	19.14	19.35	19.46	21	0
15	QPSK	36	39	19.15	19.37	19.14		
15	QPSK	36	39	19.18	19.30	19.23		
15	16QAM	1	0	19.24	19.34	19.28	21	0
15	16QAM	1	37	19.11	19.33	19.21		
15	16QAM	1	74	19.18	19.27	19.14		
15	16QAM	36	0	19.20	19.33	19.22	21	0
15	16QAM	36	20	19.05	19.34	19.14		
15	16QAM	36	39	19.04	19.12	19.27		
15	16QAM	75	0	19.04	19.28	19.19	21	0
15	16QAM	75	0	19.04	19.28	19.19		
15	16QAM	75	0	19.04	19.28	19.19		
Channel								
Frequency (MHz)								
10	QPSK	1	0	20.29	20.39	20.23	21	0
10	QPSK	1	25	20.22	20.36	20.27		
10	QPSK	1	49	20.30	20.36	20.17		
10	QPSK	25	0	20.13	20.41	20.22	21	0
10	QPSK	25	10	20.10	20.37	20.20		
10	QPSK	25	25	20.12	20.27	20.16		
10	QPSK	50	0	20.09	20.28	20.25	21	0
10	16QAM	1	0	20.19	20.30	20.24		
10	16QAM	1	25	20.19	20.29	20.17		
10	16QAM	1	49	20.19	20.23	20.17	21	0
10	16QAM	25	0	20.16	20.28	20.21		
10	16QAM	25	12	20.09	20.27	20.14		
10	16QAM	25	25	20.09	20.26	20.24	21	0
10	16QAM	50	0	20.09	20.32	20.21		
10	16QAM	50	0	20.09	20.32	20.21		
Channel								
Frequency (MHz)								
5	QPSK	1	0	20.28	20.39	20.30	21	0
5	QPSK	1	12	20.24	20.30	20.20		
5	QPSK	1	24	20.23	20.37	20.11		
5	QPSK	12	0	20.21	20.32	20.23	21	0
5	QPSK	12	7	20.18	20.37	20.21		
5	QPSK	12	13	20.16	20.26	20.20		
5	QPSK	25	0	20.14	20.34	20.21	21	0
5	16QAM	1	0	20.24	20.41	20.21		
5	16QAM	1	10	20.24	20.36	20.18		
5	16QAM	1	24	20.26	20.29	20.08	21	0
5	16QAM	12	0	20.12	20.37	20.18		
5	16QAM	12	7	20.08	20.27	20.13		
5	16QAM	12	13	20.10	20.32	20.13	21	0
5	16QAM	25	0	20.03	20.34	20.20		
5	16QAM	25	0	20.03	20.34	20.20		
Channel								
Frequency (MHz)								
3	QPSK	1	0	20.28	20.39	20.23	21	0
3	QPSK	1	8	20.23	20.30	20.29		
3	QPSK	1	14	20.21	20.28	20.19		
3	QPSK	8	0	20.13	20.32	20.20	21	0
3	QPSK	8	4	20.08	20.31	20.13		
3	QPSK	8	7	20.06	20.26	20.17		
3	QPSK	15	0	20.15	20.37	20.24	21	0
3	16QAM	1	0	20.20	20.30	20.26		
3	16QAM	1	8	20.11	20.27	20.24		
3	16QAM	1	14	20.19	20.23	20.06	21	0
3	16QAM	8	0	20.16	20.31	20.19		
3	16QAM	8	4	20.01	20.32	20.12		
3	16QAM	8	7	20.11	20.34	20.19	21	0
3	16QAM	15	0	20.12	20.30	20.18		
3	16QAM	15	0	20.12	20.30	20.18		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	20.28	20.39	20.23	21	0
1.4	QPSK	1	5	20.19	20.32	20.20		
1.4	QPSK	1	5	20.25	20.38	20.12		
1.4	QPSK	3	0	20.18	20.34	20.29	21	0
1.4	QPSK	3	1	20.11	20.35	20.18		
1.4	QPSK	3	3	20.20	20.30	20.24		
1.4	QPSK	6	0	20.12	20.28	20.25	21	0
1.4	16QAM	1	0	20.20	20.37	20.22		
1.4	16QAM	1	3	20.12	20.31	20.16		
1.4	16QAM	1	6	20.20	20.22	20.07	21	0
1.4	16QAM	3	0	20.19	20.36	20.24		
1.4	16QAM	3	1	20.10	20.28	20.16		
1.4	16QAM	3	3	20.10	20.33	20.17	21	0
1.4	16QAM	6	0	20.10	20.27	20.16		
1.4	16QAM	6	0	20.10	20.27	20.16		

Band 71

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 133292	Power Middle Ch. Freq. 133302	Power High Ch. Freq. 133312	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	24.28	24.43	24.58	25	0
20	QPSK	1	49	24.00	24.00	23.78		
20	QPSK	1	99	23.91	23.78	23.78		
20	QPSK	50	0	23.11	23.15	23.07	24	1
20	QPSK	50	24	23.04	23.13	22.85		
20	QPSK	50	50	22.81	22.88	22.79		
20	QPSK	100	0	23.00	23.09	22.74	24	1
20	16QAM	1	0	23.99	23.23	22.75		
20	16QAM	1	49	23.12	23.02	22.96		
20	16QAM	1	99	22.78	22.81	22.88	24	1
20	16QAM	50	0	22.14	21.84	21.77		
20	16QAM	50	24	22.13	21.73	21.73		
20	16QAM	50	50	21.80	21.72	21.78	23	2
20	16QAM	100	0	22.05	21.83	21.72		
20	16QAM	100	0	13.3107	13.3107	13.3107		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.84	23.98	24.05	25	0
15	QPSK	1	37	23.86	23.89	23.84		
15	QPSK	1	74	23.76	23.69	23.74		
15	QPSK	36	0	22.75	22.91	22.85	24	1
15	QPSK	36	39	22.84	22.79	22.77		
15	QPSK	36	39	22.87	22.84	22.83		
15	16QAM	1	0	23.07	23.19	23.16	24	1
15	16QAM	1	37	22.99	22.98	23.08		
15	16QAM	1	74	22.79	22.75	22.86		
15	16QAM	36	0	22.06	22.00	22.01	23	2
15	16QAM	36	20	22.14	22.15	22.10		
15	16QAM	36	39	21.86	21.71	21.78		
15	16QAM	75	0	22.07	22.11	22.07	23	2
15	16QAM	75	0	22.07	22.11	22.07		
15	16QAM	75	0	22.07	22.11	22.07		
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.28	24.30	24.31	25	0
10	QPSK	1	25	23.89	23.88	23.89		
10	QPSK	1	49	23.76	23.75	23.89		
10	QPSK	25	0	22.89	22.71	22.80	24	1
10	QPSK	25	10	23.01	23.06	23.15		
10	QPSK	25	25	22.89	22.83	22.91		
10	QPSK	50	0	22.88	23.07	22.93	24	1
10	16QAM	1	0	23.04	22.97	23.02		
10	16QAM	1	25	23.16	22.98	22.97		
10	16QAM	1	49	22.72	22.67	22.68	24	1
10	16QAM	25	0	22.05	22.18	22.19		
10	16QAM	25	12	22.05	22.19	22.17		
10	16QAM	25	25	22.11	21.73	21.73	23	2
10	16QAM	50	0	22.08	22.02	22.09		
10	16QAM	50	0	22.08	22.02	22.09		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.86	23.99	24.02	25	0
5	QPSK	1	12	23.94	23.83	23.98		
5	QPSK	1	24	23.86	23.73	23.73		
5	QPSK	12	0	22.74	22.72	22.84	24	1
5	QPSK	12	7	23.14	23.18	23.15		
5	QPSK	12	13	22.86	22.77	22.77		
5	QPSK	25	0	23.09	22.94	22.88	24	1
5	16QAM	1	0	23.12	22.99	23.00		
5	16QAM	1	10	23.12	22.99	23.00		
5	16QAM	1	24	22.88	22.76	22.77	24	1
5	16QAM	12	0	22.17	22.07	22.08		
5	16QAM	12	7	22.05	22.12	22.16		
5	16QAM	12	13	21.86	21.80	21.88	23	2
5	16QAM	25	0	22.10	22.11	21.86		
5	16QAM	25	0	22.10	22.11	21.86		



Conducted Power For WLAN/Bluetooth

<WLAN 2.4GHz>

2.4GHz WLAN						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	20.10	21.00
6			2437	20.80	21.00	
11			2462	20.60	21.00	
802.11g 6Mbps		1	2412	15.30	16.00	97.57
		2	2417	17.90	19.00	
		6	2437	18.40	19.00	
802.11n-HT20 MCS0		1	2412	14.20	15.00	97.39
		2	2417	17.10	18.00	
		6	2437	17.60	18.00	
802.11n-HT40 MCS0		3	2422	11.50	12.50	94.92
		6	2437	13.50	14.50	
		9	2452	11.60	12.50	

<BT BR/EDR>

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.20	4.60	4.60
	CH 39	2441	7.20	4.60	4.60
	CH 78	2480	7.10	4.50	4.40
Tune-up Limit			9	6	6

BT LE 1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	7.00
	CH 19	2440	7.10
	CH 39	2480	7.00
Tune-up Limit			9