

Appendix B.7

LTE Band 13



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	23.44	23.72	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.54	23.82	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.27	23.55	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.46	22.74	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.51	23.79	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.57	23.85	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.21	23.49	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.59	22.87	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.30	23.58	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.41	23.69	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.55	23.83	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.46	22.74	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.03	22.31	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.85	23.13	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.58	22.86	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.56	21.84	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.96	22.24	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.44	22.72	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.45	22.73	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.59	21.87	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.41	22.69	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.32	22.6	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.35	22.63	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.37	21.65	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.28	23.56	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.39	23.67	34.77	PASS



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Rev.: 01

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Band13	10MHz	QPSK	23230	1RB#49	23.38	23.66	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.59	22.87	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.61	22.89	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.29	22.57	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.32	22.6	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.52	21.8	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band13_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	544.1300	52.69	-47.10	25.37	-64.30	-13.00	51.30	155	264	Horizontal
2	1555.1800	56.80	-48.30	25.41	-61.35	-13.00	48.35	174	251	Horizontal
3	2332.7700	59.84	-47.48	27.41	-55.50	-13.00	42.50	185	212	Horizontal
4	3110.3600	52.43	-46.70	29.53	-60.00	-13.00	47.00	196	197	Horizontal
5	3887.9500	50.80	-46.22	30.54	-60.14	-13.00	47.14	211	4	Horizontal
6	4665.5400	51.54	-45.80	31.91	-57.61	-13.00	44.61	142	331	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	544.1300	53.05	-47.10	25.37	-63.94	-13.00	50.94	184	124	Vertical
2	1555.1800	54.37	-48.30	25.41	-63.78	-13.00	50.78	175	230	Vertical
3	2332.7700	54.56	-47.48	27.41	-60.78	-13.00	47.78	163	163	Vertical
4	3110.3600	51.18	-46.70	29.53	-61.25	-13.00	48.25	251	243	Vertical
5	3887.9500	49.72	-46.22	30.54	-61.22	-13.00	48.22	142	72	Vertical
6	4665.5400	53.24	-45.80	31.91	-55.91	-13.00	42.91	236	72	Vertical



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Test Band = LTE Band13_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	1554.6800	56.32	-48.30	25.41	-61.83	-13.00	48.83	214	170	Horizontal
2	2332	60.73	-47.48	27.41	-54.61	-13.00	41.61	150	210	Horizontal
3	3109.3600	52.92	-46.71	29.53	-59.51	-13.00	46.51	165	92	Horizontal
4	3886.7000	49.48	-46.22	30.53	-61.47	-13.00	48.47	142	350	Horizontal
5	4664.0400	50.74	-45.80	31.91	-58.41	-13.00	45.41	175	317	Horizontal
6	5441.3800	50.70	-45.04	32.85	-56.76	-13.00	43.76	199	105	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	1554.6800	55.59	-48.30	25.41	-62.56	-13.00	49.56	125	227	Vertical
2	2332.0200	53.27	-47.48	27.41	-62.07	-13.00	49.07	261	281	Vertical
3	3109.3600	52.85	-46.71	29.53	-59.58	-13.00	46.58	148	281	Vertical
4	3886.7000	49.98	-46.22	30.53	-60.97	-13.00	47.97	175	215	Vertical
5	4664.0400	52.02	-45.80	31.91	-57.13	-13.00	44.13	133	108	Vertical
6	5441.3800	51.43	-45.04	32.85	-56.03	-13.00	43.03	191	254	Vertical



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Test Band = LTE Band13_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	1559.6800	62.47	-48.30	25.40	-55.68	-40.00	15.68	261	173	Horizontal
2	2339.4286	66.13	-47.48	27.41	-49.20	-13.00	36.20	148	212	Horizontal
3	3119.3600	52.37	-46.66	29.55	-60.00	-13.00	47.00	195	225	Horizontal
4	3899.2000	49.43	-46.23	30.56	-61.50	-13.00	48.50	176	4	Horizontal
5	4679.0400	49.25	-45.80	31.95	-59.86	-13.00	46.86	144	173	Horizontal
6	5458.8800	49.13	-45.07	32.87	-58.34	-13.00	45.34	213	13	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	1559.6800	58.94	-48.30	25.40	-59.21	-40.00	19.21	251	230	Vertical
2	2339.5200	57.03	-47.48	27.41	-58.30	-13.00	45.30	136	0	Vertical
3	3119.3600	51.62	-46.66	29.55	-60.75	-13.00	47.75	211	189	Vertical
4	3899.2000	49.88	-46.23	30.56	-61.05	-13.00	48.05	188	136	Vertical
5	4679.0400	51.32	-45.80	31.95	-57.79	-13.00	44.79	199	242	Vertical
6	5458.8800	50.07	-45.07	32.87	-57.40	-13.00	44.40	304	109	Vertical



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Test Band = LTE Band13_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	1564.6800	53.94	-48.29	25.40	-64.22	-40.00	24.22	284	126	Horizontal
2	2346.8571	64.42	-47.48	27.41	-50.90	-13.00	37.90	175	225	Horizontal
3	3129.3600	52.63	-46.61	29.56	-59.68	-13.00	46.68	142	198	Horizontal
4	3911.7000	50.63	-46.23	30.59	-60.26	-13.00	47.26	236	265	Horizontal
5	4694.0400	50.35	-45.80	32.00	-58.71	-13.00	45.71	291	78	Horizontal
6	5476.3800	48.92	-45.10	32.88	-58.56	-13.00	45.56	144	159	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	1564.6800	53.81	-48.29	25.40	-64.35	-40.00	24.35	166	67	Vertical
2	2347.0200	55.13	-47.48	27.41	-60.19	-13.00	47.19	145	187	Vertical
3	3129.3600	52.42	-46.61	29.56	-59.89	-13.00	46.89	175	0	Vertical
4	3911.7000	49.84	-46.23	30.59	-61.05	-13.00	48.05	169	1	Vertical
5	4694.0400	50.65	-45.80	32.00	-58.41	-13.00	45.41	191	307	Vertical
6	5476.3800	49.54	-45.10	32.88	-57.94	-13.00	44.94	142	93	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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