

Report No.: SUCR240300004401

Rev.: 01

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Appendix B.1

LTE Band 2



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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
Band2	1.4MHz	QPSK	18607	1RB#0	22.6	24.19	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.65	24.24	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.51	24.1	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.53	23.12	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.45	24.04	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.57	24.16	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.45	24.04	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.59	23.18	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.77	24.36	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.01	24.6	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.88	24.47	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.05	23.64	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.97	23.56	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.16	23.75	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.88	23.47	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.7	22.29	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.64	23.23	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.82	23.41	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.86	23.45	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.61	22.2	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.18	23.77	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.18	23.77	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.39	23.98	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.2	22.79	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.68	24.27	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.65	24.24	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.67	24.26	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.74	23.33	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.68	24.27	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.72	24.31	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.63	24.22	33	PASS



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Band2	3MHz	QPSK	18900	15RB#0	21.75	23.34	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.9	24.49	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.18	24.77	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.09	24.68	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.08	23.67	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.99	23.58	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.04	23.63	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.99	23.58	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.71	22.3	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.91	23.5	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.08	23.67	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.89	23.48	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.78	22.37	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.32	23.91	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.32	23.91	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.33	23.92	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.17	22.76	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.73	24.32	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.65	24.24	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.67	24.26	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.66	23.25	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.68	24.27	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.73	24.32	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.77	24.36	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.75	23.34	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.15	24.74	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.06	24.65	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.97	24.56	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.13	23.72	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.91	23.5	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.94	23.53	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.02	23.61	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.75	22.34	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.04	23.63	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.99	23.58	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.05	23.64	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.76	22.35	33	PASS



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Band2	5MHz	16QAM	19175	1RB#0	22.34	23.93	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.4	23.99	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.3	23.89	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.17	22.76	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.69	24.28	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.68	24.27	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.64	24.23	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.65	23.24	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.67	24.26	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.71	24.3	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.66	24.25	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.85	23.44	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.9	24.49	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.03	24.62	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.05	24.64	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.11	23.7	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.04	23.63	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.96	23.55	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.05	23.64	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.79	22.38	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.98	23.57	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.15	23.74	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.07	23.66	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.87	22.46	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.31	23.9	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.44	24.03	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.34	23.93	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.18	22.77	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.71	24.3	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.7	24.29	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.58	24.17	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.69	23.28	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.65	24.24	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.66	24.25	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.8	24.39	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.74	23.33	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.01	24.6	33	PASS



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Band2	15MHz	QPSK	19125	1RB#38	23.07	24.66	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.1	24.69	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.08	23.67	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.01	23.6	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.02	23.61	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.04	23.63	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.78	22.37	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.96	23.55	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.93	23.52	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.13	23.72	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.85	22.44	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.38	23.97	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.34	23.93	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.38	23.97	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.15	22.74	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.57	24.16	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.76	24.35	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.53	24.12	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.7	23.29	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.56	24.15	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.72	24.31	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.75	24.34	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.72	23.31	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.9	24.49	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.01	24.6	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.12	24.71	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.17	23.76	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.82	23.41	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.01	23.6	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.9	23.49	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.6	22.19	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.87	23.46	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.95	23.54	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.1	23.69	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.81	22.4	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.25	23.84	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.27	23.86	33	PASS



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Band2	20MHz	16QAM	19100	1RB#99	22.38	23.97	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.16	22.75	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 2_ 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	3702	56.01	-48.50	28.98	-58.77	-13.00	45.77	Horizontal
2	5553.27	43.70	-47.66	32.71	-66.51	-13.00	53.51	Horizontal
3	7404.36	41.66	-46.17	36.57	-63.20	-13.00	50.20	Horizontal
4	9255.45	40.90	-43.17	37.83	-59.70	-13.00	46.70	Horizontal
5	11106.54	37.04	-40.36	39.38	-59.20	-13.00	46.20	Horizontal
6	12957.63	36.23	-39.41	38.63	-59.81	-13.00	46.81	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702	49.11	-48.50	28.98	-65.67	-13.00	52.67	Vertical
2	5553.27	44.57	-47.66	32.71	-65.64	-13.00	52.64	Vertical
3	7404.36	42.93	-46.17	36.57	-61.93	-13.00	48.93	Vertical
4	9255.45	42.25	-43.17	37.83	-58.35	-13.00	45.35	Vertical
5	11106.54	37.23	-40.36	39.38	-59.01	-13.00	46.01	Vertical
6	12957.63	36.18	-39.41	38.63	-59.86	-13.00	46.86	Vertical



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Test Band = LTE Band 2_ 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	3742.18	52.20	-48.37	29.04	-62.39	-13.00	49.39	Horizontal
2	5613.27	43.90	-47.67	32.72	-66.31	-13.00	53.31	Horizontal
3	7484.36	40.87	-46.17	36.76	-63.80	-13.00	50.80	Horizontal
4	9355.45	40.39	-42.97	37.92	-59.92	-13.00	46.92	Horizontal
5	11226.54	36.91	-40.37	39.35	-59.37	-13.00	46.37	Horizontal
6	13097.63	36.20	-38.42	38.83	-58.65	-13.00	45.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	46.67	-48.37	29.04	-67.92	-13.00	54.92	Vertical
2	5613.27	44.39	-47.67	32.72	-65.82	-13.00	52.82	Vertical
3	7484.36	40.82	-46.17	36.76	-63.85	-13.00	50.85	Vertical
4	9355.45	43.72	-42.97	37.92	-56.59	-13.00	43.59	Vertical
5	11226.54	37.20	-40.37	39.35	-59.08	-13.00	46.08	Vertical
6	13097.63	36.45	-38.42	38.83	-58.40	-13.00	45.40	Vertical



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**Test Band = LTE Band 2_ 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	3782.18	57.50	-48.24	29.10	-56.90	-13.00	43.90	Horizontal
2	5673.27	43.22	-47.55	32.73	-66.85	-13.00	53.85	Horizontal
3	7564.36	41.63	-45.14	36.72	-62.05	-13.00	49.05	Horizontal
4	9455.45	39.26	-42.67	38.01	-60.66	-13.00	47.66	Horizontal
5	11346.54	37.52	-40.28	39.33	-58.69	-13.00	45.69	Horizontal
6	13237.63	35.85	-38.85	39.15	-59.11	-13.00	46.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.25	50.05	-48.24	29.10	-64.35	-13.00	51.35	Vertical
2	5673	45.92	-47.55	32.73	-64.15	-13.00	51.15	Vertical
3	9455.25	43.04	-42.67	38.01	-56.88	-13.00	43.88	Vertical
4	7564.36	42.44	-45.14	36.72	-61.24	-13.00	48.24	Vertical
5	11346.54	36.73	-40.28	39.33	-59.48	-13.00	46.48	Vertical
6	13237.63	36.39	-38.85	39.15	-58.57	-13.00	45.57	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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