



Report No.: SEWM2302000052RG02

Rev.: 01

Page: 1 of 4

Appendix B.1

GSM 850 & 1900



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Effective (Isotropic) Radiated Power Output Data

Test for spot check:

Test Result

Band	Channel	Conducted Power (dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GSM850	128	32.22	29.39	38.5	PASS
GSM850	190	32.33	29.50	38.5	PASS
GSM850	251	31.94	29.11	38.5	PASS
GSM1900	512	29.02	30.63	33	PASS
GSM1900	661	29.01	30.62	33	PASS
GSM1900	810	29.00	30.61	33	PASS



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Field Strength of Spurious Radiation

Test for spot check:

Test Band = GSM850

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1673	72.26	-48.32	25.56	-45.75	-13.00	32.75	296	273	Horizontal
2	2509	63.35	-46.79	27.93	-50.76	-13.00	37.76	265	229	Horizontal
3	3345.5	56.30	-46.19	29.46	-55.69	-13.00	42.69	284	0	Horizontal
4	4182	48.23	-45.16	30.89	-61.30	-13.00	48.30	142	0	Horizontal
5	5018.4	40.89	-44.93	32.60	-66.70	-13.00	53.70	254	259	Horizontal
6	5854.8	42.26	-43.34	33.74	-62.60	-13.00	49.60	142	185	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3345.5	58.19	-46.19	29.46	-53.80	-13.00	40.80	102	13	Vertical
2	4182.5	50.66	-45.16	30.89	-58.87	-13.00	45.87	185	234	Vertical
3	1672.8	74.98	-48.32	25.56	-43.03	-13.00	30.03	296	264	Vertical
4	2509.2	60.50	-46.79	27.93	-53.62	-13.00	40.62	265	174	Vertical
5	5018.4	42.55	-44.93	32.60	-65.04	-13.00	52.04	263	307	Vertical
6	5854.8	43.95	-43.34	33.74	-60.91	-13.00	47.91	255	234	Vertical



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Test Band = GSM 1900

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	42.91	-45.54	30.03	-67.86	-13.00	54.86	189	166	Horizontal
2	5640	40.73	-43.81	33.05	-65.29	-13.00	52.29	233	282	Horizontal
3	7520	38.94	-41.53	36.54	-61.31	-13.00	48.31	286	353	Horizontal
4	9400	35.32	-38.16	38.56	-59.54	-13.00	46.54	147	215	Horizontal
5	11280	30.93	-35.28	39.32	-60.29	-13.00	47.29	196	148	Horizontal
6	13160	30.63	-34.68	39.70	-59.61	-13.00	46.61	225	3	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	43.06	-45.54	30.03	-67.71	-13.00	54.71	192	4	Vertical
2	5640	41.38	-43.81	33.05	-64.64	-13.00	51.64	217	358	Vertical
3	7520	38.93	-41.53	36.54	-61.32	-13.00	48.32	166	99	Vertical
4	9400	35.63	-38.16	38.56	-59.23	-13.00	46.23	258	4	Vertical
5	11280	31.21	-35.28	39.32	-60.01	-13.00	47.01	283	279	Vertical
6	13160	30.79	-34.68	39.70	-59.45	-13.00	46.45	242	279	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

