

Appendix A:Conducted Power Measurement Results-GSM

GSM850		Burst Average Power (dBm)			Tune-up limit (dBm)	Division Factors	Frame-Average Power (dBm)			Tune-up limit (dBm)
		CH128	CH190	CH251			CH128	CH190	CH251	
		824.2MHz	836.6MHz	848.8MHz			824.2MHz	836.6MHz	848.8MHz	
GSM		31.91	31.96	32.03	32.50	-9.03	22.88	22.93	23.00	23.47
GPRS (GMSK)	1Tx slot	31.88	31.77	31.82	32.00	-9.03	22.85	22.74	22.79	22.97
	2Tx slots	31.46	31.52	31.48	32.00	-6.02	25.44	25.50	25.46	25.98
	3Tx slots	30.12	30.14	30.22	30.50	-4.26	25.86	25.88	25.96	26.24
	4Tx slots	28.59	28.62	28.70	29.00	-3.01	25.58	25.61	25.69	25.99
EGPRS (8PSK)	1Tx slot	26.57	26.38	25.78	27.00	-9.03	17.54	17.35	16.75	17.97
	2Tx slots	26.20	26.04	25.91	26.50	-6.02	20.18	20.02	19.89	20.48
	3Tx slots	24.73	24.44	24.00	25.00	-4.26	20.47	20.18	19.74	20.74
	4Tx slots	23.28	23.19	22.58	23.50	-3.01	20.27	20.18	19.57	20.49

GSM1900		Burst Average Power (dBm)			Tune-up limit (dBm)	Division Factors	Frame-Average Power (dBm)			Tune-up limit (dBm)
		CH512	CH661	CH810			CH512	CH661	CH810	
		1850.2MHz	1880MHz	1909.8MHz			1850.2MHz	1880.0MHz	1909.8MHz	
GSM		31.91	31.96	32.03	32.50	-9.03	22.88	22.93	23.00	23.47
GPRS (GMSK)	1Tx slot	28.80	29.08	29.21	29.50	-9.03	19.77	20.05	20.18	20.47
	2Tx slots	27.99	28.34	28.53	29.00	-6.02	21.97	22.32	22.51	22.98
	3Tx slots	26.26	26.61	26.82	27.00	-4.26	22.00	22.35	22.56	22.74
	4Tx slots	25.22	25.58	25.79	26.00	-3.01	22.21	22.57	22.78	22.99
EGPRS (8PSK)	1Tx slot	25.86	25.46	25.08	26.00	-9.03	16.83	16.43	16.05	16.97
	2Tx slots	25.12	25.01	24.88	25.50	-6.02	19.10	18.99	18.86	19.48
	3Tx slots	23.34	23.37	22.93	23.50	-4.26	19.08	19.11	18.67	19.24
	4Tx slots	21.76	21.80	21.56	22.00	-3.01	18.75	18.79	18.55	18.99

Appendix A:Conducted Power Measurement Results-WCDMA

WCDMA Band II		Conducted Power (dBm)			Tune-up limit (dBm)
		CH9262	CH9400	CH9538	
		1852.4MHz	1880MHz	1907.6MHz	
AMR 12.2K		21.05	21.11	21.05	21.50
RMC 12.2K		21.08	21.14	21.08	21.50
HSDPA	Subtest-1	20.08	20.18	20.15	20.50
	Subtest-2	19.60	19.62	19.62	20.00
	Subtest-3	19.60	19.65	19.68	20.00
	Subtest-4	19.63	19.66	19.65	20.00
HSUPA	Subtest-1	18.02	18.16	18.10	18.50
	Subtest-2	18.54	18.70	18.60	19.00
	Subtest-3	19.07	19.21	19.18	19.50
	Subtest-4	18.12	18.16	18.16	18.50
	Subtest-5	20.12	20.17	20.14	20.50

WCDMA Band V		Conducted Power (dBm)			Tune-up limit (dBm)
		CH4132	CH4183	CH4233	
		826.4MHz	836.6MHz	846.6MHz	
AMR 12.2K		22.17	22.77	22.70	23.00
RMC 12.2K		22.20	22.80	22.73	23.00
HSDPA	Subtest-1	21.16	21.70	21.67	22.00
	Subtest-2	20.65	21.19	21.19	21.50
	Subtest-3	20.70	21.25	21.20	21.50
	Subtest-4	20.65	21.21	21.19	21.50
HSUPA	Subtest-1	19.19	19.70	19.68	20.00
	Subtest-2	19.69	20.16	20.12	20.50
	Subtest-3	20.19	20.69	20.69	21.00
	Subtest-4	19.20	19.76	19.71	20.00
	Subtest-5	21.20	21.71	21.70	22.00

Appendix A:Conducted Power Measurement Results-LTE

LTE-FDD Band 4				Conducted Power (dBm)			Tune-up Limit(dBm)	
Band-width(MHz)	Modulation	RB allocation	RB offset	Low	Middle	High		
1.4	QPSK	1	0	24.10	24.17	24.08	24.50	
			2	24.24	24.26	24.24		
			5	24.06	24.14	24.07		
		3	0	24.19	24.26	24.14	24.50	
			1	24.12	24.22	24.15		
			3	24.14	24.22	24.19		
	6	0	23.11	23.20	23.18	23.50		
	16QAM	1	0	23.15	23.26	23.20	23.50	
			2	23.36	23.43	23.34		
			5	23.15	23.30	23.17		
		3	0	23.03	23.18	23.04	23.50	
			1	23.03	23.12	23.04		
			3	23.02	23.09	23.07		
	6	0	22.14	22.22	22.06	22.50		
	3	QPSK	1	0	24.21	24.29	24.14	24.50
				8	24.24	24.25	24.16	
				14	24.20	24.24	24.13	
			8	0	23.24	23.29	23.28	23.50
4				23.27	23.30	23.29		
7				23.26	23.30	23.25		
15		0	23.24	23.25	23.21	23.50		
16QAM		1	0	23.38	23.18	23.38	23.50	
			8	23.36	23.12	23.34		
			14	23.33	23.17	23.32		
		8	0	22.25	22.32	22.29	22.50	
			4	22.24	22.32	22.31		
			7	22.23	22.29	22.24		
15		0	22.14	22.20	22.23	22.50		
5		QPSK	1	0	24.13	24.23	24.13	24.50
				12	24.27	24.35	24.24	
				24	24.16	24.22	24.13	
			12	0	23.20	23.22	23.27	23.50
	6			23.20	23.22	23.26		
	13			23.22	23.26	23.17		
	25	0	23.19	23.26	23.24	23.50		
	16QAM	1	0	23.30	23.22	23.15	23.50	
			12	23.47	23.33	23.24		
			24	23.34	23.26	23.15		
		12	0	22.19	22.27	22.24	22.50	
			6	22.22	22.26	22.24		
			13	22.26	22.29	22.17		
	25	0	22.20	22.32	22.26	22.50		
	10	QPSK	1	0	24.12	24.19	24.09	24.50
				24	24.24	24.35	24.24	
				49	24.17	24.19	24.14	
			25	0	23.28	23.22	23.35	23.50
12				23.30	23.24	23.37		
25				23.29	23.31	23.19		
50		0	23.29	23.26	23.25	23.50		
16QAM		1	0	23.27	23.15	23.27	23.50	
			24	23.44	23.23	23.43		
			49	23.32	23.16	23.36		
		25	0	22.30	22.28	22.31	22.50	
			12	22.26	22.28	22.31		
			25	22.32	22.39	22.17		
50		0	22.28	22.27	22.24	22.50		

Appendix A:Conducted Power Measurement Results-LTE

15	QPSK	1	0	24.07	24.18	24.08	24.50
			38	24.24	24.27	24.22	
			74	24.13	24.19	23.58	
		38	0	23.37	23.08	23.32	24.00
			18	23.54	23.20	23.41	
			37	23.43	23.08	23.33	
	75	0	23.38	23.34	23.40	23.50	
	16QAM	1	0	23.32	23.11	23.29	23.50
			38	23.48	23.22	23.37	
			74	23.43	23.11	23.31	
		38	0	23.34	23.11	23.30	24.00
			18	23.53	23.23	23.39	
37			23.49	23.12	23.29		
75	0	22.32	22.28	22.34	22.50		
20	QPSK	1	0	24.06	24.04	24.06	25.00
			49	24.47	24.29	24.51	
			99	24.13	24.00	24.17	
		50	0	23.35	23.21	23.33	23.50
			25	23.36	23.20	23.34	
			50	23.40	23.36	23.23	
	100	0	23.42	23.23	23.24	23.50	
	16QAM	1	0	23.15	23.08	23.13	24.00
			49	23.58	23.40	23.47	
			99	23.32	23.13	23.24	
		50	0	22.40	22.24	22.34	22.50
			25	22.40	22.23	22.31	
			50	22.42	22.42	22.21	
	100	0	22.39	22.27	22.24	22.50	

Appendix A:Conducted Power Measurement Results-LTE

LTE-FDD Band 7				Conducted Power (dBm)			Tune-up Limit(dBm)	
Band-width(MHz)	Modulation	RB allocation	RB offset	Low	Middle	High		
5	QPSK	1	0	20.23	20.63	20.13	21.00	
			12	20.38	20.83	20.33		
			24	20.24	20.68	20.29		
		12	0	19.33	19.75	20.25	20.50	
			6	19.31	19.72	20.28		
			13	19.34	19.78	20.29		
		25	0	19.36	19.78	20.31	20.50	
		16QAM	1	0	19.24	19.79	19.08	20.00
				12	19.35	19.00	19.31	
	24			19.24	19.87	19.22		
	12		0	18.25	18.79	18.92	19.00	
			6	18.28	18.76	18.57		
			13	18.32	18.79	18.72		
	25	0	18.34	18.75	19.34	19.50		
	10	QPSK	1	0	21.35	21.81	21.18	22.00
24				21.26	21.04	21.45		
49				21.48	21.29	21.46		
25			0	19.46	19.93	19.45	20.00	
			12	19.47	19.98	19.50		
			25	19.64	19.42	19.13		
50			0	19.55	19.95	20.43	20.50	
16QAM			1	0	19.48	19.68	19.27	20.00
				24	19.70	19.95	19.62	
		49		19.50	19.82	19.53		
		25	0	18.49	19.00	19.45	19.50	
			12	18.51	18.99	19.45		
			25	18.65	19.06	19.41		
50		0	18.56	18.95	19.39	19.50		
15		QPSK	1	0	20.47	20.79	21.21	21.50
	38			20.64	21.05	21.37		
	74			20.65	21.01	21.39		
	38		0	19.72	19.64	20.19	21.00	
			18	19.81	19.67	20.50		
			37	19.72	19.90	20.55		
	75		0	19.73	20.12	20.54	21.00	
	16QAM		1	0	19.72	19.70	20.22	21.00
				38	19.78	19.99	20.49	
		74		19.69	19.59	20.52		
		38	0	19.72	19.68	20.22	21.00	
			18	19.80	19.95	20.50		
			37	19.71	19.91	20.54		
	75	0	18.67	19.06	19.41	19.50		
	20	QPSK	1	0	19.91	20.20	20.89	21.00
49				20.47	20.70	20.48		
99				20.19	20.81	20.31		
50			0	18.98	19.95	19.35	20.00	
			25	18.96	19.90	19.18		
			50	19.18	19.90	19.33		
100			0	19.08	19.83	19.23	20.00	
16QAM			1	0	19.01	19.18	19.80	20.00
				49	19.36	19.84	19.38	
		99		19.11	19.89	19.28		
		50	0	18.14	18.95	18.56	19.00	
			25	18.06	18.90	18.89		
			50	18.14	18.56	18.67		
100		0	19.04	19.52	19.13	20.00		

Appendix A:Conducted Power Measurement Results-LTE

LTE-FDD Band 17				Conducted Power (dBm)			Tune-up Limit(dBm)	
Band-width(MHz)	Modulation	RB allocation	RB offset	Low	Middle	High		
5	QPSK	1	0	23.36	23.37	23.40	24.00	
			12	23.50	23.50	23.55		
			24	23.31	23.37	23.35		
		12	0	22.33	22.41	22.63	23.00	
			6	22.32	22.40	22.36		
			13	22.50	22.23	22.63		
		25	0	22.47	22.37	22.33	22.50	
		16QAM	1	0	22.58	22.32	22.42	23.00
				12	22.67	22.48	22.54	
	24			22.52	22.39	22.30		
	12		0	21.33	21.42	21.61	22.00	
			6	21.35	21.43	21.33		
			13	21.52	21.29	21.62		
	25	0	21.48	21.39	20.69	21.50		
	10	QPSK	1	0	23.87	23.90	23.85	24.00
24				23.89	23.72	23.60		
49				23.89	23.46	23.40		
25			0	22.71	22.48	22.46	23.00	
			12	22.70	22.75	22.86		
			25	22.62	22.63	22.49		
50			0	22.64	22.41	22.41	23.00	
16QAM			1	0	23.07	22.99	22.32	23.50
				24	23.07	22.91	22.45	
		49		23.00	22.54	22.31		
		25	0	21.62	21.71	21.62	22.00	
			12	21.65	21.77	21.97		
			25	21.58	21.25	21.37		
		50	0	21.54	21.59	21.41	22.00	

Appendix A:Conducted Power Measurement Results-WiFi/Bluetooth

WIFI 2.4G					
Mode	Channel	Frequency (MHz)	Peak Power (dBm)	Average Power (dBm)	Tune-up limit (dBm)
802.11b 1Mbps	1	2412	15.38	12.97	13.00
	6	2437	15.71	13.26	13.50
	11	2462	15.21	12.80	13.00
802.11g 6Mbps	1	2412	15.33	12.72	13.00
	6	2437	15.81	13.16	13.50
	11	2462	15.04	12.42	12.50
802.11n (HT20) MCS0	1	2412	15.20	12.20	12.50
	6	2437	15.79	13.60	14.00
	11	2462	14.85	12.26	12.50
802.11n (HT40) MCS0	3	2422	15.87	13.26	13.50
	6	2437	15.62	13.08	13.50
	9	2452	15.93	13.28	13.50

WIFI 5G U-NII-1					
Bandwidth	Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up limit (dBm)
20	802.11ac	36	5180	11.03	11.50
		44	5220	10.67	11.00
		48	5240	11.08	11.50
	802.11n	36	5180	10.79	11.00
		44	5220	10.43	10.50
		48	5240	11.03	11.50
	802.11a	36	5180	10.99	11.00
		44	5220	10.60	11.00
		48	5240	11.15	11.50
40	802.11ac	38	5190	10.65	11.00
		46	5230	10.77	11.00
	802.11n	38	5190	10.78	11.00
		46	5230	10.94	11.00
80	802.11ac	42	5210	10.68	11.00

Appendix A:Conducted Power Measurement Results-WiFi/Bluetooth

WIFI 5G U-NII-3					
Bandwidth	Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up limit (dBm)
20	802.11ac	149	5745	11.79	12.00
		157	5785	11.13	11.50
		165	5825	10.87	11.00
	802.11n	149	5745	11.92	12.00
		157	5785	11.26	11.50
		165	5825	10.93	11.00
	802.11a	149	5745	11.95	12.00
		157	5785	11.25	11.50
		165	5825	10.95	11.00
40	802.11ac	151	5755	11.63	12.00
		159	5795	11.02	11.50
	802.11n	151	5755	11.63	12.00
		159	5795	11.04	11.50
80	802.11ac	155	5775	11.35	11.50

Bluetooth						
Mode	Channel	Frequency (MHz)	Peak Power (dBm)	Average Power (dBm)	Tune-up limit (dBm)	
EDR	GFSK	0	2402	6.92	6.90	7.00
		39	2441	6.76	6.68	7.00
		78	2480	6.31	6.24	6.50
	$\pi/4$ QPSK	0	2402	6.77	6.67	7.00
		39	2441	6.38	6.30	6.50
		78	2480	5.72	5.63	6.00
	8DPSK	0	2402	6.76	6.69	7.00
		39	2441	6.39	6.31	6.50
		78	2480	5.72	5.63	6.00
BLE	GFSK	0	2402	-6.16	-6.24	-6.00
		19	2440	-5.77	-5.86	-5.50
		39	2480	-5.52	-5.61	-5.50