



REPORT No.: SZ23040219S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.



Full Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5			
	128	189	251		128	189	251					
TX Channel	824.2	836.4	848.8	33.00	824.2	836.4	848.8	24.00	0.21			
Frequency (MHz)	824.2	836.4	848.8									
GSM 1 Tx slot	32.12	32.23	32.16									
GPRS 1 Tx slot	32.02	32.06	32.05									
GPRS 2 Tx slots	30.06	30.16	30.13									
GPRS 3 Tx slots	28.10	28.20	28.12									
GPRS 4 Tx slots	25.95	26.01	25.99									
EDGE 1 Tx slot	25.43	25.43	25.56									
EDGE 2 Tx slots	23.22	23.24	23.28									
EDGE 3 Tx slots	21.01	21.10	21.12									
EDGE 4 Tx slots	19.33	19.37	19.46									
Mode		Max.	32.23				Max.			24.16		
Attenuator	Cable Loss : 0.6											

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5			
	512	661	810		512	661	810					
TX Channel	1850.2	1880	1909.8	30.00	1850.2	1880	1909.8	21.00	0.36			
Frequency (MHz)	1850.2	1880	1909.8									
GSM 1 Tx slot	29.10	29.03	29.08									
GPRS 1 Tx slot	29.37	29.27	29.39									
GPRS 2 Tx slots	26.87	26.89	26.83									
GPRS 3 Tx slots	25.03	24.91	24.96									
GPRS 4 Tx slots	22.38	22.35	22.45									
EDGE 1 Tx slot	26.13	26.10	26.17									
EDGE 2 Tx slots	24.06	24.00	24.03									
EDGE 3 Tx slots	22.19	22.10	22.16									
EDGE 4 Tx slots	20.11	20.00	20.04									
Mode		Max.	29.39				Max.			20.89		
Attenuator	Cable Loss : 0.8											

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)		
	9262	9400	9538		1312	1413	1513		4132	4182	4233			
TX Channel	9662	9800	9938	23.00	1537	1638	1738	23.00	4357	4407	4458	23.00		
Rx Channel	9662	9800	9938											
Frequency (MHz)	1852.4	1880	1907.6											
3GPP Rel 99	RMC 12.2Kbps	21.88	21.96		21.80	21.77	21.89		21.79	23.00	22.53		22.68	22.57
3GPP Rel 6	HSDPA Subtest-1	21.82	21.75		21.57	21.58	21.50		21.53	22.50	21.68		21.64	21.37
3GPP Rel 6	HSDPA Subtest-2	21.48	21.42		21.21	21.56	21.52		21.55	22.50	21.46		21.41	21.16
3GPP Rel 6	HSDPA Subtest-3	20.75	20.64		20.44	21.54	21.55		21.52	22.50	21.18		21.13	20.88
3GPP Rel 6	HSDPA Subtest-4	21.34	21.28		21.09	21.56	21.57		21.53	22.50	21.06		21.02	20.77
3GPP Rel 6	HSUPA Subtest-1	21.86	21.75		21.57	21.55	21.58		21.41	22.50	22.34		22.36	22.18
3GPP Rel 6	HSUPA Subtest-2	21.86	21.74		21.62	21.54	21.50		21.35	22.50	22.26		22.27	22.11
3GPP Rel 6	HSUPA Subtest-3	21.84	21.73		21.59	21.55	21.54		21.37	22.50	22.32		22.33	22.16
3GPP Rel 6	HSUPA Subtest-4	21.84	21.79		21.58	21.53	21.51		21.34	22.50	22.25		22.26	22.08
3GPP Rel 6	HSUPA Subtest-5	21.77	21.77		21.54	21.56	21.52		21.38	22.50	22.33		22.34	22.17
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.81	21.76		21.54	21.55	21.54		21.40	22.50	22.36		22.35	22.22
Attenuator		Cable Loss	0.8		Cable Loss	0.8			Cable Loss	0.6				
Mode		Max.	21.96			Max.	21.89			Max.	22.68			



3	QPSK	15	0	21.08	21.10	21.01	22
3	16QAM	1	0	20.56	20.70	20.56	
3	16QAM	1	8	20.51	20.69	20.55	
3	16QAM	1	14	20.51	20.62	20.53	21
3	16QAM	8	0	19.86	19.94	19.83	
3	16QAM	8	4	19.92	19.97	19.81	
3	16QAM	8	7	19.87	19.93	19.85	21
3	16QAM	15	0	19.83	19.99	19.82	
3	64QAM	1	0	21.30	21.41	21.28	
3	64QAM	1	8	21.24	21.37	21.24	20
3	64QAM	1	14	21.21	21.39	21.22	
3	64QAM	8	0	18.39	18.57	18.42	
3	64QAM	8	4	18.46	18.50	18.49	20
3	64QAM	8	7	18.44	18.54	18.47	
3	64QAM	15	0	18.42	18.57	18.37	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.76	21.84	21.82	23
1.4	QPSK	1	3	21.75	21.79	21.74	
1.4	QPSK	1	5	21.69	21.76	21.66	
1.4	QPSK	3	0	21.05	21.13	20.98	
1.4	QPSK	3	1	21.03	20.93	20.95	
1.4	QPSK	3	3	21.05	21.03	20.94	
1.4	QPSK	6	0	21.03	21.05	20.96	22
1.4	16QAM	1	0	20.51	20.65	20.51	22
1.4	16QAM	1	3	20.46	20.64	20.50	
1.4	16QAM	1	5	20.46	20.57	20.48	
1.4	16QAM	3	0	19.81	19.89	19.78	
1.4	16QAM	3	1	19.87	19.92	19.76	
1.4	16QAM	3	3	19.82	19.88	19.80	
1.4	16QAM	6	0	19.78	19.94	19.77	21
1.4	64QAM	1	0	21.25	21.36	21.23	21
1.4	64QAM	1	3	21.19	21.32	21.19	
1.4	64QAM	1	5	21.16	21.34	21.17	
1.4	64QAM	3	0	18.34	18.52	18.37	
1.4	64QAM	3	1	18.41	18.45	18.44	
1.4	64QAM	3	3	18.39	18.49	18.42	
1.4	64QAM	6	0	18.37	18.52	18.32	20

3	QPSK	15	0	20.73	20.86	20.77	22
3	16QAM	1	0	20.89	21.00	20.83	
3	16QAM	1	8	20.73	20.90	20.83	
3	16QAM	1	14	20.79	20.99	20.80	21
3	16QAM	8	0	19.78	19.80	19.72	
3	16QAM	8	4	19.72	19.83	19.82	
3	16QAM	8	7	19.52	19.68	19.77	21
3	16QAM	15	0	19.60	19.62	19.64	
3	64QAM	1	0	19.61	19.70	19.62	
3	64QAM	1	8	19.72	19.58	19.64	20
3	64QAM	1	14	19.65	19.64	19.48	
3	64QAM	8	0	18.25	18.23	18.21	
3	64QAM	8	4	18.23	18.25	18.20	20
3	64QAM	8	7	18.08	18.16	18.15	
3	64QAM	15	0	18.14	18.17	18.15	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.63	21.77	21.63	23
1.4	QPSK	1	3	21.66	21.70	21.61	
1.4	QPSK	1	5	21.67	21.67	21.70	
1.4	QPSK	3	0	20.90	21.01	20.92	
1.4	QPSK	3	1	20.78	20.93	20.93	
1.4	QPSK	3	3	20.82	20.95	20.80	
1.4	QPSK	6	0	20.88	20.96	20.82	22
1.4	16QAM	1	0	21.00	21.01	20.95	22
1.4	16QAM	1	3	20.88	21.02	20.95	
1.4	16QAM	1	5	20.89	21.00	20.91	
1.4	16QAM	3	0	19.88	19.88	19.85	
1.4	16QAM	3	1	19.81	19.80	19.86	
1.4	16QAM	3	3	19.73	19.80	19.79	
1.4	16QAM	6	0	19.71	19.79	19.70	21
1.4	64QAM	1	0	19.70	19.81	19.71	21
1.4	64QAM	1	3	19.81	19.66	19.77	
1.4	64QAM	1	5	19.71	19.72	19.65	
1.4	64QAM	3	0	18.46	18.44	18.48	
1.4	64QAM	3	1	18.38	18.45	18.35	
1.4	64QAM	3	3	18.36	18.39	18.31	
1.4	64QAM	6	0	18.25	18.33	18.25	20



Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	23.5
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.74	22.79	22.72	
10	QPSK	1	25	22.68	22.77	22.72	
10	QPSK	1	49	22.74	22.75	22.60	
10	QPSK	25	0	21.94	22.06	21.90	
10	QPSK	25	12	21.88	21.92	21.88	
10	QPSK	25	25	21.82	21.97	21.76	
10	QPSK	50	0	21.84	21.88	21.81	
10	16QAM	1	0	21.86	21.96	21.85	
10	16QAM	1	25	21.78	21.94	21.77	
10	16QAM	1	49	21.71	21.94	21.80	
10	16QAM	25	0	20.89	21.01	20.85	
10	16QAM	25	12	20.83	20.92	20.77	
10	16QAM	25	25	20.77	20.82	20.76	
10	16QAM	50	0	20.71	20.87	20.73	
10	64QAM	1	0	20.75	20.79	20.75	
10	64QAM	1	25	20.82	20.76	20.72	
10	64QAM	1	49	20.83	20.64	20.72	
10	64QAM	25	0	19.56	19.60	19.60	
10	64QAM	25	12	19.46	19.51	19.47	
10	64QAM	25	25	19.44	19.46	19.50	
10	64QAM	50	0	19.50	19.40	19.42	
Channel				23035	23095	23155	23.5
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.69	22.74	22.67	
5	QPSK	1	12	22.63	22.72	22.67	
5	QPSK	1	24	22.69	22.70	22.55	
5	QPSK	12	0	21.89	22.01	21.85	
5	QPSK	12	7	21.83	21.87	21.83	
5	QPSK	12	13	21.77	21.92	21.71	
5	QPSK	25	0	21.79	21.83	21.76	
5	16QAM	1	0	21.81	21.91	21.80	
5	16QAM	1	12	21.73	21.89	21.72	
5	16QAM	1	24	21.66	21.89	21.75	
5	16QAM	12	0	20.84	20.96	20.80	
5	16QAM	12	7	20.78	20.87	20.72	
5	16QAM	12	13	20.72	20.77	20.71	
5	16QAM	25	0	20.66	20.82	20.68	
5	64QAM	1	0	20.70	20.74	20.70	
5	64QAM	1	12	20.77	20.71	20.67	
5	64QAM	1	24	20.78	20.59	20.67	
5	64QAM	12	0	19.51	19.55	19.55	
5	64QAM	12	7	19.41	19.46	19.42	
5	64QAM	12	13	19.39	19.41	19.45	
5	64QAM	25	0	19.45	19.35	19.37	
Channel				23025	23095	23165	23.5
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.64	22.69	22.62	
3	QPSK	1	8	22.58	22.67	22.62	
3	QPSK	1	14	22.64	22.65	22.50	
3	QPSK	8	0	21.84	21.96	21.80	
3	QPSK	8	4	21.78	21.82	21.78	
3	QPSK	8	7	21.72	21.87	21.66	
3	QPSK	15	0	21.74	21.78	21.71	
3	16QAM	1	0	21.76	21.86	21.75	
3	16QAM	1	8	21.68	21.84	21.67	
3	16QAM	1	14	21.61	21.84	21.70	
3	16QAM	8	0	20.79	20.91	20.75	
3	16QAM	8	4	20.73	20.82	20.67	
3	16QAM	8	7	20.67	20.72	20.66	
3	16QAM	15	0	20.61	20.77	20.63	
3	64QAM	1	0	20.65	20.69	20.65	
3	64QAM	1	8	20.72	20.66	20.62	
3	64QAM	1	14	20.73	20.54	20.62	
3	64QAM	8	0	19.46	19.50	19.50	
3	64QAM	8	4	19.36	19.41	19.37	
3	64QAM	8	7	19.34	19.36	19.40	
3	64QAM	15	0	19.40	19.30	19.32	
Channel				23017	23095	23173	23.5
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.59	22.64	22.57	
1.4	QPSK	1	3	22.53	22.62	22.57	
1.4	QPSK	1	5	22.59	22.60	22.45	
1.4	QPSK	3	0	21.79	21.91	21.75	
1.4	QPSK	3	1	21.73	21.77	21.73	
1.4	QPSK	3	3	21.67	21.82	21.61	
1.4	QPSK	6	0	21.69	21.73	21.66	
1.4	16QAM	1	0	21.71	21.81	21.70	
1.4	16QAM	1	3	21.63	21.79	21.62	
1.4	16QAM	1	5	21.56	21.79	21.65	
1.4	16QAM	3	0	20.74	20.86	20.70	
1.4	16QAM	3	1	20.68	20.77	20.62	
1.4	16QAM	3	3	20.62	20.67	20.61	
1.4	16QAM	6	0	20.56	20.72	20.58	
1.4	64QAM	1	0	20.60	20.64	20.60	
1.4	64QAM	1	3	20.67	20.61	20.57	
1.4	64QAM	1	5	20.68	20.49	20.57	
1.4	64QAM	3	0	19.41	19.45	19.45	
1.4	64QAM	3	1	19.31	19.36	19.32	
1.4	64QAM	3	3	19.29	19.31	19.35	
1.4	64QAM	6	0	19.35	19.25	19.27	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	23.5
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.65	22.76	22.63	
10	QPSK	1	25	22.61	22.73	22.60	
10	QPSK	1	49	22.60	22.65	22.53	
10	QPSK	25	0	21.85	21.91	21.85	
10	QPSK	25	12	21.80	21.82	21.75	
10	QPSK	25	25	21.77	21.78	21.66	
10	QPSK	50	0	21.72	21.75	21.67	
10	16QAM	1	0	21.87	21.94	21.88	
10	16QAM	1	25	21.85	21.92	21.80	
10	16QAM	1	49	21.74	21.93	21.74	
10	16QAM	25	0	20.84	20.96	20.86	
10	16QAM	25	12	20.72	20.88	20.77	
10	16QAM	25	25	20.76	20.83	20.73	
10	16QAM	50	0	20.73	20.85	20.68	
10	64QAM	1	0	20.62	20.73	20.54	
10	64QAM	1	25	20.57	20.61	20.55	
10	64QAM	1	49	20.50	20.72	20.54	
10	64QAM	25	0	19.42	19.46	19.34	
10	64QAM	25	12	19.23	19.44	19.33	
10	64QAM	25	25	19.32	19.34	19.25	
10	64QAM	50	0	19.21	19.37	19.19	
Channel				23755	23790	23825	23.5
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.59	22.72	22.58	
5	QPSK	1	12	22.50	22.66	22.56	
5	QPSK	1	24	22.53	22.58	22.48	
5	QPSK	12	0	21.80	21.88	21.79	
5	QPSK	12	7	21.75	21.72	21.67	
5	QPSK	12	13	21.70	21.68	21.59	
5	QPSK	25	0	21.65	21.66	21.59	
5	16QAM	1	0	21.82	21.92	21.81	
5	16QAM	1	12	21.78	21.88	21.75	
5	16QAM	1	24	21.68	21.87	21.72	
5	16QAM	12	0	20.76	20.92	20.79	
5	16QAM	12	7	20.68	20.83	20.71	
5	16QAM	12	13	20.69	20.79	20.66	
5	16QAM	25	0	20.66	20.80	20.61	
5	64QAM	1	0	20.58	20.68	20.51	
5	64QAM	1	12	20.54	20.55	20.48	
5	64QAM	1	24	20.45	20.68	20.45	
5	64QAM	12	0	19.37	19.39	19.25	
5	64QAM	12	7	19.17	19.38	19.25	
5	64QAM	12	13	19.28	19.26	19.17	
5	64QAM	25	0	19.16	19.32	19.14	



3	QPSK	15	0	20.85	20.90	20.93	
3	16QAM	1	0	21.20	21.20	21.23	22
3	16QAM	1	8	21.18	21.26	21.25	
3	16QAM	1	14	21.05	21.25	21.10	
3	16QAM	8	0	20.19	20.26	20.28	21
3	16QAM	8	4	20.08	20.20	20.04	
3	16QAM	8	7	20.10	20.12	20.12	
3	16QAM	15	0	20.03	20.17	20.05	
3	64QAM	1	0	19.90	19.96	20.02	21
3	64QAM	1	8	19.80	19.85	19.99	
3	64QAM	1	14	19.94	19.81	19.91	
3	64QAM	8	0	18.74	18.78	18.73	20
3	64QAM	8	4	18.68	18.61	18.62	
3	64QAM	8	7	18.59	18.61	18.59	
3	64QAM	15	0	18.59	18.60	18.64	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	21.89	21.98	21.81	23
1.4	QPSK	1	3	21.75	21.92	21.79	
1.4	QPSK	1	5	21.63	21.76	21.61	
1.4	QPSK	3	0	21.03	21.20	21.14	
1.4	QPSK	3	1	20.98	20.98	20.96	
1.4	QPSK	3	3	20.87	21.03	20.90	
1.4	QPSK	6	0	20.80	20.89	20.88	22
1.4	16QAM	1	0	21.21	21.21	21.22	22
1.4	16QAM	1	3	21.17	21.27	21.24	
1.4	16QAM	1	5	21.09	21.26	21.06	
1.4	16QAM	3	0	20.19	20.23	20.28	
1.4	16QAM	3	1	20.08	20.19	20.10	
1.4	16QAM	3	3	20.10	20.09	20.09	
1.4	16QAM	6	0	20.04	20.16	20.07	21
1.4	64QAM	1	0	19.92	19.94	20.02	21
1.4	64QAM	1	3	19.77	19.88	19.97	
1.4	64QAM	1	5	19.88	19.82	19.91	
1.4	64QAM	3	0	18.75	18.81	18.78	
1.4	64QAM	3	1	18.85	18.80	18.88	
1.4	64QAM	3	3	18.80	18.78	18.78	
1.4	64QAM	6	0	18.59	18.53	18.59	20



2.4GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	16.56	17.50	15.00	98.54
	CH 7	2437	13.35	14.00	15.00	
	CH 13	2462	15.12	16.00	15.00	
802.11g 6Mbps	CH 1	2412	15.12	16.00	13.00	92.07
	CH 7	2437	12.82	13.50	13.00	
	CH 13	2462	8.76	9.50	7.00	
802.11n-HT20 MCS0	CH 1	2412	14.36	15.00	12.00	90.98
	CH 7	2437	11.54	12.50	12.00	
	CH 13	2462	6.39	7.00	5.00	
802.11n-HT40 MCS0	CH 3	2422	12.59	13.50	12.00	84.55
	CH 7	2442	11.67	12.50	12.00	
	CH 11	2462	7.65	8.50	7.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	11.12	12.00	14.00	92.00
	CH 44	5220	12.26	13.00	15.00	
	CH 48	5240	12.59	13.50	15.00	
802.11n-HT20 MCS0	CH 36	5180	11.83	12.50	15.00	90.24
	CH 44	5220	12.36	13.00	15.00	
	CH 48	5240	12.36	13.00	15.00	
802.11n-HT40 MCS0	CH 36	5180	7.60	8.50	11.00	83.09
	CH 46	5230	12.25	13.00	15.00	
	CH 36	5180	11.81	12.50	15.00	
802.11ac-VHT20 MCS0	CH 44	5220	12.41	13.00	15.00	90.64
	CH 48	5240	12.41	13.00	15.00	
	CH 36	5180	11.83	12.50	15.00	
802.11ac-VHT40 MCS0	CH 38	5190	11.83	12.50	15.00	82.69
	CH 46	5230	12.25	13.00	15.00	
	CH 42	5210	8.15	9.00	11.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 52	5260	14.69	15.50	16.00	92.00
	CH 60	5300	14.72	15.50	16.00	
	CH 64	5320	13.49	14.00	15.00	
802.11n-HT20 MCS0	CH 52	5260	14.21	15.00	16.00	90.24
	CH 60	5300	14.27	15.00	16.00	
	CH 64	5320	13.88	14.50	16.00	
802.11n-HT40 MCS0	CH 54	5270	14.06	15.00	16.00	83.09
	CH 62	5310	9.75	10.50	11.00	
	CH 52	5260	14.21	15.00	16.00	
802.11ac-VHT20 MCS0	CH 60	5300	14.31	15.00	16.00	90.64
	CH 64	5320	13.92	14.50	16.00	
	CH 54	5270	14.02	15.00	16.00	
802.11ac-VHT40 MCS0	CH 62	5310	14.12	15.00	16.00	82.69
	CH 58	5290	10.56	11.50	14.00	
	CH 58	5290	10.56	11.50	14.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 100	5500	15.22	16.00	16.00	92.00
	CH 120	5600	13.59	14.50	16.00	
	CH 140	5700	11.74	12.50	16.00	
802.11n-HT20 MCS0	CH 100	5500	14.74	15.50	16.00	90.24
	CH 120	5600	13.64	14.50	16.00	
	CH 140	5700	11.87	12.50	16.00	
802.11n-HT40 MCS0	CH 102	5510	9.02	10.00	9.00	83.09
	CH 126	5630	13.19	14.00	16.00	
	CH 134	5670	12.81	13.50	16.00	
802.11ac-VHT20 MCS0	CH 100	5500	14.81	15.50	16.00	90.64
	CH 120	5600	13.79	14.50	16.00	
	CH 140	5700	11.90	12.50	16.00	
802.11ac-VHT40 MCS0	CH 102	5510	14.77	15.50	16.00	82.69
	CH 126	5630	13.33	14.00	16.00	
	CH 134	5670	12.94	13.50	16.00	
802.11ac-VHT80 MCS0	CH 106	5530	9.66	10.50	12.00	23.38
	CH 122	5610	13.48	14.00	18.00	
	CH 138	5690	12.18	13.00	18.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 149	5745	11.53	12.50	16.00	92.00
	CH 157	5785	9.79	10.50	16.00	
	CH 165	5825	8.36	9.00	16.00	
802.11n-HT20 MCS0	CH 149	5745	11.59	12.50	16.00	90.24
	CH 157	5785	9.91	10.50	16.00	
	CH 165	5825	8.62	9.50	16.00	
802.11n-HT40 MCS0	CH 151	5755	11.53	12.50	16.00	83.09
	CH 159	5795	8.62	10.30	16.00	
	CH 149	5745	11.69	12.50	16.00	
802.11ac-VHT20 MCS0	CH 157	5785	10.12	11.00	16.00	90.64
	CH 165	5825	8.70	9.50	16.00	
	CH 151	5755	11.60	12.50	16.00	
802.11ac-VHT40 MCS0	CH 159	5795	9.73	10.50	16.00	82.69
	CH 155	5775	11.36	12.00	18.00	
	CH 155	5775	11.36	12.00	18.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.26	5.39	5.56
	CH 39	2441	6.35	5.56	5.74
	CH 76	2480	5.80	4.89	4.96
Tune-up Limit			8	6	6
Duty Cycle %			77.6	77.54	77.54

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	-3.83	-3.39
	CH 19	2440	-2.88	-2.65
	CH 39	2480	-3.25	-3.21
Tune-up Limit			0.5	0.5
Duty Cycle %			32	33.33



Reduced Power

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.10	27.03	27.08	28.00	18.10	18.03	18.08	19.00
GPRS 1 Tx slot	27.37	27.27	27.39	28.50	18.37	18.27	18.39	19.50
GPRS 2 Tx slots	24.87	24.89	24.83	26.00	18.87	18.89	18.83	20.00
GPRS 3 Tx slots	23.03	22.91	22.96	24.00	18.77	18.65	18.70	19.74
GPRS 4 Tx slots	20.38	20.35	20.45	21.50	17.38	17.35	17.45	18.50
EDGE 1 Tx slot	24.13	24.10	24.17	25.00	15.13	15.10	15.17	16.00
EDGE 2 Tx slots	22.06	22.00	22.03	23.00	16.06	16.00	16.03	17.00
EDGE 3 Tx slots	20.19	20.10	20.16	21.00	15.93	15.84	15.90	16.74
EDGE 4 Tx slots	18.11	18.00	18.04	19.00	15.11	15.00	15.04	16.00
Mode		Max.	27.39			Max.	18.89	
Attenuator	Cable Loss : 0.8							

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		
TX Channel	9662	9800	9938		1537	1638	1738		
Rx Channel	9662	9800	9938		1537	1638	1738		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		
3GPP Rel 99	RMC 12.2Kbps	17.88	17.96	17.80	19.00	17.77	17.89	17.79	19.00
3GPP Rel 6	HSDPA Subtest-1	17.82	17.75	17.57	18.50	17.58	17.50	17.53	18.50
3GPP Rel 6	HSDPA Subtest-2	17.48	17.42	17.21	18.00	17.56	17.52	17.55	18.50
3GPP Rel 6	HSDPA Subtest-3	16.75	16.64	16.44	17.50	17.54	17.55	17.52	18.50
3GPP Rel 6	HSDPA Subtest-4	17.34	17.28	17.09	18.00	17.56	17.57	17.53	18.50
3GPP Rel 6	HSUPA Subtest-1	17.86	17.75	17.57	18.50	17.55	17.58	17.41	18.50
3GPP Rel 6	HSUPA Subtest-2	17.86	17.74	17.62	18.50	17.54	17.50	17.35	18.50
3GPP Rel 6	HSUPA Subtest-3	17.84	17.73	17.59	18.50	17.55	17.54	17.37	18.50
3GPP Rel 6	HSUPA Subtest-4	17.84	17.79	17.58	18.50	17.53	17.51	17.34	18.50
3GPP Rel 6	HSUPA Subtest-5	17.77	17.77	17.54	18.50	17.56	17.52	17.38	18.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.81	17.76	17.54	18.50	17.55	17.54	17.40	18.50
Attenuator		Cable Loss		0.8		Cable Loss		0.8	
Mode		Max.	17.96			Max.	17.89		



3	QPSK	15	0	15.08	15.10	15.01	16
3	16QAM	1	0	14.86	15.00	14.86	
3	16QAM	1	8	14.81	14.99	14.85	
3	16QAM	1	14	14.81	14.92	14.83	15
3	16QAM	8	0	14.16	14.24	14.13	
3	16QAM	8	4	14.22	14.27	14.11	
3	16QAM	8	7	14.17	14.23	14.15	15
3	16QAM	15	0	14.13	14.29	14.12	
3	64QAM	1	0	14.30	14.41	14.28	
3	64QAM	1	8	14.24	14.37	14.24	14
3	64QAM	1	14	14.21	14.39	14.22	
3	64QAM	8	0	12.69	12.87	12.72	
3	64QAM	8	4	12.76	12.80	12.79	14
3	64QAM	8	7	12.74	12.84	12.77	
3	64QAM	15	0	12.72	12.87	12.67	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.76	15.84	15.82	17
1.4	QPSK	1	3	15.75	15.79	15.74	
1.4	QPSK	1	5	15.69	15.76	15.66	
1.4	QPSK	3	0	15.05	15.13	14.98	
1.4	QPSK	3	1	15.03	14.93	14.95	
1.4	QPSK	3	3	15.05	15.03	14.94	
1.4	QPSK	6	0	15.03	15.05	14.96	16
1.4	16QAM	1	0	14.81	14.95	14.81	
1.4	16QAM	1	3	14.76	14.94	14.80	
1.4	16QAM	1	5	14.76	14.87	14.78	16
1.4	16QAM	3	0	14.11	14.19	14.08	
1.4	16QAM	3	1	14.17	14.22	14.06	
1.4	16QAM	3	3	14.12	14.18	14.10	15
1.4	16QAM	6	0	14.08	14.24	14.07	
1.4	64QAM	1	0	14.25	14.36	14.23	
1.4	64QAM	1	3	14.19	14.32	14.19	15
1.4	64QAM	1	5	14.16	14.34	14.17	
1.4	64QAM	3	0	12.64	12.82	12.67	
1.4	64QAM	3	1	12.71	12.75	12.74	
1.4	64QAM	3	3	12.69	12.79	12.72	
1.4	64QAM	6	0	12.67	12.82	12.62	
1.4	64QAM	6	0	12.67	12.82	12.62	14

3	QPSK	15	0	14.73	14.86	14.77	16
3	16QAM	1	0	14.89	15.00	14.83	
3	16QAM	1	8	14.73	14.90	14.83	
3	16QAM	1	14	14.79	14.99	14.80	15
3	16QAM	8	0	13.78	13.80	13.72	
3	16QAM	8	4	13.72	13.63	13.82	
3	16QAM	8	7	13.52	13.68	13.77	15
3	16QAM	15	0	13.60	13.62	13.64	
3	64QAM	1	0	13.61	13.70	13.62	
3	64QAM	1	8	13.72	13.58	13.64	14
3	64QAM	1	14	13.65	13.64	13.48	
3	64QAM	8	0	12.25	12.23	12.21	
3	64QAM	8	4	12.23	12.25	12.20	14
3	64QAM	8	7	12.08	12.16	12.15	
3	64QAM	15	0	12.14	12.17	12.15	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.63	15.77	15.63	17
1.4	QPSK	1	3	15.66	15.70	15.61	
1.4	QPSK	1	5	15.67	15.67	15.70	
1.4	QPSK	3	0	14.90	15.01	14.92	
1.4	QPSK	3	1	14.78	14.93	14.93	
1.4	QPSK	3	3	14.82	14.95	14.80	
1.4	QPSK	6	0	14.88	14.96	14.82	16
1.4	16QAM	1	0	15.00	15.01	14.95	
1.4	16QAM	1	3	14.88	15.02	14.95	
1.4	16QAM	1	5	14.89	15.00	14.91	16
1.4	16QAM	3	0	13.88	13.88	13.85	
1.4	16QAM	3	1	13.81	13.80	13.86	
1.4	16QAM	3	3	13.73	13.80	13.79	15
1.4	16QAM	6	0	13.71	13.79	13.70	
1.4	64QAM	1	0	13.70	13.81	13.71	
1.4	64QAM	1	3	13.81	13.66	13.77	15
1.4	64QAM	1	5	13.71	13.72	13.65	
1.4	64QAM	3	0	12.46	12.44	12.48	
1.4	64QAM	3	1	12.38	12.45	12.35	
1.4	64QAM	3	3	12.36	12.39	12.31	
1.4	64QAM	6	0	12.25	12.33	12.25	
1.4	64QAM	6	0	12.25	12.33	12.25	14



Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	16.03	16.12	15.97	17
20	QPSK	1	49	16.00	16.10	16.04	
20	QPSK	1	99	15.90	16.04	15.92	
20	QPSK	50	0	15.23	15.38	15.29	16
20	QPSK	50	24	15.16	15.23	15.14	
20	QPSK	50	50	15.06	15.25	15.15	
20	QPSK	100	0	15.08	15.16	15.14	16
20	16QAM	1	0	15.36	15.32	15.31	
20	16QAM	1	49	15.38	15.40	15.38	
20	16QAM	1	99	15.23	15.38	15.31	15
20	16QAM	50	0	14.36	14.38	14.40	
20	16QAM	50	24	14.29	14.29	14.26	
20	16QAM	50	50	14.27	14.23	14.26	15
20	16QAM	100	0	14.22	14.29	14.19	
20	64QAM	1	0	14.07	14.14	14.18	
20	64QAM	1	49	14.00	14.03	14.14	15
20	64QAM	1	99	14.12	13.99	14.09	
20	64QAM	50	0	12.90	12.96	12.96	
20	64QAM	50	24	12.84	12.79	12.77	14
20	64QAM	50	50	12.75	12.78	12.72	
20	64QAM	100	0	12.76	12.78	12.78	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	16.00	16.05	15.93	17
15	QPSK	1	37	15.90	16.03	15.93	
15	QPSK	1	74	15.84	15.95	15.82	
15	QPSK	36	0	15.17	15.32	15.25	16
15	QPSK	36	20	15.09	15.13	15.07	
15	QPSK	36	39	14.99	15.19	15.09	
15	QPSK	75	0	14.99	15.05	15.07	16
15	16QAM	1	0	15.33	15.29	15.29	
15	16QAM	1	37	15.32	15.38	15.33	
15	16QAM	1	74	15.18	15.32	15.23	15
15	16QAM	36	0	14.29	14.34	14.38	
15	16QAM	36	20	14.21	14.25	14.20	
15	16QAM	36	39	14.21	14.20	14.19	15
15	16QAM	75	0	14.19	14.23	14.13	
15	64QAM	1	0	14.03	14.07	14.14	
15	64QAM	1	37	13.91	13.98	14.07	15
15	64QAM	1	74	14.04	13.94	14.03	
15	64QAM	36	0	12.86	12.92	12.87	
15	64QAM	36	20	12.77	12.73	12.72	14
15	64QAM	36	39	12.71	12.69	12.68	
15	64QAM	75	0	12.72	12.69	12.76	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	15.95	16.01	15.85	17
10	QPSK	1	25	15.85	15.93	15.82	
10	QPSK	1	49	15.73	15.84	15.71	
10	QPSK	25	0	15.08	15.29	15.20	16
10	QPSK	25	12	15.01	15.07	14.98	
10	QPSK	25	25	14.88	15.09	14.99	
10	QPSK	50	0	14.90	14.96	14.96	16
10	16QAM	1	0	15.28	15.23	15.24	
10	16QAM	1	25	15.25	15.34	15.30	
10	16QAM	1	49	15.12	15.25	15.19	15
10	16QAM	25	0	14.21	14.27	14.33	
10	16QAM	25	12	14.12	14.16	14.13	
10	16QAM	25	25	14.13	14.15	14.12	15
10	16QAM	50	0	14.16	14.15	14.05	
10	64QAM	1	0	13.99	13.98	14.08	
10	64QAM	1	25	13.85	13.90	14.02	15
10	64QAM	1	49	14.00	13.90	13.97	
10	64QAM	25	0	12.80	12.89	12.85	
10	64QAM	25	12	12.74	12.64	12.69	14
10	64QAM	25	25	12.67	12.67	12.64	
10	64QAM	50	0	12.70	12.65	12.74	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	15.93	15.97	15.88	17
5	QPSK	1	12	15.81	15.94	15.89	
5	QPSK	1	24	15.78	15.87	15.76	
5	QPSK	12	0	15.11	15.23	15.19	16
5	QPSK	12	7	15.01	15.02	15.01	
5	QPSK	12	13	14.90	15.11	15.03	
5	QPSK	25	0	14.89	14.92	14.96	16
5	16QAM	1	0	15.25	15.20	15.24	
5	16QAM	1	12	15.26	15.30	15.24	
5	16QAM	1	24	15.12	15.25	15.20	15
5	16QAM	12	0	14.26	14.26	14.30	
5	16QAM	12	7	14.16	14.19	14.11	
5	16QAM	12	13	14.16	14.15	14.16	15
5	16QAM	25	0	14.16	14.20	14.08	
5	64QAM	1	0	13.99	13.99	14.10	
5	64QAM	1	12	13.82	13.92	14.04	15
5	64QAM	1	24	13.97	13.90	13.99	
5	64QAM	12	0	12.83	12.87	12.78	
5	64QAM	12	7	12.71	12.67	12.69	14
5	64QAM	12	13	12.67	12.65	12.65	
5	64QAM	25	0	12.65	12.61	12.72	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	15.87	15.98	15.80	17
3	QPSK	1	8	15.75	15.91	15.76	
3	QPSK	1	14	15.60	15.75	15.65	
3	QPSK	8	0	15.06	15.16	15.14	16
3	QPSK	8	4	14.96	15.00	14.93	
3	QPSK	8	7	14.84	15.00	14.95	



3	QPSK	15	0	14.85	14.90	14.93	16
3	16QAM	1	0	15.20	15.20	15.23	
3	16QAM	1	8	15.18	15.26	15.25	
3	16QAM	1	14	15.05	15.25	15.10	15
3	16QAM	8	0	14.19	14.26	14.28	
3	16QAM	8	4	14.08	14.20	14.04	
3	16QAM	8	7	14.10	14.12	14.12	15
3	16QAM	15	0	14.03	14.17	14.05	
3	64QAM	1	0	13.90	13.96	14.02	
3	64QAM	1	8	13.80	13.85	13.99	15
3	64QAM	1	14	13.94	13.81	13.91	
3	64QAM	8	0	12.74	12.78	12.73	
3	64QAM	8	4	12.68	12.61	12.62	14
3	64QAM	8	7	12.59	12.61	12.59	
3	64QAM	15	0	12.59	12.60	12.64	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.89	15.98	15.81	17
1.4	QPSK	1	3	15.75	15.92	15.79	
1.4	QPSK	1	5	15.63	15.76	15.61	
1.4	QPSK	3	0	15.03	15.20	15.14	
1.4	QPSK	3	1	14.98	14.98	14.96	
1.4	QPSK	3	3	14.87	15.03	14.90	16
1.4	QPSK	6	0	14.80	14.89	14.88	
1.4	16QAM	1	0	15.21	15.21	15.22	16
1.4	16QAM	1	3	15.17	15.27	15.24	
1.4	16QAM	1	5	15.09	15.26	15.06	
1.4	16QAM	3	0	14.19	14.23	14.28	
1.4	16QAM	3	1	14.08	14.19	14.10	
1.4	16QAM	3	3	14.10	14.09	14.09	15
1.4	16QAM	6	0	14.04	14.16	14.07	
1.4	64QAM	1	0	13.92	13.94	14.02	15
1.4	64QAM	1	3	13.77	13.88	13.97	
1.4	64QAM	1	5	13.88	13.82	13.91	
1.4	64QAM	3	0	12.75	12.81	12.78	
1.4	64QAM	3	1	12.85	12.80	12.88	
1.4	64QAM	3	3	12.80	12.78	12.78	14
1.4	64QAM	6	0	12.59	12.53	12.59	