



Full/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	32.23	32.28	32.31	33.50	23.23	23.28	23.31	24.50
GPRS 1 Tx slot	32.04	32.23	32.22	33.50	23.04	23.23	23.22	24.50
GPRS 2 Tx slots	31.33	31.57	31.51	32.50	25.33	25.57	25.51	26.50
GPRS 3 Tx slots	29.76	29.91	30.06	31.00	25.50	25.65	25.80	26.74
GPRS 4 Tx slots	28.63	28.82	28.74	30.00	25.63	25.82	25.74	27.00
EDGE 1 Tx slot	25.42	25.34	25.02	27.50	17.42	17.34	17.02	18.50
EDGE 2 Tx slots	25.01	24.96	24.71	26.00	19.01	18.96	18.71	20.00
EDGE 3 Tx slots	22.65	22.53	22.32	24.00	18.39	18.27	18.06	19.74
EDGE 4 Tx slots	21.37	21.24	21.11	22.50	18.37	18.24	18.11	19.50

Band TX Channel	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.39	23.47	23.22
3GPP Rel 99	RMC 12.2Kbps	23.44	23.51	23.36
3GPP Rel 6	HSDPA Subtest-1	22.36	22.65	22.27
3GPP Rel 6	HSDPA Subtest-2	22.60	22.61	22.42
3GPP Rel 6	HSDPA Subtest-3	21.94	22.24	22.03
3GPP Rel 6	HSDPA Subtest-4	21.79	22.23	21.96
3GPP Rel 8	DC-HSDPA Subtest-1	22.48	22.63	22.47
3GPP Rel 8	DC-HSDPA Subtest-2	22.24	22.52	22.40
3GPP Rel 8	DC-HSDPA Subtest-3	22.08	22.01	21.91
3GPP Rel 8	DC-HSDPA Subtest-4	21.92	22.09	22.10
3GPP Rel 6	HSUPA Subtest-1	22.29	22.54	22.41
3GPP Rel 6	HSUPA Subtest-2	20.45	20.52	20.41
3GPP Rel 6	HSUPA Subtest-3	21.52	21.62	21.56
3GPP Rel 6	HSUPA Subtest-4	20.45	20.68	20.59
3GPP Rel 6	HSUPA Subtest-5	22.62	22.72	22.57
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.09	19.95	20.13



Band 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.24	23.25	23.18			
10	QPSK	1	25	23.21	23.19	23.12			
10	QPSK	1	49	23.11	23.17	23.07	24	0	
10	QPSK	25	0	22.25	22.37	22.24			
10	QPSK	25	12	22.18	22.31	22.22			
10	QPSK	25	25	22.23	22.33	22.21			
10	QPSK	50	0	22.24	22.34	22.20			
10	16QAM	1	0	22.38	22.46	22.35			
10	16QAM	1	25	22.22	22.35	22.20			
10	16QAM	1	49	22.31	22.43	22.40	23	1	
10	16QAM	25	0	21.35	21.42	21.28			
10	16QAM	25	12	21.30	21.39	21.32			
10	16QAM	25	25	21.21	21.34	21.21			
10	16QAM	50	0	21.28	21.37	21.32			
10	64QAM	1	0	21.43	21.47	21.33			
10	64QAM	1	25	21.35	21.45	21.42			
10	64QAM	1	49	21.26	21.36	21.25			
10	64QAM	25	0	20.35	20.42	20.31			
10	64QAM	25	12	20.25	20.33	20.27			
10	64QAM	25	25	20.20	20.29	20.25			
10	64QAM	50	0	20.28	20.38	20.29	21	3	

Band 7									
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				20350	21100	21350			
Frequency (MHz)				2510	2535	2550			
20	QPSK	1	0	22.44	22.62	22.52			
20	QPSK	1	49	22.41	22.60	22.43			
20	QPSK	1	99	22.35	22.51	22.39	24	0	
20	QPSK	50	0	21.57	21.61	21.54			
20	QPSK	50	24	21.54	21.58	21.42			
20	QPSK	50	50	21.50	21.60	21.54			
20	QPSK	100	0	21.53	21.59	21.50			
20	16QAM	1	0	21.41	21.64	21.48			
20	16QAM	1	49	21.44	21.51	21.42			
20	16QAM	1	99	21.46	21.40	21.46	23	1	
20	16QAM	50	0	20.51	20.59	20.49			
20	16QAM	50	24	20.45	20.44	20.38			
20	16QAM	50	50	20.50	20.52	20.45			
20	16QAM	100	0	20.49	20.62	20.48			
20	64QAM	1	0	20.42	20.47	20.40			
20	64QAM	1	49	20.29	20.29	20.34			
20	64QAM	1	99	20.29	20.35	20.40			
20	64QAM	50	0	19.50	19.64	19.57			
20	64QAM	50	24	19.41	19.44	19.46			
20	64QAM	50	50	19.59	19.58	19.49			
20	64QAM	100	0	19.58	19.62	19.53	21	3	

Band 26									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26765	26895	26995			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	23.11	23.27	23.17			
15	QPSK	1	37	23.03	23.18	23.05			
15	QPSK	1	74	22.90	23.04	22.95	24	0	
15	QPSK	36	0	22.17	22.32	22.21			
15	QPSK	36	20	22.08	22.16	22.12			
15	QPSK	36	39	22.11	22.22	22.16			
15	QPSK	75	0	22.18	22.30	22.16			
15	16QAM	1	0	22.33	22.38	22.34			
15	16QAM	1	37	22.35	22.42	22.38			
15	16QAM	1	74	22.17	22.26	22.19	23	1	
15	16QAM	36	0	21.30	21.41	21.29			
15	16QAM	36	20	21.32	21.37	21.31			
15	16QAM	36	39	21.22	21.32	21.19			
15	16QAM	75	0	21.27	21.33	21.18			
15	64QAM	1	0	21.41	21.45	21.39			
15	64QAM	1	37	21.37	21.52	21.47			
15	64QAM	1	74	21.27	21.36	21.25			
15	64QAM	36	0	20.40	20.43	20.36			
15	64QAM	36	20	20.35	20.38	20.25			
15	64QAM	36	39	20.27	20.38	20.34			
15	64QAM	75	0	20.22	20.35	20.31	21	3	



Band 38									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.29	23.35	23.15	24	0	
20	QPSK	1	49	23.26	23.31	23.13			
20	QPSK	1	99	23.18	23.22	23.07			
20	QPSK	50	0	22.17	22.28	22.23			
20	QPSK	50	24	22.13	22.17	22.02	23	1	
20	QPSK	50	50	22.09	22.19	22.14			
20	QPSK	100	0	22.21	22.32	22.21			
20	16QAM	1	0	21.98	22.12	21.98	23	1	
20	16QAM	1	49	21.89	21.96	21.87			
20	16QAM	1	99	21.92	22.03	21.95			
20	16QAM	50	0	21.14	21.21	21.15			
20	16QAM	50	24	20.99	21.07	20.98	22	2	
20	16QAM	50	50	21.08	21.15	21.01			
20	16QAM	100	0	21.17	21.20	21.05			
20	64QAM	1	0	20.89	20.98	20.83	22	2	
20	64QAM	1	49	20.99	21.03	20.89			
20	64QAM	1	99	20.84	20.92	20.84			
20	64QAM	50	0	20.09	20.21	20.12			
20	64QAM	50	24	20.05	20.12	20.01	21	3	
20	64QAM	50	50	19.95	20.01	19.98			
20	64QAM	100	0	20.08	20.19	20.16			

Band 41										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.36	23.33	23.39	23.14	23.22	24	0
20	QPSK	1	49	23.20	23.21	23.27	23.12	23.14		
20	QPSK	1	99	23.17	23.14	23.19	23.14	23.11		
20	QPSK	50	0	22.01	22.05	22.13	22.07	22.02		
20	QPSK	50	24	21.99	22.03	22.12	22.06	22.03	23	1
20	QPSK	50	50	21.96	21.94	22.08	21.98	22.04		
20	QPSK	100	0	22.04	22.04	22.18	22.14	22.11		
20	16QAM	1	0	22.08	22.15	22.22	22.18	22.15	23	1
20	16QAM	1	49	22.24	22.22	22.28	22.24	22.18		
20	16QAM	1	99	22.06	22.08	22.16	22.08	22.06		
20	16QAM	50	0	21.08	21.07	21.19	21.08	21.07		
20	16QAM	50	24	21.04	21.06	21.12	21.07	21.14	22	2
20	16QAM	50	50	21.02	21.05	21.12	21.05	21.02		
20	16QAM	100	0	21.07	21.15	21.18	21.08	21.09		
20	64QAM	1	0	20.75	20.86	20.81	20.77	20.74	22	2
20	64QAM	1	49	20.89	20.79	20.97	20.85	20.89		
20	64QAM	1	99	20.83	20.85	20.88	20.83	20.79		
20	64QAM	50	0	20.02	20.06	20.14	20.06	20.10		
20	64QAM	50	24	20.12	20.03	20.15	20.10	20.10	21	3
20	64QAM	50	50	20.02	20.01	20.12	20.01	20.05		
20	64QAM	100	0	20.09	20.10	20.19	20.10	20.10		



Reduced Power for Body-Worn and Extremity

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	178	189	251		178	189	251	
TX Channel	824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50
Frequency (MHz)	32.23	32.28	32.31	33.50	23.23	23.28	23.31	24.50
GSM 1 Tx slot	32.04	32.23	32.22	33.50	23.04	23.23	23.22	24.50
GPRS 2 Tx slots	31.33	31.57	31.51	32.50	25.33	25.57	25.51	26.50
GPRS 3 Tx slots	29.76	29.91	30.06	31.00	25.50	25.65	25.80	26.74
GPRS 4 Tx slots	28.63	28.82	28.74	30.00	25.63	25.82	25.74	27.00
EDGE 1 Tx slot	26.42	26.34	26.02	27.50	17.42	17.34	17.02	18.50
EDGE 2 Tx slots	25.01	24.96	24.71	26.00	19.01	18.96	18.71	20.00
EDGE 3 Tx slots	22.65	22.53	22.32	24.00	18.39	18.27	18.06	19.74
EDGE 4 Tx slots	21.37	21.24	21.11	22.50	18.37	18.24	18.11	19.50

Band	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	4357	4407	4458	
Rx Channel	826.4	836.4	846.6	
Frequency (MHz)	23.39	23.47	23.22	24.00
3GPP Rel 99 AMR 12.2Kbps	23.44	23.51	23.36	24.00
3GPP Rel 99 RMC 12.2Kbps	22.36	22.65	22.27	23.00
3GPP Rel 6 HSDPA Subtest-1	22.60	22.61	22.42	23.00
3GPP Rel 6 HSDPA Subtest-2	21.94	22.24	22.03	22.50
3GPP Rel 6 HSDPA Subtest-3	21.79	22.23	21.96	22.50
3GPP Rel 6 HSDPA Subtest-4	22.48	22.63	22.47	23.00
3GPP Rel 8 DC-HSDPA Subtest-1	22.24	22.52	22.40	23.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.08	22.01	21.91	22.50
3GPP Rel 8 DC-HSDPA Subtest-3	21.92	22.09	22.10	22.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.29	22.54	22.41	23.00
3GPP Rel 6 HSUPA Subtest-1	20.45	20.52	20.41	21.00
3GPP Rel 6 HSUPA Subtest-2	21.52	21.62	21.56	22.00
3GPP Rel 6 HSUPA Subtest-3	20.45	20.68	20.59	21.00
3GPP Rel 6 HSUPA Subtest-4	22.62	22.72	22.57	23.00
3GPP Rel 6 HSUPA Subtest-5	20.09	19.95	20.13	20.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1				



Band 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Middle Ch./F.Freq.	Power High Ch./F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.24	23.25	23.18			
10	QPSK	1	25	23.21	23.19	23.12			
10	QPSK	1	49	23.11	23.17	23.07			
10	QPSK	25	0	22.25	22.37	22.24			
10	QPSK	25	12	22.18	22.31	22.22			
10	QPSK	25	25	22.07	22.34	22.21			
10	QPSK	50	0	22.24	22.34	22.20			
10	16QAM	1	0	22.38	22.46	22.35			
10	16QAM	1	25	22.22	22.35	22.20			
10	16QAM	1	49	22.31	22.43	22.40			
10	16QAM	25	0	21.35	21.42	21.28			
10	16QAM	25	12	21.30	21.39	21.32			
10	16QAM	25	25	20.50	20.39	20.00			
10	16QAM	50	0	21.28	21.37	21.32			
10	64QAM	1	0	21.43	21.47	21.33			
10	64QAM	1	25	21.35	21.45	21.42			
10	64QAM	1	49	21.26	21.36	21.25			
10	64QAM	25	0	20.35	20.42	20.31			
10	64QAM	25	12	20.25	20.33	20.27			
10	64QAM	25	25	20.20	20.29	20.25			
10	64QAM	50	0	20.28	20.38	20.29			
Channel									
Frequency (MHz)				20425	20525	20625			
5	QPSK	1	0	23.19	23.22	23.09			
5	QPSK	1	12	23.10	23.17	23.01			
5	QPSK	1	24	23.02	23.07	22.99			
5	QPSK	12	0	22.11	22.27	22.20			
5	QPSK	12	6	22.07	22.24	22.14			
5	QPSK	12	13	22.16	22.21	22.16			
5	QPSK	25	0	22.10	22.31	22.16			
5	16QAM	1	0	22.25	22.37	22.25			
5	16QAM	1	12	22.19	22.23	22.08			
5	16QAM	1	24	22.27	22.37	22.26			
5	16QAM	12	0	21.23	21.29	21.17			
5	16QAM	12	6	21.23	21.26	21.20			
5	16QAM	12	13	21.08	21.26	21.09			
5	16QAM	25	0	21.16	21.31	21.28			
5	64QAM	1	0	21.35	21.41	21.24			
5	64QAM	1	12	21.32	21.35	21.38			
5	64QAM	1	24	21.14	21.23	21.13			
5	64QAM	12	0	20.31	20.35	20.22			
5	64QAM	12	6	20.10	20.30	20.21			
5	64QAM	12	13	20.09	20.21	20.21			
5	64QAM	25	0	20.21	20.26	20.17			
Channel									
Frequency (MHz)				20415	20525	20635			
3	QPSK	1	0	23.09	23.20	23.13			
3	QPSK	1	8	23.07	23.19	23.08			
3	QPSK	1	14	23.02	23.03	22.98			
3	QPSK	8	0	22.10	22.24	22.12			
3	QPSK	8	4	22.08	22.17	22.16			
3	QPSK	8	7	22.12	22.19	22.07			
3	QPSK	15	0	22.17	22.27	22.09			
3	16QAM	1	0	22.31	22.40	22.31			
3	16QAM	1	8	22.11	22.27	22.06			
3	16QAM	1	14	22.20	22.30	22.28			
3	16QAM	8	0	21.29	21.36	21.17			
3	16QAM	8	4	21.28	21.29	21.28			
3	16QAM	8	7	21.17	21.28	21.08			
3	16QAM	15	0	21.18	21.30	21.19			
3	64QAM	1	0	21.30	21.39	21.25			
3	64QAM	1	8	21.31	21.33	21.31			
3	64QAM	1	14	21.14	21.31	21.21			
3	64QAM	8	0	20.23	20.31	20.24			
3	64QAM	8	4	20.16	20.19	20.23			
3	64QAM	8	7	20.12	20.19	20.15			
3	64QAM	15	0	20.15	20.30	20.23			
Channel									
Frequency (MHz)				20407	20525	20643			
1.4	QPSK	1	0	23.15	23.18	23.14			
1.4	QPSK	1	3	23.16	23.14	23.01			
1.4	QPSK	1	5	23.02	23.19	23.01			
1.4	QPSK	3	0	22.19	22.31	22.13			
1.4	QPSK	3	1	22.11	22.16	22.19			
1.4	QPSK	3	3	22.11	22.24	22.14			
1.4	QPSK	6	0	22.13	22.26	22.11			
1.4	16QAM	1	0	22.34	22.41	22.24			
1.4	16QAM	1	3	22.15	22.23	22.06			
1.4	16QAM	1	5	22.22	22.30	22.31			
1.4	16QAM	3	0	21.22	21.28	21.16			
1.4	16QAM	3	1	21.24	21.26	21.28			
1.4	16QAM	3	3	21.06	21.26	21.12			
1.4	16QAM	6	0	21.18	21.28	21.23			
1.4	64QAM	1	0	21.30	21.32	21.20			
1.4	64QAM	1	3	21.32	21.35	21.28			
1.4	64QAM	1	5	21.12	21.23	21.21			
1.4	64QAM	3	0	20.29	20.36	20.16			
1.4	64QAM	3	1	20.10	20.22	20.12			
1.4	64QAM	3	3	20.10	20.24	20.18			
1.4	64QAM	6	0	20.24	20.28	20.22			

Band 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Middle Ch./F.Freq.	Power High Ch./F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2510	2535	2550			
20	QPSK	1	0	13.41	13.48	13.36			
20	QPSK	1	49	13.26	13.35	13.27			
20	QPSK	1	99	13.34	13.36	13.28			
20	QPSK	50	0	13.30	13.40	13.30			
20	QPSK	50	24	13.25	13.33	13.20			
20	QPSK	50	50	13.23	13.33	13.34			
20	QPSK	100	0	13.27	13.39	13.32			
20	16QAM	1	0	13.30	13.42	13.31			
20	16QAM	1	49	13.26	13.32	13.25			
20	16QAM	1	99	13.34	13.36	13.24			
20	16QAM	50	0	13.37	13.40	13.29			
20	16QAM	50	24	13.26	13.33	13.16			
20	16QAM	50	50	13.29	13.31	13.14			
20	16QAM	100	0	13.28	13.42	13.33			
20	64QAM	1	0	13.35	13.38	13.28			
20	64QAM	1	49	13.31	13.42	13.37			
20	64QAM	1	99	13.31	13.39	13.30			
20	64QAM	50	0	13.40	13.42	13.32			
20	64QAM	50	24	13.35	13.36	13.20			
20	64QAM	50	50	13.29	13.31	13.14			
20	64QAM	100	0	13.20	13.33	13.24			
Channel									
Frequency (MHz)				20925	21100	21375			
15	QPSK	1	0	13.31	13.42	13.26			
15	QPSK	1	37	13.22	13.23	13.19			
15	QPSK	1	74	13.30	13.25	13.19			
15	QPSK	36	0	13.21	13.27	13.27			
15	QPSK	36	20	13.12	13.23	13.14			
15	QPSK	36	39	13.27	13.24	13.29			
15	QPSK	75	0	13.14	13.24	13.21			
15	16QAM	1	0	13.23	13.39	13.26			
15	16QAM	1	37	13.16	13.24	13.13			
15	16QAM	1	74	13.29	13.23	13.10			
15	16QAM	36	0	13.25	13.35	13.22			
15	16QAM	36	20	13.22	13.33	13.14			
15	16QAM	36	39	13.09	13.23	13.09			
15	16QAM	75	0	13.22	13.32	13.18			
15	64QAM	1	0	13.28	13.25	13.20			
15	64QAM	1	37	13.28	13.37	13.29			
15	64QAM	1	74	13.23	13.27	13.25			
15	64QAM	36	0	13.34	13.32	13.17			
15	64QAM	36	20	13.22	13.33	13.17			
15	64QAM	36	39	13.15	13.21	13.09			
15	64QAM	75	0	13.12	13.28	13.15			
Channel									
Frequency (MHz)				20800	21100	21400			
10	QPSK	1	0	13.30	13.42	13.30			
10	QPSK	1	25	13.13	13.29	13.12			
10	QPSK	1	49	13.26	13.23	13.24			
10	QPSK	25	0	13.19	13.28	13.25			
10	QPSK	25	12	13.19	13.23	13.			



Band 38										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	16.60	16.61	16.57	17	0		
20	QPSK	1	49	16.42	16.49	16.37				
20	QPSK	1	99	16.53	16.58	16.43				
20	QPSK	50	0	16.54	16.59	16.53				
20	QPSK	50	24	16.52	16.53	16.42	17	0		
20	QPSK	50	50	16.49	16.51	16.46				
20	QPSK	100	0	16.43	16.54	16.40				
20	16QAM	1	0	16.53	16.60	16.50	17	0		
20	16QAM	1	49	16.44	16.52	16.45				
20	16QAM	1	99	16.47	16.54	16.48				
20	16QAM	50	0	16.41	16.52	16.47				
20	16QAM	50	24	16.46	16.52	16.43	17	0		
20	16QAM	50	50	16.53	16.57	16.49				
20	16QAM	100	0	16.49	16.54	16.39				
20	64QAM	1	0	16.48	16.37	16.45	17	0		
20	64QAM	1	49	16.41	16.52	16.40				
20	64QAM	1	99	16.45	16.57	16.44				
20	64QAM	50	0	16.40	16.49	16.42				
20	64QAM	50	24	16.44	16.51	16.41	17	0		
20	64QAM	50	50	16.38	16.50	16.43				
20	64QAM	100	0	16.41	16.32	16.38				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	16.52	16.58	16.47	17	0		
15	QPSK	1	37	16.29	16.41	16.23				
15	QPSK	1	74	16.43	16.48	16.28				
15	QPSK	38	0	16.46	16.39	16.41	17	0		
15	QPSK	38	20	16.43	16.39	16.37				
15	QPSK	38	39	16.39	16.51	16.38				
15	QPSK	75	0	16.40	16.47	16.35				
15	16QAM	1	0	16.45	16.49	16.44	17	0		
15	16QAM	1	37	16.37	16.42	16.40				
15	16QAM	1	74	16.34	16.47	16.38				
15	16QAM	38	0	16.32	16.44	16.40	17	0		
15	16QAM	38	20	16.32	16.45	16.36				
15	16QAM	38	39	16.43	16.50	16.40				
15	16QAM	75	0	16.43	16.45	16.25				
15	64QAM	1	0	16.36	16.45	16.32	17	0		
15	64QAM	1	37	16.31	16.40	16.36				
15	64QAM	1	74	16.41	16.43	16.33				
15	64QAM	38	0	16.28	16.45	16.34	17	0		
15	64QAM	38	20	16.37	16.39	16.32				
15	64QAM	38	39	16.24	16.37	16.38				
15	64QAM	75	0	16.31	16.38	16.30				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572	2595	2615				
10	QPSK	1	0	16.53	16.53	16.43	17	0		
10	QPSK	1	25	16.32	16.44	16.25				
10	QPSK	1	49	16.49	16.48	16.33				
10	QPSK	25	0	16.40	16.52	16.42	17	0		
10	QPSK	25	12	16.42	16.44	16.37				
10	QPSK	25	25	16.39	16.47	16.38				
10	QPSK	50	0	16.31	16.48	16.33	17	0		
10	16QAM	1	0	16.40	16.45	16.36	17	0		
10	16QAM	1	25	16.40	16.47	16.37				
10	16QAM	1	49	16.40	16.44	16.34				
10	16QAM	25	0	16.28	16.43	16.34	17	0		
10	16QAM	25	12	16.36	16.38	16.32				
10	16QAM	25	25	16.49	16.48	16.43				
10	16QAM	50	0	16.44	16.43	16.27	17	0		
10	64QAM	1	0	16.41	16.44	16.38	17	0		
10	64QAM	1	25	16.30	16.37	16.28				
10	64QAM	1	49	16.37	16.46	16.33				
10	64QAM	25	0	16.28	16.44	16.36	17	0		
10	64QAM	25	12	16.41	16.42	16.32				
10	64QAM	25	25	16.24	16.42	16.40				
10	64QAM	50	0	16.33	16.47	16.28				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	16.51	16.55	16.47	17	0		
5	QPSK	1	12	16.30	16.42	16.23				
5	QPSK	1	24	16.45	16.47	16.31				
5	QPSK	12	0	16.43	16.56	16.42	17	0		
5	QPSK	12	7	16.35	16.45	16.36				
5	QPSK	12	13	16.41	16.46	16.31				
5	QPSK	25	0	16.31	16.47	16.36	17	0		
5	16QAM	1	0	16.46	16.46	16.42	17	0		
5	16QAM	1	12	16.34	16.47	16.34				
5	16QAM	1	24	16.37	16.41	16.45				
5	16QAM	12	0	16.37	16.40	16.38	17	0		
5	16QAM	12	7	16.32	16.48	16.34				
5	16QAM	12	13	16.48	16.43	16.39				
5	16QAM	25	0	16.39	16.45	16.32	17	0		
5	64QAM	1	0	16.38	16.53	16.31				
5	64QAM	1	12	16.34	16.48	16.29	17	0		
5	64QAM	1	24	16.37	16.47	16.40				
5	64QAM	12	0	16.30	16.42	16.38	17	0		
5	64QAM	12	7	16.40	16.46	16.29				
5	64QAM	12	13	16.27	16.44	16.34				
5	64QAM	25	0	16.26	16.46	16.23				

Band 41											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	16.57	16.64	16.67	16.58	16.52	17	0	
20	QPSK	1	49	16.42	16.50	16.53	16.49	16.42			
20	QPSK	1	99	16.56	16.54	16.60	16.58	16.53			
20	QPSK	50	0	16.57	16.59	16.53	16.50	16.58	17	0	
20	QPSK	50	24	16.44	16.41	16.50	16.46	16.41			
20	QPSK	50	50	16.50	16.51	16.59	16.53	16.51			
20	QPSK	100	0	16.45	16.54	16.58	16.43	16.49	17	0	
20	16QAM	1	0	16.48	16.49	16.62	16.51	16.54	17	0	
20	16QAM	1	49	16.56	16.53	16.60	16.46	16.52			
20	16QAM	1	99	16.47	16.52	16.57	16.44	16.53			
20	16QAM	50	0	16.53	16.43	16.57	16.51	16.49	17	0	
20	16QAM	50	24	16.47	16.52	16.58	16.49	16.53			
20	16QAM	50	50	16.46	16.55	16.60	16.47	16.47			
20	16QAM	100	0	16.44	16.40	16.50	16.38	16.41	17	0	
20	64QAM	1	0	16.48	16.44	16.59	16.46	16.55	17	0	
20	64QAM	1	49	16.37	16.43	16.50	16.43	16.40			
20	64QAM	1	99	16.49	16.55	16.60	16.51	16.55			
20	64QAM	50	0	16.57	16.52	16.60	16.52	16.47	17	0	
20	64QAM	50	24	16.44	16.49	16.53	16.40	16.45			
20	64QAM	50	50	16.45	16.42	16.57	16.44	16.51			
20	64QAM	100	0	16.49	16.53	16.61	16.37	16.56	17	0	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	16.50	16.53	16.57	16.43	16.43	17.00	0	
15	QPSK	1	37	16.38	16.44	16.42	16.45	16.33			
15	QPSK	1	74	16.49	16.42	16.56	16.52	16.48			
15	QPSK	38	0	16.51	16.53	16.36	16.46	16.52	17	0	
15	QPSK	38	20	16.37	16.59	16.39	16.38	16.31			
15	QPSK	38	39	16.39	16.47	16.53	16.49	16.40			
15	QPSK	75	0	16.42	16.40	16.49	16.36	16.40			
15	16QAM	1	0	16.38	16.43	16.53	16.47	16.48	17	0	
15	16QAM	1	3								



Reduced Power for Hotspot

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	32.23	32.28	32.31	33.50	23.23	23.28	23.31	24.50
GPRS 1 Tx slot	32.04	32.23	32.22	33.50	23.04	23.23	23.22	24.50
GPRS 2 Tx slots	31.33	31.57	31.51	32.50	25.33	25.57	25.51	26.50
GPRS 3 Tx slots	29.76	29.91	30.06	31.00	25.50	25.65	25.80	26.74
GPRS 4 Tx slots	28.63	28.82	28.74	30.00	25.63	25.82	25.74	27.00
EDGE 1 Tx slot	26.42	26.34	26.02	27.50	17.42	17.34	17.02	18.50
EDGE 2 Tx slots	25.01	24.98	24.71	26.00	19.01	18.96	18.71	20.00
EDGE 3 Tx slots	22.65	22.53	22.32	24.00	18.39	18.27	18.06	19.74
EDGE 4 Tx slots	21.37	21.24	21.11	22.50	18.37	18.24	18.11	19.50

Band TX Channel	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	825.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	23.39	23.47	23.22	24.00
3GPP Rel 99 RMC 12.2Kbps	23.44	23.51	23.36	24.00
3GPP Rel 6 HSDPA Subtest-1	22.36	22.65	22.27	23.00
3GPP Rel 6 HSDPA Subtest-2	22.60	22.61	22.42	23.00
3GPP Rel 6 HSDPA Subtest-3	21.94	22.24	22.03	22.50
3GPP Rel 6 HSDPA Subtest-4	21.79	22.23	21.96	22.50
3GPP Rel 8 DC-HSDPA Subtest-1	22.48	22.63	22.47	23.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.24	22.52	22.40	23.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.08	22.01	21.91	22.50
3GPP Rel 8 DC-HSDPA Subtest-4	21.92	22.09	22.10	22.50
3GPP Rel 6 HSUPA Subtest-1	22.29	22.54	22.41	23.00
3GPP Rel 6 HSUPA Subtest-2	20.45	20.52	20.41	21.00
3GPP Rel 6 HSUPA Subtest-3	21.52	21.62	21.56	22.00
3GPP Rel 6 HSUPA Subtest-4	20.45	20.68	20.59	21.00
3GPP Rel 6 HSUPA Subtest-5	22.62	22.72	22.57	23.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.09	19.95	20.13	20.50



Band 5									
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)				829	836.5	844			
10	QPSK	1	0	23.24	23.25	23.18			
10	QPSK	1	25	23.21	23.19	23.12			
10	QPSK	1	49	23.11	23.17	23.07			
10	QPSK	25	0	22.25	22.37	22.24			
10	QPSK	25	12	22.18	22.31	22.22			23
10	QPSK	25	25	22.07	22.34	22.21			
10	QPSK	50	0	22.24	22.34	22.20			
10	16QAM	1	0	22.38	22.46	22.35			
10	16QAM	1	25	22.22	22.35	22.20			23
10	16QAM	1	49	22.31	22.43	22.40			
10	16QAM	25	0	21.35	21.42	21.28			
10	16QAM	25	12	21.30	21.39	21.32			22
10	16QAM	25	25	20.50	20.29	20.00			
10	16QAM	50	0	21.28	21.37	21.32			
10	64QAM	1	0	21.43	21.47	21.33			
10	64QAM	1	25	21.35	21.45	21.42			22
10	64QAM	1	49	21.26	21.36	21.25			
10	64QAM	25	0	20.35	20.42	20.31			
10	64QAM	25	12	20.25	20.33	20.27			21
10	64QAM	25	25	20.20	20.29	20.25			
10	64QAM	50	0	20.28	20.38	20.29			
Channel									
Frequency (MHz)				20425	20525	20625			
5	QPSK	1	0	23.19	23.22	23.09			
5	QPSK	1	12	23.10	23.17	23.01			24
5	QPSK	1	24	23.02	23.07	22.99			
5	QPSK	12	0	22.11	22.27	22.20			23
5	QPSK	12	13	22.07	22.24	22.14			
5	QPSK	12	25	22.16	22.21	22.11			
5	QPSK	25	0	22.10	22.31	22.16			
5	16QAM	1	0	22.25	22.37	22.25			
5	16QAM	1	12	22.19	22.23	22.08			23
5	16QAM	1	24	22.27	22.37	22.26			
5	16QAM	12	0	21.23	21.29	21.17			
5	16QAM	12	7	21.23	21.26	21.20			22
5	16QAM	12	13	21.08	21.26	21.09			
5	16QAM	25	0	21.16	21.31	21.28			
5	64QAM	1	0	21.35	21.41	21.24			
5	64QAM	1	12	21.32	21.35	21.38			22
5	64QAM	1	24	21.14	21.23	21.13			
5	64QAM	12	0	20.31	20.35	20.22			
5	64QAM	12	7	20.10	20.30	20.21			21
5	64QAM	12	13	20.09	20.21	20.21			
5	64QAM	25	0	20.21	20.26	20.17			
Channel									
Frequency (MHz)				20415	20525	20635			
3	QPSK	1	0	23.09	23.20	23.13			
3	QPSK	1	8	23.07	23.19	23.08			24
3	QPSK	1	14	23.02	23.03	22.98			
3	QPSK	8	0	22.10	22.24	22.12			23
3	QPSK	8	4	22.08	22.17	22.16			
3	QPSK	8	7	22.12	22.19	22.07			
3	QPSK	15	0	22.17	22.27	22.09			
3	16QAM	1	0	22.31	22.40	22.31			
3	16QAM	1	8	22.11	22.27	22.06			23
3	16QAM	1	14	22.20	22.30	22.28			
3	16QAM	8	0	21.29	21.36	21.17			
3	16QAM	8	4	21.28	21.29	21.28			22
3	16QAM	8	7	21.17	21.28	21.08			
3	16QAM	15	0	21.18	21.30	21.19			
3	64QAM	1	0	21.30	21.39	21.25			
3	64QAM	1	8	21.31	21.33	21.31			22
3	64QAM	1	14	21.14	21.31	21.21			
3	64QAM	8	0	20.23	20.31	20.24			21
3	64QAM	8	4	20.16	20.19	20.23			
3	64QAM	8	7	20.12	20.19	20.15			
3	64QAM	15	0	20.15	20.30	20.23			
Channel									
Frequency (MHz)				20407	20525	20643			
1.4	QPSK	1	0	23.15	23.18	23.14			
1.4	QPSK	1	3	23.16	23.14	23.01			24
1.4	QPSK	1	5	23.02	23.19	23.01			
1.4	QPSK	3	0	22.19	22.31	22.13			
1.4	QPSK	3	1	22.11	22.16	22.19			
1.4	QPSK	3	3	22.11	22.24	22.14			23
1.4	QPSK	6	0	22.13	22.26	22.11			
1.4	16QAM	1	0	22.34	22.41	22.24			
1.4	16QAM	1	3	22.15	22.23	22.06			23
1.4	16QAM	1	5	22.22	22.30	22.31			
1.4	16QAM	3	0	21.22	21.28	21.16			
1.4	16QAM	3	1	21.24	21.26	21.28			22
1.4	16QAM	3	3	21.06	21.26	21.12			
1.4	16QAM	6	0	21.18	21.28	21.23			
1.4	64QAM	1	0	21.30	21.32	21.20			
1.4	64QAM	1	3	21.32	21.35	21.28			22
1.4	64QAM	1	5	21.12	21.23	21.21			
1.4	64QAM	3	0	20.29	20.36	20.16			21
1.4	64QAM	3	1	20.10	20.22	20.12			
1.4	64QAM	3	3	20.10	20.24	20.18			
1.4	64QAM	6	0	20.24	20.28	20.22			21

Band 7									
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)				2510	2535	2560			
20	QPSK	1	0	12.37	12.41	12.30			
20	QPSK	1	49	12.20	12.32	12.28			14
20	QPSK	1	99	12.30	12.35	12.26			
20	QPSK	50	0	12.25	12.38	12.32			
20	QPSK	50	24	12.26	12.39	12.29			14
20	QPSK	50	50	12.22	12.35	12.28			
20	QPSK	100	0	12.25	12.33	12.24			
20	16QAM	1	0	12.22	12.36	12.33			
20	16QAM	1	49	12.34	12.39	12.24			14
20	16QAM	1	99	12.26	12.38	12.30			
20	16QAM	50	0	12.26	12.37	12.29			
20	16QAM	50	24	12.19	12.34	12.30			14
20	16QAM	50	50	12.16	12.30	12.18			
20	16QAM	100	0	12.25	12.31	12.18			
20	64QAM	1	0	12.27	12.34	12.25			
20	64QAM	1	49	12.22	12.33	12.28			14
20	64QAM	1	99	12.31	12.36	12.26			
20	64QAM	50	0	12.21	12.34	12.23			
20	64QAM	50	24	12.17	12.32	12.18			14
20	64QAM	50	50	12.22	12.30	12.22			
20	64QAM	100	0	12.27	12.28	12.14			
Channel									
Frequency (MHz)				20825	21100	21375			
15	QPSK	1	0	12.27	12.32	12.24			
15	QPSK	1	37	12.17	12.19	12.14			14
15	QPSK	1	74	12.19	12.29	12.13			
15	QPSK	36	0	12.18	12.30	12.29			14
15	QPSK	36	20	12.15	12.15	12.17			
15	QPSK	36	39	12.14	12.31	12.17			
15	QPSK	75	0	12.22	12.28	12.16			
15	16QAM	1	0	12.17	12.28	12.25			
15	16QAM	1	37	12.20	12.31	12.18			14
15	16QAM	1	74	12.19	12.30	12.20			
15	16QAM	36	0	12.16	12.24	12.18			
15	16QAM	36	20	12.15	12.22	12.20			14
15	16QAM	36	39	12.11	12.21	12.11			
15	16QAM	75	0	12.14	12.27	12.04			
15	64QAM	1	0	12.19	12.21	12.17			
15	64QAM	1	37	12.14	12.21	12.20			14
15	64QAM	1	74	12.17	12.31	12.17			
15	64QAM	36	0	12.14	12.26	12.17			
15	64QAM	36	20	12.13	12.24	12.12			14
15	64QAM	36	39	12.18	12.18	12.11			
15	64QAM	75	0	12.13	12.17	12.05			
Channel									
Frequency (MHz)				20800	21100	21400			
10	QPSK	1	0	12.32	12.30	12.17			
10	QPSK	1	25	12.06	12.22	12.13			14
10	QPSK	1	49	12.25	12.29	12.20			
10	QPSK	25	0	1					



Band 38										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	15.54	15.64	15.58	16	0		
20	QPSK	1	49	15.53	15.62	15.51				
20	QPSK	1	99	15.43	15.55	15.42				
20	QPSK	50	0	15.51	15.61	15.50				
20	QPSK	50	24	15.55	15.59	15.55				
20	QPSK	50	50	15.42	15.53	15.44				
20	QPSK	100	0	15.51	15.57	15.43				
20	16QAM	1	0	15.59	15.62	15.55				
20	16QAM	1	49	15.50	15.55	15.47				
20	16QAM	1	99	15.53	15.58	15.53				
20	16QAM	50	0	15.52	15.56	15.47				
20	16QAM	50	24	15.55	15.63	15.59				
20	16QAM	50	50	15.45	15.59	15.48				
20	16QAM	100	0	15.43	15.55	15.47				
20	64QAM	1	0	15.52	15.60	15.53				
20	64QAM	1	49	15.51	15.59	15.45				
20	64QAM	1	99	15.38	15.47	15.35				
20	64QAM	50	0	15.49	15.61	15.48				
20	64QAM	50	24	15.54	15.57	15.42				
20	64QAM	50	50	15.46	15.55	15.50				
20	64QAM	100	0	15.51	15.59	15.45				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2977.5	2995	2912.5				
15	QPSK	1	0	15.40	15.53	15.50	16	0		
15	QPSK	1	37	15.40	15.50	15.43				
15	QPSK	1	74	15.30	15.40	15.35				
15	QPSK	36	0	15.47	15.48	15.45				
15	QPSK	36	20	15.51	15.46	15.44				
15	QPSK	36	39	15.28	15.47	15.35				
15	QPSK	75	0	15.38	15.53	15.35				
15	16QAM	1	0	15.55	15.52	15.48				
15	16QAM	1	37	15.41	15.50	15.41				
15	16QAM	1	74	15.50	15.49	15.38				
15	16QAM	36	0	15.44	15.50	15.42				
15	16QAM	36	20	15.41	15.50	15.51				
15	16QAM	36	39	15.32	15.47	15.45				
15	16QAM	75	0	15.39	15.41	15.37				
15	64QAM	1	0	15.42	15.51	15.50				
15	64QAM	1	37	15.37	15.49	15.37				
15	64QAM	1	74	15.30	15.44	15.31				
15	64QAM	36	0	15.35	15.47	15.34				
15	64QAM	36	20	15.50	15.44	15.31				
15	64QAM	36	39	15.40	15.48	15.42				
15	64QAM	75	0	15.38	15.47	15.41				
Channel				37850	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572	2595	2615				
10	QPSK	1	0	15.47	15.53	15.49	16	0		
10	QPSK	1	25	15.50	15.49	15.44				
10	QPSK	1	49	15.38	15.52	15.29				
10	QPSK	25	0	15.36	15.51	15.45				
10	QPSK	25	12	15.45	15.51	15.43				
10	QPSK	25	25	15.39	15.39	15.34				
10	QPSK	50	0	15.37	15.43	15.29				
10	16QAM	1	0	15.48	15.48	15.42				
10	16QAM	1	25	15.38	15.52	15.33				
10	16QAM	1	49	15.43	15.55	15.48				
10	16QAM	25	0	15.39	15.53	15.40				
10	16QAM	25	12	15.44	15.48	15.49				
10	16QAM	25	25	15.39	15.54	15.44				
10	16QAM	50	0	15.39	15.46	15.40				
10	64QAM	1	0	15.48	15.56	15.49				
10	64QAM	1	25	15.45	15.51	15.35				
10	64QAM	1	49	15.23	15.37	15.26				
10	64QAM	25	0	15.41	15.47	15.37				
10	64QAM	25	12	15.46	15.54	15.33				
10	64QAM	25	25	15.39	15.41	15.39				
10	64QAM	50	0	15.37	15.52	15.35				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	15.47	15.52	15.49	16	0		
5	QPSK	1	12	15.42	15.50	15.44				
5	QPSK	1	24	15.30	15.44	15.29				
5	QPSK	12	0	15.44	15.50	15.44				
5	QPSK	12	7	15.49	15.49	15.49				
5	QPSK	12	13	15.34	15.48	15.33				
5	QPSK	25	0	15.42	15.43	15.37				
5	16QAM	1	0	15.53	15.53	15.46				
5	16QAM	1	12	15.36	15.41	15.32				
5	16QAM	1	24	15.39	15.54	15.40				
5	16QAM	12	0	15.44	15.43	15.41				
5	16QAM	12	7	15.50	15.56	15.46				
5	16QAM	12	13	15.37	15.55	15.44				
5	16QAM	25	0	15.33	15.43	15.37				
5	64QAM	1	0	15.39	15.45	15.42				
5	64QAM	1	12	15.44	15.52	15.39				
5	64QAM	1	24	15.31	15.34	15.26				
5	64QAM	12	0	15.38	15.58	15.36				
5	64QAM	12	7	15.42	15.54	15.35				
5	64QAM	12	13	15.32	15.47	15.35				
5	64QAM	25	0	15.45	15.46	15.36				

Band 41										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.62	15.59	15.69	15.65	15.57	16	0
20	QPSK	1	49	15.54	15.50	15.62	15.49	15.49		
20	QPSK	1	99	15.50	15.49	15.60	15.51	15.53		
20	QPSK	50	0	15.53	15.60	15.66	15.53	15.63		
20	QPSK	50	24	15.48	15.52	15.61	15.46	15.50		
20	QPSK	50	50	15.53	15.56	15.64	15.52	15.59		
20	QPSK	100	0	15.51	15.52	15.59	15.50	15.49		
20	16QAM	1	0	15.54	15.63	15.67	15.58	15.59		
20	16QAM	1	49	15.48	15.53	15.58	15.44	15.54		
20	16QAM	1	99	15.55	15.51	15.61	15.56	15.48		
20	16QAM	50	0	15.44	15.54	15.58	15.44	15.44		
20	16QAM	50	24	15.57	15.65	15.69	15.62	15.66		
20	16QAM	50	50	15.63	15.51	15.66	15.52	15.53		
20	16QAM	100	0	15.48	15.47	15.59	15.45	15.48		
20	64QAM	1	0	15.59	15.60	15.68	15.57	15.54		
20	64QAM	1	49	15.55	15.51	15.65	15.51	15.61		
20	64QAM	1	99	15.49	15.43	15.57	15.45	15.45		
20	64QAM	50	0	15.56	15.55	15.67	15.55	15.56		
20	64QAM	50	24	15.54	15.47	15.57	15.49	15.48		
20	64QAM	50	50	15.51	15.47	15.62	15.50	15.57		
20	64QAM	100	0	15.52	15.54	15.60	15.46	15.50		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	15.47	15.50	15.58	15.55	15.44	16.00	0
15	QPSK	1	37	15.49	15.40	15.55	15.40	15.35		
15	QPSK	1	74	15.42	15.36	15.51	15.39	15.48		
15	QPSK	36	0	15.49	15.46	15.55	15.45	15.59		
15	QPSK	36	20	15.38	15.40	15.47	15.42	15.37		
15	QPSK	36	39	15.50	15.45	15.59	15.44	15.56		
15	QPSK	75	0	15.38	15.38	15.49	15.35	15.42		
15	16QAM	1	0	15.44	15.52	15.63	15.46	15.51		
15	16QAM	1	37	15.41	15.49	15.45	15.33	15.43		
15	16QAM	1	74	15.41	15.43	15.52	15.48	15.35		
15	16QAM	36	0	15.49	15.46	15.53	15.37	15.36		
15	16QAM	36	20	15.44	15.50	15.63				



WLAN/Bluetooth Power

						Full Power For Head SAR For Body-worn SAR For Extremity SAR For Hotspot SAR
2.4GHz WLAN	Mode	Channel	Frequency (Mhz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	17.84	19.50
6			2437	17.76	19.50	
11			2462	18.02	19.50	
802.11g 6Mbps		1	2412	15.78	17.50	96.98
		6	2437	17.14	18.50	
		11	2462	16.36	18.00	
802.11n-HT20 MCS0		1	2412	14.59	16.50	96.76
		6	2437	16.67	18.50	
		11	2462	15.10	17.00	
802.11n-HT40 MCS0		3	2422	12.70	14.50	93.74
		6	2437	16.04	17.50	
		9	2452	13.44	15.00	

						Full Power		For Head SAR		For Body-worn SAR For Extremity SAR For Hotspot SAR	
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps		36	5180	14.45	16.00	Not Required	16.00	Not Required	16.00	96.97
40			5200	17.95	19.50						
44			5220	17.72	19.50						
48			5240	17.70	19.50						
802.11n-HT20 MCS0		36	5180	14.67	16.50	Not Required	16.50	Not Required	16.00	96.77	
		40	5200	17.30	19.00						
		44	5220	17.11	19.00						
802.11n-HT40 MCS0		48	5240	17.06	19.00	Not Required	18.50	10.13	12.00	93.73	
		38	5190	10.13	12.00						
		46	5230	16.01	17.50						
802.11ac-VHT20 MCS0		36	5180	14.69	16.50	Not Required	16.50	Not Required	16.00	96.79	
		40	5200	17.35	19.00						
		44	5220	17.24	19.00						
		48	5240	17.09	19.00						
802.11ac-VHT40 MCS0		38	5190	10.07	12.00	Not Required	10.07	12.00	12.00	92.96	
		46	5230	16.67	18.50						
802.11ac-VHT80 MCS0		42	5210	13.52	15.00	Not Required	15.00	15.00	15.00	87.16	

						Full Power		For Head SAR		For Body-worn SAR For Extremity SAR	
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps		52	5260	17.75	19.50	Not Required	18.50	Not Required	16.00	96.97
56			5280	17.71	19.50						
60			5300	17.77	19.50						
64			5320	15.16	17.00						
802.11n-HT20 MCS0		52	5260	17.29	19.00	Not Required	18.50	Not Required	16.00	96.77	
		56	5280	17.18	19.00						
		60	5300	17.15	19.00						
802.11n-HT40 MCS0		64	5320	14.66	16.50	Not Required	16.50	14.01	16.00	93.73	
		54	5270	17.13	19.00						
		62	5310	14.36	16.00						
802.11ac-VHT20 MCS0		52	5260	17.31	19.00	Not Required	18.50	Not Required	16.00	96.79	
		56	5280	17.20	19.00						
		60	5300	17.23	19.00						
		64	5320	14.73	16.50						
802.11ac-VHT40 MCS0		54	5270	16.62	18.50	Not Required	18.50	Not Required	16.00	92.96	
		62	5310	14.35	16.00						
802.11ac-VHT80 MCS0		58	5290	12.18	14.00	Not Required	14.00	14.00	14.00	87.16	

						Full Power		For Head SAR		For Body-worn SAR For Extremity SAR	
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps		100	5500	15.62	17.00	Not Required	17.00	Not Required	17.00	96.97
116			5580	17.54	19.00						
132			5660	17.41	19.00						
140			5700	14.02	15.50						
802.11n-HT20 MCS0		100	5500	15.03	16.50	Not Required	16.50	Not Required	16.50	96.77	
		116	5580	17.09	19.00						
		132	5660	16.86	18.50						
802.11n-HT40 MCS0		140	5700	14.13	16.00	Not Required	16.00	12.23	14.00	93.73	
		102	5510	12.23	14.00						
		110	5550	17.07	18.50						
802.11ac-VHT20 MCS0		134	5670	16.82	18.50	Not Required	16.30	Not Required	15.24	17.00	
		100	5500	15.06	16.50						
		116	5580	17.11	19.00						
		132	5660	16.81	18.50						
802.11ac-VHT40 MCS0		140	5700	14.15	16.00	Not Required	16.00	Not Required	14.00	96.79	
		102	5510	12.21	14.00						
		110	5550	16.74	18.00						
802.11ac-VHT80 MCS0		134	5670	16.39	18.00	Not Required	18.00	Not Required	17.00	92.96	
		106	5530	13.67	15.50						

						Full Power		For Head SAR		For Body-worn SAR For Extremity SAR For Hotspot SAR	
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps		149	5745	17.24	19.00	Not Required	18.00	Not Required	16.00	96.97
157			5785	17.52	19.00						
165			5825	17.35	19.00						
802.11n-HT20 MCS0		149	5745	16.80	18.50	Not Required	18.00	Not Required	16.00	96.77	
		157	5785	17.01	18.50						
		165	5825	16.76	18.50						
802.11n-HT40 MCS0		151	5755	16.93	18.50	Not Required	16.48	Not Required	16.00	93.73	
		159	5795	16.85	18.50						
802.11ac-VHT20 MCS0		149	5745	16.82	18.50	Not Required	18.00	Not Required	16.00	96.79	
		157	5785	17.07	18.50						
		165	5825	16.86	18.50						
802.11ac-VHT40 MCS0		151	5755	16.30	18.00	Not Required	18.00	Not Required	16.00	92.96	
		159	5795	16.39	18.00						
802.11ac-VHT80 MCS0		155	5775	16.02	17.50	Not Required	17.50	14.71	16.00	87.16	

**BT BR/EDR**

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	10.42	7.87	8.17	12.00
	CH 39	2441	10.01	7.94	7.97	11.50
	CH 78	2480	9.65	7.85	8.06	11.50

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	5.32
	CH 19	2440	6.28
	CH 39	2480	4.97
Tune-up Limit			7

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	5.43
	CH 19	2440	6.23
	CH 39	2480	5.37
Tune-up Limit			7.00