

Appendix B.13

LTE Band 30



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Effective (Isotropic) Radiated Power Output Data

B30_10MHz_EIRP

Test ResultAnt0

Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	23.39	-3.06	20.33	<=23.98	Pass
			25	23.38	-3.06	20.32	<=23.98	Pass
			49	23.33	-3.06	20.27	<=23.98	Pass
		25	0	22.38	-3.06	19.32	<=23.98	Pass
			13	22.44	-3.06	19.38	<=23.98	Pass
			25	22.35	-3.06	19.29	<=23.98	Pass
		50	0	22.36	-3.06	19.3	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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Member of the SGS Group (SGS SA)



Field Strength of Spurious Radiation (Worse)

Test Band = LTE Band 30 10M_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.18	48.75	-48.00	30.57	-63.94	-40.00	23.94	Horizontal
2	6916.77	42.30	-46.71	35.42	-64.25	-40.00	24.25	Horizontal
3	9222.36	39.97	-43.39	37.80	-60.88	-40.00	20.88	Horizontal
4	11527.95	37.43	-39.98	39.29	-58.51	-40.00	18.51	Horizontal
5	13833.54	36.27	-38.91	40.52	-57.39	-40.00	17.39	Horizontal
6	16139.13	35.92	-37.96	38.30	-59.00	-40.00	19.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.18	45.64	-48.00	30.57	-67.05	-40.00	27.05	Vertical
2	6916.77	42.85	-46.71	35.42	-63.70	-40.00	23.70	Vertical
3	9222.36	39.82	-43.39	37.80	-61.03	-40.00	21.03	Vertical
4	11527.95	37.07	-39.98	39.29	-58.87	-40.00	18.87	Vertical
5	13833.54	36.48	-38.91	40.52	-57.18	-40.00	17.18	Vertical
6	16139.13	36.46	-37.96	38.30	-58.46	-40.00	18.46	Vertical



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Test Band = LTE Band 30 5M_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.68	51.36	-48.00	30.57	-61.33	-40.00	21.33	Horizontal
2	6916.02	42.54	-46.71	35.42	-64.01	-40.00	24.01	Horizontal
3	9221.36	39.72	-43.40	37.80	-61.14	-40.00	21.14	Horizontal
4	11526.7	36.86	-39.98	39.29	-59.09	-40.00	19.09	Horizontal
5	13832.04	35.71	-38.92	40.51	-57.95	-40.00	17.95	Horizontal
6	16137.38	35.48	-37.97	38.30	-59.45	-40.00	19.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.68	47.29	-48.00	30.57	-65.40	-40.00	25.40	Vertical
2	6916.02	43.28	-46.71	35.42	-63.27	-40.00	23.27	Vertical
3	9221.36	40.47	-43.40	37.80	-60.39	-40.00	20.39	Vertical
4	11526.7	36.50	-39.98	39.29	-59.45	-40.00	19.45	Vertical
5	13832.04	36.54	-38.92	40.51	-57.12	-40.00	17.12	Vertical
6	16137.38	35.98	-37.97	38.30	-58.95	-40.00	18.95	Vertical



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Test Band = LTE Band 30 5M_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.68	49.20	-47.99	30.58	-63.48	-40.00	23.48	Horizontal
2	6923.52	43.00	-46.70	35.43	-63.53	-40.00	23.53	Horizontal
3	9231.36	40.41	-43.33	37.81	-60.37	-40.00	20.37	Horizontal
4	11539.2	37.71	-39.95	39.29	-58.20	-40.00	18.20	Horizontal
5	13847.04	36.80	-38.88	40.55	-56.79	-40.00	16.79	Horizontal
6	16154.88	36.15	-37.91	38.31	-58.71	-40.00	18.71	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.68	48.31	-47.99	30.58	-64.37	-40.00	24.37	Vertical
2	6923.52	42.36	-46.70	35.43	-64.17	-40.00	24.17	Vertical
3	9231.36	40.69	-43.33	37.81	-60.09	-40.00	20.09	Vertical
4	11539.2	37.65	-39.95	39.29	-58.26	-40.00	18.26	Vertical
5	13847.04	37.33	-38.88	40.55	-56.26	-40.00	16.26	Vertical
6	16154.88	36.42	-37.91	38.31	-58.44	-40.00	18.44	Vertical



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Test Band = LTE Band 30 5M_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.68	49.08	-47.99	30.59	-63.58	-40.00	23.58	Horizontal
2	6931.02	42.57	-46.69	35.45	-63.93	-40.00	23.93	Horizontal
3	9241.32	40.80	-43.27	37.82	-59.91	-40.00	19.91	Horizontal
4	11551.7	37.07	-39.91	39.29	-58.81	-40.00	18.81	Horizontal
5	13862.04	36.97	-38.84	40.58	-56.54	-40.00	16.54	Horizontal
6	16172.38	35.26	-37.85	38.32	-59.53	-40.00	19.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.68	47.56	-47.99	30.59	-65.10	-40.00	25.10	Vertical
2	6931.02	42.76	-46.69	35.45	-63.74	-40.00	23.74	Vertical
3	9241.32	40.52	-43.27	37.82	-60.19	-40.00	20.19	Vertical
4	11551.7	36.73	-39.91	39.29	-59.15	-40.00	19.15	Vertical
5	13862.04	36.72	-38.84	40.58	-56.79	-40.00	16.79	Vertical
6	16172.38	35.03	-37.85	38.32	-59.76	-40.00	19.76	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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