



REPORT No.: SZ21110239S01

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
	TX Channel	128	189		251	128	189		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	31.85	32.05	31.99	33.00	22.85	23.05	22.99	24.00	0.20
GPRS 1 Tx slot	31.88	32.00	31.94	33.00	22.88	23.00	22.94	24.00	
GPRS 2 Tx slots	29.73	29.85	29.76	30.50	23.73	23.85	23.76	24.50	0.12
GPRS 3 Tx slots	27.61	27.86	27.81	28.50	23.35	23.60	23.55	24.24	0.25
GPRS 4 Tx slots	25.59	25.68	25.68	26.00	22.59	22.68	22.68	23.00	0.09
EDGE 1 Tx slot	26.58	26.72	26.68	27.50	17.58	17.72	17.68	18.50	0.14
EDGE 2 Tx slots	25.54	25.78	25.72	26.50	19.54	19.78	19.72	20.50	0.24
EDGE 3 Tx slots	24.60	24.73	24.78	25.50	20.34	20.47	20.52	21.24	0.18
EDGE 4 Tx slots	23.60	23.75	23.74	24.50	20.60	20.75	20.74	21.50	0.15
Mode		Max.	32.05		Max.	23.85			
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
	TX Channel	512	661		810	512	661		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	28.73	29.04	28.91	30.00	19.73	20.04	19.91	21.00	0.35
GPRS 1 Tx slot	28.69	29.00	28.85	30.00	19.69	20.00	19.85	21.00	
GPRS 2 Tx slots	26.37	26.74	26.70	27.00	20.37	20.74	20.70	21.00	0.37
GPRS 3 Tx slots	25.57	25.85	25.70	26.50	21.31	21.59	21.44	22.24	0.28
GPRS 4 Tx slots	22.98	23.28	23.23	23.50	19.98	20.28	20.23	20.50	0.30
EDGE 1 Tx slot	24.75	25.14	24.99	25.50	15.75	16.14	15.99	16.50	0.39
EDGE 2 Tx slots	23.35	23.45	23.30	24.00	17.35	17.45	17.30	18.00	0.15
EDGE 3 Tx slots	22.64	22.73	22.63	23.50	18.38	18.47	18.37	19.24	0.10
EDGE 4 Tx slots	21.56	21.61	21.57	22.00	18.56	18.61	18.57	19.00	0.05
Mode		Max.	29.04		Max.	21.59			
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)		
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458			
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6			
3GPP Rel 99	RMC 12.2Kbps	21.07	21.19	21.14	22.00	19.71	19.76	19.65	20.00	23.01	23.03	22.99	24.00	
3GPP Rel 6	HSDPA Subtest-1	20.62	19.56	19.53	21.00	19.60	18.50	19.70	20.00	21.18	21.52	21.23	22.00	
3GPP Rel 6	HSDPA Subtest-2	20.28	19.23	19.21	19.00	19.55	18.49	19.64	20.00	20.95	21.21	20.94	22.00	
3GPP Rel 6	HSDPA Subtest-3	20.46	19.46	19.41	21.00	19.54	18.51	19.63	20.00	20.65	20.89	20.64	21.50	
3GPP Rel 6	HSDPA Subtest-4	20.15	19.13	19.09	21.00	19.57	18.53	19.65	20.00	20.56	20.81	20.56	21.50	
3GPP Rel 6	HSUPA Subtest-1	20.58	19.61	19.54	21.00	19.57	18.53	19.66	20.00	21.90	22.06	21.76	22.50	
3GPP Rel 6	HSUPA Subtest-2	20.59	19.56	19.49	21.00	19.53	18.47	19.63	20.00	21.92	22.06	21.72	22.50	
3GPP Rel 6	HSUPA Subtest-3	20.54	19.58	19.50	21.00	19.58	18.51	19.62	20.00	21.92	21.95	21.73	22.50	
3GPP Rel 6	HSUPA Subtest-4	20.59	19.55	19.48	21.00	19.56	18.46	19.63	20.00	21.88	22.07	21.70	22.50	
3GPP Rel 6	HSUPA Subtest-5	20.58	19.59	19.52	21.00	19.57	18.51	19.64	20.00	21.93	21.99	21.73	22.50	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.54	19.60	19.55	21.00	19.55	18.54	19.63	20.00	21.93	21.85	21.76	22.50	
Attenuator		Cable Loss			0.8		Cable Loss			0.8		Cable Loss		0.6
Mode		Max.	21.19			Max.	19.76			Max.	23.03			

3	QPSK	15	0	20.24	20.40	20.22	21.5
3	16QAM	1	0	20.26	20.50	20.32	
3	16QAM	1	8	20.20	20.32	20.13	
3	16QAM	1	14	20.15	20.20	20.03	
3	16QAM	8	0	19.73	19.72	19.63	
3	16QAM	8	4	19.70	19.55	19.45	
3	16QAM	8	7	19.58	19.45	19.38	
3	16QAM	15	0	19.52	19.38	19.29	
3	64QAM	1	0	20.15	20.31	20.08	
3	64QAM	1	8	19.95	20.14	19.96	
3	64QAM	1	14	19.94	20.10	19.85	
3	64QAM	8	0	19.55	19.49	19.39	
3	64QAM	8	4	19.52	19.36	19.34	
3	64QAM	8	7	19.40	19.28	19.25	
3	64QAM	15	0	19.33	19.11	19.17	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.44	21.50	21.50	22.5
1.4	QPSK	1	3	21.40	21.37	21.38	
1.4	QPSK	1	5	21.28	21.21	21.25	
1.4	QPSK	3	0	20.61	20.64	20.57	
1.4	QPSK	3	1	20.43	20.50	20.34	
1.4	QPSK	3	3	20.34	20.44	20.33	
1.4	QPSK	6	0	20.24	20.41	20.22	21.5
1.4	16QAM	1	0	20.27	20.49	20.34	21.5
1.4	16QAM	1	3	20.19	20.31	20.11	
1.4	16QAM	1	5	20.14	20.22	20.06	
1.4	16QAM	3	0	19.72	19.73	19.66	
1.4	16QAM	3	1	19.70	19.53	19.45	
1.4	16QAM	3	3	19.61	19.44	19.39	
1.4	16QAM	6	0	19.53	19.40	19.30	20.5
1.4	64QAM	1	0	20.15	20.32	20.09	21
1.4	64QAM	1	3	19.95	20.14	19.97	
1.4	64QAM	1	5	19.93	20.08	19.87	
1.4	64QAM	3	0	19.55	19.49	19.42	
1.4	64QAM	3	1	19.51	19.34	19.34	
1.4	64QAM	3	3	19.40	19.28	19.25	
1.4	64QAM	6	0	19.34	19.09	19.18	20

3	QPSK	15	0	20.40	20.40	20.34	21.5	
3	16QAM	1	0	21.00	21.11	20.95		
3	16QAM	1	8	20.89	20.88	20.97		
3	16QAM	1	14	20.88	20.79	20.91		
3	16QAM	8	0	19.83	19.86	19.91		
3	16QAM	8	4	19.75	19.80	19.90		
3	16QAM	8	7	19.81	19.80	19.87		
3	16QAM	15	0	19.74	19.76	19.89		
3	64QAM	1	0	20.55	20.80	20.77		21.5
3	64QAM	1	8	20.42	20.60	20.61		
3	64QAM	1	14	20.36	20.51	20.54		
3	64QAM	8	0	19.79	19.89	19.87		20.5
3	64QAM	8	4	19.74	19.68	19.74		
3	64QAM	8	7	19.80	19.74	19.79		
3	64QAM	15	0	19.70	19.65	19.64		
Channel				19957	20175	20393	Tune-up limit (dBm)	
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	21.55	21.62	21.49	22.5	
1.4	QPSK	1	3	21.44	21.47	21.43		
1.4	QPSK	1	5	21.24	21.33	21.42		
1.4	QPSK	3	0	20.63	20.79	20.76		
1.4	QPSK	3	1	20.48	20.57	20.65		
1.4	QPSK	3	3	20.46	20.49	20.56		
1.4	QPSK	6	0	20.36	20.36	20.29	21.5	
1.4	16QAM	1	0	20.97	21.08	20.92	21.5	
1.4	16QAM	1	3	20.86	20.84	20.93		
1.4	16QAM	1	5	20.84	20.77	20.87		
1.4	16QAM	3	0	19.80	19.82	19.88		
1.4	16QAM	3	1	19.70	19.77	19.87		
1.4	16QAM	3	3	19.78	19.77	19.85		
1.4	16QAM	6	0	19.70	19.74	19.86	20.5	
1.4	64QAM	1	0	20.53	20.76	20.72	21.5	
1.4	64QAM	1	3	20.38	20.57	20.59		
1.4	64QAM	1	5	20.33	20.46	20.49		
1.4	64QAM	3	0	19.76	19.87	19.82		
1.4	64QAM	3	1	19.72	19.64	19.70		
1.4	64QAM	3	3	19.76	19.71	19.75		
1.4	64QAM	6	0	19.68	19.63	19.61	20.5	

Band 66

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	21.51	21.75	21.61	22.5
20	QPSK	1	49	21.43	21.55	21.47	
20	QPSK	1	99	21.47	21.40	21.41	
20	QPSK	50	0	20.51	20.64	20.58	21.5
20	QPSK	50	24	20.40	20.47	20.45	
20	QPSK	50	50	20.33	20.40	20.31	
20	QPSK	100	0	20.24	20.28	20.23	21.5
20	16QAM	1	0	21.18	21.27	21.16	
20	16QAM	1	49	21.13	21.14	21.00	
20	16QAM	1	99	21.08	21.02	20.89	20.5
20	16QAM	50	0	19.88	20.00	19.95	
20	16QAM	50	24	19.83	19.86	19.92	
20	16QAM	50	50	19.80	19.77	19.87	21.5
20	16QAM	100	0	19.70	19.39	19.61	
20	64QAM	1	0	20.53	20.55	20.47	
20	64QAM	1	49	20.48	20.40	20.42	20.5
20	64QAM	1	99	20.41	20.25	20.33	
20	64QAM	50	0	19.91	19.96	19.89	
20	64QAM	50	24	19.89	19.76	19.89	20.5
20	64QAM	50	50	19.87	19.83	19.76	
20	64QAM	100	0	19.90	19.92	19.85	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.47	21.71	21.58	22.5
15	QPSK	1	37	21.39	21.52	21.45	
15	QPSK	1	74	21.43	21.38	21.37	
15	QPSK	36	0	20.48	20.60	20.54	21.5
15	QPSK	36	20	20.38	20.43	20.42	
15	QPSK	36	39	20.30	20.37	20.26	
15	QPSK	75	0	20.19	20.25	20.19	21.5
15	16QAM	1	0	21.15	21.24	21.12	
15	16QAM	1	37	21.10	21.09	20.96	
15	16QAM	1	74	21.05	21.00	20.85	20.5
15	16QAM	36	0	19.84	19.97	19.91	
15	16QAM	36	20	19.79	19.81	19.88	
15	16QAM	36	39	19.76	19.73	19.82	21.5
15	16QAM	75	0	19.67	19.36	19.59	
15	64QAM	1	0	20.51	20.50	20.43	
15	64QAM	1	37	20.46	20.36	20.39	20.5
15	64QAM	1	74	20.37	20.21	20.29	
15	64QAM	36	0	19.88	19.92	19.86	
15	64QAM	36	20	19.85	19.74	19.86	20.5
15	64QAM	36	39	19.82	19.80	19.72	
15	64QAM	75	0	19.88	19.90	19.82	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.43	21.66	21.54	22.5
10	QPSK	1	25	21.36	21.48	21.42	
10	QPSK	1	49	21.39	21.35	21.33	
10	QPSK	25	0	20.46	20.57	20.51	21.5
10	QPSK	25	12	20.35	20.39	20.40	
10	QPSK	25	25	20.27	20.32	20.22	
10	QPSK	50	0	20.16	20.22	20.15	21.5
10	16QAM	1	0	21.11	21.20	21.09	
10	16QAM	1	25	21.08	21.05	20.93	
10	16QAM	1	49	21.00	20.98	20.81	20.5
10	16QAM	25	0	19.79	19.95	19.87	
10	16QAM	25	12	19.77	19.78	19.85	
10	16QAM	25	25	19.72	19.69	19.79	21.5
10	16QAM	50	0	19.65	19.34	19.55	
10	64QAM	1	0	20.48	20.47	20.38	
10	64QAM	1	25	20.42	20.33	20.37	20.5
10	64QAM	1	49	20.34	20.17	20.24	
10	64QAM	25	0	19.83	19.88	19.82	
10	64QAM	25	12	19.82	19.70	19.81	21.5
10	64QAM	25	25	19.80	19.75	19.69	
10	64QAM	50	0	19.85	19.87	19.77	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.39	21.64	21.52	22.5
5	QPSK	1	12	21.33	21.44	21.38	
5	QPSK	1	24	21.35	21.31	21.28	
5	QPSK	12	0	20.42	20.55	20.48	21.5
5	QPSK	12	7	20.32	20.34	20.37	
5	QPSK	12	13	20.25	20.30	20.19	
5	QPSK	25	0	20.14	20.20	20.11	21.5
5	16QAM	1	0	21.08	21.15	21.07	
5	16QAM	1	12	21.04	21.01	20.89	
5	16QAM	1	24	20.98	20.95	20.77	20.5
5	16QAM	12	0	19.76	19.92	19.84	
5	16QAM	12	7	19.72	19.75	19.83	
5	16QAM	12	13	19.69	19.66	19.75	21.5
5	16QAM	25	0	19.61	19.30	19.51	
5	64QAM	1	0	20.45	20.45	20.34	
5	64QAM	1	12	20.40	20.28	20.32	20.5
5	64QAM	1	24	20.31	20.13	20.22	
5	64QAM	12	0	19.79	19.84	19.80	
5	64QAM	12	7	19.79	19.67	19.77	21.5
5	64QAM	12	13	19.77	19.71	19.67	
5	64QAM	25	0	19.81	19.84	19.72	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.39	21.62	21.52	22.5
3	QPSK	1	8	21.32	21.45	21.37	
3	QPSK	1	14	21.35	21.32	21.29	
3	QPSK	8	0	20.41	20.53	20.46	21.5
3	QPSK	8	4	20.31	20.36	20.36	
3	QPSK	8	7	20.22	20.29	20.19	

3	QPSK	15	0	20.11	20.18	20.10	21.5
3	16QAM	1	0	21.07	21.15	21.04	
3	16QAM	1	8	21.06	21.00	20.89	
3	16QAM	1	14	20.95	20.94	20.79	20.5
3	16QAM	8	0	19.75	19.90	19.83	
3	16QAM	8	4	19.74	19.73	19.81	
3	16QAM	8	7	19.70	19.64	19.75	21.5
3	16QAM	15	0	19.62	19.30	19.50	
3	64QAM	1	0	20.46	20.43	20.36	
3	64QAM	1	8	20.38	20.28	20.33	21.5
3	64QAM	1	14	20.30	20.13	20.21	
3	64QAM	8	0	19.81	19.83	19.79	
3	64QAM	8	4	19.79	19.65	19.79	20.5
3	64QAM	8	7	19.77	19.73	19.65	
3	64QAM	15	0	19.81	19.83	19.73	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.37	21.60	21.48	22.5
1.4	QPSK	1	3	21.28	21.41	21.34	
1.4	QPSK	1	5	21.32	21.28	21.25	
1.4	QPSK	3	0	20.37	20.50	20.43	
1.4	QPSK	3	1	20.27	20.31	20.32	
1.4	QPSK	3	3	20.19	20.24	20.15	21.5
1.4	QPSK	6	0	20.08	20.16	20.08	
1.4	16QAM	1	0	21.04	21.11	21.01	21.5
1.4	16QAM	1	3	21.03	20.95	20.87	
1.4	16QAM	1	5	20.91	20.89	20.74	
1.4	16QAM	3	0	19.72	19.86	19.78	
1.4	16QAM	3	1	19.71	19.69	19.78	
1.4	16QAM	3	3	19.67	19.62	19.73	20.5
1.4	16QAM	6	0	19.58	19.27	19.46	
1.4	64QAM	1	0	20.42	20.39	20.32	21.5
1.4	64QAM	1	3	20.34	20.23	20.29	
1.4	64QAM	1	5	20.26	20.08	20.17	
1.4	64QAM	3	0	19.79	19.80	19.76	
1.4	64QAM	3	1	19.75	19.62	19.75	
1.4	64QAM	3	3	19.72	19.66	19.60	20.5
1.4	64QAM	6	0	19.79	19.79	19.70	

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	11.86	12.50	8.00	98.78
		CH 7	2442	7.39	8.00	8.00	
		CH 13	2472	11.26	12.00	8.00	
	802.11g 6Mbps	CH 1	2412	10.50	11.00	9.00	91.19
		CH 7	2442	7.26	8.00	9.00	
		CH 13	2472	10.59	11.00	9.00	
	802.11n-HT20 MCS0	CH 1	2412	10.79	11.50	9.00	91.38
		CH 7	2442	7.80	8.50	9.00	
		CH 13	2472	10.20	11.00	9.00	
	802.11n-HT40 MCS0	CH 1	2412	10.79	11.50	9.00	82.29
		CH 7	2442	7.80	8.50	9.00	
		CH 13	2472	10.20	11.00	9.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	4.73	3.62	3.66
	CH 39	2441	6.60	5.42	5.53
	CH 78	2480	4.89	3.93	4.06
Tune-up Limit			7	6	6
Duty Cycle %			77.6	76.8	77.33

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-2.71
	CH 19	2440	-1.60
	CH 39	2480	-2.76
Tune-up Limit			-1
Duty Cycle %			32

Reduced Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	TX Channel	128	189		251	128	189		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	26.35	26.55	26.49	27.50	17.35	17.55	17.49	18.50	0.20
GPRS 1 Tx slot	26.38	26.50	26.44	27.50	17.38	17.50	17.44	18.50	
GPRS 2 Tx slots	24.23	24.35	24.26	25.00	18.23	18.35	18.26	19.00	0.12
GPRS 3 Tx slots	22.11	22.36	22.31	23.00	17.85	18.10	18.05	18.74	0.25
GPRS 4 Tx slots	20.09	20.18	20.18	20.50	17.09	17.18	17.18	17.50	0.09
EDGE 1 Tx slot	21.08	21.22	21.18	22.00	12.08	12.22	12.18	13.00	0.14
EDGE 2 Tx slots	20.04	20.28	20.22	21.00	14.04	14.28	14.22	15.00	0.24
EDGE 3 Tx slots	19.10	19.23	19.28	20.00	14.84	14.97	15.02	15.74	0.18
EDGE 4 Tx slots	18.10	18.25	18.24	19.00	15.10	15.25	15.24	16.00	0.15
Mode		Max.	26.55		Max.	18.35			
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
	TX Channel	512	661		810	512	661		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	20.73	21.04	20.91	22.00	11.73	12.04	11.91	13.00	0.35
GPRS 1 Tx slot	20.69	21.00	20.85	22.00	11.69	12.00	11.85	13.00	
GPRS 2 Tx slots	18.37	18.74	18.70	19.00	12.37	12.74	12.70	13.00	0.37
GPRS 3 Tx slots	17.57	17.85	17.70	18.50	13.31	13.59	13.44	14.24	0.28
GPRS 4 Tx slots	14.98	15.28	15.23	15.50	11.98	12.28	12.23	12.50	0.30
EDGE 1 Tx slot	16.75	17.14	16.99	17.50	7.75	8.14	7.99	8.50	0.39
EDGE 2 Tx slots	15.35	15.45	15.30	16.00	9.35	9.45	9.30	10.00	0.15
EDGE 3 Tx slots	14.64	14.73	14.63	15.50	10.38	10.47	10.37	11.24	0.10
EDGE 4 Tx slots	13.56	13.61	13.57	14.00	10.56	10.61	10.57	11.00	0.05
Mode		Max.	21.04		Max.	13.59			
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	RMC 12.2Kbps	18.07	18.19	18.14	19.00	17.71	17.76	17.65	19.00	18.01	18.03	17.99	19.00
3GPP Rel 6	HSDPA Subtest-1	17.62	16.56	16.53	18.00	17.60	16.50	17.70	18.50	16.18	16.52	16.23	17.00
3GPP Rel 6	HSDPA Subtest-2	17.28	16.23	16.21	13.00	17.55	16.49	17.64	18.00	15.95	16.21	15.94	17.00
3GPP Rel 6	HSDPA Subtest-3	17.46	16.46	16.41	18.00	17.54	16.51	17.63	18.00	15.65	15.89	15.64	16.50
3GPP Rel 6	HSDPA Subtest-4	17.15	16.13	16.09	18.00	17.57	16.53	17.65	18.00	15.56	15.81	15.56	16.50
3GPP Rel 6	HSUPA Subtest-1	17.58	16.61	16.54	18.00	17.57	16.53	17.66	18.00	16.90	17.06	16.76	17.50
3GPP Rel 6	HSUPA Subtest-2	17.59	16.56	16.49	18.00	17.53	16.47	17.63	18.00	16.92	17.06	16.72	17.50
3GPP Rel 6	HSUPA Subtest-3	17.54	16.58	16.50	18.00	17.58	16.51	17.62	18.00	16.92	16.95	16.73	17.50
3GPP Rel 6	HSUPA Subtest-4	17.59	16.55	16.48	18.00	17.56	16.46	17.63	18.00	16.88	17.07	16.70	17.50
3GPP Rel 6	HSUPA Subtest-5	17.58	16.59	16.52	18.00	17.57	16.51	17.64	18.00	16.93	16.99	16.73	17.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.54	16.60	16.55	18.00	17.55	16.54	17.63	18.00	16.93	16.85	16.76	17.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	18.19			Max.	17.76			Max.	18.03		

3	QPSK	15	0	12.24	12.40	12.22		
3	16QAM	1	0	12.26	12.50	12.32		
3	16QAM	1	8	12.20	12.32	12.13		
3	16QAM	1	14	12.15	12.20	12.03		
3	16QAM	8	0	11.73	11.72	11.63		
3	16QAM	8	4	11.70	11.55	11.45		
3	16QAM	8	7	11.58	11.45	11.38		
3	16QAM	15	0	11.52	11.38	11.29		
3	64QAM	1	0	12.15	12.31	12.08		
3	64QAM	1	8	11.95	12.14	11.96		
3	64QAM	1	14	11.94	12.10	11.85		
3	64QAM	8	0	11.55	11.49	11.39		
3	64QAM	8	4	11.52	11.36	11.34		
3	64QAM	8	7	11.40	11.28	11.25		
3	64QAM	15	0	11.33	11.11	11.17		
Channel				18607	18900	19193		Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	13.44	13.50	13.50		14.5
1.4	QPSK	1	3	13.40	13.37	13.38		
1.4	QPSK	1	5	13.28	13.21	13.25		
1.4	QPSK	3	0	12.61	12.64	12.57		
1.4	QPSK	3	1	12.43	12.50	12.34		
1.4	QPSK	3	3	12.34	12.44	12.33		
1.4	QPSK	6	0	12.24	12.41	12.22	13.5	
1.4	16QAM	1	0	12.27	12.49	12.34	13.5	
1.4	16QAM	1	3	12.19	12.31	12.11		
1.4	16QAM	1	5	12.14	12.22	12.06		
1.4	16QAM	3	0	11.72	11.73	11.66		
1.4	16QAM	3	1	11.70	11.53	11.45		
1.4	16QAM	3	3	11.61	11.44	11.39		
1.4	16QAM	6	0	11.53	11.40	11.30	12.5	
1.4	64QAM	1	0	12.15	12.32	12.09	13	
1.4	64QAM	1	3	11.95	12.14	11.97		
1.4	64QAM	1	5	11.93	12.08	11.87		
1.4	64QAM	3	0	11.55	11.49	11.42		
1.4	64QAM	3	1	11.51	11.34	11.34		
1.4	64QAM	3	3	11.40	11.28	11.25		
1.4	64QAM	6	0	11.34	11.09	11.18	12	

3	QPSK	15	0	13.90	13.90	13.84		
3	16QAM	1	0	14.50	14.61	14.45		
3	16QAM	1	8	14.39	14.38	14.47		
3	16QAM	1	14	14.38	14.29	14.41		
3	16QAM	8	0	13.33	13.36	13.41		
3	16QAM	8	4	13.25	13.30	13.40		
3	16QAM	8	7	13.31	13.30	13.37		
3	16QAM	15	0	13.24	13.26	13.39		
3	64QAM	1	0	14.05	14.30	14.27		
3	64QAM	1	8	13.92	14.10	14.11		
3	64QAM	1	14	13.86	14.01	14.04		
3	64QAM	8	0	13.29	13.39	13.37		
3	64QAM	8	4	13.24	13.18	13.24		
3	64QAM	8	7	13.30	13.24	13.29		
3	64QAM	15	0	13.20	13.15	13.14		
Channel				19957	20175	20393		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	15.05	15.12	14.99		16
1.4	QPSK	1	3	14.94	14.97	14.93		
1.4	QPSK	1	5	14.74	14.83	14.92		
1.4	QPSK	3	0	14.13	14.29	14.26		
1.4	QPSK	3	1	13.98	14.07	14.15		
1.4	QPSK	3	3	13.96	13.99	14.06		
1.4	QPSK	6	0	13.86	13.86	13.79	15	
1.4	16QAM	1	0	14.47	14.58	14.42	15	
1.4	16QAM	1	3	14.36	14.34	14.43		
1.4	16QAM	1	5	14.34	14.27	14.37		
1.4	16QAM	3	0	13.30	13.32	13.38		
1.4	16QAM	3	1	13.20	13.27	13.37		
1.4	16QAM	3	3	13.28	13.27	13.35		
1.4	16QAM	6	0	13.20	13.24	13.36	14	
1.4	64QAM	1	0	14.03	14.26	14.22	15	
1.4	64QAM	1	3	13.88	14.07	14.09		
1.4	64QAM	1	5	13.83	13.96	13.99		
1.4	64QAM	3	0	13.26	13.37	13.32		
1.4	64QAM	3	1	13.22	13.14	13.20		
1.4	64QAM	3	3	13.26	13.21	13.25		
1.4	64QAM	6	0	13.18	13.13	13.11	14	

Band 66

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	15.01	15.25	15.11	16
20	QPSK	1	49	14.93	15.05	14.97	
20	QPSK	1	99	14.97	14.90	14.91	
20	QPSK	50	0	14.01	14.14	14.08	15
20	QPSK	50	24	13.90	13.97	13.95	
20	QPSK	50	50	13.83	13.90	13.81	
20	QPSK	100	0	13.74	13.78	13.73	15
20	16QAM	1	0	14.68	14.77	14.66	
20	16QAM	1	49	14.63	14.64	14.50	
20	16QAM	1	99	14.58	14.52	14.39	15
20	16QAM	50	0	13.38	13.50	13.45	
20	16QAM	50	24	13.33	13.36	13.42	
20	16QAM	50	50	13.30	13.27	13.37	14
20	16QAM	100	0	13.20	12.89	13.11	
20	64QAM	1	0	14.03	14.05	13.97	
20	64QAM	1	49	13.98	13.90	13.92	15
20	64QAM	1	99	13.91	13.75	13.83	
20	64QAM	50	0	13.41	13.46	13.39	
20	64QAM	50	24	13.39	13.26	13.39	14
20	64QAM	50	50	13.37	13.33	13.26	
20	64QAM	100	0	13.40	13.42	13.35	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.97	15.21	15.08	16
15	QPSK	1	37	14.89	15.02	14.95	
15	QPSK	1	74	14.93	14.88	14.87	
15	QPSK	36	0	13.98	14.10	14.04	15
15	QPSK	36	20	13.88	13.93	13.92	
15	QPSK	36	39	13.80	13.87	13.76	
15	QPSK	75	0	13.69	13.75	13.69	15
15	16QAM	1	0	14.65	14.74	14.62	
15	16QAM	1	37	14.60	14.59	14.46	
15	16QAM	1	74	14.55	14.50	14.35	14
15	16QAM	36	0	13.34	13.47	13.41	
15	16QAM	36	20	13.29	13.31	13.38	
15	16QAM	36	39	13.26	13.23	13.32	15
15	16QAM	75	0	13.17	12.86	13.09	
15	64QAM	1	0	14.01	14.00	13.93	
15	64QAM	1	37	13.96	13.86	13.89	14
15	64QAM	1	74	13.87	13.71	13.79	
15	64QAM	36	0	13.38	13.42	13.36	
15	64QAM	36	20	13.35	13.24	13.36	15
15	64QAM	36	39	13.32	13.30	13.22	
15	64QAM	75	0	13.38	13.40	13.32	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.93	15.16	15.04	16
10	QPSK	1	25	14.86	14.98	14.92	
10	QPSK	1	49	14.89	14.85	14.83	
10	QPSK	25	0	13.96	14.07	14.01	15
10	QPSK	25	12	13.85	13.89	13.90	
10	QPSK	25	25	13.77	13.82	13.72	
10	QPSK	50	0	13.66	13.72	13.65	15
10	16QAM	1	0	14.61	14.70	14.59	
10	16QAM	1	25	14.58	14.55	14.43	
10	16QAM	1	49	14.50	14.48	14.31	14
10	16QAM	25	0	13.29	13.45	13.37	
10	16QAM	25	12	13.27	13.28	13.35	
10	16QAM	25	25	13.22	13.19	13.29	15
10	16QAM	50	0	13.15	12.84	13.05	
10	64QAM	1	0	13.98	13.97	13.88	
10	64QAM	1	25	13.92	13.83	13.87	14
10	64QAM	1	49	13.84	13.67	13.74	
10	64QAM	25	0	13.33	13.38	13.32	
10	64QAM	25	12	13.32	13.20	13.31	15
10	64QAM	25	25	13.30	13.25	13.19	
10	64QAM	50	0	13.35	13.37	13.27	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.89	15.14	15.02	16
5	QPSK	1	12	14.83	14.94	14.88	
5	QPSK	1	24	14.85	14.81	14.78	
5	QPSK	12	0	13.92	14.05	13.98	15
5	QPSK	12	7	13.82	13.84	13.87	
5	QPSK	12	13	13.75	13.80	13.69	
5	QPSK	25	0	13.64	13.70	13.61	15
5	16QAM	1	0	14.58	14.65	14.57	
5	16QAM	1	12	14.54	14.51	14.39	
5	16QAM	1	24	14.48	14.45	14.27	14
5	16QAM	12	0	13.26	13.42	13.34	
5	16QAM	12	7	13.22	13.25	13.33	
5	16QAM	12	13	13.19	13.16	13.25	15
5	16QAM	25	0	13.11	12.80	13.01	
5	64QAM	1	0	13.95	13.95	13.84	
5	64QAM	1	12	13.90	13.78	13.82	14
5	64QAM	1	24	13.81	13.63	13.72	
5	64QAM	12	0	13.29	13.34	13.30	
5	64QAM	12	7	13.29	13.17	13.27	15
5	64QAM	12	13	13.27	13.21	13.17	
5	64QAM	25	0	13.31	13.34	13.22	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.89	15.12	15.02	16
3	QPSK	1	8	14.82	14.95	14.87	
3	QPSK	1	14	14.85	14.82	14.79	
3	QPSK	8	0	13.91	14.03	13.96	15
3	QPSK	8	4	13.81	13.86	13.86	
3	QPSK	8	7	13.72	13.79	13.69	

3	QPSK	15	0	13.61	13.68	13.60	
3	16QAM	1	0	14.57	14.65	14.54	
3	16QAM	1	8	14.56	14.50	14.39	15
3	16QAM	1	14	14.45	14.44	14.29	
3	16QAM	8	0	13.25	13.40	13.33	
3	16QAM	8	4	13.24	13.23	13.31	14
3	16QAM	8	7	13.20	13.14	13.25	
3	16QAM	15	0	13.12	12.80	13.00	
3	64QAM	1	0	13.96	13.93	13.86	15
3	64QAM	1	8	13.88	13.78	13.83	
3	64QAM	1	14	13.80	13.63	13.71	
3	64QAM	8	0	13.31	13.33	13.29	
3	64QAM	8	4	13.29	13.15	13.29	14
3	64QAM	8	7	13.27	13.23	13.15	
3	64QAM	15	0	13.31	13.33	13.23	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.87	15.10	14.98	
1.4	QPSK	1	3	14.78	14.91	14.84	
1.4	QPSK	1	5	14.82	14.78	14.75	16
1.4	QPSK	3	0	13.87	14.00	13.93	
1.4	QPSK	3	1	13.77	13.81	13.82	
1.4	QPSK	3	3	13.69	13.74	13.65	
1.4	QPSK	6	0	13.58	13.66	13.58	15
1.4	16QAM	1	0	14.54	14.61	14.51	
1.4	16QAM	1	3	14.53	14.45	14.37	
1.4	16QAM	1	5	14.41	14.39	14.24	15
1.4	16QAM	3	0	13.22	13.36	13.28	
1.4	16QAM	3	1	13.21	13.19	13.28	
1.4	16QAM	3	3	13.17	13.12	13.23	
1.4	16QAM	6	0	13.08	12.77	12.96	14
1.4	64QAM	1	0	13.92	13.89	13.82	
1.4	64QAM	1	3	13.84	13.73	13.79	
1.4	64QAM	1	5	13.76	13.58	13.67	15
1.4	64QAM	3	0	13.29	13.30	13.26	
1.4	64QAM	3	1	13.25	13.12	13.25	
1.4	64QAM	3	3	13.22	13.18	13.10	
1.4	64QAM	6	0	13.29	13.29	13.20	14