

Appendix B.5

LTE Band 7



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.12	23.67	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.11	23.66	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.04	23.59	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.16	22.71	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.11	23.66	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.12	23.67	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.12	23.67	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.15	22.70	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.89	23.44	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.91	23.46	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.85	23.40	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.92	22.47	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.26	22.81	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.34	22.89	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.22	22.77	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.12	21.67	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.35	22.90	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.35	22.90	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.41	22.96	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.13	21.68	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.25	22.80	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.19	22.74	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.11	22.66	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.93	21.48	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.09	23.64	33.00	PASS



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Band7	10MHz	QPSK	20800	1RB#24	23.06	23.61	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.05	23.60	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.11	22.66	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.05	23.60	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.06	23.61	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.15	23.70	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.12	22.67	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.86	23.41	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.86	23.41	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.88	23.43	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.91	22.46	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.42	22.97	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.24	22.79	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.33	22.88	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.12	21.67	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.37	22.92	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.36	22.91	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.47	23.02	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.15	21.70	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.14	22.69	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.18	22.73	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.20	22.75	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.92	21.47	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.11	23.66	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.05	23.60	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.06	23.61	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.11	22.66	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.05	23.60	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.09	23.64	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.16	23.71	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.17	22.72	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.98	23.53	33.00	PASS



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Band7	15MHz	QPSK	21375	1RB#38	22.87	23.42	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.90	23.45	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.04	22.59	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.37	22.92	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.30	22.85	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.20	22.75	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.11	21.66	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.32	22.87	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.43	22.98	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.44	22.99	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.19	21.74	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.27	22.82	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.18	22.73	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.11	22.66	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.02	21.57	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.06	23.61	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.04	23.59	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.00	23.55	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.10	22.65	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.98	23.53	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.07	23.62	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.05	23.60	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.14	22.69	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.00	23.55	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.84	23.39	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.85	23.40	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.03	22.58	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.36	22.91	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.29	22.84	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.14	22.69	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.08	21.63	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.28	22.83	33.00	PASS



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Band7	20MHz	16QAM	21100	1RB#49	22.30	22.85	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.32	22.87	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.15	21.70	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.26	22.81	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.02	22.57	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.05	22.60	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.99	21.54	33.00	PASS



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Field Strength of Spurious Radiation

Test Band = LTE_7_20MHz_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2992.9993	24.92	1.43	29.73	-39.18	-25.00	14.18	163	85	Horizontal
2	3913.2365	52.53	-49.05	30.68	-61.10	-25.00	36.10	224	205	Horizontal
3	5002.2801	66.02	-46.94	33.11	-43.07	-25.00	18.07	178	47	Horizontal
4	7462.9785	49.86	-43.44	36.67	-52.17	-25.00	27.17	263	358	Horizontal
5	10004.6802	50.52	-41.18	38.60	-47.32	-25.00	22.32	322	354	Horizontal
6	15006.4803	47.57	-38.81	39.89	-46.61	-25.00	21.61	210	156	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3000	24.69	1.63	29.80	-39.14	-25.00	14.14	332	304	Vertical
2	5002.2801	74.32	-46.94	33.11	-34.77	-25.00	9.77	289	181	Vertical
3	7503.1801	57.07	-43.23	36.61	-44.81	-25.00	19.81	116	109	Vertical
4	10004.6802	62.28	-41.18	38.60	-35.56	-25.00	10.56	320	82	Vertical
5	15006.4803	54.77	-38.81	39.89	-39.41	-25.00	14.41	331	22	Vertical
6	17992.7997	50.31	-44.02	42.76	-46.21	-25.00	21.21	211	77	Vertical



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Test Band = LTE_7_20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2997.7998	24.96	1.57	29.78	-38.95	-25.00	13.95	223	20	Horizontal
2	5052.0821	64.18	-47.52	33.40	-45.20	-25.00	20.20	318	136	Horizontal
3	7480.9792	49.82	-43.31	36.64	-52.11	-25.00	27.11	254	191	Horizontal
4	10104.2842	49.33	-40.73	38.50	-48.16	-25.00	23.16	147	120	Horizontal
5	11914.5566	47.74	-37.94	39.49	-45.97	-25.00	20.97	221	218	Horizontal
6	15156.4863	48.51	-39.46	39.69	-46.52	-25.00	21.52	196	158	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2993.9994	25.10	1.46	29.74	-38.96	-25.00	13.96	219	47	Vertical
2	5052.0821	72.33	-47.52	33.40	-37.05	-25.00	12.05	340	201	Vertical
3	7578.1831	53.09	-43.60	36.74	-49.03	-25.00	24.03	179	282	Vertical
4	10104.2842	59.59	-40.73	38.50	-37.90	-25.00	12.90	332	53	Vertical
5	15156.4863	55.03	-39.46	39.69	-40.00	-25.00	15.00	352	26	Vertical
6	17903.3961	49.04	-42.98	42.22	-46.98	-25.00	21.98	214	141	Vertical



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Test Band = LTE_7_20MHz_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2999.8	24.63	1.62	29.80	-39.21	-25.00	14.21	176	92	Horizontal
2	3940.8376	52.39	-49.09	30.85	-61.11	-25.00	36.11	325	76	Horizontal
3	5102.4841	65.56	-47.20	33.50	-43.40	-25.00	18.40	221	70	Horizontal
4	7973.5989	49.28	-43.47	37.45	-52.00	-25.00	27.00	148	299	Horizontal
5	10204.4882	48.83	-40.74	38.41	-48.76	-25.00	23.76	112	70	Horizontal
6	11909.7564	47.58	-37.86	39.49	-46.05	-25.00	21.05	320	262	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.7999	24.72	1.60	29.79	-39.15	-25.00	14.15	333	93	Vertical
2	3910.2364	52.36	-49.04	30.66	-61.28	-25.00	36.28	352	206	Vertical
3	5101.8841	73.30	-47.20	33.50	-35.66	-25.00	10.66	217	190	Vertical
4	7653.1861	53.95	-43.77	36.81	-48.27	-25.00	23.27	156	282	Vertical
5	10204.4882	55.80	-40.74	38.41	-41.79	-25.00	16.79	325	103	Vertical
6	15306.4923	53.52	-39.92	39.19	-42.47	-25.00	17.47	287	256	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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