

Report No.: SEWM2308000332RG01

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Appendix B.4

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	22.57	25.61	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.52	25.56	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.66	25.7	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.67	24.71	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.48	25.52	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.25	25.29	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.56	25.6	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.42	24.46	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.83	25.87	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.59	25.63	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.6	25.64	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.72	24.76	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.97	25.01	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.06	25.1	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.92	24.96	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.67	23.71	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.78	24.82	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.5	24.54	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.74	24.78	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.51	23.55	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.92	24.96	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.79	24.83	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.89	24.93	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.75	23.79	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.88	25.92	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.75	25.79	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.76	25.8	33	PASS



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Band7	10MHz	QPSK	20800	50RB#0	21.85	24.89	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.7	25.74	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.39	25.43	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.57	25.61	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.43	24.47	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.98	26.02	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.63	25.67	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.71	25.75	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.77	24.81	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.21	25.25	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22	25.04	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.07	25.11	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.82	23.86	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.94	24.98	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.58	24.62	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.89	24.93	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.41	23.45	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.22	25.26	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22	25.04	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.98	25.02	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.74	23.78	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.8	25.84	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.77	25.81	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.57	25.61	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.96	25	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.4	25.44	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.67	25.71	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.51	25.55	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.62	24.66	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.69	25.73	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.59	25.63	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.57	25.61	33	PASS



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Band7	15MHz	16QAM	20825	1RB#0	22.12	25.16	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.08	25.12	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.76	24.8	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.79	23.83	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.78	24.82	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.87	24.91	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.89	24.93	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.66	23.7	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.9	24.94	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.82	24.86	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.77	24.81	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.76	23.8	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.92	25.96	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.7	25.74	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.48	25.52	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.88	24.92	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.47	25.51	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.55	25.59	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.59	25.63	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.55	24.59	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.73	25.77	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.6	25.64	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.51	25.55	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.68	24.72	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.04	25.08	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.96	25	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.75	24.79	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.81	23.85	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.75	24.79	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.9	24.94	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.79	24.83	33	PASS



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Band7	20MHz	16QAM	21100	100RB#0	20.53	23.57	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.92	24.96	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.87	24.91	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.73	24.77	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.72	23.76	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_20MHz_ 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	5002.18	48.62	-44.92	32.60	-58.96	-25.00	33.96	251	127	Horizontal
2	7503.27	56.00	-41.59	36.51	-44.34	-25.00	19.34	197	204	Horizontal
3	10004.36	36.47	-37.13	38.50	-57.42	-25.00	32.42	168	142	Horizontal
4	12505.45	31.91	-35.23	39.11	-59.47	-25.00	34.47	216	1	Horizontal
5	15006.54	31.62	-34.00	39.19	-58.45	-25.00	33.45	223	295	Horizontal
6	17507.63	30.40	-31.88	40.63	-56.11	-25.00	31.11	196	0	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	5002	59.18	-44.93	32.60	-48.41	-25.00	23.41	154	7	Vertical
2	7503.27	58.99	-41.59	36.51	-41.35	-25.00	16.35	229	127	Vertical
3	10004.36	38.99	-37.13	38.50	-54.90	-25.00	29.90	182	81	Vertical
4	12505.45	32.58	-35.23	39.11	-58.80	-25.00	33.80	267	0	Vertical
5	15006.54	32.43	-34.00	39.19	-57.64	-25.00	32.64	231	328	Vertical
6	17507.63	30.12	-31.88	40.63	-56.39	-25.00	31.39	207	252	Vertical



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Test Band = LTE Band 7_20MHz_ 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	5052.18	53.24	-44.60	32.60	-54.02	-25.00	29.02	168	126	Horizontal
2	7578.27	50.43	-41.33	36.66	-49.51	-25.00	24.51	255	203	Horizontal
3	10104.36	34.54	-36.80	38.61	-58.90	-25.00	33.90	191	8	Horizontal
4	12630.45	31.94	-34.72	39.23	-58.81	-25.00	33.81	236	0	Horizontal
5	15156.54	31.17	-33.29	39.00	-58.38	-25.00	33.38	228	0	Horizontal
6	17682.63	31.78	-31.11	41.33	-53.26	-25.00	28.26	145	218	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	5052	60.28	-44.60	32.60	-46.98	-25.00	21.98	199	7	Vertical
2	7578.27	53.29	-41.33	36.66	-46.65	-25.00	21.65	258	81	Vertical
3	10104.36	36.88	-36.80	38.61	-56.56	-25.00	31.56	171	158	Vertical
4	12630.45	31.76	-34.72	39.23	-58.99	-25.00	33.99	213	281	Vertical
5	15156.54	31.57	-33.29	39.00	-57.98	-25.00	32.98	266	220	Vertical
6	17682.63	31.81	-31.11	41.33	-53.23	-25.00	28.23	251	81	Vertical



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Test Band = LTE Band 7_20MHz_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	5102	55.08	-44.29	32.60	-51.87	-25.00	26.87	296	279	Horizontal
2	7653	52.10	-41.30	36.81	-47.65	-25.00	22.65	265	199	Horizontal
3	10204.36	37.11	-36.56	38.72	-55.99	-25.00	30.99	241	279	Horizontal
4	12755.45	33.00	-35.10	39.36	-58.01	-25.00	33.01	142	24	Horizontal
5	15306.54	30.99	-33.87	38.80	-59.34	-25.00	34.34	263	40	Horizontal
6	17857.63	30.92	-30.96	42.03	-53.26	-25.00	28.26	228	0	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	5102.18	60.61	-44.29	32.60	-46.34	-25.00	21.34	296	1	Vertical
2	7653.27	52.46	-41.30	36.81	-47.29	-25.00	22.29	265	94	Vertical
3	10204.36	37.23	-36.56	38.72	-55.87	-25.00	30.87	241	203	Vertical
4	12755.45	34.08	-35.10	39.36	-56.93	-25.00	31.93	142	237	Vertical
5	15306.54	30.70	-33.87	38.80	-59.63	-25.00	34.63	201	344	Vertical
6	17857.63	31.67	-30.96	42.03	-52.51	-25.00	27.51	112	46	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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