

Report No.: SEWA2204000011RG01

Rev.: 01

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Appendix B.6

LTE Band 13



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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
Band13	5MHz	QPSK	23205	1RB#0	22.86	25.16	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.83	25.13	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.64	24.94	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.82	24.12	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.72	25.02	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.99	25.29	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.77	25.07	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.94	24.24	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.84	25.14	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.29	25.59	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.83	25.13	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.9	24.2	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.99	24.29	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.67	23.97	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.89	24.19	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.98	23.28	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.85	24.15	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.68	23.98	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.77	24.07	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.08	23.38	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.89	24.19	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.85	24.15	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.9	24.2	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.87	23.17	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.9	25.2	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.91	25.21	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.87	25.17	34.77	PASS



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Band13	10MHz	QPSK	23230	50RB#0	21.89	24.19	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.94	24.24	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.84	24.14	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.75	24.05	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.84	23.14	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.42	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.20	13	PASS



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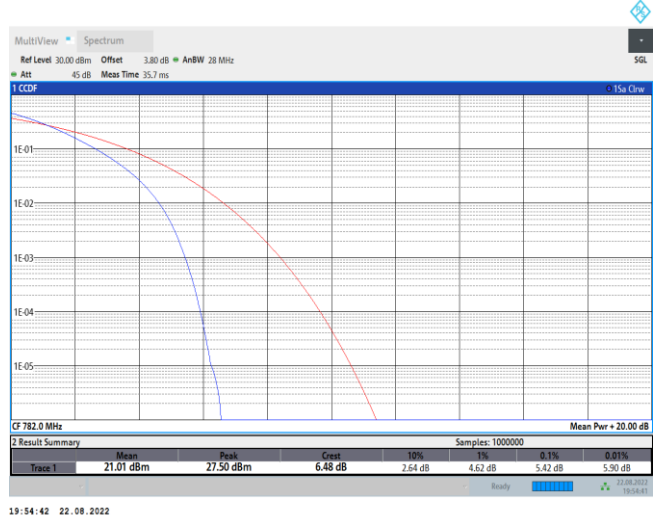
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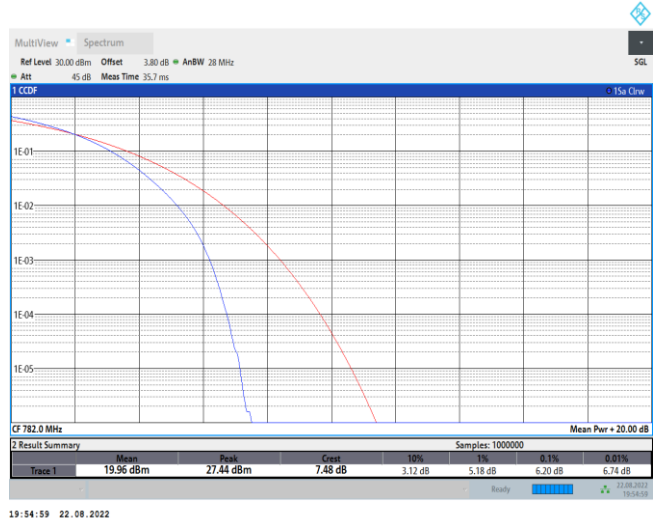
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Test Graphs

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



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



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS



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Test Graphs



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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	23205	25RB#0	4.441	4.83	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.472	4.94	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.459	4.87	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.437	4.85	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.474	4.96	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.455	4.91	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.915	9.64	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.906	9.64	PASS



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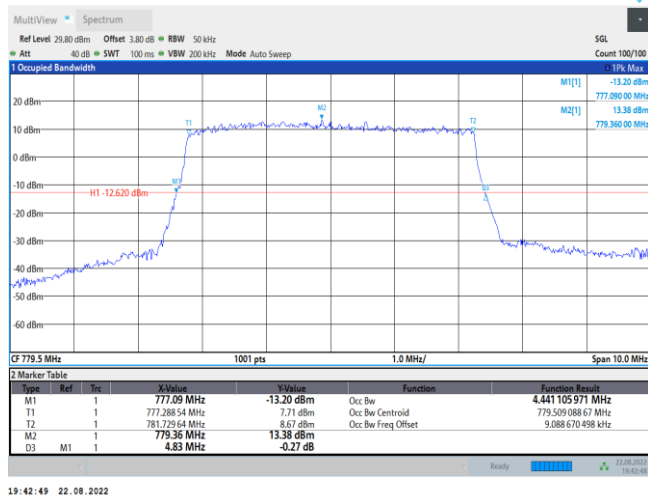
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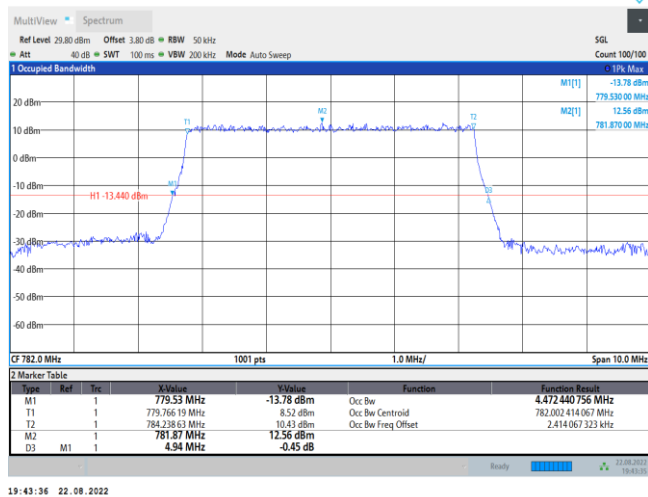
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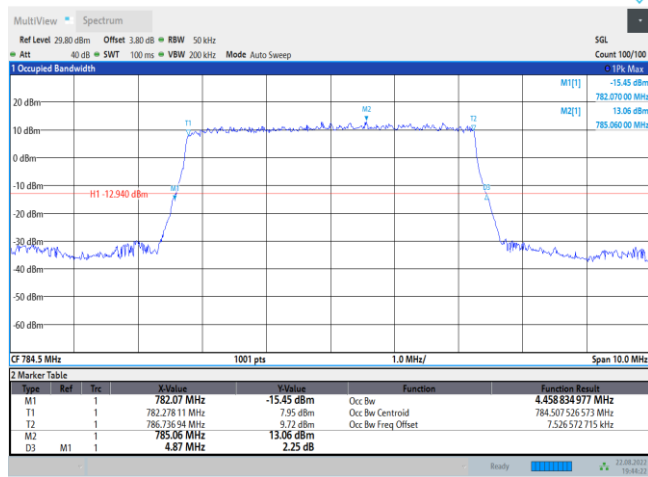


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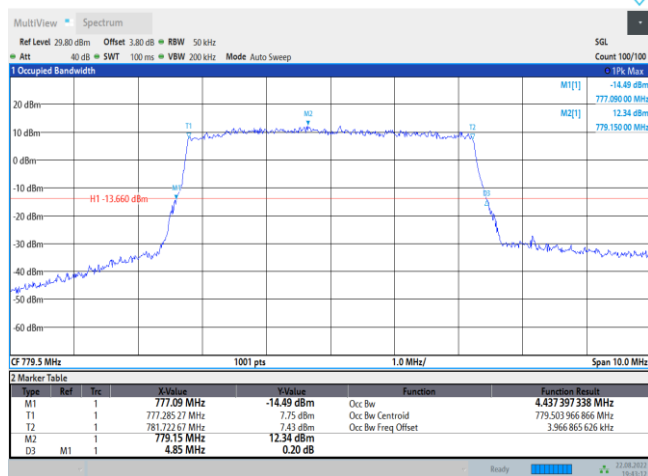
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Band13-5MHz-QPSK-23255-25RB#0



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Band13-5MHz-16QAM-23205-25RB#0

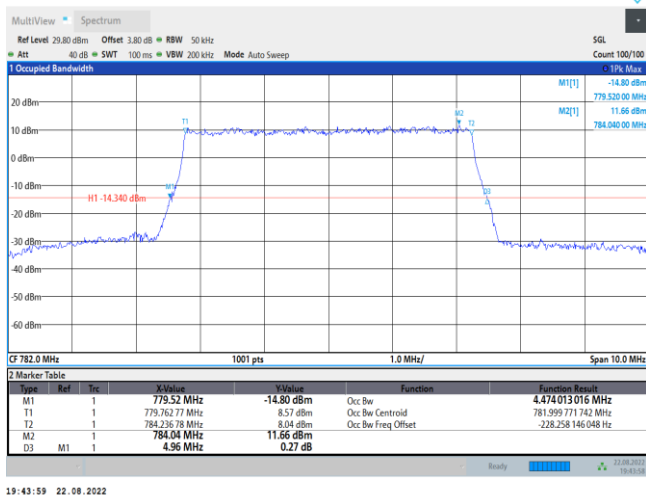


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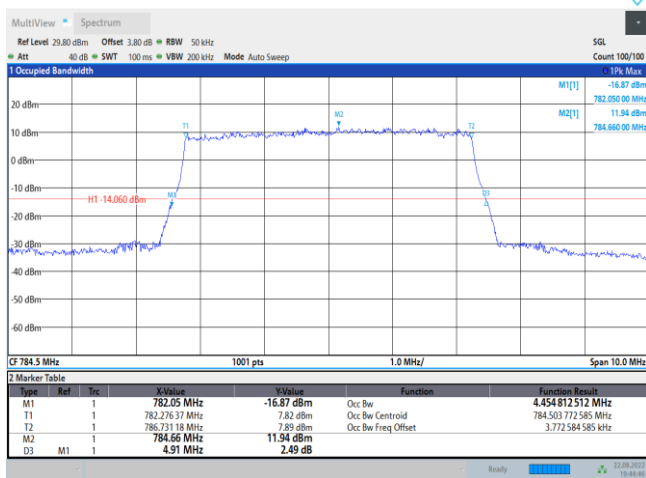
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Band13-5MHz-16QAM-23230-25RB#0



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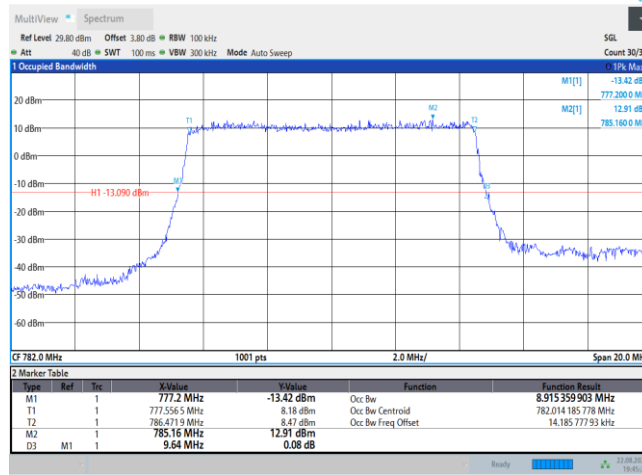


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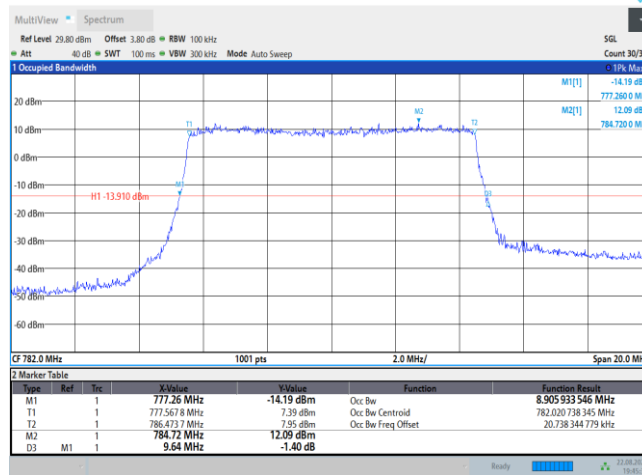
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Band13-10MHz-QPSK-23230-50RB#0



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



19:45:39 22.08.2022

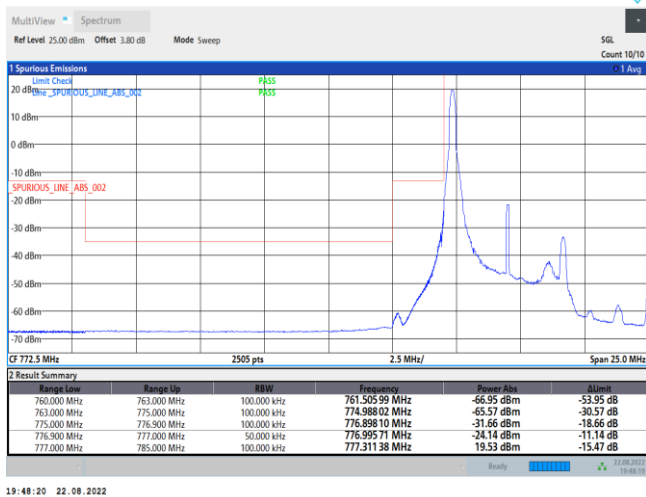


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Band Edge

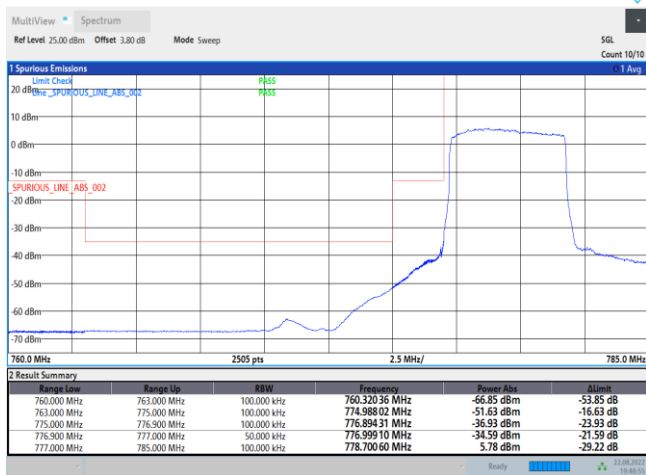
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



19:48:20 22.08.2022

Band13-5MHz-QPSK-23205-25RB#0



19:48:55 22.08.2022

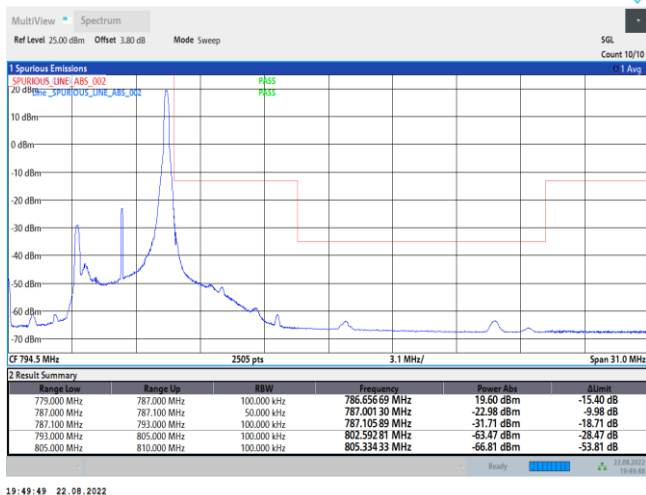


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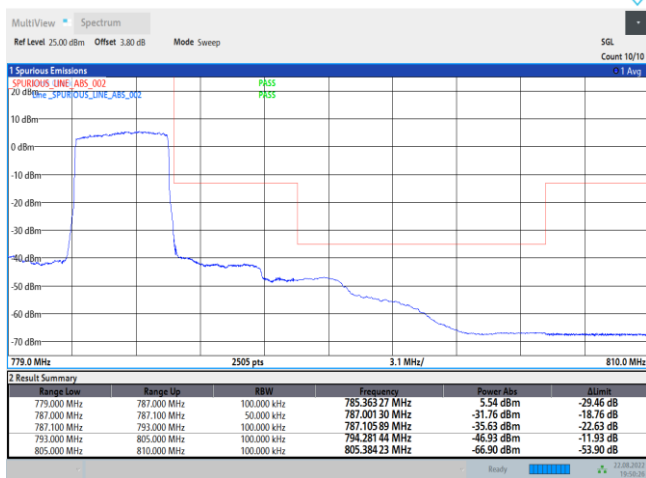
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Band13-5MHz-QPSK-23255-1RB#24



19:49:49 22.08.2022

Band13-5MHz-QPSK-23255-25RB#0

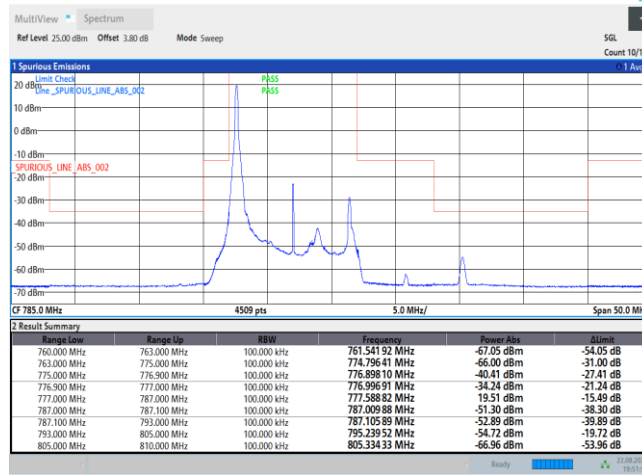


19:50:26 22.08.2022

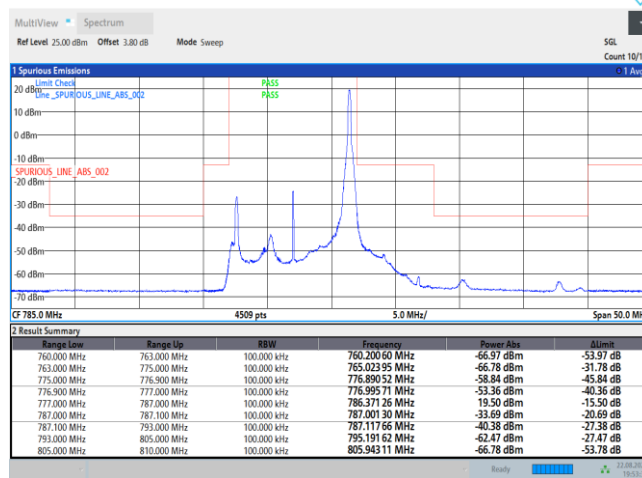


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Band13-10MHz-QPSK-23230-1RB#0



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

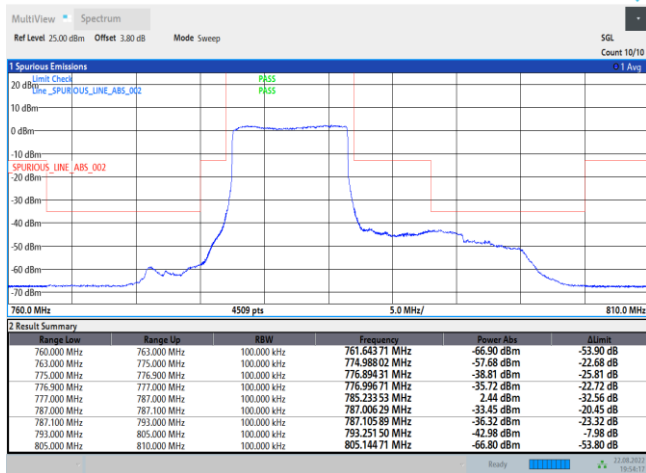


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Band13-10MHz-QPSK-23230-50RB#0



19:54:18 22.08.2022

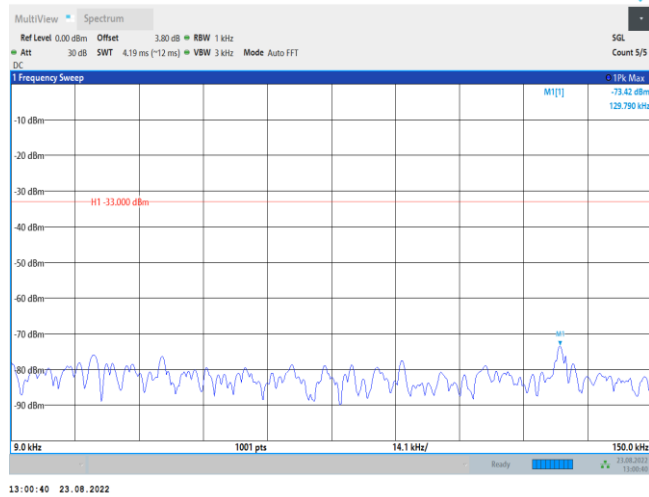


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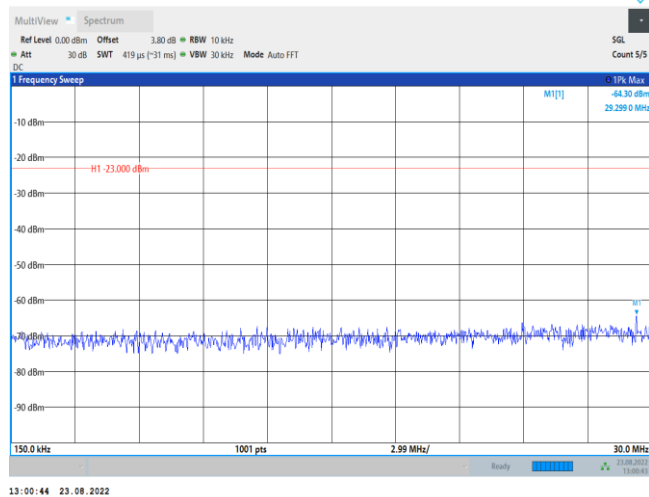
Conducted Spurious Emission

Test Graphs

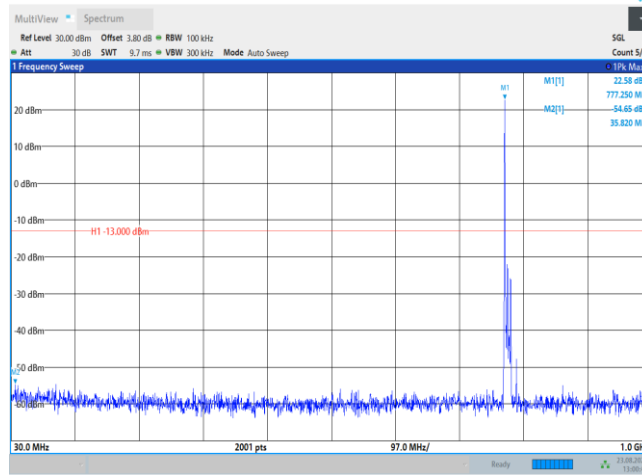
Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



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

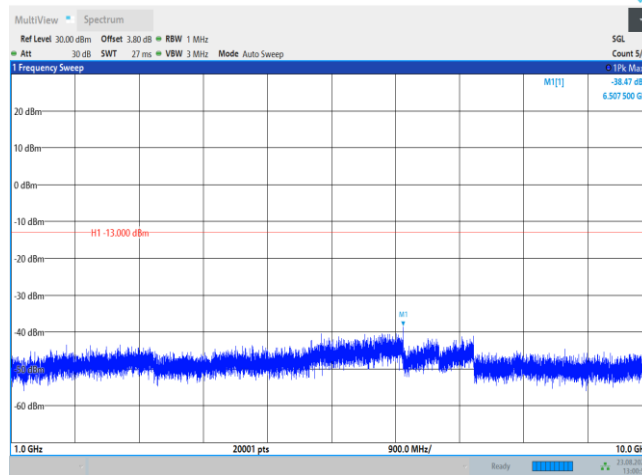


Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



13:00:48 23.08.2022

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



13:00:52 23.08.2022



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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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	544.1300	52.62	-47.10	25.37	-64.37	-13.00	51.37	211	0	Horizontal
2	1555.1800	62.30	-48.30	25.41	-55.85	-13.00	42.85	184	117	Horizontal
3	2332.7700	65.94	-47.48	27.41	-49.40	-13.00	36.40	195	129	Horizontal
4	3110.3600	51.10	-46.70	29.53	-61.33	-13.00	48.33	176	198	Horizontal
5	3887.9500	50.32	-46.22	30.54	-60.62	-13.00	47.62	145	23	Horizontal
6	4665.5400	48.34	-45.80	31.91	-60.81	-13.00	47.81	128	293	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	544.1300	52.27	-47.10	25.37	-64.72	-13.00	51.72	216	305	Vertical
2	1555.1800	58.19	-48.30	25.41	-59.96	-13.00	46.96	251	92	Vertical
3	2332.7700	58.45	-47.48	27.41	-56.89	-13.00	43.89	145	254	Vertical
4	3110.3600	50.70	-46.70	29.53	-61.73	-13.00	48.73	216	292	Vertical
5	3887.9500	51.67	-46.22	30.54	-59.27	-13.00	46.27	236	105	Vertical
6	4665.5400	48.06	-45.80	31.91	-61.09	-13.00	48.09	261	78	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	63.87	-48.30	25.41	-54.28	-13.00	41.28	184	146	Horizontal
2	2332.0200	64.23	-47.48	27.41	-51.11	-13.00	38.11	175	334	Horizontal
3	3109.3600	50.55	-46.71	29.53	-61.88	-13.00	48.88	142	133	Horizontal
4	3886.7000	49.73	-46.22	30.53	-61.22	-13.00	48.22	261	146	Horizontal
5	4664.0400	48.22	-45.80	31.91	-60.93	-13.00	47.93	199	0	Horizontal
6	5441.3800	48.75	-45.04	32.85	-58.71	-13.00	45.71	210	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	1554.6800	58.37	-48.30	25.41	-59.78	-13.00	46.78	254	360	Vertical
2	2332.0200	57.68	-47.48	27.41	-57.66	-13.00	44.66	174	106	Vertical
3	3109.3600	51.12	-46.71	29.53	-61.31	-13.00	48.31	185	360	Vertical
4	3886.7000	51.59	-46.22	30.53	-59.36	-13.00	46.36	196	358	Vertical
5	4664.0400	49.40	-45.80	31.91	-59.75	-13.00	46.75	166	227	Vertical
6	5441.3800	49.17	-45.04	32.85	-58.29	-13.00	45.29	236	320	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	58.36	-48.30	25.40	-59.79	-40.00	19.79	211	252	Horizontal
2	2339.5200	63.66	-47.48	27.41	-51.67	-13.00	38.67	145	238	Horizontal
3	3119.3600	50.83	-46.66	29.55	-61.54	-13.00	48.54	163	346	Horizontal
4	3899.2000	49.14	-46.23	30.56	-61.79	-13.00	48.79	251	90	Horizontal
5	4679.0400	47.36	-45.80	31.95	-61.75	-13.00	48.75	142	50	Horizontal
6	5458.8800	48.72	-45.07	32.87	-58.75	-13.00	45.75	133	266	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	56.78	-48.30	25.40	-61.37	-40.00	21.37	215	354	Vertical
2	2339.5200	58.91	-47.48	27.41	-56.42	-13.00	43.42	184	257	Vertical
3	3119.3600	50.59	-46.66	29.55	-61.78	-13.00	48.78	175	360	Vertical
4	3899.2000	49.56	-46.23	30.56	-61.37	-13.00	48.37	146	337	Vertical
5	4679.0400	48.82	-45.80	31.95	-60.29	-13.00	47.29	291	4	Vertical
6	5458.8800	47.97	-45.07	32.87	-59.50	-13.00	46.50	140	147	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	1564.6800	62.83	-48.29	25.40	-55.33	-40.00	15.33	145	251	Horizontal
2	2347.0200	69.01	-47.48	27.41	-46.31	-13.00	33.31	210	116	Horizontal
3	3129.3600	50.73	-46.61	29.56	-61.58	-13.00	48.58	230	116	Horizontal
4	3911.7000	50.40	-46.23	30.59	-60.49	-13.00	47.49	261	13	Horizontal
5	4694.0400	48.85	-45.80	32.00	-60.21	-13.00	47.21	145	144	Horizontal
6	5476.3800	48.01	-45.10	32.88	-59.47	-13.00	46.47	191	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	1564.6800	58.86	-48.29	25.40	-59.30	-40.00	19.30	255	13	Vertical
2	2347.0200	58.66	-47.48	27.41	-56.66	-13.00	43.66	148	256	Vertical
3	3129.3600	49.88	-46.61	29.56	-62.43	-13.00	49.43	196	214	Vertical
4	3911.7000	50.41	-46.23	30.59	-60.48	-13.00	47.48	142	268	Vertical
5	4694.0400	47.69	-45.80	32.00	-61.37	-13.00	48.37	172	80	Vertical
6	5476.3800	48.68	-45.10	32.88	-58.80	-13.00	45.80	130	360	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBuV) + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier gain (dB)

Margin = Limit(dBm) - Level(dBm)

dBuV=dbm+95.26



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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	0.80	0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	1.40	0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.20	0.000256	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-0.60	-0.000767	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.90	-0.001151	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	1.70	0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.10	-0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.50	0.001918	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.10	0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-1.70	-0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	2.30	0.002941	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	0.50	0.000639	PASS

$|\text{MAX}(\Delta f)| = 2.3\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	777.568954	$\cong 777\text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	786.454182	$\cong 787\text{ MHz}$	

---End of Attachment---



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