

Appendix B.12

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.95	26.91	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.28	27.24	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.18	27.14	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.01	25.97	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.34	27.3	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.62	27.58	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.25	27.21	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.46	26.42	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.76	27.72	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.54	27.5	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.48	27.44	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.89	26.85	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.34	25.3	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.24	25.2	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.58	25.54	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.45	25.41	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.53	25.49	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.92	25.88	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.78	25.74	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.63	25.59	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.96	25.92	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.12	26.08	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.06	26.02	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.79	25.75	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.33	27.29	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.48	27.44	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.5	27.46	33	PASS



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Band41	10MHz	QPSK	39700	50RB#0	22.36	26.32	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.41	27.37	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.57	27.53	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.25	27.21	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.58	26.54	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.58	27.54	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.75	27.71	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.56	27.52	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.88	26.84	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.74	25.7	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.71	25.67	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.75	25.71	33	PASS
Band41	10MHz	16QAM	39700	27RB#0	21.42	25.38	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.96	25.92	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.89	25.85	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.91	25.87	33	PASS
Band41	10MHz	16QAM	40620	27RB#0	21.36	25.32	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.15	26.11	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.23	26.19	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.05	26.01	33	PASS
Band41	10MHz	16QAM	41540	27RB#0	21.25	25.21	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.72	26.68	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.18	27.14	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.18	27.14	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.15	26.11	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.33	27.29	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.44	27.4	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.34	27.3	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.53	26.49	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.81	27.77	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.64	27.6	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.46	27.42	33	PASS



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Band41	15MHz	QPSK	41515	75RB#0	22.77	26.73	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.46	25.42	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.66	25.62	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.64	25.6	33	PASS
Band41	15MHz	16QAM	39725	27RB#0	21.25	25.21	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.98	25.94	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.94	25.9	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.02	25.98	33	PASS
Band41	15MHz	16QAM	40620	27RB#0	21.33	25.29	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.3	26.26	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.33	26.29	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.99	25.95	33	PASS
Band41	15MHz	16QAM	41515	27RB#0	21.41	25.37	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.81	26.77	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.09	27.05	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.89	26.85	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.16	26.12	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.16	27.12	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.41	27.37	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.2	27.16	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.46	26.42	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.45	27.41	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.87	27.83	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.23	27.19	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.91	26.87	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.44	25.4	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.81	25.77	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.61	25.57	33	PASS
Band41	20MHz	16QAM	39750	27RB#0	21.25	25.21	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.8	25.76	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.04	26	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.96	25.92	33	PASS



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Band41	20MHz	16QAM	40620	27RB#0	21.52	25.48	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.34	26.3	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.42	26.38	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.21	26.17	33	PASS
Band41	20MHz	16QAM	41490	27RB#0	21.32	25.28	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band41_ 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	3312	52.14	-46.44	29.54	-60.02	-25.00	35.02	154	118	Horizontal
2	4994.25	58.89	-45.63	32.86	-49.14	-25.00	24.14	126	30	Horizontal
3	7491	55.19	-43.16	36.44	-46.79	-25.00	21.79	135	0	Horizontal
4	9988.5	53.17	-39.25	38.47	-42.87	-25.00	17.87	196	72	Horizontal
5	13605.75	33.62	-36.08	40.14	-57.58	-25.00	32.58	184	58	Horizontal
6	15146.25	33.44	-34.47	39.02	-57.27	-25.00	32.27	175	0	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	3312	56.40	-46.44	29.54	-55.76	-25.00	30.76	186	0	Vertical
2	4994.25	59.11	-45.63	32.86	-48.92	-25.00	23.92	159	180	Vertical
3	7491	60.58	-43.16	36.44	-41.40	-25.00	16.40	125	0	Vertical
4	9988.5	57.75	-39.25	38.47	-38.29	-25.00	13.29	163	303	Vertical
5	12485.25	43.29	-37.04	39.16	-49.85	-25.00	24.85	256	344	Vertical
6	15146.25	33.24	-34.47	39.02	-57.47	-25.00	32.47	199	44	Vertical



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Test Band = LTE Band41_ 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	3312	51.96	-46.44	29.54	-60.20	-25.00	35.20	245	104	Horizontal
2	5168.25	68.54	-45.31	32.97	-39.06	-25.00	14.06	126	285	Horizontal
3	7752	63.30	-42.70	36.69	-37.97	-25.00	12.97	158	15	Horizontal
4	10336.5	57.94	-39.06	38.84	-37.54	-25.00	12.54	196	346	Horizontal
5	12920.25	36.50	-37.15	39.75	-56.16	-25.00	31.16	142	2	Horizontal
6	15147	33.22	-34.47	39.02	-57.48	-25.00	32.48	139	0	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	3312	56.36	-46.44	29.54	-55.80	-25.00	30.80	158	8	Vertical
2	5168.25	69.39	-45.31	32.97	-38.21	-25.00	13.21	196	257	Vertical
3	7752	64.76	-42.70	36.69	-36.51	-25.00	11.51	148	317	Vertical
4	10336.5	59.11	-39.06	38.84	-36.37	-25.00	11.37	175	77	Vertical
5	12920.25	38.68	-37.15	39.75	-53.98	-25.00	28.98	145	347	Vertical
6	16459.5	33.95	-34.10	37.84	-57.57	-25.00	32.57	163	60	Vertical



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Test Band = LTE Band41_ 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	3312	52.08	-46.44	29.54	-60.08	-25.00	35.08	156	118	Horizontal
2	5342.25	72.28	-45.18	32.85	-35.30	-25.00	10.30	142	43	Horizontal
3	8013	64.59	-42.22	37.01	-35.88	-25.00	10.88	198	15	Horizontal
4	10684.5	55.78	-37.97	39.13	-38.32	-25.00	13.32	185	2	Horizontal
5	13602.75	33.11	-36.08	40.15	-58.08	-25.00	33.08	174	269	Horizontal
6	14366.25	33.07	-35.26	40.11	-57.34	-25.00	32.34	400	252	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	3312	52.18	-46.44	29.54	-59.98	-25.00	34.98	254	120	Vertical
2	5342.25	68.64	-45.18	32.85	-38.94	-25.00	13.94	156	286	Vertical
3	8013	65.80	-42.22	37.01	-34.67	-25.00	9.67	129	300	Vertical
4	10684.5	54.88	-37.97	39.13	-39.22	-25.00	14.22	135	347	Vertical
5	13707	33.75	-36.18	40.05	-57.64	-25.00	32.64	122	103	Vertical
6	16463.25	34.31	-34.08	37.85	-57.18	-25.00	32.18	188	120	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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