



Report No.: SEWM2308000332RG01

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	22.61	25.48	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.65	25.52	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.67	25.54	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.64	24.51	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.47	25.34	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.56	25.43	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.46	25.33	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.39	24.26	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.55	25.42	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.64	25.51	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.55	25.42	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.56	24.43	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.86	24.73	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.89	24.76	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.77	24.64	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.6	23.47	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.73	24.6	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.58	24.45	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.51	24.38	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.54	23.41	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.98	24.85	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22	24.87	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.91	24.78	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.65	23.52	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.7	25.57	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.72	25.59	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.64	25.51	33	PASS



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Band2	3MHz	QPSK	18615	15RB#0	21.65	24.52	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.6	25.47	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.52	25.39	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.47	25.34	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.46	24.33	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.67	25.54	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.65	25.52	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.63	25.5	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.56	24.43	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.84	24.71	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.9	24.77	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.72	24.59	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.67	23.54	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.74	24.61	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.7	24.57	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.66	24.53	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.44	23.31	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.93	24.8	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.97	24.84	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.8	24.67	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.56	23.43	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.78	25.65	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.76	25.63	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.73	25.6	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.64	24.51	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.64	25.51	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.44	25.31	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.52	25.39	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.51	24.38	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.98	25.85	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.75	25.62	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.83	25.7	33	PASS



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Band2	5MHz	QPSK	19175	25RB#0	21.66	24.53	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.91	24.78	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.74	24.61	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.9	24.77	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.7	23.57	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.86	24.73	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.78	24.65	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.74	24.61	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.6	23.47	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.12	24.99	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	22	24.87	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.14	25.01	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.83	23.7	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.88	25.75	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.76	25.63	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.95	25.82	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.72	24.59	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.77	25.64	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.46	25.33	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.69	25.56	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.58	24.45	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.96	25.83	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.66	25.53	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.13	26	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.94	24.81	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.13	25	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.88	24.75	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.05	24.92	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.66	23.53	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.02	24.89	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.85	24.72	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.06	24.93	33	PASS



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Band2	10MHz	16QAM	18900	50RB#0	20.57	23.44	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.19	25.06	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.19	25.06	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.18	25.05	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.81	23.68	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.93	25.8	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.5	25.37	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.95	25.82	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.59	24.46	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.68	25.55	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.36	25.23	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.71	25.58	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.34	24.21	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.88	25.75	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.59	25.46	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.9	25.77	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.6	24.47	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.08	24.95	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.62	24.49	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.24	25.11	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.66	23.53	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.93	24.8	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.6	24.47	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.06	24.93	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.41	23.28	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.12	24.99	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.99	24.86	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.18	25.05	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.63	23.5	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.68	25.55	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.47	25.34	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.71	25.58	33	PASS



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Band2	20MHz	QPSK	18900	1RB#0	22.59	25.46	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.4	25.27	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.71	25.58	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.5	24.37	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.59	25.46	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.72	25.59	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.72	25.59	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.62	24.49	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.92	24.79	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.85	24.72	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.87	24.74	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.6	23.47	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.8	24.67	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.69	24.56	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.78	24.65	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.47	23.34	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.93	24.8	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.11	24.98	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.82	24.69	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.55	23.42	33	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	63.83	-45.69	29.88	-47.24	-13.00	34.24	214	25	Horizontal
2	5553	60.85	-43.87	32.77	-45.51	-13.00	32.51	309	100	Horizontal
3	7404.36	46.88	-41.96	36.44	-53.90	-13.00	40.90	224	137	Horizontal
4	9255.45	35.03	-38.39	38.57	-60.05	-13.00	47.05	152	51	Horizontal
5	11106.54	32.48	-35.35	39.49	-58.64	-13.00	45.64	237	112	Horizontal
6	12957.63	33.38	-34.89	39.56	-57.22	-13.00	44.22	181	1	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	67.94	-45.69	29.88	-43.13	-13.00	30.13	185	100	Vertical
2	5553	65.48	-43.87	32.77	-40.88	-13.00	27.88	226	223	Vertical
3	7404	51.33	-41.96	36.44	-49.45	-13.00	36.45	135	138	Vertical
4	9255.45	36.06	-38.39	38.57	-59.02	-13.00	46.02	274	138	Vertical
5	11106.54	32.43	-35.35	39.49	-58.69	-13.00	45.69	169	357	Vertical
6	12957.63	33.22	-34.89	39.56	-57.38	-13.00	44.38	208	186	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	56.60	-43.84	32.96	-49.54	-13.00	36.54	159	86	Horizontal
2	3742.18	59.54	-45.59	29.98	-51.32	-13.00	38.32	263	124	Horizontal
3	7484.36	40.58	-41.66	36.49	-59.85	-13.00	46.85	284	247	Horizontal
4	9355.45	35.89	-38.26	38.56	-59.07	-13.00	46.07	174	247	Horizontal
5	11226.54	32.81	-35.07	39.37	-58.14	-13.00	45.14	193	49	Horizontal
6	13097.63	32.24	-34.47	39.66	-57.83	-13.00	44.83	204	74	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	63.94	-45.59	29.98	-46.92	-13.00	33.92	258	98	Vertical
2	5613.27	59.51	-43.84	32.96	-46.63	-13.00	33.63	307	210	Vertical
3	7484.36	44.20	-41.66	36.49	-56.23	-13.00	43.23	254	136	Vertical
4	9355.45	36.32	-38.26	38.56	-58.64	-13.00	45.64	176	261	Vertical
5	11226.54	32.54	-35.07	39.37	-58.41	-13.00	45.41	204	272	Vertical
6	13097.63	32.10	-34.47	39.66	-57.97	-13.00	44.97	169	309	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	3782.25	58.07	-45.48	30.08	-52.59	-13.00	39.59	214	271	Horizontal
2	5673	60.55	-43.77	33.15	-45.33	-13.00	32.33	314	100	Horizontal
3	7564.36	44.80	-41.38	36.63	-55.21	-13.00	42.21	259	208	Horizontal
4	9455.45	36.47	-38.15	38.55	-58.39	-13.00	45.39	231	123	Horizontal
5	11346.54	31.71	-35.43	39.25	-59.73	-13.00	46.73	189	135	Horizontal
6	13237.63	31.96	-34.98	39.74	-58.53	-13.00	45.53	163	246	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	3782.25	64.44	-45.48	30.08	-46.22	-13.00	33.22	163	236	Vertical
2	5673	64.41	-43.77	33.15	-41.47	-13.00	28.47	241	65	Vertical
3	7564.36	48.44	-41.38	36.63	-51.57	-13.00	38.57	187	139	Vertical
4	9455.45	36.88	-38.15	38.55	-57.98	-13.00	44.98	265	236	Vertical
5	11346.54	32.24	-35.43	39.25	-59.20	-13.00	46.20	174	272	Vertical
6	13237.63	32.92	-34.98	39.74	-57.57	-13.00	44.57	188	211	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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