

Report No.: SEWM2211000245RG01

Rev.: 01

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# Appendix B.6

## LTE Band 13



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.08	18.93	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.48	19.33	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.35	19.2	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.35	18.2	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.34	19.19	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.57	19.42	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.46	19.31	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.47	18.32	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.34	19.19	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.44	19.29	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.51	19.36	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.47	18.32	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.08	17.93	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.1	17.95	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.13	17.98	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.37	17.22	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.25	18.1	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.78	18.63	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.29	18.14	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.39	17.24	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.19	18.04	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.76	18.61	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.83	18.68	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.42	17.27	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.16	19.01	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.42	19.27	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.27	19.12	34.77	PASS



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Band13	10MHz	QPSK	23230	50RB#0	22.36	18.21	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.23	18.08	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.2	18.05	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.19	18.04	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.34	17.19	34.77	PASS



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## Field Strength of Spurious Radiation

Test Band = LTE Band 13 BW 10M\_ 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	1555.18	57.35	-48.51	25.56	-60.86	-13.00	47.86	201	358	Horizontal
2	2332.77	46.55	-47.62	27.57	-68.76	-13.00	55.76	174	290	Horizontal
3	3110.36	44.71	-46.51	29.56	-67.51	-13.00	54.51	142	360	Horizontal
4	3887.95	43.72	-45.54	30.33	-66.75	-13.00	53.75	256	360	Horizontal
5	4665.54	40.86	-44.58	31.80	-67.18	-13.00	54.18	266	290	Horizontal
6	5443.13	42.54	-43.83	32.60	-63.95	-13.00	50.95	358	87	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	1555.18	49.46	-48.51	25.56	-68.75	-13.00	55.75	208	200	Vertical
2	2332.77	45.07	-47.62	27.57	-70.24	-13.00	57.24	286	0	Vertical
3	3110.36	44.30	-46.51	29.56	-67.92	-13.00	54.92	254	2	Vertical
4	3887.95	42.54	-45.54	30.33	-67.93	-13.00	54.93	142	114	Vertical
5	4665.54	40.90	-44.58	31.80	-67.14	-13.00	54.14	286	157	Vertical
6	5443.13	43.05	-43.83	32.60	-63.44	-13.00	50.44	233	258	Vertical



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**Test Band = LTE Band 13 BW 5M\_ 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	1554.5	58.40	-48.51	25.55	-59.81	-13.00	46.81	285	360	Horizontal
2	2332.02	44.91	-47.62	27.57	-70.40	-13.00	57.40	263	28	Horizontal
3	3109.36	44.24	-46.51	29.56	-67.98	-13.00	54.98	254	127	Horizontal
4	3886.7	41.49	-45.54	30.33	-68.98	-13.00	55.98	142	360	Horizontal
5	4664.04	40.45	-44.58	31.79	-67.59	-13.00	54.59	263	352	Horizontal
6	5441.38	42.26	-43.83	32.60	-64.23	-13.00	51.23	268	360	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	1554.68	46.73	-48.51	25.56	-71.48	-13.00	58.48	296	357	Vertical
2	2332.02	45.55	-47.62	27.57	-69.76	-13.00	56.76	241	7	Vertical
3	3109.36	44.53	-46.51	29.56	-67.69	-13.00	54.69	142	274	Vertical
4	3886.7	42.11	-45.54	30.33	-68.36	-13.00	55.36	226	347	Vertical
5	4664.04	40.78	-44.58	31.79	-67.26	-13.00	54.26	254	186	Vertical
6	5441.38	42.47	-43.83	32.60	-64.02	-13.00	51.02	154	15	Vertical



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Test Band = LTE Band 13 BW 5M\_ 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	1559.5	58.60	-48.51	25.56	-59.61	-40.00	19.61	236	360	Horizontal
2	2339.52	45.77	-47.61	27.58	-69.52	-13.00	56.52	285	360	Horizontal
3	3119.36	44.56	-46.49	29.55	-67.64	-13.00	54.64	241	14	Horizontal
4	3899.2	41.52	-45.53	30.36	-68.91	-13.00	55.91	112	133	Horizontal
5	4679.04	41.77	-44.57	31.83	-66.23	-13.00	53.23	255	357	Horizontal
6	5458.88	42.78	-43.82	32.60	-63.70	-13.00	50.70	233	231	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	1559.68	51.68	-48.51	25.56	-66.53	-40.00	26.53	241	332	Vertical
2	2339.52	46.03	-47.61	27.58	-69.26	-13.00	56.26	174	28	Vertical
3	3119.36	45.05	-46.49	29.55	-67.15	-13.00	54.15	155	359	Vertical
4	3899.2	41.80	-45.53	30.36	-68.63	-13.00	55.63	263	142	Vertical
5	4679.04	41.14	-44.57	31.83	-66.86	-13.00	53.86	265	0	Vertical
6	5458.88	42.64	-43.82	32.60	-63.84	-13.00	50.84	214	360	Vertical



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**Test Band = LTE Band 13 BW 5M\_ 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	1564.5	58.03	-48.51	25.56	-60.17	-40.00	20.17	296	352	Horizontal
2	2347.02	46.46	-47.61	27.60	-68.82	-13.00	55.82	265	328	Horizontal
3	3129.36	44.44	-46.46	29.55	-67.73	-13.00	54.73	285	217	Horizontal
4	3911.7	42.29	-45.53	30.39	-68.11	-13.00	55.11	241	39	Horizontal
5	4694.04	41.69	-44.55	31.87	-66.26	-13.00	53.26	142	84	Horizontal
6	5476.38	42.67	-43.80	32.60	-63.79	-13.00	50.79	201	345	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	1564.5	52.15	-48.51	25.56	-66.05	-40.00	26.05	201	58	Vertical
2	2347.02	45.69	-47.61	27.60	-69.59	-13.00	56.59	174	8	Vertical
3	3129.36	44.60	-46.46	29.55	-67.57	-13.00	54.57	142	171	Vertical
4	3911.7	41.67	-45.53	30.39	-68.73	-13.00	55.73	285	75	Vertical
5	4694.04	41.89	-44.55	31.87	-66.06	-13.00	53.06	263	159	Vertical
6	5476.38	42.84	-43.80	32.60	-63.62	-13.00	50.62	269	242	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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