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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	23.26	21.04	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.24	21.02	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.2	20.98	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.25	20.03	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.52	21.3	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.33	21.11	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.41	21.19	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.18	19.96	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.36	21.14	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.3	21.08	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.08	20.86	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.25	20.03	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.37	20.15	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.32	20.1	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.4	20.18	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.31	19.09	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.43	20.21	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.36	20.14	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.4	20.18	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.21	18.99	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.37	20.15	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.36	20.14	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.33	20.11	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.18	18.96	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.38	19.16	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.28	19.06	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.44	19.22	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.21	17.99	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.35	19.13	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.33	19.11	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.22	19	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.17	17.95	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.33	19.11	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.38	19.16	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.41	19.19	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.14	17.92	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	18.19	15.97	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	18.22	16	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	18.28	16.06	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	18.18	15.96	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	18.25	16.03	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	18.44	16.22	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	18.44	16.22	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	18.16	15.94	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	18.32	16.1	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	18.33	16.11	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	18.43	16.21	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	18.19	15.97	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.26	21.04	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.42	21.2	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.16	20.94	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.28	20.06	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.31	20.09	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.38	20.16	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.42	20.2	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.24	19.02	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.31	19.09	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.59	19.37	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.27	19.05	34.77	PASS



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Band13	10MHz	256QAM	23230	1RB#0	18.26	16.04	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	18.35	16.13	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	18.27	16.05	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	18.27	16.05	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	45.68	-47.10	25.37	-71.31	-13.00	58.31	214	215	Horizontal
2	1555.1800	65.29	-48.30	25.41	-52.86	-13.00	39.86	198	238	Horizontal
3	2332.5714	63.48	-47.48	27.41	-51.86	-13.00	38.86	142	9	Horizontal
4	3110.3600	43.20	-46.70	29.53	-69.23	-13.00	56.23	152	4	Horizontal
5	3887.9500	44.03	-46.22	30.54	-66.91	-13.00	53.91	136	277	Horizontal
6	4665.5400	41.55	-45.80	31.91	-67.60	-13.00	54.60	264	352	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	45.06	-47.10	25.37	-71.93	-13.00	58.93	284	309	Vertical
2	1555.1800	64.19	-48.30	25.41	-53.96	-13.00	40.96	175	130	Vertical
3	2332.7700	68.55	-47.48	27.41	-46.79	-13.00	33.79	146	249	Vertical
4	3110.3600	43.66	-46.70	29.53	-68.77	-13.00	55.77	129	309	Vertical
5	3887.9500	50.52	-46.22	30.54	-60.42	-13.00	47.42	192	222	Vertical
6	4665.5400	42.17	-45.80	31.91	-66.98	-13.00	53.98	143	189	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	65.82	-48.30	25.41	-52.33	-13.00	39.33	215	40	Horizontal
2	2332	65.86	-47.48	27.41	-49.48	-13.00	36.48	142	226	Horizontal
3	3109.3600	43.48	-46.71	29.53	-68.95	-13.00	55.95	135	238	Horizontal
4	3886.7000	51.83	-46.22	30.53	-59.12	-13.00	46.12	129	226	Horizontal
5	4664.0400	41.28	-45.80	31.91	-67.87	-13.00	54.87	188	305	Horizontal
6	5441.3800	41.66	-45.04	32.85	-65.80	-13.00	52.80	192	306	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	64.22	-48.30	25.41	-53.93	-13.00	40.93	254	213	Vertical
2	2332	71.38	-47.48	27.41	-43.96	-13.00	30.96	152	281	Vertical
3	3109.3600	43.53	-46.71	29.53	-68.90	-13.00	55.90	136	239	Vertical
4	3886.7000	50.71	-46.22	30.53	-60.24	-13.00	47.24	256	280	Vertical
5	4664.0400	41.54	-45.80	31.91	-67.61	-13.00	54.61	148	295	Vertical
6	5441.3800	41.63	-45.04	32.85	-65.83	-13.00	52.83	192	134	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	64.40	-48.30	25.40	-53.75	-40.00	13.75	254	239	Horizontal
2	2339.4286	64.82	-47.48	27.41	-50.51	-13.00	37.51	142	200	Horizontal
3	3119.3600	44.41	-46.66	29.55	-67.96	-13.00	54.96	133	255	Horizontal
4	3899.2000	50.27	-46.23	30.56	-60.66	-13.00	47.66	192	186	Horizontal
5	4679.0400	41.48	-45.80	31.95	-67.63	-13.00	54.63	187	294	Horizontal
6	5458.8800	41.38	-45.07	32.87	-66.09	-13.00	53.09	250	352	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	65.61	-48.30	25.40	-52.54	-40.00	12.54	256	157	Vertical
2	2339.4286	71.80	-47.48	27.41	-43.53	-13.00	30.53	148	291	Vertical
3	3119.3600	45.68	-46.66	29.55	-66.69	-13.00	53.69	129	307	Vertical
4	3899.2000	48.10	-46.23	30.56	-62.83	-13.00	49.83	192	26	Vertical
5	4679.0400	41.18	-45.80	31.95	-67.93	-13.00	54.93	130	0	Vertical
6	5458.8800	41.74	-45.07	32.87	-65.73	-13.00	52.73	210	317	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	44.22	-48.29	25.40	-73.94	-40.00	33.94	154	356	Horizontal
2	2347.0200	44.04	-47.48	27.41	-71.28	-13.00	58.28	165	307	Horizontal
3	3129.3600	43.08	-46.61	29.56	-69.23	-13.00	56.23	129	176	Horizontal
4	3911.7000	42.37	-46.23	30.59	-68.52	-13.00	55.52	188	110	Horizontal
5	4694.0400	41.64	-45.80	32.00	-67.42	-13.00	54.42	145	331	Horizontal
6	5476.3800	41.40	-45.10	32.88	-66.08	-13.00	53.08	180	268	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	44.42	-48.29	25.40	-73.74	-40.00	33.74	266	210	Vertical
2	2347.0200	44.14	-47.48	27.41	-71.18	-13.00	58.18	148	92	Vertical
3	3129.3600	43.01	-46.61	29.56	-69.30	-13.00	56.30	158	105	Vertical
4	3911.7000	42.40	-46.23	30.59	-68.49	-13.00	55.49	192	109	Vertical
5	4694.0400	42.42	-45.80	32.00	-66.64	-13.00	53.64	132	360	Vertical
6	5476.3800	41.28	-45.10	32.88	-66.20	-13.00	53.20	210	69	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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