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Appendix B.15

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	23.06	23.84	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.12	23.90	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.14	23.92	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.21	22.99	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.93	23.71	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.98	23.76	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.97	23.75	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.95	22.73	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.92	23.70	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.90	23.68	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.89	23.67	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.92	22.70	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.07	22.85	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.10	22.88	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.18	22.96	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.19	21.97	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.01	22.79	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.08	22.86	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.07	22.85	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.98	21.76	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.05	22.83	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.07	22.85	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.05	22.83	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.99	21.77	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.20	23.98	33.00	PASS



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Band41	10MHz	QPSK	39700	1RB#24	23.18	23.96	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.15	23.93	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.23	23.01	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.95	23.73	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.97	23.75	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.02	23.80	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.98	22.76	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.93	23.71	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.90	23.68	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.92	23.70	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.91	22.69	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.23	23.01	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.21	22.99	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.19	22.97	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.22	22.00	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.02	22.80	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.09	22.87	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.12	22.90	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.03	21.81	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.10	22.88	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.09	22.87	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.03	22.81	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.02	21.80	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.17	23.95	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.13	23.91	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.16	23.94	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.19	22.97	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.03	23.81	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.01	23.79	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.06	23.84	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.98	22.76	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.91	23.69	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.93	23.71	33.00	PASS



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Band41	15MHz	QPSK	41515	1RB#74	22.89	23.67	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.93	22.71	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.17	22.95	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.15	22.93	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.16	22.94	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.20	21.98	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.09	22.87	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.06	22.84	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.21	22.99	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.07	21.85	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.08	22.86	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.09	22.87	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.07	22.85	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.00	21.78	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.17	23.95	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.14	23.92	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.01	23.79	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.13	22.91	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.01	23.79	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.98	23.76	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.08	23.86	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.00	22.78	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.98	23.76	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.96	23.74	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.92	23.70	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.94	22.72	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.19	22.97	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.12	22.90	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.00	22.78	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.08	21.86	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.01	22.79	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.08	22.86	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.18	22.96	33.00	PASS



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Band41	20MHz	16QAM	40620	100RB#0	21.07	21.85	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.07	22.85	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.12	22.90	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.10	22.88	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.03	21.81	33.00	PASS



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Field Strength of Spurious Radiation**Test Band = LTE_41_20MHz_TM1****Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2990.4434	37.97	-16.81	29.70	-44.40	-25.00	19.40	263	0	Horizontal
2	4993.8798	63.03	-46.94	33.11	-46.06	-25.00	21.06	325	339	Horizontal
3	7474.979	49.90	-43.36	36.65	-52.07	-25.00	27.07	149	302	Horizontal
4	9988.4795	49.24	-41.20	38.65	-48.57	-25.00	23.57	226	169	Horizontal
5	11915.1566	47.60	-37.95	39.48	-46.13	-25.00	21.13	332	71	Horizontal
6	14982.4793	47.24	-39.05	39.97	-47.10	-25.00	22.10	189	159	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2984.8872	38.10	-16.82	29.65	-44.33	-25.00	19.33	278	285	Vertical
2	4994.4798	71.54	-46.94	33.11	-37.55	-25.00	12.55	226	212	Vertical
3	7491.1796	58.00	-43.24	36.62	-43.88	-25.00	18.88	325	277	Vertical
4	9988.4795	59.58	-41.20	38.65	-38.23	-25.00	13.23	324	109	Vertical
5	14982.4793	52.43	-39.05	39.97	-41.91	-25.00	16.91	254	109	Vertical
6	17993.3997	49.97	-44.03	42.76	-46.56	-25.00	21.56	118	157	Vertical



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Test Band = LTE_41_20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2992.4436	38.04	-16.81	29.72	-44.31	-25.00	19.31	263	69	Horizontal
2	5168.4867	66.78	-46.80	33.12	-42.16	-25.00	17.16	221	141	Horizontal
3	8409.8164	49.81	-43.06	37.68	-50.83	-25.00	25.83	178	298	Horizontal
4	11184.9274	48.00	-39.24	39.65	-46.85	-25.00	21.85	398	239	Horizontal
5	13376.215	46.96	-39.18	40.30	-47.18	-25.00	22.18	225	93	Horizontal
6	17917.1967	49.05	-42.98	42.30	-46.89	-25.00	21.89	254	206	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2997.1108	37.78	-16.80	29.77	-44.51	-25.00	19.51	332	314	Vertical
2	4197.6479	51.87	-48.53	31.48	-60.44	-25.00	35.44	257	136	Vertical
3	5168.4867	72.37	-46.80	33.12	-36.57	-25.00	11.57	148	191	Vertical
4	7752.1901	56.81	-43.50	36.81	-45.14	-25.00	20.14	229	300	Vertical
5	10335.8934	56.72	-40.93	38.66	-40.81	-25.00	15.81	362	49	Vertical
6	15504.5002	50.64	-39.67	39.10	-45.19	-25.00	20.19	254	212	Vertical



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Test Band = LTE_41_20MHz_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2994.8883	38.11	-16.80	29.75	-44.20	-25.00	19.20	274	70	Horizontal
2	4033.8414	53.06	-49.28	30.96	-60.52	-25.00	35.52	254	246	Horizontal
3	5341.8937	62.94	-46.23	33.20	-45.35	-25.00	20.35	188	88	Horizontal
4	7471.3789	50.02	-43.38	36.66	-51.96	-25.00	26.96	263	342	Horizontal
5	10684.5074	54.65	-40.58	39.47	-41.72	-25.00	16.72	332	360	Horizontal
6	17994.5998	49.25	-44.06	42.77	-47.30	-25.00	22.30	259	55	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2994.4438	37.75	-16.80	29.74	-44.57	-25.00	19.57	188	352	Vertical
2	4239.0496	51.67	-48.51	31.97	-60.13	-25.00	35.13	263	290	Vertical
3	5342.4937	72.19	-46.22	33.20	-36.09	-25.00	11.09	332	198	Vertical
4	8013.2005	53.45	-43.34	37.45	-47.70	-25.00	22.70	254	248	Vertical
5	10683.9074	60.89	-40.58	39.47	-35.48	-25.00	10.48	189	56	Vertical
6	13355.8142	50.51	-39.36	40.30	-43.81	-25.00	18.81	263	301	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:

$$AF = \text{Antenna Factor (dB/m)}$$

$$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$

---End of Attachment---



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