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Appendix B.5

LTE Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	22.36	16.59	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.23	16.46	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.32	16.55	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.28	15.51	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.55	16.78	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.69	16.92	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.53	16.76	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.51	15.74	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.54	16.77	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.61	16.84	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.34	16.57	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.46	15.69	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.64	15.87	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.7	15.93	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.64	15.87	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.41	14.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.59	15.82	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.96	16.19	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.78	16.01	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.64	14.87	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.56	15.79	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.66	15.89	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.5	15.73	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.62	14.85	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.4	16.63	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.47	16.7	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.44	16.67	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	21.4	15.63	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.67	16.9	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.76	16.99	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.39	16.62	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.57	15.8	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.63	16.86	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.56	16.79	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.42	16.65	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.57	15.8	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.44	15.67	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.7	15.93	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.73	15.96	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.45	14.68	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.85	16.08	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.6	15.83	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.46	15.69	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.64	14.87	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.7	15.93	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.69	15.92	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.64	15.87	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.61	14.84	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.4	16.63	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.37	16.6	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.5	16.73	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.48	15.71	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.67	16.9	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.42	16.65	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.48	16.71	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.54	15.77	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.61	16.84	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.4	16.63	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.43	16.66	34.77	PASS



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Band12	5MHz	16QAM	23035	1RB#0	21.68	15.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.84	16.07	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.68	15.91	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.52	14.75	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.77	16	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.71	15.94	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.61	15.84	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.59	14.82	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.75	15.98	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.89	16.12	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.59	15.82	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.6	14.83	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.67	16.9	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.48	16.71	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.62	16.85	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.71	15.94	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.91	17.14	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.51	16.74	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.5	16.73	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.6	15.83	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.84	17.07	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.29	16.52	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.37	16.6	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.56	15.79	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.95	16.18	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.92	16.15	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.98	16.21	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.77	15	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.15	16.38	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.72	15.95	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.87	16.1	34.77	PASS



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Band12	10MHz	16QAM	23095	50RB#0	20.64	14.87	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.19	16.42	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.64	15.87	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.81	16.04	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.53	14.76	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 12_10MHz_ 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	1406.2222	63.58	-48.72	25.41	-54.99	-13.00	41.99	296	274	Horizontal
2	2109.3333	61.17	-47.87	27.12	-54.84	-13.00	41.84	265	145	Horizontal
3	2812.4444	48.60	-46.69	28.96	-64.39	-13.00	51.39	241	321	Horizontal
4	3497.95	42.05	-46.05	29.40	-69.86	-13.00	56.86	142	261	Horizontal
5	4197.54	41.46	-45.12	30.92	-68.00	-13.00	55.00	263	296	Horizontal
6	4897.13	41.07	-45.14	32.35	-66.97	-13.00	53.97	221	296	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	1406.2222	63.47	-48.72	25.41	-55.10	-13.00	42.10	296	0	Vertical
2	2109.3333	63.20	-47.87	27.12	-52.81	-13.00	39.81	265	357	Vertical
3	2798.36	42.59	-46.69	28.92	-70.44	-13.00	57.44	241	134	Vertical
4	3497.95	42.71	-46.05	29.40	-69.20	-13.00	56.20	142	204	Vertical
5	4197.54	41.32	-45.12	30.92	-68.14	-13.00	55.14	255	357	Vertical
6	4897.13	41.40	-45.14	32.35	-66.64	-13.00	53.64	286	264	Vertical



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Test Band = LTE Band 12_10MHz_ 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	1406.18	64.28	-48.72	25.41	-54.29	-13.00	41.29	215	216	Horizontal
2	2109.27	60.89	-47.87	27.12	-55.12	-13.00	42.12	255	145	Horizontal
3	2812.36	47.78	-46.69	28.96	-65.21	-13.00	52.21	147	322	Horizontal
4	3515.45	41.71	-46.03	29.44	-70.15	-13.00	57.15	263	286	Horizontal
5	4218.54	41.57	-45.11	30.95	-67.85	-13.00	54.85	296	275	Horizontal
6	4921.63	41.04	-45.12	32.41	-66.93	-13.00	53.93	163	97	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	1406.18	63.44	-48.72	25.41	-55.13	-13.00	42.13	271	0	Vertical
2	2109.27	63.55	-47.87	27.12	-52.46	-13.00	39.46	198	357	Vertical
3	2812.36	45.53	-46.69	28.96	-67.46	-13.00	54.46	256	99	Vertical
4	3515.45	44.21	-46.03	29.44	-67.65	-13.00	54.65	223	86	Vertical
5	4218.54	41.89	-45.11	30.95	-67.53	-13.00	54.53	152	159	Vertical
6	4921.63	41.90	-45.12	32.41	-66.07	-13.00	53.07	168	264	Vertical



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Test Band = LTE Band 12_10MHz_ 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	2119.5556	62.11	-47.85	27.14	-53.86	-13.00	40.86	178	150	Horizontal
2	1413.18	65.97	-48.70	25.41	-52.57	-13.00	39.57	263	229	Horizontal
3	2826.36	44.61	-46.71	29.01	-68.35	-13.00	55.35	184	104	Horizontal
4	3532.95	42.46	-46.01	29.48	-69.33	-13.00	56.33	221	359	Horizontal
5	4239.54	40.97	-45.11	30.98	-68.42	-13.00	55.42	158	355	Horizontal
6	4946.13	41.02	-45.09	32.47	-66.85	-13.00	53.85	293	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	1413.18	64.00	-48.70	25.41	-54.54	-13.00	41.54	284	95	Vertical
2	2119.77	62.37	-47.85	27.14	-53.60	-13.00	40.60	196	357	Vertical
3	2826.36	43.13	-46.71	29.01	-69.83	-13.00	56.83	174	221	Vertical
4	3532.95	42.53	-46.01	29.48	-69.26	-13.00	56.26	182	329	Vertical
5	4239.54	41.64	-45.11	30.98	-67.75	-13.00	54.75	255	158	Vertical
6	4946.13	40.44	-45.09	32.47	-67.43	-13.00	54.43	163	297	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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