Appendix B: Test Results of Radiated Spurious Emissions

Worst Mode 30MHz ~ 1000MHz

LTE Band 2											
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor	Cable Factor	Pre-Amplifier	Correction Factor (dB/m)
Low	Horizontal										
	101	-66.42	-13	-53.42	214	360	39.34	15.48	0.78	26.76	-105.76
	261	-73.71	-13	-60.71	300	238	27.63	18.77	1.23	26.08	-101.34
	403	-68.98	-13	-55.98	200	360	29.17	22.27	1.56	26.72	-98.15
	557	-67.27	-13	-54.27	100	257	28.07	25.55	1.86	27.49	-95.34
	709	-62.85	-13	-49.85	155	360	30.22	27.6	2.08	27.49	-93.07
	919	-60.92	-13	-47.92	300	275	29.19	29.89	2.37	27.11	-90.11
	Vertical										
	101	-64.61	-13	-51.61	300	100	41.15	15.48	0.78	26.76	-105.76
	222	-71.04	-13	-58.04	100	37	32.3	16.98	1.14	26.2	-103.34
	395	-69.77	-13	-56.77	200	165	28.33	22.29	1.54	26.67	-98.1
	557	-65.97	-13	-52.97	156	360	29.37	25.55	1.86	27.49	-95.34
	736	-62.76	-13	-49.76	100	55	30.04	27.79	2.12	27.45	-92.8
	912	-61.79	-13	-48.79	200	89	28.47	29.75	2.37	27.12	-90.26

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre Amp(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit
4. The other EIRP levels were very low against the limit.

1GHz ~ 18GHz

LTE Band 2											
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor	Cable Factor	Pre-Amplifier	Correction Factor (dB/m)
Low	Horizontal										
	3702	-59.79	-13	-46.79	368	360	45.47	33.6	7.57	51.17	-105.26
	5553	-36.34	-13	-23.34	300	270	66.19	35.1	9.35	51.72	-102.53
	7405	-54.59	-13	-41.59	300	360	46.35	35.9	10.85	52.43	-100.94
	Vertical										
	3702	-52.87	-13	-39.87	200	276	52.39	33.6	7.57	51.17	-105.26
	5553	-40.83	-13	-27.83	200	344	61.7	35.1	9.35	51.72	-102.53
	7405	-55.32	-13	-42.32	200	278	45.62	35.9	10.85	52.43	-100.94
Mid	Horizontal										
	3742	-52.94	-13	-39.94	391	360	52.29	33.6	7.6	51.17	-105.23
	5613	-52.48	-13	-39.48	218	360	50.04	35.1	9.4	51.76	-102.52
	7484	-55.29	-13	-42.29	200	360	45.53	35.97	10.91	52.44	-100.82
	Vertical										
	3742	-50.7	-13	-37.7	300	270	54.53	33.6	7.6	51.17	-105.23
	5613	-45.92	-13	-32.92	100	86	56.6	35.1	9.4	51.76	-102.52
	7484	-55.95	-13	-42.95	100	241	44.87	35.97	10.91	52.44	-100.82
High	Horizontal										
	3782	-55.1	-13	-42.1	400	169	50.02	33.66	7.65	51.17	-105.12
	5673	-43.84	-13	-30.84	300	24	58.75	35.01	9.46	51.8	-102.59
	7565	-53.61	-13	-40.61	100	360	47.06	36.1	10.97	52.48	-100.67
	Vertical										
	3782	-50.48	-13	-37.48	400	279	54.64	33.66	7.65	51.17	-105.12
	5673	-39.08	-13	-26.08	300	302	63.51	35.01	9.46	51.8	-102.59
	7565	-52.77	-13	-39.77	200	29	47.9	36.1	10.97	52.48	-100.67

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre Amp(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit
4. The other EIRP levels were very low against the limit.