



Report No.: SEWA2209000044RG01

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# Appendix B.6

## LTE Band 13



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t (86-512) 62992980 www.sgsgroup.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.11	18.45	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.22	18.56	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.33	18.67	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.20	17.54	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.04	18.38	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.30	18.64	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.97	18.31	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.25	17.59	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.00	18.34	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.27	18.61	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.03	18.37	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.36	17.7	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.08	17.42	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.04	17.38	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.03	17.37	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.38	16.72	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.09	17.43	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.01	17.35	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.06	17.4	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.32	16.66	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.49	17.83	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.27	17.61	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.89	17.23	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.19	16.53	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.13	18.47	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.19	18.53	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.28	18.62	34.77	PASS



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Band13	10MHz	QPSK	23230	50RB#0	22.19	17.53	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.01	17.35	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.99	17.33	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.79	17.13	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.22	16.56	34.77	PASS



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## Field Strength of Spurious Radiation

**Test Band = LTE Band13\_10M\_ 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	1555.1800	56.54	-48.30	25.41	-61.61	-13.00	48.61	248	39	Horizontal
2	2332.5714	50.46	-47.48	27.41	-64.88	-13.00	51.88	196	105	Horizontal
3	3110.3600	42.30	-46.70	29.53	-70.13	-13.00	57.13	145	66	Horizontal
4	3887.9500	41.13	-46.22	30.54	-69.81	-13.00	56.81	162	0	Horizontal
5	4665.5400	39.41	-45.80	31.91	-69.74	-13.00	56.74	135	4	Horizontal
6	5443.1300	40.32	-45.04	32.85	-67.14	-13.00	54.14	128	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	1555.1800	55.82	-48.30	25.41	-62.33	-13.00	49.33	245	4	Vertical
2	2332.7700	45.15	-47.48	27.41	-70.19	-13.00	57.19	162	171	Vertical
3	3110.3600	42.82	-46.70	29.53	-69.61	-13.00	56.61	125	1	Vertical
4	3887.9500	40.46	-46.22	30.54	-70.48	-13.00	57.48	132	237	Vertical
5	4665.5400	39.50	-45.80	31.91	-69.65	-13.00	56.65	184	117	Vertical
6	5443.1300	40.00	-45.04	32.85	-67.46	-13.00	54.46	196	145	Vertical



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Test Band = LTE Band13\_5M\_ 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	1554.6800	57.74	-48.30	25.41	-60.41	-13.00	47.41	165	28	Horizontal
2	2332	46.11	-47.48	27.41	-69.23	-13.00	56.23	125	0	Horizontal
3	3109.3600	42.19	-46.71	29.53	-70.24	-13.00	57.24	145	0	Horizontal
4	3886.7000	40.23	-46.22	30.53	-70.72	-13.00	57.72	128	0	Horizontal
5	4664.0400	39.64	-45.80	31.91	-69.51	-13.00	56.51	196	335	Horizontal
6	5441.3800	40.51	-45.04	32.85	-66.95	-13.00	53.95	135	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	1554.6800	58.24	-48.30	25.41	-59.91	-13.00	46.91	248	8	Vertical
2	2332	47.93	-47.48	27.41	-67.41	-13.00	54.41	196	261	Vertical
3	3109.3600	42.47	-46.71	29.53	-69.96	-13.00	56.96	145	360	Vertical
4	3886.7000	40.95	-46.22	30.53	-70.00	-13.00	57.00	166	0	Vertical
5	4664.0400	38.73	-45.80	31.91	-70.42	-13.00	57.42	196	347	Vertical
6	5441.3800	39.32	-45.04	32.85	-68.14	-13.00	55.14	254	204	Vertical



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**Test Band = LTE Band13\_5M\_ 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	1559.6800	57.07	-48.30	25.40	-61.08	-40.00	21.08	241	280	Horizontal
2	2339.4286	45.54	-47.48	27.41	-69.79	-13.00	56.79	132	190	Horizontal
3	3119.3600	41.85	-46.66	29.55	-70.52	-13.00	57.52	165	4	Horizontal
4	3899.2000	40.81	-46.23	30.56	-70.12	-13.00	57.12	128	332	Horizontal
5	4679.0400	39.46	-45.80	31.95	-69.65	-13.00	56.65	196	240	Horizontal
6	5458.8800	39.38	-45.07	32.87	-68.09	-13.00	55.09	155	92	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	1559.6800	54.65	-48.30	25.40	-63.50	-40.00	23.50	246	240	Vertical
2	2339.4286	49.09	-47.48	27.41	-66.24	-13.00	53.24	187	252	Vertical
3	3119.3600	41.85	-46.66	29.55	-70.52	-13.00	57.52	196	352	Vertical
4	3899.2000	40.37	-46.23	30.56	-70.56	-13.00	57.56	186	1	Vertical
5	4679.0400	39.39	-45.80	31.95	-69.72	-13.00	56.72	233	83	Vertical
6	5458.8800	39.61	-45.07	32.87	-67.86	-13.00	54.86	164	162	Vertical



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**Test Band = LTE Band13\_5M\_ 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	1564.5714	59.93	-48.29	25.40	-58.23	-40.00	18.23	284	284	Horizontal
2	2346.8571	46.55	-47.48	27.41	-68.77	-13.00	55.77	196	226	Horizontal
3	3129.3600	42.29	-46.61	29.56	-70.02	-13.00	57.02	145	151	Horizontal
4	3911.7000	40.43	-46.23	30.59	-70.46	-13.00	57.46	168	334	Horizontal
5	4694.0400	39.62	-45.80	32.00	-69.44	-13.00	56.44	128	12	Horizontal
6	5476.3800	39.03	-45.10	32.88	-68.45	-13.00	55.45	173	243	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	1564.5714	57.11	-48.29	25.40	-61.05	-40.00	21.05	245	10	Vertical
2	2346.8571	47.82	-47.48	27.41	-67.50	-13.00	54.50	188	197	Vertical
3	3129.3600	42.19	-46.61	29.56	-70.12	-13.00	57.12	196	230	Vertical
4	3911.7000	40.05	-46.23	30.59	-70.84	-13.00	57.84	154	348	Vertical
5	4694.0400	39.34	-45.80	32.00	-69.72	-13.00	56.72	112	118	Vertical
6	5476.3800	39.05	-45.10	32.88	-68.43	-13.00	55.43	135	0	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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