



Report No.: SEWM2210000221RG01

Rev.: 01

Page: 1 of 8

# Appendix B.7

## LTE Band 14



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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
Band14	5MHz	QPSK	23305	1RB#0	23.37	21.85	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.35	21.83	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.28	21.76	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.4	20.88	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.25	21.73	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.42	21.9	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.31	21.79	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.33	20.81	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.16	21.64	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.36	21.84	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.23	21.71	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.26	20.74	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.4	20.88	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.51	20.99	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.55	21.03	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.4	19.88	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.55	21.03	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.44	20.92	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.43	20.91	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.34	19.82	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.53	21.01	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.49	20.97	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.41	20.89	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.39	19.87	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.42	19.9	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.48	19.96	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.24	19.72	34.77	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 3 of 8

Band14	5MHz	64QAM	23305	25RB#0	20.36	18.84	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.48	19.96	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.51	19.99	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.44	19.92	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.31	18.79	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.46	19.94	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.53	20.01	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.48	19.96	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.31	18.79	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.35	16.83	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	18.48	16.96	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	18.37	16.85	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	18.34	16.82	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	18.46	16.94	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	18.51	16.99	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.52	17	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	18.37	16.85	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.41	16.89	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	18.42	16.9	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	18.35	16.83	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	18.3	16.78	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.42	21.9	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.41	21.89	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.31	21.79	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.36	20.84	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.49	20.97	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.49	20.97	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.46	20.94	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.36	19.84	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.4	19.88	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.52	20	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.38	19.86	34.77	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 4 of 8

Band14	10MHz	64QAM	23330	50RB#0	20.25	18.73	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	18.19	16.67	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	18.47	16.95	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	18.51	16.99	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	18.33	16.81	34.77	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 5 of 8

## Field Strength of Spurious Radiation

**Test Band = LTE Band14\_5M\_ 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	1576.5714	69.05	-48.29	25.38	-49.12	-40.00	9.12	215	56	Horizontal
2	2365.1429	63.80	-47.47	27.42	-51.50	-13.00	38.50	144	240	Horizontal
3	3153.3600	45.51	-46.50	29.60	-66.65	-13.00	53.65	126	277	Horizontal
4	3941.7000	47.95	-46.22	30.66	-62.86	-13.00	49.86	138	289	Horizontal
5	4730.0400	41.86	-45.75	32.11	-67.04	-13.00	54.04	192	183	Horizontal
6	5518.3800	41.55	-45.16	32.93	-65.94	-13.00	52.94	240	42	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	1576.5714	68.38	-48.29	25.38	-49.79	-40.00	9.79	175	133	Vertical
2	2365.0200	76.69	-47.47	27.42	-38.61	-13.00	25.61	142	254	Vertical
3	3153.1429	49.55	-46.51	29.60	-62.61	-13.00	49.61	156	280	Vertical
4	3941.7000	51.70	-46.22	30.66	-59.11	-13.00	46.11	129	41	Vertical
5	4730.0400	43.16	-45.75	32.11	-65.74	-13.00	52.74	132	291	Vertical
6	5518.3800	43.10	-45.16	32.93	-64.39	-13.00	51.39	302	242	Vertical



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 6 of 8

**Test Band = LTE Band14\_5M\_ 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	1581.6800	69.07	-48.29	25.37	-49.10	-40.00	9.10	288	79	Horizontal
2	2372.5200	65.50	-47.46	27.43	-49.80	-13.00	36.80	174	255	Horizontal
3	3163.3600	48.40	-46.46	29.62	-63.70	-13.00	50.70	159	265	Horizontal
4	3954.2000	47.84	-46.21	30.69	-62.94	-13.00	49.94	135	359	Horizontal
5	4745.0400	42.43	-45.73	32.15	-66.41	-13.00	53.41	146	105	Horizontal
6	5535.8800	41.52	-45.19	32.95	-65.98	-13.00	52.98	139	344	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	1581.6800	68.87	-48.29	25.37	-49.30	-40.00	9.30	254	130	Vertical
2	2372.5200	70.51	-47.46	27.43	-44.79	-13.00	31.79	126	267	Vertical
3	3163.3600	50.49	-46.46	29.62	-61.61	-13.00	48.61	100	279	Vertical
4	3954.2000	51.67	-46.21	30.69	-59.11	-13.00	46.11	135	224	Vertical
5	4745.0400	43.31	-45.73	32.15	-65.53	-13.00	52.53	175	187	Vertical
6	5535.8800	45.14	-45.19	32.95	-62.36	-13.00	49.36	190	236	Vertical



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 7 of 8

**Test Band = LTE Band14\_5M\_ 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	1586.6800	68.46	-48.29	25.37	-49.72	-40.00	9.72	215	264	Horizontal
2	2380	65.86	-47.46	27.43	-49.43	-13.00	36.43	145	242	Horizontal
3	3173.3600	48.73	-46.41	29.64	-63.30	-13.00	50.30	126	279	Horizontal
4	3966.7000	48.02	-46.21	30.72	-62.73	-13.00	49.73	135	224	Horizontal
5	4760.0400	41.11	-45.70	32.20	-67.65	-13.00	54.65	188	309	Horizontal
6	5553.3800	41.27	-45.21	32.97	-66.23	-13.00	53.23	192	224	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	1586.6800	68.89	-48.29	25.37	-49.29	-40.00	9.29	213	160	Vertical
2	2380	72.20	-47.46	27.43	-43.09	-13.00	30.09	245	319	Vertical
3	3173.1429	51.78	-46.41	29.64	-60.26	-13.00	47.26	169	280	Vertical
4	3966.7000	53.47	-46.21	30.72	-57.28	-13.00	44.28	185	280	Vertical
5	4760	45.51	-45.70	32.20	-63.26	-13.00	50.26	147	280	Vertical
6	5553.1429	49.94	-45.21	32.97	-57.56	-13.00	44.56	190	267	Vertical



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 8 of 8

**Test Band = LTE Band14\_10M\_ 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	1577.1429	67.77	-48.29	25.38	-50.40	-40.00	10.40	223	68	Horizontal
2	2365.7143	66.06	-47.47	27.42	-49.24	-13.00	36.24	142	254	Horizontal
3	3154.2857	47.47	-46.50	29.60	-64.69	-13.00	51.69	165	263	Horizontal
4	3942.8571	47.84	-46.22	30.67	-62.97	-13.00	49.97	185	319	Horizontal
5	4731.5400	41.53	-45.75	32.11	-67.37	-13.00	54.37	149	227	Horizontal
6	5520.1300	41.29	-45.17	32.93	-66.20	-13.00	53.20	102	65	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	1577.1429	68.65	-48.29	25.38	-49.52	-40.00	9.52	248	132	Vertical
2	2365.7143	71.88	-47.47	27.42	-43.42	-13.00	30.42	178	268	Vertical
3	3154.2857	49.27	-46.50	29.60	-62.89	-13.00	49.89	195	295	Vertical
4	3942.8571	51.17	-46.22	30.67	-59.64	-13.00	46.64	142	202	Vertical
5	4731.5400	41.79	-45.75	32.11	-67.11	-13.00	54.11	133	251	Vertical
6	5520.1300	43.99	-45.17	32.93	-63.50	-13.00	50.50	258	239	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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