

Report No.: SEWA2209000044RG01

Rev.: 01

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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	23.35	25.41	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.28	25.34	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.18	25.24	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.17	24.23	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.98	25.04	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.05	25.11	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.21	25.27	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.98	24.04	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.76	24.82	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.82	24.88	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.68	24.74	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.79	23.85	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.14	24.20	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.99	24.05	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.99	24.05	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.09	23.15	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.82	23.88	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.81	23.87	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.85	23.91	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.94	23.00	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.59	23.65	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.54	23.60	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.73	23.79	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.95	23.01	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.11	25.17	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.04	25.10	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.15	25.21	33	PASS



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Band2	3MHz	QPSK	18615	15RB#0	22.12	24.18	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.08	25.14	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.03	25.09	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.09	25.15	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.97	24.03	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.13	25.19	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.65	24.71	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.87	24.93	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.87	23.93	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.86	23.92	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.84	23.90	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.37	24.43	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.99	23.05	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.87	23.93	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.82	23.88	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.80	23.86	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.05	23.11	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.56	23.62	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.61	23.67	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.59	23.65	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.90	22.96	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.97	25.03	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.16	25.22	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.12	25.18	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.98	24.04	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.31	25.37	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.14	25.20	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.06	25.12	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.93	23.99	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.87	24.93	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.79	24.85	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.83	24.89	33	PASS



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Band2	5MHz	QPSK	19175	25RB#0	21.90	23.96	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.89	23.95	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.78	23.84	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.63	23.69	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.04	23.10	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.81	23.87	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.69	23.75	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.85	23.91	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.12	23.18	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.65	23.71	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.63	23.69	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.65	23.71	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.92	22.98	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.12	25.18	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.41	25.47	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.06	25.12	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.10	24.16	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.08	25.14	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.22	25.28	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.22	25.28	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.07	24.13	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.10	25.16	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.25	25.31	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.04	25.10	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.93	23.99	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.85	23.91	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.92	23.98	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.96	24.02	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.17	23.23	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.74	23.80	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.80	23.86	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.74	23.80	33	PASS



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Band2	10MHz	16QAM	18900	50RB#0	21.13	23.19	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.74	23.80	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.50	24.56	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.77	23.83	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.79	22.85	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.08	25.14	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.19	25.25	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.94	25.00	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.12	24.18	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.02	25.08	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.07	25.13	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.94	25.00	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.05	24.11	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.86	24.92	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.86	24.92	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.79	24.85	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.91	23.97	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.75	23.81	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.95	24.01	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.98	24.04	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.28	23.34	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.38	24.44	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.80	23.86	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.80	23.86	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.03	23.09	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.56	23.62	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.41	24.47	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.11	24.17	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.81	22.87	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.06	25.12	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.40	25.46	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.16	25.22	33	PASS



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Band2	20MHz	QPSK	18700	100RB#0	22.24	24.30	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.06	25.12	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.18	25.24	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.86	24.92	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.05	24.11	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.81	24.87	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.03	25.09	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.83	24.89	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.92	23.98	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.76	23.82	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.84	23.90	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.82	23.88	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.29	23.35	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.68	23.74	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.55	24.61	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.61	23.67	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.01	23.07	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.65	23.71	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.63	23.69	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.62	23.68	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.78	22.84	33	PASS



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## Field Strength of Spurious Radiation

Test Band = LTE Band2\_ 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	3702.1800	62.40	-45.51	29.98	-48.39	-13.00	35.39	145	330	Horizontal
2	5553.2700	51.47	-45.15	32.97	-55.97	-13.00	42.97	251	132	Horizontal
3	7404.3600	46.55	-43.40	36.49	-55.62	-13.00	42.62	236	284	Horizontal
4	9255.4500	37.67	-40.23	38.38	-59.44	-13.00	46.44	261	13	Horizontal
5	11106.5400	31.71	-37.93	39.09	-62.39	-13.00	49.39	145	26	Horizontal
6	12957.6300	31.56	-37.24	39.79	-61.15	-13.00	48.15	185	117	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	3702.1800	59.94	-45.51	29.98	-50.85	-13.00	37.85	214	194	Vertical
2	5553.2700	50.22	-45.15	32.97	-57.22	-13.00	44.22	136	117	Vertical
3	7404.3600	45.12	-43.40	36.49	-57.05	-13.00	44.05	258	71	Vertical
4	9255.4500	37.99	-40.23	38.38	-59.12	-13.00	46.12	146	194	Vertical
5	11106.5400	32.01	-37.93	39.09	-62.09	-13.00	49.09	291	331	Vertical
6	12957.6300	34.18	-37.24	39.79	-58.53	-13.00	45.53	145	25	Vertical



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Test Band = LTE Band2\_ 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	3742.1800	61.06	-45.68	30.12	-49.76	-13.00	36.76	218	329	Horizontal
2	5613.2700	50.74	-45.04	33.07	-56.49	-13.00	43.49	145	146	Horizontal
3	7484.3600	44.74	-43.18	36.45	-57.25	-13.00	44.25	236	329	Horizontal
4	9355.4500	38.67	-40.00	38.46	-58.14	-13.00	45.14	261	314	Horizontal
5	11226.5400	35.18	-37.40	39.11	-58.37	-13.00	45.37	199	177	Horizontal
6	13097.6300	32.44	-37.01	39.87	-59.95	-13.00	46.95	142	177	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	3742.1800	59.19	-45.68	30.12	-51.63	-13.00	38.63	254	6	Vertical
2	5613.2700	51.11	-45.04	33.07	-56.12	-13.00	43.12	126	164	Vertical
3	7484.3600	44.68	-43.18	36.45	-57.31	-13.00	44.31	135	0	Vertical
4	9355.4500	39.08	-40.00	38.46	-57.73	-13.00	44.73	188	0	Vertical
5	11226.5400	34.91	-37.40	39.11	-58.64	-13.00	45.64	149	301	Vertical
6	13097.6300	32.99	-37.01	39.87	-59.40	-13.00	46.40	175	118	Vertical



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Test Band = LTE Band2\_ 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	3782.1800	57.80	-45.85	30.27	-53.04	-13.00	40.04	214	301	Horizontal
2	5673.2700	49.76	-44.91	33.29	-57.12	-13.00	44.12	125	88	Horizontal
3	7564.3600	45.36	-43.00	36.41	-56.50	-13.00	43.50	163	1	Horizontal
4	9455.4500	40.25	-40.05	38.48	-56.59	-13.00	43.59	291	301	Horizontal
5	11346.5400	35.89	-37.40	39.11	-57.66	-13.00	44.66	148	0	Horizontal
6	13237.6300	30.18	-37.08	39.96	-62.19	-13.00	49.19	175	255	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	3782.1800	57.29	-45.85	30.27	-53.55	-13.00	40.55	125	6	Vertical
2	5673.2700	49.89	-44.91	33.29	-56.99	-13.00	43.99	136	133	Vertical
3	7564.3600	45.35	-43.00	36.41	-56.51	-13.00	43.51	261	285	Vertical
4	9455.4500	39.57	-40.05	38.48	-57.27	-13.00	44.27	144	147	Vertical
5	11346.5400	34.26	-37.40	39.11	-59.29	-13.00	46.29	185	193	Vertical
6	13237.6300	30.99	-37.08	39.96	-61.38	-13.00	48.38	168	13	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

---End of Attachment---



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