

Report No.: SEWA2307000102RG01

Rev.: 01

Page: 1 of 19

# Appendix B.8

## LTE Band 13



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## 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	23.93	26.23	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.80	26.10	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.78	26.08	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.94	25.24	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.91	26.21	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.90	26.20	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.00	26.30	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.10	25.40	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.02	26.32	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.98	26.28	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.02	26.32	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.95	25.25	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.37	25.67	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.09	25.39	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.17	25.47	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.93	24.23	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.33	25.63	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.20	25.50	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.37	25.67	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.04	24.34	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.20	25.50	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.27	25.57	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.23	25.53	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.00	24.30	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.27	26.57	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.97	26.27	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.15	26.45	34.77	PASS



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Report No.: SEWA2307000102RG01

Rev.: 01

Page: 3 of 19

Band13	10MHz	QPSK	23230	50RB#0	23.21	25.51	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.55	25.85	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.31	25.61	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.35	25.65	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.15	24.45	34.77	PASS



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Report No.: SEWA2307000102RG01  
 Rev.: 01  
 Page: 4 of 19

## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.38	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.18	13	PASS

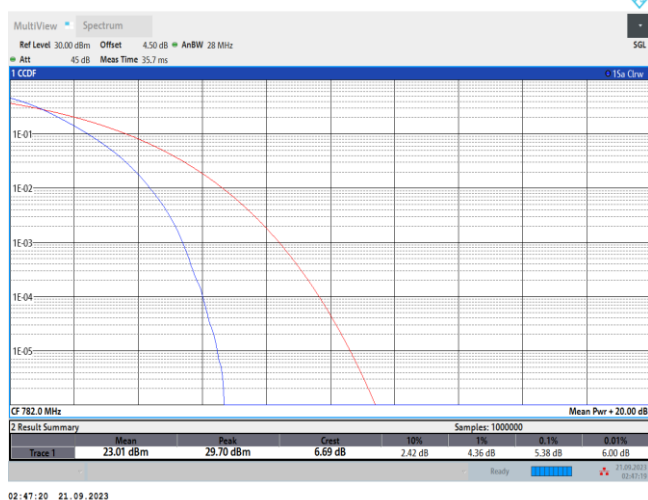


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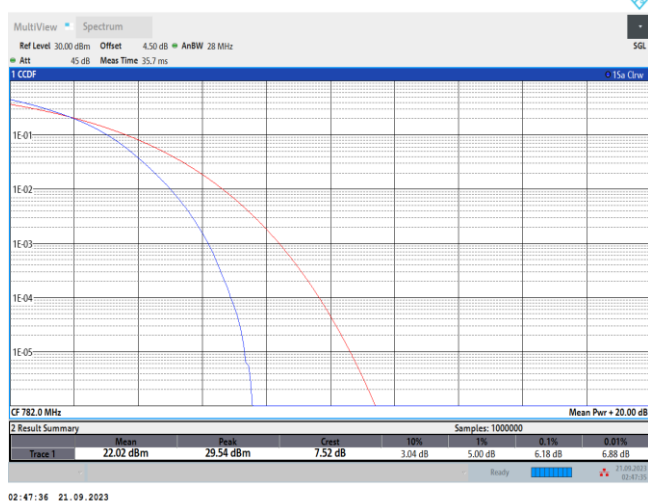
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23230	25RB#0	4.47	4.90	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.469	4.93	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.913	9.64	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.905	9.68	PASS



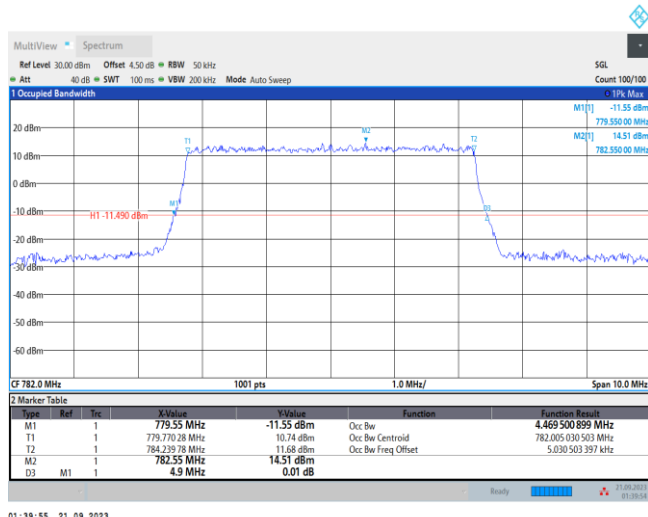
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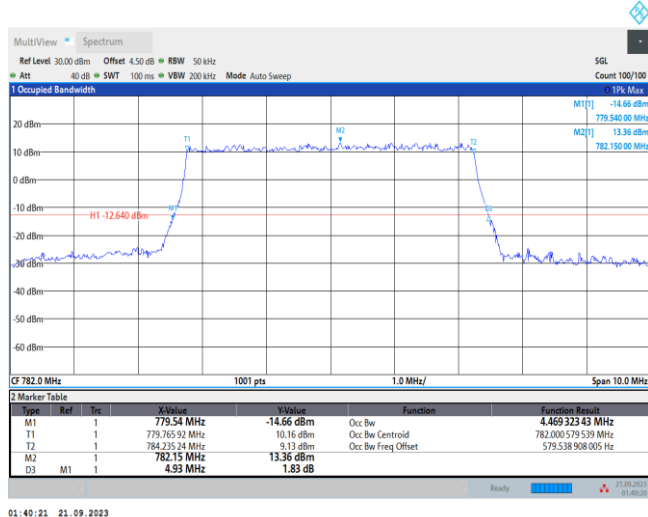


Test Graphs

Band13-5MHz-QPSK-23230-25RB#0



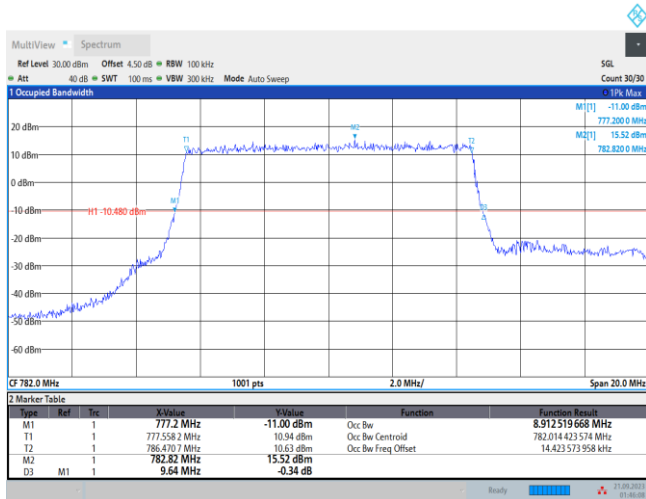
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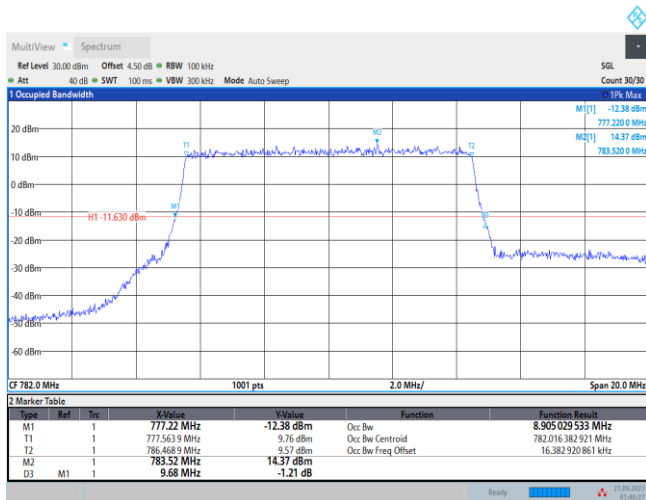
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Band13-10MHz-QPSK-23230-50RB#0



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Band13-10MHz-16QAM-23230-50RB#0



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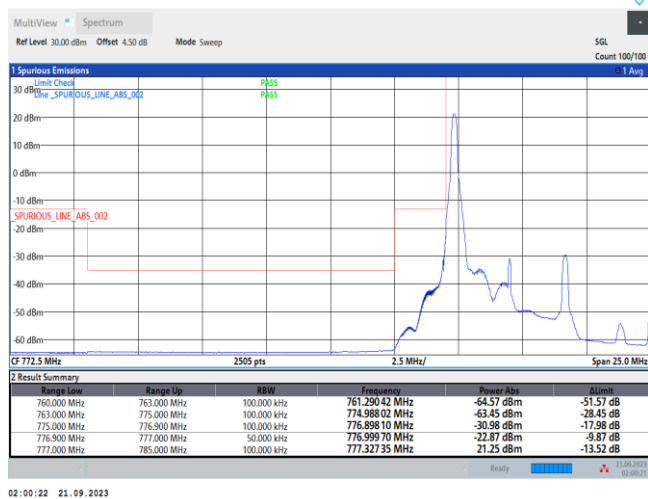
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## Band Edge

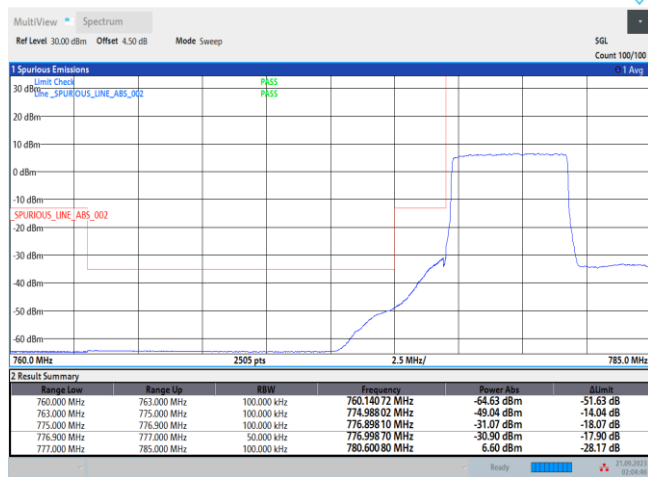
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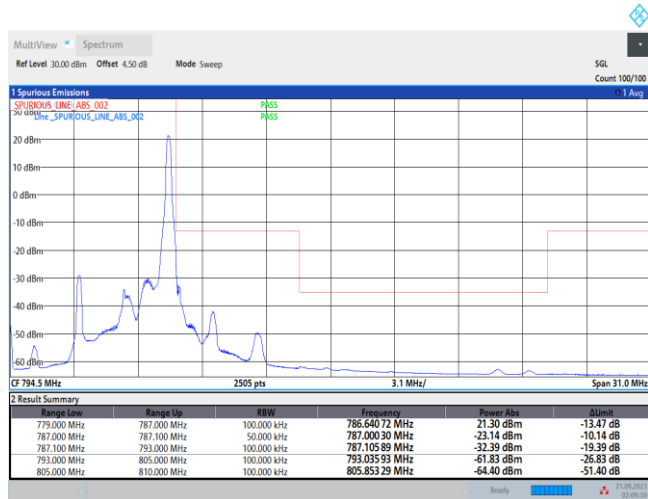
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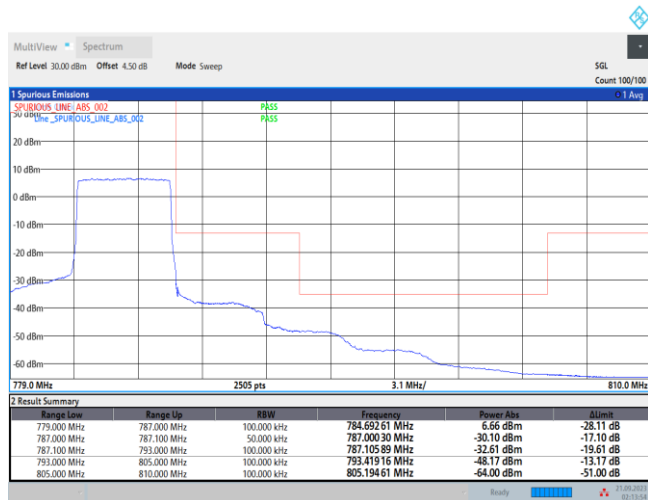
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Band13-5MHz-QPSK-23255-1RB#24



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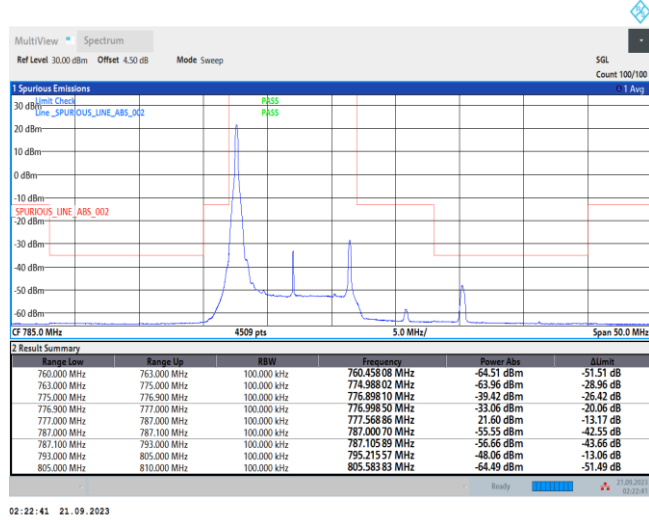
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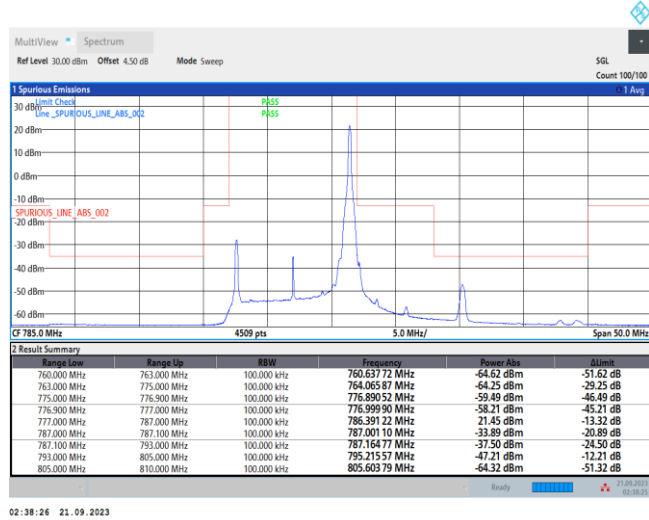
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Band13-10MHz-QPSK-23230-1RB#0



Band13-10MHz-QPSK-23230-1RB#49

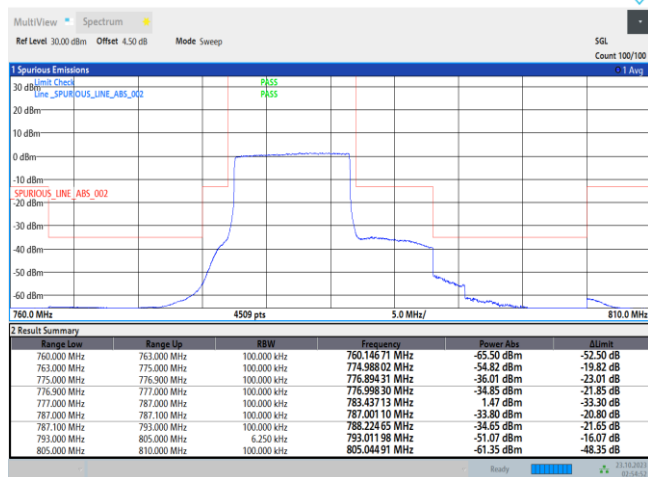


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02:54:53 23.10.2023



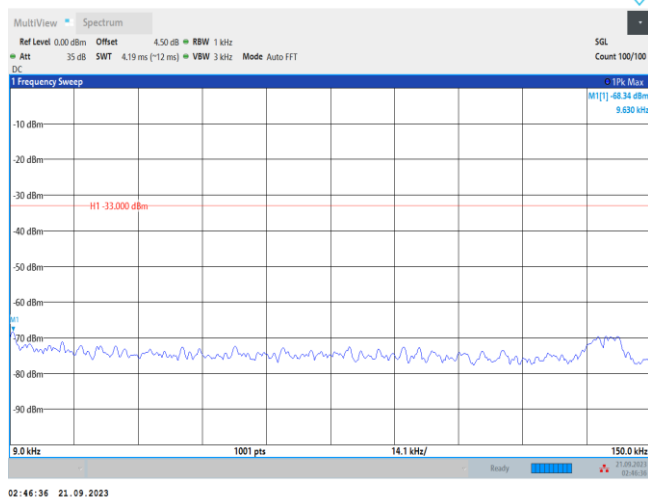
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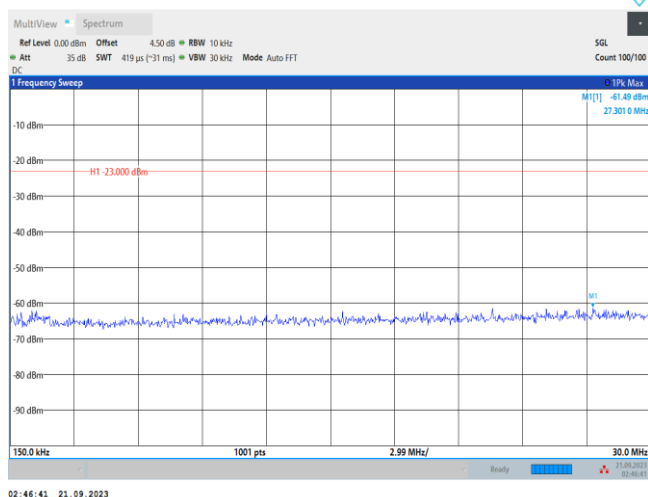
## Conducted Spurious Emission

### Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



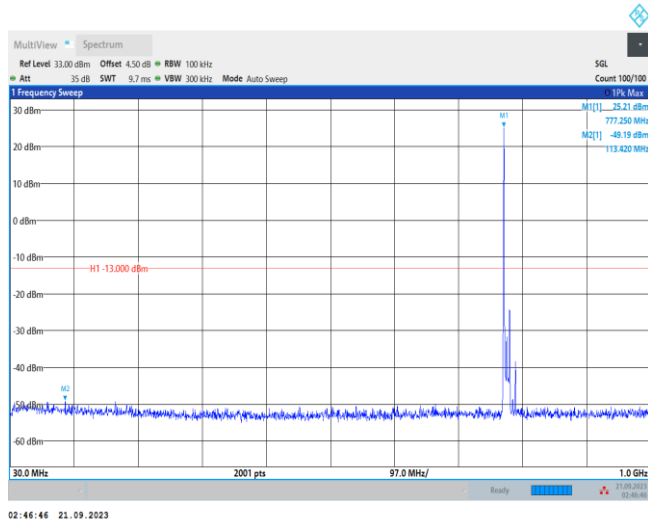
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



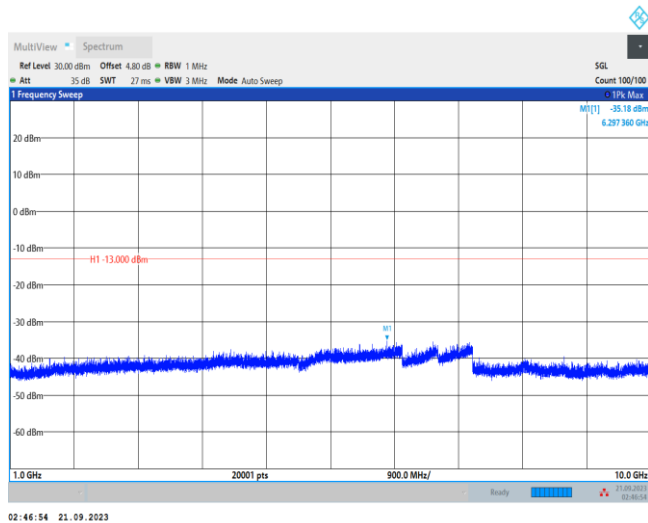
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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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]	Polarity
1	1555.1800	42.27	-48.30	25.18	-76.11	-13.00	63.11	Horizontal
2	2332.7700	41.14	-47.48	26.83	-74.77	-13.00	61.77	Horizontal
3	3110.3600	41.37	-46.70	28.37	-72.22	-13.00	59.22	Horizontal
4	3887.9500	39.57	-46.22	28.99	-72.92	-13.00	59.92	Horizontal
5	4665.5400	39.51	-45.80	30.66	-70.88	-13.00	57.88	Horizontal
6	5443.1300	39.24	-45.04	32.46	-68.60	-13.00	55.60	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	43.36	-48.30	25.18	-75.02	-13.00	62.02	Vertical
2	2332.7700	42.79	-47.48	26.83	-73.12	-13.00	60.12	Vertical
3	3110.3600	42.11	-46.70	28.37	-71.48	-13.00	58.48	Vertical
4	3887.9500	41.11	-46.22	28.99	-71.38	-13.00	58.38	Vertical
5	4665.5400	40.20	-45.80	30.66	-70.19	-13.00	57.19	Vertical
6	5443.1300	40.09	-45.04	32.46	-67.75	-13.00	54.75	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]	Polarity
1	1554.6800	42.46	-48.30	25.18	-75.92	-13.00	62.92	Horizontal
2	2332.0200	41.62	-47.48	26.83	-74.29	-13.00	61.29	Horizontal
3	3109.3600	41.27	-46.71	28.37	-72.33	-13.00	59.33	Horizontal
4	3886.7000	40.20	-46.22	28.99	-72.29	-13.00	59.29	Horizontal
5	4664.0400	39.25	-45.80	30.66	-71.14	-13.00	58.14	Horizontal
6	5441.3800	39.48	-45.04	32.46	-68.36	-13.00	55.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	43.90	-48.30	25.18	-74.48	-13.00	61.48	Vertical
2	2332.0200	42.91	-47.48	26.83	-73.00	-13.00	60.00	Vertical
3	3109.3600	42.58	-46.71	28.37	-71.02	-13.00	58.02	Vertical
4	3886.7000	41.17	-46.22	28.99	-71.32	-13.00	58.32	Vertical
5	4664.0400	40.48	-45.80	30.66	-69.91	-13.00	56.91	Vertical
6	5441.3800	40.26	-45.04	32.46	-67.58	-13.00	54.58	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]	Polarity
1	1559.6800	42.11	-48.30	25.18	-76.27	-40.00	36.27	Horizontal
2	2339.5200	42.21	-47.48	26.85	-73.68	-13.00	60.68	Horizontal
3	3119.3600	41.00	-46.66	28.37	-72.55	-13.00	59.55	Horizontal
4	3899.2000	40.15	-46.23	29.00	-72.34	-13.00	59.34	Horizontal
5	4679.0400	39.89	-45.80	30.69	-70.47	-13.00	57.47	Horizontal
6	5458.8800	39.11	-45.07	32.50	-68.72	-13.00	55.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	44.36	-48.30	25.18	-74.02	-40.00	34.02	Vertical
2	2339.5200	43.50	-47.48	26.85	-72.39	-13.00	59.39	Vertical
3	3119.3600	42.34	-46.66	28.37	-71.21	-13.00	58.21	Vertical
4	3899.2000	40.83	-46.23	29.00	-71.66	-13.00	58.66	Vertical
5	4679.0400	40.58	-45.80	30.69	-69.78	-13.00	56.78	Vertical
6	5458.8800	40.42	-45.07	32.50	-67.41	-13.00	54.41	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]	Polarity
1	1564.6800	42.01	-48.29	25.18	-76.36	-40.00	36.36	Horizontal
2	2347.0200	42.21	-47.48	26.87	-73.65	-13.00	60.65	Horizontal
3	3129.3600	41.19	-46.61	28.38	-72.31	-13.00	59.31	Horizontal
4	3911.7000	40.24	-46.23	29.01	-72.23	-13.00	59.23	Horizontal
5	4694.0400	39.81	-45.80	30.73	-70.52	-13.00	57.52	Horizontal
6	5476.3800	39.23	-45.10	32.54	-68.59	-13.00	55.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	43.93	-48.29	25.18	-74.44	-40.00	34.44	Vertical
2	2347.0200	42.97	-47.48	26.87	-72.89	-13.00	59.89	Vertical
3	3129.3600	42.57	-46.61	28.38	-70.93	-13.00	57.93	Vertical
4	3911.7000	41.50	-46.23	29.01	-70.97	-13.00	57.97	Vertical
5	4694.0400	40.61	-45.80	30.73	-69.72	-13.00	56.72	Vertical
6	5476.3800	40.22	-45.10	32.54	-67.60	-13.00	54.60	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.60	0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.60	-0.000767	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.70	0.000895	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	2.50	0.003197	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	2.60	0.003325	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-1.60	-0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.80	-0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	0.00	0.000000	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-0.30	-0.000384	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	0.80	0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.00	0.000000	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	1.60	0.002046	PASS

---End of Attachment---



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