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Appendix B.3

LTE Band 5



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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
Band5	1.4MHz	QPSK	20407	1RB#0	22.44	22.29	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.6	22.45	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.41	22.26	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.47	21.32	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.71	22.56	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.79	22.64	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.69	22.54	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.61	21.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.87	22.72	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.81	22.66	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.85	22.7	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.79	21.64	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.76	21.61	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.87	21.72	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.68	21.53	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.61	20.46	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.85	21.7	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.98	21.83	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.9	21.75	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.74	20.59	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.27	22.12	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.24	22.09	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.22	22.07	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.92	20.77	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.53	22.38	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.52	22.37	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.43	22.28	38.45	PASS



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Band5	3MHz	QPSK	20415	15RB#0	21.42	21.27	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.68	22.53	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.7	22.55	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.74	22.59	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.75	21.6	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.99	22.84	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.02	22.87	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.91	22.76	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.92	21.77	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.75	21.6	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.66	21.51	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.69	21.54	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.45	20.3	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.02	21.87	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.04	21.89	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.07	21.92	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.74	20.59	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.33	22.18	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.43	22.28	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.26	22.11	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.01	20.86	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.51	22.36	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.48	22.33	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.45	22.3	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.49	21.34	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.78	22.63	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.72	22.57	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.84	22.69	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.74	21.59	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.94	22.79	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.98	22.83	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.04	22.89	38.45	PASS



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Band5	5MHz	QPSK	20625	25RB#0	21.94	21.79	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.73	21.58	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.74	21.59	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.71	21.56	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.58	20.43	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.96	21.81	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.97	21.82	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.08	21.93	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.66	20.51	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.17	22.02	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.23	22.08	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.35	22.2	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.02	20.87	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.81	22.66	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.5	22.35	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.75	22.6	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.54	21.39	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.91	22.76	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.68	22.53	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.11	22.96	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.9	21.75	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.07	22.92	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.07	22.92	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.35	23.2	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.17	22.02	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.91	21.76	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.65	21.5	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.95	21.8	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.43	20.28	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.23	22.08	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.92	21.77	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.27	22.12	38.45	PASS



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Band5	10MHz	16QAM	20525	50RB#0	20.98	20.83	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.36	22.21	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.15	22	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.57	22.42	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.06	20.91	38.45	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_10MHz_ 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	1649	68.78	-48.38	25.58	-49.29	-13.00	36.29	147	353	Horizontal
2	2473.5	59.19	-46.97	27.85	-55.19	-13.00	42.19	198	91	Horizontal
3	3298.36	42.97	-46.11	29.48	-68.92	-13.00	55.92	236	237	Horizontal
4	4122.95	46.90	-45.34	30.80	-62.90	-13.00	49.90	185	282	Horizontal
5	4947.54	41.11	-45.08	32.48	-66.76	-13.00	53.76	229	102	Horizontal
6	5772.13	38.55	-43.52	33.47	-66.76	-13.00	53.76	258	123	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	1649	63.76	-48.38	25.58	-54.31	-13.00	41.31	196	303	Vertical
2	2474	61.29	-46.96	27.85	-53.08	-13.00	40.08	207	101	Vertical
3	5760	45.98	-43.53	33.43	-59.38	-13.00	46.38	156	135	Vertical
4	3298.36	43.30	-46.11	29.48	-68.59	-13.00	55.59	201	89	Vertical
5	4122.95	47.93	-45.34	30.80	-61.87	-13.00	48.87	138	135	Vertical
6	4947.54	41.52	-45.08	32.48	-66.35	-13.00	53.35	186	292	Vertical



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Test Band = LTE Band 5_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	1664	68.76	-48.34	25.57	-49.27	-13.00	36.27	174	269	Horizontal
2	2496	57.81	-46.77	27.89	-56.33	-13.00	43.33	296	170	Horizontal
3	3328.36	43.84	-46.16	29.47	-68.11	-13.00	55.11	235	159	Horizontal
4	4160.45	50.00	-45.23	30.86	-59.63	-13.00	46.63	178	291	Horizontal
5	4992.54	40.93	-45.02	32.58	-66.77	-13.00	53.77	221	359	Horizontal
6	5824.63	40.94	-43.43	33.64	-64.11	-13.00	51.11	163	159	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	1664	70.04	-48.34	25.57	-47.99	-13.00	34.99	146	347	Vertical
2	2496.5	62.34	-46.77	27.89	-51.80	-13.00	38.80	239	336	Vertical
3	5760	45.74	-43.53	33.43	-59.62	-13.00	46.62	227	137	Vertical
4	3328.36	43.70	-46.16	29.47	-68.25	-13.00	55.25	167	83	Vertical
5	4160.45	49.13	-45.23	30.86	-60.50	-13.00	47.50	253	248	Vertical
6	4992.54	41.14	-45.02	32.58	-66.56	-13.00	53.56	142	271	Vertical



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Test Band = LTE Band 5_10MHz_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	1679	69.40	-48.30	25.56	-48.60	-13.00	35.60	186	24	Horizontal
2	2518.77	53.81	-46.84	27.96	-60.32	-13.00	47.32	226	100	Horizontal
3	3358.36	43.07	-46.21	29.46	-68.94	-13.00	55.94	180	122	Horizontal
4	4197.95	45.83	-45.12	30.92	-63.63	-13.00	50.63	193	291	Horizontal
5	5037.54	41.29	-44.85	32.60	-66.22	-13.00	53.22	285	360	Horizontal
6	5887.13	39.38	-43.24	33.84	-65.28	-13.00	52.28	236	45	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	1679.18	61.79	-48.30	25.56	-56.21	-13.00	43.21	169	201	Vertical
2	2518.77	56.13	-46.84	27.96	-58.00	-13.00	45.00	225	103	Vertical
3	3358.36	43.16	-46.21	29.46	-68.85	-13.00	55.85	147	103	Vertical
4	4197.95	45.22	-45.12	30.92	-64.24	-13.00	51.24	189	144	Vertical
5	5037.54	41.08	-44.85	32.60	-66.43	-13.00	53.43	234	244	Vertical
6	5887.13	39.47	-43.24	33.84	-65.19	-13.00	52.19	178	267	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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