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Appendix B.7

LTE Band 14



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Effective (Isotropic) Radiated Power Output Data**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	22.6	22.55	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	22.7	22.65	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.49	22.44	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	21.61	21.56	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.62	22.57	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.65	22.6	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.66	22.61	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	21.6	21.55	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.64	22.59	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	22.66	22.61	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.72	22.67	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	21.68	21.63	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	21.85	21.8	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	21.85	21.8	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	21.63	21.58	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	20.65	20.6	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.84	21.79	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	21.71	21.66	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.79	21.74	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	20.55	20.5	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	21.79	21.74	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	21.91	21.86	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.84	21.79	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	20.59	20.54	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	22.9	22.85	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	22.57	22.52	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.84	22.79	34.77	PASS



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Band14	10MHz	QPSK	23330	50RB#0	21.63	21.58	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.18	22.13	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	21.82	21.77	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.18	22.13	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	20.59	20.54	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 14_10MHz_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	70.10	-48.51	25.58	-48.10	-40.00	8.10	139	360	Horizontal
2	2365.77	60.29	-47.60	27.63	-54.94	-13.00	41.94	186	175	Horizontal
3	3154.36	43.37	-46.39	29.54	-68.74	-13.00	55.74	224	153	Horizontal
4	3942.95	41.68	-45.52	30.46	-68.63	-13.00	55.63	193	326	Horizontal
5	4731.54	42.01	-44.57	31.96	-65.86	-13.00	52.86	286	190	Horizontal
6	5520.13	41.43	-43.76	32.67	-64.92	-13.00	51.92	204	186	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	1577.18	67.87	-48.51	25.58	-50.33	-40.00	10.33	178	357	Vertical
2	2365.77	61.28	-47.60	27.63	-53.95	-13.00	40.95	245	360	Vertical
3	3154.36	44.82	-46.39	29.54	-67.29	-13.00	54.29	196	188	Vertical
4	3942.95	41.84	-45.52	30.46	-68.47	-13.00	55.47	225	251	Vertical
5	4731.54	41.84	-44.57	31.96	-66.03	-13.00	53.03	137	342	Vertical
6	5520.13	41.27	-43.76	32.67	-65.08	-13.00	52.08	152	0	Vertical



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Test Band = LTE Band 14_5MHz_ TM1
Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2364.8889	59.84	-47.60	27.63	-55.39	-13.00	42.39	185	160	Horizontal
2	1576.68	68.00	-48.51	25.58	-50.20	-40.00	10.20	147	357	Horizontal
3	3153.36	43.61	-46.39	29.54	-68.51	-13.00	55.51	169	357	Horizontal
4	3941.7	41.49	-45.52	30.46	-68.83	-13.00	55.83	235	295	Horizontal
5	4730.04	41.66	-44.57	31.95	-66.22	-13.00	53.22	224	346	Horizontal
6	5518.38	41.09	-43.76	32.66	-65.27	-13.00	52.27	146	360	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	1576.68	67.90	-48.51	25.58	-50.30	-40.00	10.30	255	352	Vertical
2	2365.02	58.17	-47.60	27.63	-57.06	-13.00	44.06	174	108	Vertical
3	3153.36	43.96	-46.39	29.54	-68.16	-13.00	55.16	169	158	Vertical
4	3941.7	41.75	-45.52	30.46	-68.57	-13.00	55.57	228	95	Vertical
5	4730.04	42.30	-44.57	31.95	-65.58	-13.00	52.58	238	62	Vertical
6	5518.38	41.24	-43.76	32.66	-65.12	-13.00	52.12	253	0	Vertical



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Test Band = LTE Band 14_5MHz_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.7778	68.50	-48.51	25.58	-49.69	-40.00	9.69	215	360	Horizontal
2	2372.4444	60.93	-47.60	27.64	-54.29	-13.00	41.29	147	173	Horizontal
3	3163.36	44.79	-46.37	29.53	-67.30	-13.00	54.30	196	3	Horizontal
4	3954.2	41.21	-45.51	30.49	-69.07	-13.00	56.07	138	68	Horizontal
5	4745.04	41.96	-44.58	31.99	-65.89	-13.00	52.89	255	315	Horizontal
6	5535.88	41.38	-43.74	32.72	-64.91	-13.00	51.91	168	107	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	1581.7778	66.56	-48.51	25.58	-51.63	-40.00	11.63	215	296	Vertical
2	2372.4444	61.41	-47.60	27.64	-53.81	-13.00	40.81	226	360	Vertical
3	3163.36	46.50	-46.37	29.53	-65.59	-13.00	52.59	286	174	Vertical
4	3954.2	40.92	-45.51	30.49	-69.36	-13.00	56.36	196	313	Vertical
5	4745.04	42.09	-44.58	31.99	-65.76	-13.00	52.76	136	314	Vertical
6	5535.88	41.96	-43.74	32.72	-64.33	-13.00	51.33	168	280	Vertical



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Test Band = LTE Band 14_5MHz_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6667	69.02	-48.52	25.59	-49.17	-40.00	9.17	168	357	Horizontal
2	2380	61.03	-47.60	27.66	-54.17	-13.00	41.17	305	171	Horizontal
3	3173.36	43.21	-46.34	29.53	-68.86	-13.00	55.86	229	173	Horizontal
4	3966.7	41.92	-45.51	30.52	-68.33	-13.00	55.33	236	344	Horizontal
5	4760.04	41.63	-44.59	32.03	-66.19	-13.00	53.19	145	359	Horizontal
6	5553.38	41.31	-43.73	32.77	-64.90	-13.00	51.90	296	46	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	1586.6667	68.11	-48.52	25.59	-50.08	-40.00	10.08	187	330	Vertical
2	2380	63.18	-47.60	27.66	-52.02	-13.00	39.02	256	108	Vertical
3	3173.36	44.86	-46.34	29.53	-67.21	-13.00	54.21	234	174	Vertical
4	3966.7	41.90	-45.51	30.52	-68.35	-13.00	55.35	152	204	Vertical
5	4760.04	42.34	-44.59	32.03	-65.48	-13.00	52.48	149	312	Vertical
6	5553.38	41.57	-43.73	32.77	-64.64	-13.00	51.64	216	280	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---



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