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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	23.01	24.92	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.12	25.03	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.18	25.09	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.08	23.99	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.25	25.16	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.15	25.06	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.15	25.06	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.96	23.87	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.36	25.27	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.29	25.2	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.15	25.06	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.2	24.11	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.09	24	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.04	23.95	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.08	23.99	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.05	22.96	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.16	24.07	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.16	24.07	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.14	24.05	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.93	22.84	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.22	24.13	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.41	24.32	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.24	24.15	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.24	23.15	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.18	23.09	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.17	23.08	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.24	23.15	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	20.05	21.96	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.29	23.2	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.21	23.12	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.25	23.16	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.04	21.95	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.35	23.26	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.32	23.23	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.32	23.23	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.22	22.13	33	PASS
Band7	5MHz	256QAM	20775	1RB#0	18.01	19.92	33	PASS
Band7	5MHz	256QAM	20775	1RB#12	18.12	20.03	33	PASS
Band7	5MHz	256QAM	20775	1RB#24	18.28	20.19	33	PASS
Band7	5MHz	256QAM	20775	25RB#0	18.08	19.99	33	PASS
Band7	5MHz	256QAM	21100	1RB#0	17.88	19.79	33	PASS
Band7	5MHz	256QAM	21100	1RB#12	18.2	20.11	33	PASS
Band7	5MHz	256QAM	21100	1RB#24	18.03	19.94	33	PASS
Band7	5MHz	256QAM	21100	25RB#0	18.05	19.96	33	PASS
Band7	5MHz	256QAM	21425	1RB#0	18.2	20.11	33	PASS
Band7	5MHz	256QAM	21425	1RB#12	18.27	20.18	33	PASS
Band7	5MHz	256QAM	21425	1RB#24	18.38	20.29	33	PASS
Band7	5MHz	256QAM	21425	25RB#0	18.24	20.15	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.04	24.95	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.07	24.98	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.04	24.95	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.13	24.04	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.35	25.26	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.03	24.94	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.14	25.05	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.06	23.97	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.22	25.13	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.24	25.15	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.18	25.09	33	PASS



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Band7	10MHz	QPSK	21400	50RB#0	22.24	24.15	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.06	23.97	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.21	24.12	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.11	24.02	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.11	23.02	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.22	24.13	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.23	24.14	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.17	24.08	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.98	22.89	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.3	24.21	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.49	24.4	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.27	24.18	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.19	23.1	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.06	22.97	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.14	23.05	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.15	23.06	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.16	22.07	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.1	23.01	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.28	23.19	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.31	23.22	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20	21.91	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.24	23.15	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.39	23.3	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.35	23.26	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.17	22.08	33	PASS
Band7	10MHz	256QAM	20800	1RB#0	18.27	20.18	33	PASS
Band7	10MHz	256QAM	20800	1RB#24	18.15	20.06	33	PASS
Band7	10MHz	256QAM	20800	1RB#49	18.21	20.12	33	PASS
Band7	10MHz	256QAM	20800	50RB#0	18.09	20	33	PASS
Band7	10MHz	256QAM	21100	1RB#0	17.97	19.88	33	PASS
Band7	10MHz	256QAM	21100	1RB#24	18.33	20.24	33	PASS
Band7	10MHz	256QAM	21100	1RB#49	18.2	20.11	33	PASS



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Band7	10MHz	256QAM	21400	1RB#0	18.21	20.12	33	PASS
Band7	10MHz	256QAM	21400	1RB#24	18.3	20.21	33	PASS
Band7	10MHz	256QAM	21400	1RB#49	18.09	20	33	PASS
Band7	10MHz	256QAM	21400	50RB#0	18.19	20.1	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.79	24.7	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.87	24.78	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.76	24.67	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.93	23.84	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.41	25.32	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.37	25.28	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.96	24.87	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.89	23.8	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.32	25.23	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.12	25.03	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.99	24.9	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.1	24.01	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.09	24	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.9	23.81	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.75	23.66	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.93	22.84	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.85	23.76	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.31	24.22	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.02	23.93	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.96	22.87	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.09	24	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.14	24.05	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.98	23.89	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.09	23	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.15	23.06	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.1	23.01	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.03	22.94	33	PASS



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Band7	15MHz	64QAM	21100	1RB#0	21.02	22.93	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.11	23.02	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.18	23.09	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	19.98	21.89	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.2	23.11	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.57	23.48	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.2	23.11	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.08	21.99	33	PASS
Band7	15MHz	256QAM	20825	1RB#0	17.82	19.73	33	PASS
Band7	15MHz	256QAM	20825	1RB#38	17.94	19.85	33	PASS
Band7	15MHz	256QAM	20825	1RB#74	17.82	19.73	33	PASS
Band7	15MHz	256QAM	20825	75RB#0	17.87	19.78	33	PASS
Band7	15MHz	256QAM	21100	1RB#0	17.79	19.7	33	PASS
Band7	15MHz	256QAM	21100	1RB#38	17.88	19.79	33	PASS
Band7	15MHz	256QAM	21100	1RB#74	18.24	20.15	33	PASS
Band7	15MHz	256QAM	21100	75RB#0	17.96	19.87	33	PASS
Band7	15MHz	256QAM	21375	1RB#0	17.96	19.87	33	PASS
Band7	15MHz	256QAM	21375	1RB#38	18.22	20.13	33	PASS
Band7	15MHz	256QAM	21375	1RB#74	17.96	19.87	33	PASS
Band7	15MHz	256QAM	21375	75RB#0	18.12	20.03	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.73	24.64	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.95	24.86	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.84	24.75	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.97	23.88	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.47	25.38	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.9	24.81	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.93	24.84	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22	23.91	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.25	25.16	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.14	25.05	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.99	24.9	33	PASS



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Band7	20MHz	16QAM	20850	1RB#0	22.04	23.95	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.18	24.09	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.86	23.77	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.93	22.84	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.85	23.76	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.14	24.05	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.19	24.1	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21	22.91	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.03	23.94	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.26	24.17	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.28	24.19	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.05	22.96	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.07	22.98	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21	22.91	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.05	22.96	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20	21.91	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.1	23.01	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.02	22.93	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.33	23.24	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	19.92	21.83	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.13	23.04	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.16	23.07	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.2	23.11	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.21	22.12	33	PASS
Band7	20MHz	256QAM	20850	1RB#0	17.6	19.51	33	PASS
Band7	20MHz	256QAM	20850	1RB#49	17.88	19.79	33	PASS
Band7	20MHz	256QAM	20850	1RB#99	18.3	20.21	33	PASS
Band7	20MHz	256QAM	20850	100RB#0	17.96	19.87	33	PASS
Band7	20MHz	256QAM	21100	1RB#0	18.07	19.98	33	PASS
Band7	20MHz	256QAM	21100	1RB#49	18.46	20.37	33	PASS
Band7	20MHz	256QAM	21100	1RB#99	18.29	20.2	33	PASS



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Band7	20MHz	256QAM	21100	100RB#0	18	19.91	33	PASS
Band7	20MHz	256QAM	21350	1RB#0	17.95	19.86	33	PASS
Band7	20MHz	256QAM	21350	1RB#49	18.21	20.12	33	PASS
Band7	20MHz	256QAM	21350	1RB#99	18.17	20.08	33	PASS
Band7	20MHz	256QAM	21350	100RB#0	18.21	20.12	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	40.86	-45.63	32.88	-67.15	-25.00	42.15	125	271	Horizontal
2	7503.2700	39.76	-43.13	36.44	-62.19	-25.00	37.19	148	354	Horizontal
3	10004.3600	35.12	-39.23	38.50	-60.88	-25.00	35.88	159	360	Horizontal
4	12505.4500	32.76	-36.99	39.18	-60.31	-25.00	35.31	153	226	Horizontal
5	15006.5400	31.63	-34.65	39.21	-59.07	-25.00	34.07	166	360	Horizontal
6	17507.6300	32.37	-34.95	39.22	-58.62	-25.00	33.62	142	331	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	4992	47.28	-45.63	32.86	-60.75	-25.00	35.75	254	284	Vertical
2	7503.2700	40.13	-43.13	36.44	-61.82	-25.00	36.82	125	121	Vertical
3	10004.3600	35.52	-39.23	38.50	-60.48	-25.00	35.48	135	194	Vertical
4	12505.4500	33.54	-36.99	39.18	-59.53	-25.00	34.53	126	316	Vertical
5	15006.5400	31.79	-34.65	39.21	-58.91	-25.00	33.91	185	357	Vertical
6	17507.6300	31.87	-34.95	39.22	-59.12	-25.00	34.12	149	14	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	4992	50.36	-45.63	32.86	-57.67	-25.00	32.67	254	256	Horizontal
2	7578.2700	39.03	-42.97	36.40	-62.80	-25.00	37.80	186	104	Horizontal
3	10104.3600	35.77	-39.14	38.66	-59.97	-25.00	34.97	133	359	Horizontal
4	12630.4500	33.19	-37.33	39.33	-60.07	-25.00	35.07	269	332	Horizontal
5	15156.5400	31.28	-34.37	39.01	-59.34	-25.00	34.34	142	359	Horizontal
6	17682.6300	32.49	-33.89	40.06	-56.60	-25.00	31.60	105	242	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	4992	46.07	-45.63	32.86	-61.96	-25.00	36.96	214	286	Vertical
2	7578.2700	39.79	-42.97	36.40	-62.04	-25.00	37.04	159	286	Vertical
3	10104.3600	35.04	-39.14	38.66	-60.70	-25.00	35.70	184	353	Vertical
4	12630.4500	33.08	-37.33	39.33	-60.18	-25.00	35.18	175	212	Vertical
5	15156.5400	31.36	-34.37	39.01	-59.26	-25.00	34.26	123	60	Vertical
6	17682.6300	32.11	-33.89	40.06	-56.98	-25.00	31.98	233	165	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	44.28	-45.37	32.94	-63.41	-25.00	38.41	215	283	Horizontal
2	7653.2700	40.12	-43.03	36.49	-61.68	-25.00	36.68	184	165	Horizontal
3	10204.3600	36.29	-39.48	38.81	-59.64	-25.00	34.64	175	255	Horizontal
4	12755.4500	33.35	-36.76	39.55	-59.12	-25.00	34.12	146	300	Horizontal
5	15306.5400	31.98	-34.36	38.82	-58.82	-25.00	33.82	192	269	Horizontal
6	17857.6300	34.05	-34.56	41.24	-54.53	-25.00	29.53	150	151	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	45.74	-45.37	32.94	-61.95	-25.00	36.95	146	287	Vertical
2	7653.2700	40.51	-43.03	36.49	-61.29	-25.00	36.29	254	135	Vertical
3	10204.3600	35.93	-39.48	38.81	-60.00	-25.00	35.00	185	332	Vertical
4	12755.4500	33.55	-36.76	39.55	-58.92	-25.00	33.92	149	243	Vertical
5	15306.5400	32.63	-34.36	38.82	-58.17	-25.00	33.17	173	61	Vertical
6	17857.6300	33.63	-34.56	41.24	-54.95	-25.00	29.95	133	104	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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