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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	21.99	23.51	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.84	23.36	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.77	23.29	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.8	22.32	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.92	23.44	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	21.23	22.75	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	21.96	23.48	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.9	22.42	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	21.96	23.48	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.97	23.49	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.89	23.41	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.98	22.5	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.12	22.64	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.95	22.47	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.88	22.4	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.83	21.35	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.04	22.56	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.03	22.55	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.12	22.64	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.9	21.42	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.05	22.57	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.06	22.58	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.99	22.51	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	19.96	21.48	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	20.04	21.56	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	20.03	21.55	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	19.95	21.47	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	18.8	20.32	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	20.36	21.88	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	20.44	21.96	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	20.23	21.75	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	19.36	20.88	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	20.03	21.55	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	20.07	21.59	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	20.04	21.56	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	18.92	20.44	33	PASS
Band7	5MHz	256QAM	20775	1RB#0	19.63	21.15	33	PASS
Band7	5MHz	256QAM	20775	1RB#12	19.52	21.04	33	PASS
Band7	5MHz	256QAM	20775	1RB#24	19.45	20.97	33	PASS
Band7	5MHz	256QAM	20775	25RB#0	18.32	19.84	33	PASS
Band7	5MHz	256QAM	21100	1RB#0	19.41	20.93	33	PASS
Band7	5MHz	256QAM	21100	1RB#12	19.32	20.84	33	PASS
Band7	5MHz	256QAM	21100	1RB#24	19.25	20.77	33	PASS
Band7	5MHz	256QAM	21100	25RB#0	18.23	19.75	33	PASS
Band7	5MHz	256QAM	21425	1RB#0	19.23	20.75	33	PASS
Band7	5MHz	256QAM	21425	1RB#12	19.41	20.93	33	PASS
Band7	5MHz	256QAM	21425	1RB#24	19.45	20.97	33	PASS
Band7	5MHz	256QAM	21425	25RB#0	17.63	19.15	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.81	23.33	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	21.71	23.23	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.65	23.17	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.78	22.3	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	20.81	22.33	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	21.94	23.46	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	21.95	23.47	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.95	22.47	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	20.73	22.25	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	21.93	23.45	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.81	23.33	33	PASS



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Band7	10MHz	QPSK	21400	50RB#0	20.99	22.51	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.96	22.48	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	20.85	22.37	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.77	22.29	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	19.72	21.24	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	20.94	22.46	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.07	22.59	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.09	22.61	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	19.92	21.44	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.07	22.59	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.1	22.62	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	20.94	22.46	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	19.94	21.46	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	20.02	21.54	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	19.91	21.43	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	19.83	21.35	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	18.72	20.24	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	19.98	21.5	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	20.07	21.59	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	20.14	21.66	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	18.9	20.42	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.16	21.68	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	20.11	21.63	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	19.96	21.48	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	18.93	20.45	33	PASS
Band7	10MHz	256QAM	20800	1RB#0	18.96	20.48	33	PASS
Band7	10MHz	256QAM	20800	1RB#24	18.85	20.37	33	PASS
Band7	10MHz	256QAM	20800	1RB#49	18.79	20.31	33	PASS
Band7	10MHz	256QAM	20800	50RB#0	17.63	19.15	33	PASS
Band7	10MHz	256QAM	21100	1RB#0	18.32	19.84	33	PASS
Band7	10MHz	256QAM	21100	1RB#24	18.45	19.97	33	PASS
Band7	10MHz	256QAM	21100	1RB#49	18.66	20.18	33	PASS



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Band7	10MHz	256QAM	21100	50RB#0	17.75	19.27	33	PASS
Band7	10MHz	256QAM	21400	1RB#0	18.32	19.84	33	PASS
Band7	10MHz	256QAM	21400	1RB#24	18.75	20.27	33	PASS
Band7	10MHz	256QAM	21400	1RB#49	18.55	20.07	33	PASS
Band7	10MHz	256QAM	21400	50RB#0	17.25	18.77	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.65	23.17	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.65	23.17	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.5	23.02	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.67	22.19	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	21.63	23.15	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.89	23.41	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.9	23.42	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.89	22.41	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.93	23.45	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.94	23.46	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.76	23.28	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	20.98	22.5	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.79	22.31	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	20.8	22.32	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.64	22.16	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	19.63	21.15	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.8	22.32	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.04	22.56	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.05	22.57	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	19.9	21.42	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.08	22.6	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.09	22.61	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	20.94	22.46	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	20	21.52	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	19.84	21.36	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	19.88	21.4	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	19.67	21.19	33	PASS



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Band7	15MHz	64QAM	21100	1RB#0	19.78	21.3	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	20.04	21.56	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	20.08	21.6	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	18.84	20.36	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.16	21.68	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.2	21.72	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.01	21.53	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	18.96	20.48	33	PASS
Band7	15MHz	256QAM	20825	1RB#0	18.85	20.37	33	PASS
Band7	15MHz	256QAM	20825	1RB#38	18.65	20.17	33	PASS
Band7	15MHz	256QAM	20825	1RB#74	18.45	19.97	33	PASS
Band7	15MHz	256QAM	20825	75RB#0	17.66	19.18	33	PASS
Band7	15MHz	256QAM	21100	1RB#0	18.56	20.08	33	PASS
Band7	15MHz	256QAM	21100	1RB#38	18.45	19.97	33	PASS
Band7	15MHz	256QAM	21100	1RB#74	18.63	20.15	33	PASS
Band7	15MHz	256QAM	21100	75RB#0	17.45	18.97	33	PASS
Band7	15MHz	256QAM	21375	1RB#0	18.33	19.85	33	PASS
Band7	15MHz	256QAM	21375	1RB#38	18.74	20.26	33	PASS
Band7	15MHz	256QAM	21375	1RB#74	18.56	20.08	33	PASS
Band7	15MHz	256QAM	21375	75RB#0	17.63	19.15	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.61	23.13	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.68	23.2	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.49	23.01	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.6	22.12	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.57	23.09	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	21.94	23.46	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.93	23.45	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.91	22.43	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.94	23.46	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.02	23.54	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.74	23.26	33	PASS



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Band7	20MHz	16QAM	20850	1RB#0	20.77	22.29	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.86	22.38	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.68	22.2	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	19.58	21.1	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	20.71	22.23	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.05	22.57	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.07	22.59	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	19.88	21.4	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.07	22.59	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.16	22.68	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.89	22.41	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.02	21.54	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	19.79	21.31	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	19.8	21.32	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	19.65	21.17	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	18.55	20.07	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	19.73	21.25	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	20.11	21.63	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	20.1	21.62	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	18.86	20.38	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	20.09	21.61	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	20.17	21.69	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	19.92	21.44	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.02	20.54	33	PASS
Band7	20MHz	256QAM	20850	1RB#0	18.63	20.15	33	PASS
Band7	20MHz	256QAM	20850	1RB#49	18.45	19.97	33	PASS
Band7	20MHz	256QAM	20850	1RB#99	18.77	20.29	33	PASS
Band7	20MHz	256QAM	20850	100RB#0	17.96	19.48	33	PASS
Band7	20MHz	256QAM	21100	1RB#0	18.56	20.08	33	PASS
Band7	20MHz	256QAM	21100	1RB#49	18.44	19.96	33	PASS
Band7	20MHz	256QAM	21100	1RB#99	18.65	20.17	33	PASS



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Band7	20MHz	256QAM	21100	100RB#0	17.63	19.15	33	PASS
Band7	20MHz	256QAM	21350	1RB#0	18.74	20.26	33	PASS
Band7	20MHz	256QAM	21350	1RB#49	18.45	19.97	33	PASS
Band7	20MHz	256QAM	21350	1RB#99	18.66	20.18	33	PASS
Band7	20MHz	256QAM	21350	100RB#0	17.56	19.08	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band7_ TM1

Test Channel = Low

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	40.55	-45.63	32.88	-67.46	-25.00	42.46	254	360	Horizontal
2	7503.2700	39.35	-43.13	36.44	-62.60	-25.00	37.60	126	227	Horizontal
3	10004.3600	35.13	-39.23	38.50	-60.87	-25.00	35.87	236	182	Horizontal
4	12505.4500	32.85	-36.99	39.18	-60.22	-25.00	35.22	256	305	Horizontal
5	15006.5400	32.25	-34.65	39.21	-58.45	-25.00	33.45	291	91	Horizontal
6	17507.6300	33.94	-34.95	39.22	-57.05	-25.00	32.05	145	359	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	5002.1800	40.46	-45.63	32.88	-67.55	-25.00	42.55	254	359	Vertical
2	7503.2700	38.81	-43.13	36.44	-63.14	-25.00	38.14	122	59	Vertical
3	10004.3600	34.64	-39.23	38.50	-61.36	-25.00	36.36	236	134	Vertical
4	12505.4500	32.39	-36.99	39.18	-60.68	-25.00	35.68	256	134	Vertical
5	15006.5400	31.57	-34.65	39.21	-59.13	-25.00	34.13	145	354	Vertical
6	17507.6300	32.66	-34.95	39.22	-58.33	-25.00	33.33	199	354	Vertical



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Test Band = LTE Band7_ TM1
Test Channel = Mid
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	40.30	-45.50	32.91	-67.55	-25.00	42.55	248	139	Horizontal
2	7578.2700	39.13	-42.97	36.40	-62.70	-25.00	37.70	157	77	Horizontal
3	10104.3600	35.20	-39.14	38.66	-60.54	-25.00	35.54	136	197	Horizontal
4	12630.4500	32.52	-37.33	39.33	-60.74	-25.00	35.74	256	74	Horizontal
5	15156.5400	30.88	-34.37	39.01	-59.74	-25.00	34.74	291	108	Horizontal
6	17682.6300	32.89	-33.89	40.06	-56.20	-25.00	31.20	177	212	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	5052.1800	40.08	-45.50	32.91	-67.77	-25.00	42.77	211	354	Vertical
2	7578.2700	38.57	-42.97	36.40	-63.26	-25.00	38.26	259	16	Vertical
3	10104.3600	34.34	-39.14	38.66	-61.40	-25.00	36.40	185	274	Vertical
4	12630.4500	32.93	-37.33	39.33	-60.33	-25.00	35.33	143	242	Vertical
5	15156.5400	30.80	-34.37	39.01	-59.82	-25.00	34.82	136	336	Vertical
6	17682.6300	33.87	-33.89	40.06	-55.22	-25.00	30.22	259	242	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	40.22	-45.37	32.94	-67.47	-25.00	42.47	284	198	Horizontal
2	7653.2700	38.79	-43.03	36.49	-63.01	-25.00	38.01	175	335	Horizontal
3	10204.3600	34.65	-39.48	38.81	-61.28	-25.00	36.28	145	290	Horizontal
4	12755.4500	32.79	-36.76	39.55	-59.68	-25.00	34.68	126	261	Horizontal
5	15306.5400	32.14	-34.36	38.82	-58.66	-25.00	33.66	293	30	Horizontal
6	17857.6300	33.97	-34.56	41.24	-54.61	-25.00	29.61	216	215	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	5102.1800	40.07	-45.37	32.94	-67.62	-25.00	42.62	274	322	Vertical
2	7653.2700	39.79	-43.03	36.49	-62.01	-25.00	37.01	154	78	Vertical
3	10204.3600	34.32	-39.48	38.81	-61.61	-25.00	36.61	136	4	Vertical
4	12755.4500	32.06	-36.76	39.55	-60.41	-25.00	35.41	259	44	Vertical
5	15306.5400	31.84	-34.36	38.82	-58.96	-25.00	33.96	163	359	Vertical
6	17857.6300	33.73	-34.56	41.24	-54.85	-25.00	29.85	281	121	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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