

Appendix B.22

LTE CA_66B



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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
66-66	10MHz-10MHz	QPSK-QPSK	132022-132121	1RB#0-0RB#0	23.16	25.42	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132022-132121	50RB#0-50RB#0	21.91	24.17	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132373-132472	1RB#0-0RB#0	23.14	25.4	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132373-132472	50RB#0-50RB#0	21.97	24.23	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132523-132622	1RB#0-0RB#0	23.09	25.35	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132523-132622	50RB#0-50RB#0	21.91	24.17	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132022-132121	1RB#0-0RB#0	22.36	24.62	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132022-132121	50RB#0-50RB#0	20.91	23.17	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132373-132472	1RB#0-0RB#0	22.29	24.55	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132373-132472	50RB#0-50RB#0	21	23.26	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132523-132622	1RB#0-0RB#0	22.28	24.54	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132523-132622	50RB#0-50RB#0	20.9	23.16	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132022-132121	1RB#0-0RB#0	21.34	23.6	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132022-132121	50RB#0-50RB#0	21	23.26	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132373-132472	1RB#0-0RB#0	21.5	23.76	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132373-132472	50RB#0-50RB#0	20.98	23.24	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132523-132622	1RB#0-0RB#0	21.38	23.64	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132523-132622	50RB#0-50RB#0	20.93	23.19	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132022-132121	1RB#0-0RB#0	18.2	20.46	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132022-132121	50RB#0-50RB#0	18.93	21.19	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132373-132472	1RB#0-0RB#0	18.43	20.69	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132373-132472	50RB#0-50RB#0	19.01	21.27	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132523-132622	1RB#0-0RB#0	18.16	20.42	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132523-132622	50RB#0-50RB#0	18.88	21.14	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132022-132094	1RB#0-0RB#0	23.07	25.33	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132022-132094	50RB#0-25RB#0	21.88	24.14	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132397-132469	1RB#0-0RB#0	23.17	25.43	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132397-132469	50RB#0-25RB#0	21.95	24.21	30	PASS



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66-66	10MHz-5MHz	QPSK-QPSK	132572-132644	1RB#0-0RB#0	23.02	25.28	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132572-132644	50RB#0-25RB#0	21.9	24.16	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132022-132094	1RB#0-0RB#0	22.33	24.59	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132022-132094	50RB#0-25RB#0	20.89	23.15	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132397-132469	1RB#0-0RB#0	22.42	24.68	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132397-132469	50RB#0-25RB#0	20.96	23.22	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132572-132644	1RB#0-0RB#0	22.38	24.64	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132572-132644	50RB#0-25RB#0	20.9	23.16	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132022-132094	1RB#0-0RB#0	21.3	23.56	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132022-132094	50RB#0-25RB#0	20.98	23.24	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132397-132469	1RB#0-0RB#0	21.51	23.77	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132397-132469	50RB#0-25RB#0	20.96	23.22	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132572-132644	1RB#0-0RB#0	21.47	23.73	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132572-132644	50RB#0-25RB#0	20.9	23.16	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132022-132094	1RB#0-0RB#0	18.33	20.59	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132022-132094	50RB#0-25RB#0	18.9	21.16	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132397-132469	1RB#0-0RB#0	18.38	20.64	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132397-132469	50RB#0-25RB#0	18.97	21.23	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132572-132644	1RB#0-0RB#0	18.29	20.55	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132572-132644	50RB#0-25RB#0	18.84	21.1	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132047-132140	1RB#0-0RB#0	22.98	25.24	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132047-132140	75RB#0-25RB#0	21.91	24.17	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132398-132491	1RB#0-0RB#0	23.11	25.37	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132398-132491	75RB#0-25RB#0	21.92	24.18	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132549-132642	1RB#0-0RB#0	23.03	25.29	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132549-132642	75RB#0-25RB#0	21.87	24.13	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132047-132140	1RB#0-0RB#0	22.4	24.66	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132047-132140	75RB#0-25RB#0	20.9	23.16	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132398-132491	1RB#0-0RB#0	22.42	24.68	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132398-132491	75RB#0-25RB#0	20.95	23.21	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132549-132642	1RB#0-0RB#0	22.09	24.35	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132549-132642	75RB#0-25RB#0	20.88	23.14	30	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132047-132140	1RB#0-0RB#0	21.43	23.69	30	PASS



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Table with 9 columns: Test ID, Frequency, Modulation, Range, Reference, and 4 Pass/Fail metrics. All entries show 'PASS' results.



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Table with 9 columns: Test ID, Frequency, Modulation, Standard, Test Result, SNR, BER, and Pass/Fail status. Contains 40 rows of test data.



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Rev.: 01

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66-66	5MHz-5MHz	16QAM-16QAM	131997-132045	25RB#0-25RB#0	21.06	23.32	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132398-132446	1RB#0-0RB#0	22.45	24.71	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132398-132446	25RB#0-25RB#0	21.08	23.34	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132599-132647	1RB#0-0RB#0	22.24	24.5	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132599-132647	25RB#0-25RB#0	20.99	23.25	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	131997-132045	1RB#0-0RB#0	21.39	23.65	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	131997-132045	25RB#0-25RB#0	21	23.26	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132398-132446	1RB#0-0RB#0	21.44	23.7	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132398-132446	25RB#0-25RB#0	21.09	23.35	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132599-132647	1RB#0-0RB#0	21.52	23.78	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132599-132647	25RB#0-25RB#0	21.01	23.27	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	131997-132045	1RB#0-0RB#0	18.4	20.66	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	131997-132045	25RB#0-25RB#0	19.04	21.3	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132398-132446	1RB#0-0RB#0	18.3	20.56	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132398-132446	25RB#0-25RB#0	19.03	21.29	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132599-132647	1RB#0-0RB#0	18.35	20.61	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132599-132647	25RB#0-25RB#0	18.95	21.21	30	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band66B_ 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	3424.1800	42.67	-46.28	29.45	-69.41	-13.00	56.41	231	357	Horizontal
2	5131.7700	40.92	-45.34	32.95	-66.73	-13.00	53.73	174	16	Horizontal
3	6842.3600	40.19	-44.14	35.89	-63.32	-13.00	50.32	154	135	Horizontal
4	8552.9500	38.20	-41.47	37.65	-60.88	-13.00	47.88	185	60	Horizontal
5	10263.5400	33.17	-39.24	38.83	-62.50	-13.00	49.50	169	316	Horizontal
6	11974.1300	30.31	-37.49	38.94	-63.50	-13.00	50.50	192	257	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	3424.1800	43.46	-46.28	29.45	-68.62	-13.00	55.62	247	181	Vertical
2	5131.7700	40.94	-45.34	32.95	-66.71	-13.00	53.71	148	76	Vertical
3	6842.3600	40.61	-44.14	35.89	-62.90	-13.00	49.90	159	150	Vertical
4	8552.9500	37.84	-41.47	37.65	-61.24	-13.00	48.24	196	0	Vertical
5	10263.5400	33.44	-39.24	38.83	-62.23	-13.00	49.23	128	0	Vertical
6	11974.1300	29.70	-37.49	38.94	-64.11	-13.00	51.11	176	0	Vertical



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Test Band = LTE Band66B_ 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	3491.3800	44.03	-46.26	29.51	-67.98	-13.00	54.98	211	8	Horizontal
2	5237.0700	41.00	-45.21	32.95	-66.51	-13.00	53.51	145	148	Horizontal
3	6982.7600	40.73	-43.64	36.06	-62.11	-13.00	49.11	152	225	Horizontal
4	8728.4500	37.48	-41.56	37.96	-61.38	-13.00	48.38	163	17	Horizontal
5	10474.1400	34.04	-38.85	38.93	-61.14	-13.00	48.14	258	257	Horizontal
6	12219.8300	31.58	-37.47	39.12	-62.03	-13.00	49.03	149	91	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	3491.3800	43.62	-46.26	29.51	-68.39	-13.00	55.39	142	0	Vertical
2	5237.0700	42.42	-45.21	32.95	-65.09	-13.00	52.09	125	73	Vertical
3	6982.7600	40.08	-43.64	36.06	-62.76	-13.00	49.76	158	285	Vertical
4	8728.4500	37.24	-41.56	37.96	-61.62	-13.00	48.62	183	73	Vertical
5	10474.1400	33.66	-38.85	38.93	-61.52	-13.00	48.52	214	224	Vertical
6	12219.8300	31.84	-37.47	39.12	-61.77	-13.00	48.77	147	178	Vertical



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Test Band = LTE Band66B_ 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	3521.3800	44.12	-46.23	29.54	-67.83	-13.00	54.83	235	1	Horizontal
2	5282.0700	40.69	-45.12	32.91	-66.78	-13.00	53.78	142	208	Horizontal
3	7042.7600	40.25	-43.84	36.19	-62.65	-13.00	49.65	162	356	Horizontal
4	8803.4500	37.21	-41.25	38.08	-61.22	-13.00	48.22	152	59	Horizontal
5	10564.1400	33.47	-38.59	39.02	-61.35	-13.00	48.35	148	178	Horizontal
6	12324.8300	31.43	-37.45	39.09	-62.19	-13.00	49.19	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	3521.3800	42.53	-46.23	29.54	-69.42	-13.00	56.42	211	0	Vertical
2	5282.0700	40.30	-45.12	32.91	-67.17	-13.00	54.17	142	77	Vertical
3	7042.7600	40.18	-43.84	36.19	-62.72	-13.00	49.72	152	148	Vertical
4	8803.4500	37.18	-41.25	38.08	-61.25	-13.00	48.25	136	0	Vertical
5	10564.1400	34.31	-38.59	39.02	-60.51	-13.00	47.51	261	356	Vertical
6	12324.8300	31.42	-37.45	39.09	-62.20	-13.00	49.20	159	46	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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