

Appendix B.13

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	25.77	28.23	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	25.77	28.23	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	25.74	28.20	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	24.69	27.15	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	25.10	27.56	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	25.80	28.26	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	25.73	28.19	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	24.59	27.05	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	25.23	27.69	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	25.69	28.15	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	25.66	28.12	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	24.52	26.98	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	24.66	27.12	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	24.66	27.12	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	24.72	27.18	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	23.62	26.08	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	24.63	27.09	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	24.60	27.06	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	24.53	26.99	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	23.47	25.93	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	24.53	26.99	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	24.61	27.07	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	24.51	26.97	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	23.45	25.91	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	23.65	26.11	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	23.80	26.26	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	23.74	26.20	33	PASS
Band38	5MHz	64QAM	37775	25RB#0	22.57	25.03	33	PASS



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Band38	5MHz	64QAM	38000	1RB#0	23.67	26.13	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	23.74	26.20	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	23.63	26.09	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	22.40	24.86	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	23.55	26.01	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	23.59	26.05	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	23.51	25.97	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	22.36	24.82	33	PASS
Band38	5MHz	256QAM	37775	1RB#0	20.28	22.74	33	PASS
Band38	5MHz	256QAM	37775	1RB#12	20.25	22.71	33	PASS
Band38	5MHz	256QAM	37775	1RB#24	20.29	22.75	33	PASS
Band38	5MHz	256QAM	37775	25RB#0	20.42	22.88	33	PASS
Band38	5MHz	256QAM	38000	1RB#0	20.13	22.59	33	PASS
Band38	5MHz	256QAM	38000	1RB#12	20.33	22.79	33	PASS
Band38	5MHz	256QAM	38000	1RB#24	20.31	22.77	33	PASS
Band38	5MHz	256QAM	38000	25RB#0	20.27	22.73	33	PASS
Band38	5MHz	256QAM	38225	1RB#0	20.12	22.58	33	PASS
Band38	5MHz	256QAM	38225	1RB#12	20.25	22.71	33	PASS
Band38	5MHz	256QAM	38225	1RB#24	20.25	22.71	33	PASS
Band38	5MHz	256QAM	38225	25RB#0	20.21	22.67	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	25.73	28.19	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	25.76	28.22	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	25.70	28.16	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	24.74	27.20	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	25.08	27.54	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	25.74	28.20	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	25.63	28.09	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	24.60	27.06	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	24.99	27.45	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	25.67	28.13	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	25.57	28.03	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	24.53	26.99	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	24.59	27.05	33	PASS



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Band38	10MHz	16QAM	37800	1RB#24	24.65	27.11	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	24.47	26.93	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	23.65	26.11	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	24.66	27.12	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	24.12	26.58	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	24.35	26.81	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	23.50	25.96	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	24.59	27.05	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	24.62	27.08	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	24.46	26.92	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	23.36	25.82	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	23.64	26.10	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	23.84	26.30	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	23.64	26.10	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	22.56	25.02	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	23.59	26.05	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	23.44	25.90	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	23.53	25.99	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	22.43	24.89	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	23.53	25.99	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	23.63	26.09	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	23.57	26.03	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	22.40	24.86	33	PASS
Band38	10MHz	256QAM	37800	1RB#0	20.25	22.71	33	PASS
Band38	10MHz	256QAM	37800	1RB#24	20.41	22.87	33	PASS
Band38	10MHz	256QAM	37800	1RB#49	20.38	22.84	33	PASS
Band38	10MHz	256QAM	37800	50RB#0	20.39	22.85	33	PASS
Band38	10MHz	256QAM	38000	1RB#0	20.16	22.62	33	PASS
Band38	10MHz	256QAM	38000	1RB#24	20.33	22.79	33	PASS
Band38	10MHz	256QAM	38000	1RB#49	20.14	22.60	33	PASS
Band38	10MHz	256QAM	38000	50RB#0	20.30	22.76	33	PASS
Band38	10MHz	256QAM	38200	1RB#0	20.09	22.55	33	PASS
Band38	10MHz	256QAM	38200	1RB#24	19.88	22.34	33	PASS



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Band38	10MHz	256QAM	38200	1RB#49	20.13	22.59	33	PASS
Band38	10MHz	256QAM	38200	50RB#0	20.21	22.67	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	25.64	28.10	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	25.75	28.21	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	25.63	28.09	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	24.61	27.07	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	25.23	27.69	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	25.69	28.15	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	25.53	27.99	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	24.51	26.97	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	25.10	27.56	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	25.59	28.05	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	25.60	28.06	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	24.43	26.89	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	24.41	26.87	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	24.73	27.19	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	24.52	26.98	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	23.53	25.99	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	24.53	26.99	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	24.61	27.07	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	24.54	27.00	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	23.38	25.84	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	24.52	26.98	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	24.47	26.93	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	24.36	26.82	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	23.34	25.80	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	23.57	26.03	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	23.61	26.07	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	23.46	25.92	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	22.43	24.89	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	23.55	26.01	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	23.54	26.00	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	23.45	25.91	33	PASS



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Band38	15MHz	64QAM	38000	75RB#0	22.31	24.77	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	23.47	25.93	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	23.55	26.01	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	23.48	25.94	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	22.27	24.73	33	PASS
Band38	15MHz	256QAM	37825	1RB#0	19.99	22.45	33	PASS
Band38	15MHz	256QAM	37825	1RB#38	20.34	22.80	33	PASS
Band38	15MHz	256QAM	37825	1RB#74	20.13	22.59	33	PASS
Band38	15MHz	256QAM	37825	75RB#0	20.28	22.74	33	PASS
Band38	15MHz	256QAM	38000	1RB#0	20.09	22.55	33	PASS
Band38	15MHz	256QAM	38000	1RB#38	20.38	22.84	33	PASS
Band38	15MHz	256QAM	38000	1RB#74	20.19	22.65	33	PASS
Band38	15MHz	256QAM	38000	75RB#0	20.23	22.69	33	PASS
Band38	15MHz	256QAM	38175	1RB#0	19.96	22.42	33	PASS
Band38	15MHz	256QAM	38175	1RB#38	20.11	22.57	33	PASS
Band38	15MHz	256QAM	38175	1RB#74	20.03	22.49	33	PASS
Band38	15MHz	256QAM	38175	75RB#0	20.14	22.60	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	25.64	28.10	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	25.67	28.13	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	19.88	22.34	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	24.62	27.08	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	25.40	27.86	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	25.67	28.13	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	25.53	27.99	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	24.48	26.94	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	25.28	27.74	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	25.59	28.05	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	25.59	28.05	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	24.56	27.02	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	24.58	27.04	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.99	24.45	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	24.41	26.87	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	23.51	25.97	33	PASS



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Band38	20MHz	16QAM	38000	1RB#0	24.45	26.91	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	24.55	27.01	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	24.42	26.88	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	23.40	25.86	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	24.40	26.86	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	24.58	27.04	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	24.31	26.77	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	23.48	25.94	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.72	24.18	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.08	23.54	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	23.59	26.05	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	22.46	24.92	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	23.66	26.12	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	23.52	25.98	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	23.53	25.99	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	22.30	24.76	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	23.48	25.94	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	23.55	26.01	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	23.46	25.92	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	22.37	24.83	33	PASS
Band38	20MHz	256QAM	37850	1RB#0	20.11	22.57	33	PASS
Band38	20MHz	256QAM	37850	1RB#49	19.80	22.26	33	PASS
Band38	20MHz	256QAM	37850	1RB#99	20.19	22.65	33	PASS
Band38	20MHz	256QAM	37850	100RB#0	20.27	22.73	33	PASS
Band38	20MHz	256QAM	38000	1RB#0	20.19	22.65	33	PASS
Band38	20MHz	256QAM	38000	1RB#49	20.33	22.79	33	PASS
Band38	20MHz	256QAM	38000	1RB#99	20.12	22.58	33	PASS
Band38	20MHz	256QAM	38000	100RB#0	20.20	22.66	33	PASS
Band38	20MHz	256QAM	38150	1RB#0	20.07	22.53	33	PASS
Band38	20MHz	256QAM	38150	1RB#49	20.17	22.63	33	PASS
Band38	20MHz	256QAM	38150	1RB#99	20.08	22.54	33	PASS
Band38	20MHz	256QAM	38150	100RB#0	20.26	22.72	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band38_ 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	5142.1800	41.01	-45.33	32.96	-66.62	-25.00	41.62	254	59	Horizontal
2	7713.2700	39.52	-43.01	36.61	-62.14	-25.00	37.14	159	239	Horizontal
3	10284.3600	34.85	-39.15	38.83	-60.73	-25.00	35.73	133	118	Horizontal
4	12855.4500	32.79	-36.99	39.69	-59.77	-25.00	34.77	265	14	Horizontal
5	15426.5400	31.84	-33.99	38.67	-58.74	-25.00	33.74	145	256	Horizontal
6	17997.6300	33.00	-34.58	42.23	-54.60	-25.00	29.60	199	73	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	5142.1800	41.65	-45.33	32.96	-65.98	-25.00	40.98	214	166	Vertical
2	7713.2700	40.36	-43.01	36.61	-61.30	-25.00	36.30	184	166	Vertical
3	10284.3600	34.94	-39.15	38.83	-60.64	-25.00	35.64	178	4	Vertical
4	12855.4500	32.93	-36.99	39.69	-59.63	-25.00	34.63	198	271	Vertical
5	15426.5400	31.75	-33.99	38.67	-58.83	-25.00	33.83	145	287	Vertical
6	17997.6300	33.15	-34.58	42.23	-54.45	-25.00	29.45	163	360	Vertical



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Test Band = LTE Band38_ 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	3955.5	46.66	-46.15	30.70	-64.05	-25.00	39.05	245	360	Horizontal
2	5172.1800	41.36	-45.30	32.98	-66.23	-25.00	41.23	156	3	Horizontal
3	7758.2700	39.53	-42.64	36.70	-61.67	-25.00	36.67	195	286	Horizontal
4	10344.3600	35.81	-39.05	38.85	-59.66	-25.00	34.66	148	74	Horizontal
5	12930.4500	32.98	-37.18	39.76	-59.70	-25.00	34.70	175	195	Horizontal
6	15516.5400	31.12	-35.30	38.55	-60.89	-25.00	35.89	136	195	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	4283.25	43.12	-45.58	31.27	-66.45	-25.00	41.45	254	147	Vertical
2	5172.1800	41.91	-45.30	32.98	-65.68	-25.00	40.68	126	28	Vertical
3	7758.2700	40.00	-42.64	36.70	-61.20	-25.00	36.20	152	28	Vertical
4	10344.3600	36.03	-39.05	38.85	-59.44	-25.00	34.44	136	133	Vertical
5	12930.4500	33.79	-37.18	39.76	-58.89	-25.00	33.89	259	224	Vertical
6	15516.5400	31.25	-35.30	38.55	-60.76	-25.00	35.76	145	224	Vertical



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Test Band = LTE Band38_ 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	3957	46.32	-46.14	30.70	-64.38	-25.00	39.38	254	360	Horizontal
2	5202.1800	41.55	-45.27	32.99	-66.00	-25.00	41.00	165	331	Horizontal
3	7803.2700	40.24	-42.33	36.78	-60.56	-25.00	35.56	185	301	Horizontal
4	10404.3600	34.61	-39.00	38.86	-60.79	-25.00	35.79	196	134	Horizontal
5	13005.4500	32.66	-37.31	39.83	-60.08	-25.00	35.08	142	358	Horizontal
6	15606.5400	32.31	-34.87	38.43	-59.39	-25.00	34.39	133	316	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	3768.75	43.63	-45.79	30.22	-67.20	-25.00	42.20	214	316	Vertical
2	5202.1800	42.03	-45.27	32.99	-65.52	-25.00	40.52	158	194	Vertical
3	7803.2700	39.40	-42.33	36.78	-61.40	-25.00	36.40	169	149	Vertical
4	10404.3600	34.32	-39.00	38.86	-61.08	-25.00	36.08	155	343	Vertical
5	13005.4500	33.17	-37.31	39.83	-59.57	-25.00	34.57	124	44	Vertical
6	15606.5400	31.80	-34.87	38.43	-59.90	-25.00	34.90	180	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:

 $AF = \text{Antenna Factor (dB/m)}$
 $\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$
 $\text{Margin} = \text{Limit} - \text{Level}$

---End of Attachment---

