

Report No.: SEWM2303000098RG01

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Appendix B.2

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	22.74	26.31	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.87	26.44	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.67	26.24	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.97	25.54	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.76	26.33	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.67	26.24	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.97	26.54	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.81	25.38	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.6	26.17	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.27	25.84	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.58	26.15	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.46	25.03	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.68	25.25	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.76	25.33	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.42	24.99	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.71	24.28	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.59	25.16	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.52	25.09	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.41	24.98	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.53	24.1	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.21	24.78	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.92	25.49	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.27	24.84	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.35	23.92	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.05	26.62	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.93	26.5	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.53	26.1	33.00	PASS



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Band2	3MHz	QPSK	18615	15RB#0	21.93	25.5	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.48	26.05	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.51	26.08	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.63	26.2	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.86	25.43	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.63	26.2	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.39	25.96	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.5	26.07	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.47	25.04	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.6	25.17	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.42	24.99	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.75	25.32	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.76	24.33	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.62	25.19	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.54	25.11	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.66	25.23	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.55	24.12	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.36	24.93	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.18	24.75	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	20.99	24.56	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.33	23.9	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.8	26.37	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.88	26.45	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.93	26.5	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.91	25.48	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.56	26.13	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.89	26.46	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.49	26.06	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.79	25.36	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	21.35	24.92	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.54	26.11	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.32	25.89	33.00	PASS



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Band2	5MHz	QPSK	19175	25RB#0	21.57	25.14	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.4	24.97	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.41	24.98	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.51	25.08	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.92	24.49	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.58	25.15	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.26	24.83	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.48	25.05	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.66	24.23	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.5	25.07	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.09	24.66	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.31	24.88	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.6	24.17	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.98	26.55	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23	26.57	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.76	26.33	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.85	25.42	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.85	26.42	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.9	26.47	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.65	26.22	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.72	25.29	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.32	25.89	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.94	26.51	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.6	26.17	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.57	25.14	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.61	25.18	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.59	25.16	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.63	25.2	33.00	PASS
Band2	10MHz	16QAM	18650	27RB#0	20.92	24.49	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.67	25.24	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.47	25.04	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.5	25.07	33.00	PASS



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Band2	10MHz	16QAM	18900	27RB#0	20.76	24.33	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.48	25.05	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.42	24.99	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.25	24.82	33.00	PASS
Band2	10MHz	16QAM	19150	27RB#0	20.57	24.14	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.87	26.44	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.5	26.07	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.47	26.04	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.83	25.4	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.72	26.29	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.78	26.35	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.51	26.08	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.72	25.29	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.64	26.21	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.39	25.96	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.16	25.73	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.48	25.05	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.57	25.14	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.13	25.7	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.4	24.97	33.00	PASS
Band2	15MHz	16QAM	18675	27RB#0	20.84	24.41	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.26	24.83	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.93	25.5	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.82	25.39	33.00	PASS
Band2	15MHz	16QAM	18900	27RB#0	20.89	24.46	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	20.56	24.13	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.7	25.27	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.39	24.96	33.00	PASS
Band2	15MHz	16QAM	19125	27RB#0	20.58	24.15	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.99	26.56	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.57	26.14	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.35	25.92	33.00	PASS



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Band2	20MHz	QPSK	18700	100RB#0	21.75	25.32	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.54	26.11	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.43	26	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.54	26.11	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.66	25.23	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.05	25.62	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.58	26.15	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.21	25.78	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.5	25.07	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	22	25.57	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.46	25.03	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.36	24.93	33.00	PASS
Band2	20MHz	16QAM	18700	27RB#0	21	24.57	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.44	25.01	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.41	24.98	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.5	25.07	33.00	PASS
Band2	20MHz	16QAM	18900	27RB#0	20.88	24.45	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.19	24.76	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.89	25.46	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.1	24.67	33.00	PASS
Band2	20MHz	16QAM	19100	27RB#0	20.41	23.98	33.00	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 2_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]	Height [cm]	Angle [°]	Polarity
1	3702	60.98	-45.69	29.88	-50.09	-13.00	37.09	184	207	Horizontal
2	5553	56.83	-43.87	32.77	-49.53	-13.00	36.53	219	325	Horizontal
3	7404.36	45.18	-41.96	36.44	-55.60	-13.00	42.60	156	207	Horizontal
4	9255.45	39.07	-38.39	38.57	-56.01	-13.00	43.01	241	109	Horizontal
5	11106.54	32.37	-35.35	39.49	-58.75	-13.00	45.75	126	258	Horizontal
6	12957.63	33.56	-34.89	39.56	-57.04	-13.00	44.04	278	92	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	3702	60.25	-45.69	29.88	-50.82	-13.00	37.82	139	243	Vertical
2	5553.27	57.25	-43.87	32.77	-49.11	-13.00	36.11	246	344	Vertical
3	7404.36	39.54	-41.96	36.44	-61.24	-13.00	48.24	175	5	Vertical
4	9255.45	33.08	-38.39	38.57	-62.00	-13.00	49.00	216	0	Vertical
5	11106.54	33.63	-35.35	39.49	-57.49	-13.00	44.49	283	258	Vertical
6	12957.63	33.44	-34.89	39.56	-57.16	-13.00	44.16	144	277	Vertical



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Test Band = LTE Band 2_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]	Height [cm]	Angle [°]	Polarity
1	5613	59.16	-43.84	32.96	-46.98	-13.00	33.98	185	58	Horizontal
2	3742.18	57.10	-45.59	29.98	-53.76	-13.00	40.76	263	209	Horizontal
3	7484.36	40.39	-41.66	36.49	-60.04	-13.00	47.04	249	41	Horizontal
4	9355.45	39.30	-38.26	38.56	-55.66	-13.00	42.66	142	193	Horizontal
5	11226.54	33.05	-35.07	39.37	-57.90	-13.00	44.90	257	262	Horizontal
6	13097.63	32.51	-34.47	39.66	-57.56	-13.00	44.56	186	210	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	3742.18	59.17	-45.59	29.98	-51.69	-13.00	38.69	259	274	Vertical
2	5613.27	58.36	-43.84	32.96	-47.78	-13.00	34.78	178	3	Vertical
3	7484.36	39.18	-41.66	36.49	-61.25	-13.00	48.25	163	191	Vertical
4	9355.45	34.64	-38.26	38.56	-60.32	-13.00	47.32	214	193	Vertical
5	11226.54	34.74	-35.07	39.37	-56.21	-13.00	43.21	275	176	Vertical
6	13097.63	32.06	-34.47	39.66	-58.01	-13.00	45.01	144	294	Vertical



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Test Band = LTE Band 2_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]	Height [cm]	Angle [°]	Polarity
1	9455.25	45.17	-38.15	38.55	-49.69	-13.00	36.69	219	197	Horizontal
2	3782.18	55.84	-45.48	30.08	-54.82	-13.00	41.82	268	212	Horizontal
3	5673.27	56.99	-43.77	33.16	-48.89	-13.00	35.89	174	296	Horizontal
4	7564.36	44.01	-41.38	36.63	-56.00	-13.00	43.00	246	246	Horizontal
5	11346.54	31.65	-35.43	39.25	-59.79	-13.00	46.79	135	180	Horizontal
6	13237.63	31.27	-34.98	39.74	-59.22	-13.00	46.22	211	62	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	3782.18	57.43	-45.48	30.08	-53.23	-13.00	40.23	229	228	Vertical
2	5673.27	57.39	-43.77	33.16	-48.49	-13.00	35.49	237	5	Vertical
3	7564.36	38.14	-41.38	36.63	-61.87	-13.00	48.87	284	344	Vertical
4	9455.45	36.23	-38.15	38.55	-58.63	-13.00	45.63	148	0	Vertical
5	11346.54	32.77	-35.43	39.25	-58.67	-13.00	45.67	216	146	Vertical
6	13237.63	31.20	-34.98	39.74	-59.29	-13.00	46.29	153	357	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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 Wireless Laboratory

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