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Appendix B.14

LTE Band 38



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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
Band38	5MHz	QPSK	37775	1RB#0	22.96	25.36	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.97	25.37	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.95	25.35	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.96	24.36	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.94	25.34	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.99	25.39	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.02	25.42	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.04	24.44	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.99	25.39	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.99	25.39	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.96	25.36	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.99	24.39	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.03	24.43	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.07	24.47	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.04	24.44	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.96	23.36	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.06	24.46	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.07	24.47	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.10	24.5	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.00	23.4	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.09	24.49	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.07	24.47	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.10	24.5	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.02	23.42	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.99	25.39	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.97	25.37	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.95	25.35	33.00	PASS



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Band38	10MHz	QPSK	37800	50RB#0	21.96	24.36	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.97	25.37	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.98	25.38	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.01	25.41	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.98	24.38	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.03	25.43	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.98	25.38	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.02	25.42	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.00	24.4	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.07	24.47	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.06	24.46	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.04	24.44	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.99	23.39	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.02	24.42	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.06	24.46	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.09	24.49	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.05	23.45	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.15	24.55	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.11	24.51	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.11	24.51	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.04	23.44	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.94	25.34	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.95	25.35	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.88	25.28	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.85	24.25	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.90	25.3	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.97	25.37	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.06	25.46	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.00	24.4	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.15	25.55	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.05	25.45	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.05	25.45	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.11	24.51	33.00	PASS



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Band38	15MHz	16QAM	37825	1RB#0	22.00	24.4	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.00	24.4	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.97	24.37	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.87	23.27	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.00	24.4	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.09	24.49	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.22	24.62	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.03	23.43	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.25	24.65	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.14	24.54	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.18	24.58	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.18	23.58	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.92	25.32	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.91	25.31	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.91	25.31	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.83	24.23	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.86	25.26	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.99	25.39	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.06	25.46	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.01	24.41	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.08	25.48	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.02	25.42	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.02	25.42	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.10	24.5	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.98	24.38	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.99	24.39	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.95	24.35	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.89	23.29	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.00	24.4	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.05	24.45	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.19	24.59	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.03	23.43	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.21	24.61	33.00	PASS



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Band38	20MHz	16QAM	38150	1RB#49	22.13	24.53	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.13	24.53	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.18	23.58	33.00	PASS



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Field Strength of Spurious Radiation**Test Band = LTE Band 38_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]	Polarity
1	5142.1800	41.81	-45.33	31.74	-67.04	-25.00	42.04	Horizontal
2	7713.2700	38.48	-43.01	36.69	-63.11	-25.00	38.11	Horizontal
3	10284.3600	39.68	-39.15	38.34	-56.39	-25.00	31.39	Horizontal
4	12855.4500	26.25	-36.99	39.06	-66.94	-25.00	41.94	Horizontal
5	15426.5400	24.48	-34.00	40.40	-64.37	-25.00	39.37	Horizontal
6	17997.6300	26.54	-34.58	46.79	-56.51	-25.00	31.51	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	39.74	-45.33	31.74	-69.11	-25.00	44.11	Vertical
2	7713.2700	38.25	-43.01	36.69	-63.34	-25.00	38.34	Vertical
3	10284.3600	36.64	-39.15	38.34	-59.43	-25.00	34.43	Vertical
4	12855.4500	26.04	-36.99	39.06	-67.15	-25.00	42.15	Vertical
5	15426.5400	24.43	-34.00	40.40	-64.42	-25.00	39.42	Vertical
6	17997.6300	26.71	-34.58	46.79	-56.34	-25.00	31.34	Vertical



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Test Band = LTE Band 38_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]	Polarity
1	5172.1800	41.06	-45.30	31.81	-67.69	-25.00	42.69	Horizontal
2	7758.2700	38.17	-42.65	36.70	-63.03	-25.00	38.03	Horizontal
3	10344.3600	41.45	-39.05	38.37	-54.49	-25.00	29.49	Horizontal
4	12930.4500	26.95	-37.18	39.08	-66.41	-25.00	41.41	Horizontal
5	15516.5400	23.08	-35.30	40.21	-67.27	-25.00	42.27	Horizontal
6	17915	29.57	-34.52	46.42	-53.79	-25.00	28.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5172.1800	40.71	-45.30	31.81	-68.04	-25.00	43.04	Vertical
2	7758.2700	37.03	-42.65	36.70	-64.17	-25.00	39.17	Vertical
3	10344.3600	34.99	-39.05	38.37	-60.95	-25.00	35.95	Vertical
4	12930.4500	25.73	-37.18	39.08	-67.63	-25.00	42.63	Vertical
5	15516.5400	23.70	-35.30	40.21	-66.65	-25.00	41.65	Vertical
6	17947.5	28.99	-34.54	46.56	-54.25	-25.00	29.25	Vertical



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Test Band = LTE Band 38_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]	Polarity
1	5202.1800	40.90	-45.28	31.89	-67.75	-25.00	42.75	Horizontal
2	7803.2700	38.09	-42.33	36.72	-62.78	-25.00	37.78	Horizontal
3	10404	45.24	-39.00	38.40	-50.62	-25.00	25.62	Horizontal
4	13005.4500	25.22	-37.31	39.11	-68.24	-25.00	43.24	Horizontal
5	15606.5400	23.55	-34.87	40.03	-66.56	-25.00	41.56	Horizontal
6	17923.5	29.95	-34.53	46.46	-53.38	-25.00	28.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5202.1800	40.81	-45.28	31.89	-67.84	-25.00	42.84	Vertical
2	7803.2700	37.71	-42.33	36.72	-63.16	-25.00	38.16	Vertical
3	10404.3600	38.41	-39.00	38.40	-57.45	-25.00	32.45	Vertical
4	13005.4500	25.51	-37.31	39.11	-67.95	-25.00	42.95	Vertical
5	15606.5400	23.51	-34.87	40.03	-66.60	-25.00	41.60	Vertical
6	17695.5	27.72	-33.99	45.43	-56.10	-25.00	31.10	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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