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Appendix B.5

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	22.91	22.86	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.77	22.72	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.9	22.85	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.27	22.22	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.18	23.13	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.96	22.91	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.21	23.16	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.29	22.24	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.21	23.16	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.46	23.41	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.49	23.44	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.54	22.49	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.71	21.66	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.19	22.14	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.34	22.29	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.39	21.34	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.68	22.63	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.49	22.44	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.73	22.68	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.45	21.4	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.82	22.77	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.45	22.4	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.38	22.33	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.32	21.27	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.22	23.17	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.87	22.82	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.19	23.14	34.77	PASS



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Band13	10MHz	QPSK	23230	50RB#0	22.26	22.21	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.57	22.52	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.55	22.5	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.32	22.27	34.77	PASS
Band13	10MHz	16QAM	23230	27RB#0	21.93	21.88	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	6.10	13	PASS
Band13	10MHz	16QAM	23230	27RB#0	6.88	13	PASS



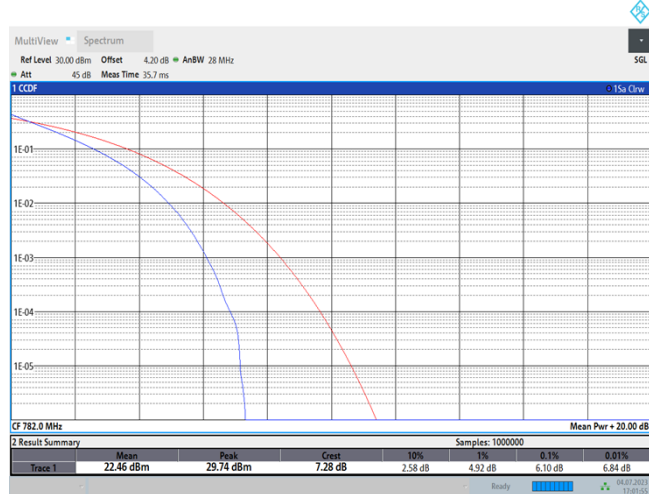
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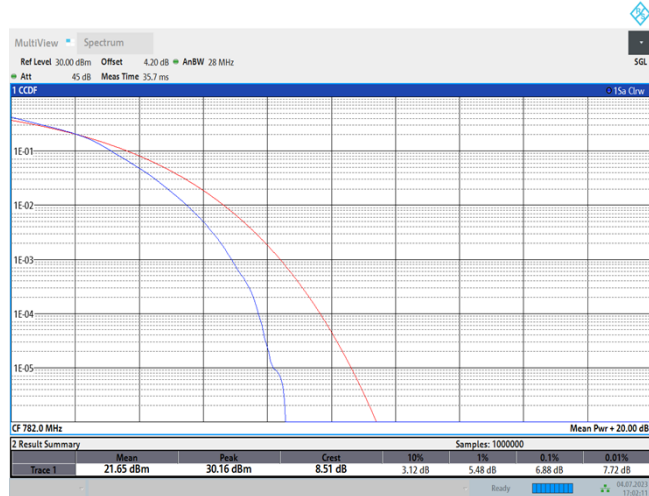
Test Graphs

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



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Band13-10MHz-16QAM-23230-27RB#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	27RB#0	PASS	PASS



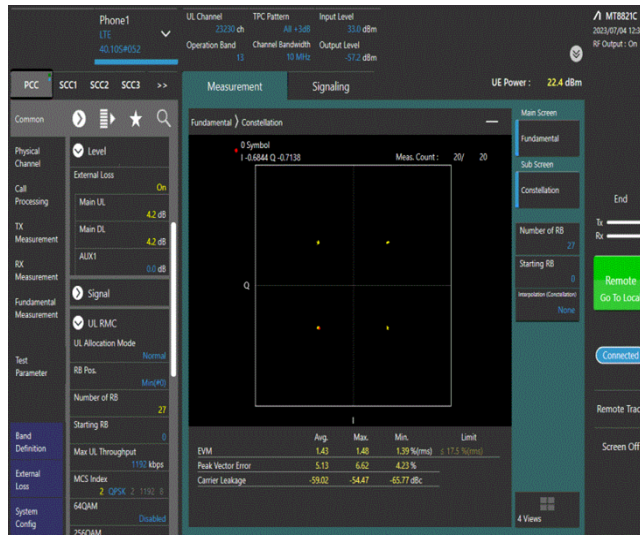
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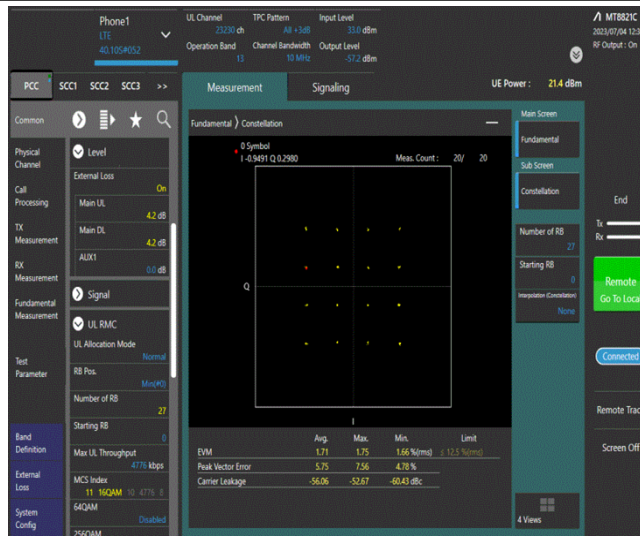
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Test Graphs

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



Band13-10MHz-16QAM-23230-27RB#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	23205	25RB#0	4.473	4.99	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.470	4.97	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.468	4.97	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.465	4.98	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.467	4.97	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.468	4.93	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.946	9.94	PASS
Band13	10MHz	16QAM	23230	27RB#0	4.865	6.00	PASS



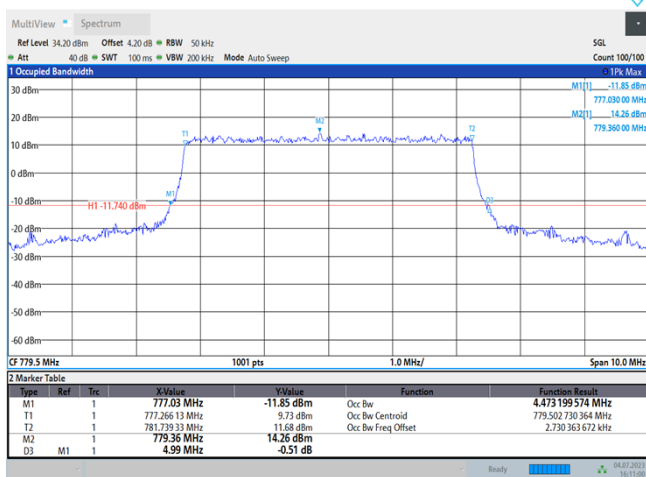
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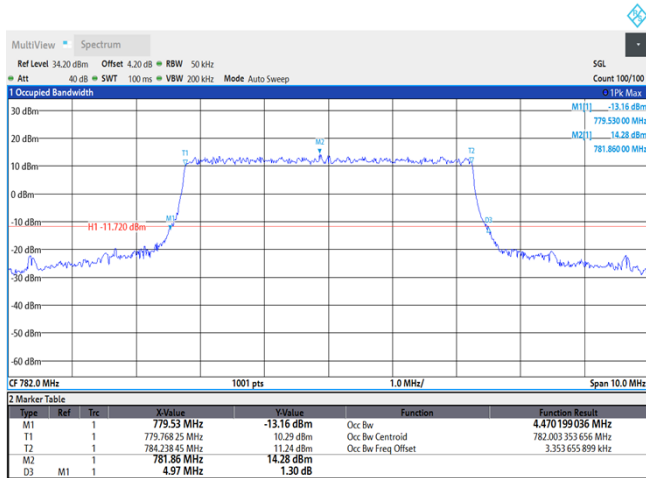
Test Graphs

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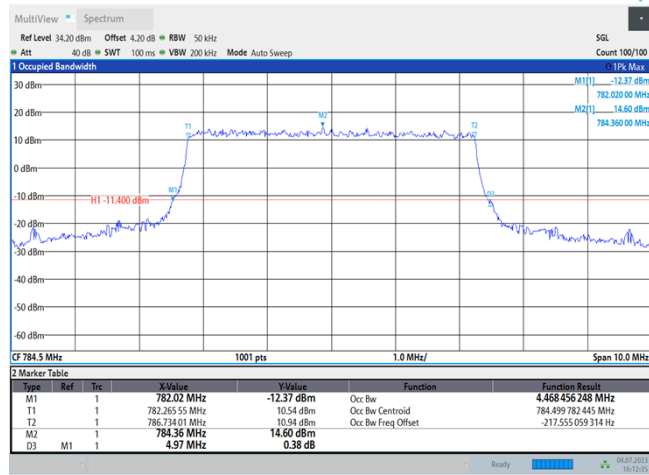
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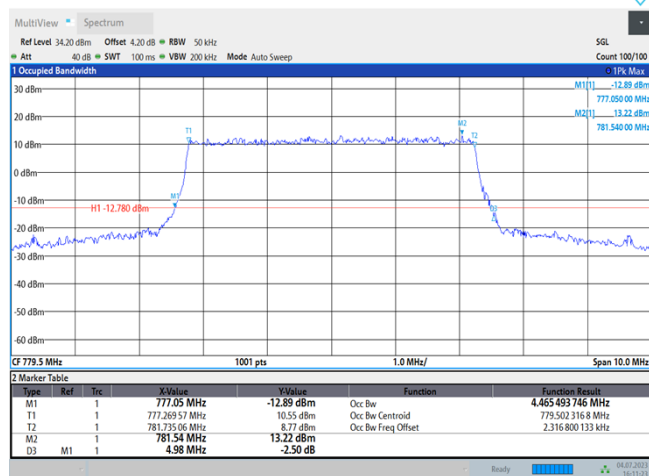
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Band13-5MHz-QPSK-23255-25RB#0



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



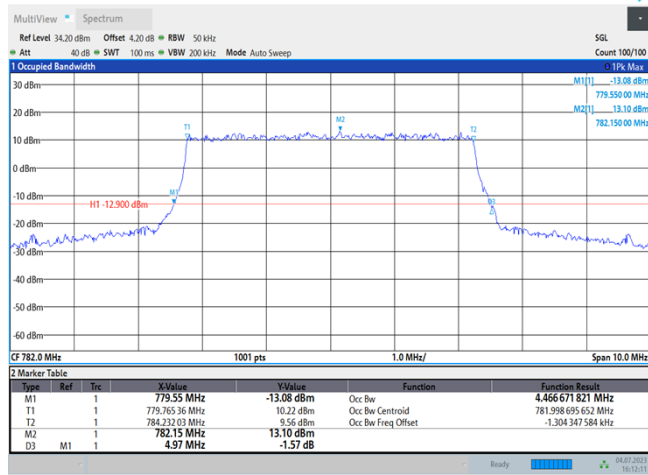
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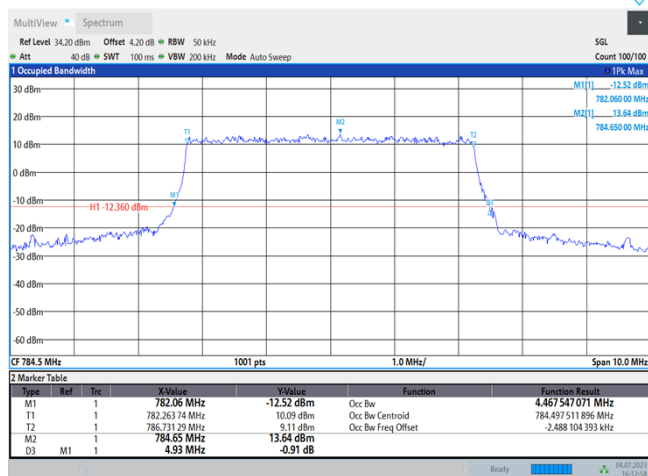
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Band13-5MHz-16QAM-23230-25RB#0



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Band13-5MHz-16QAM-23255-25RB#0



16:12:59 04.07.2023



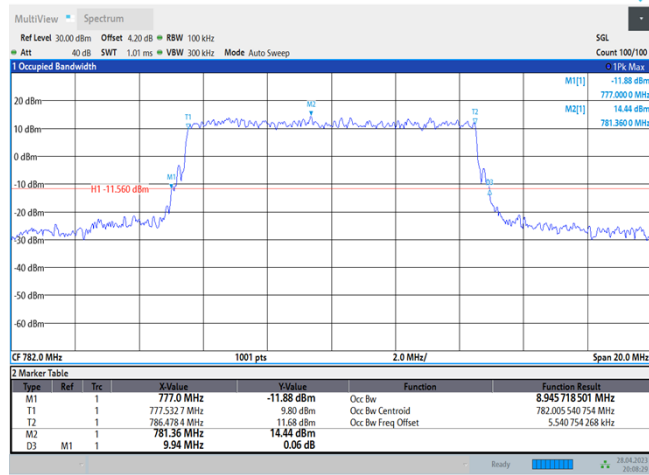
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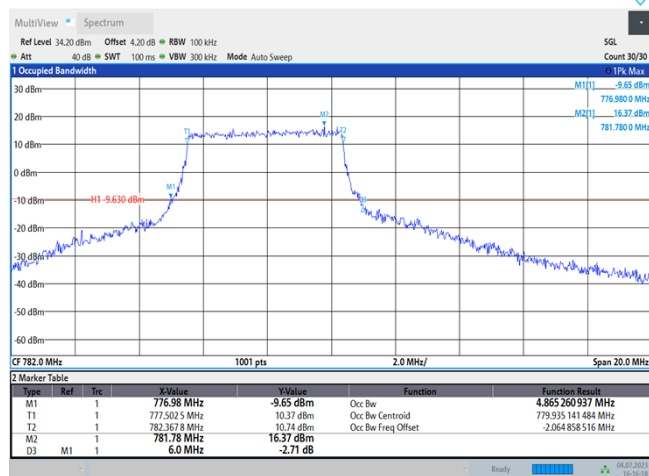
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Band13-10MHz-QPSK-23230-50RB#0



20:08:30 04.07.2023

Band13-10MHz-16QAM-23230-27RB#0



16:16:18 04.07.2023



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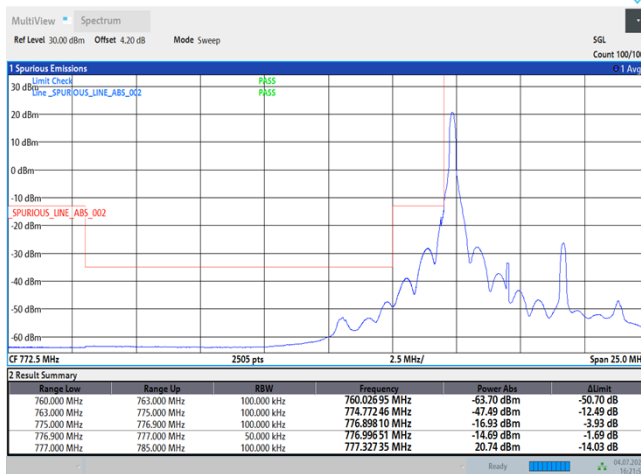
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Band Edge

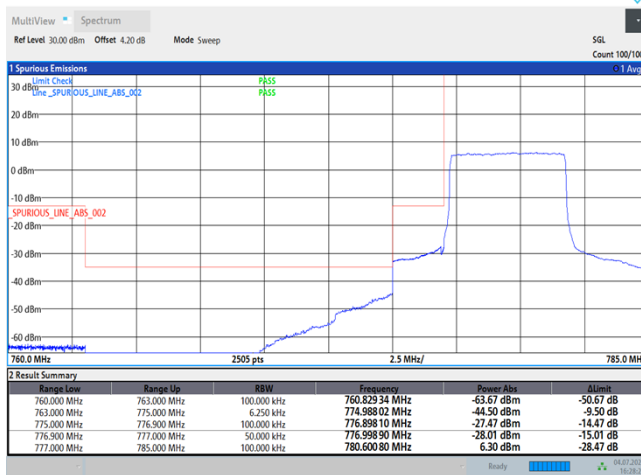
Test Graphs

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



16:21:56 04.07.2023

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



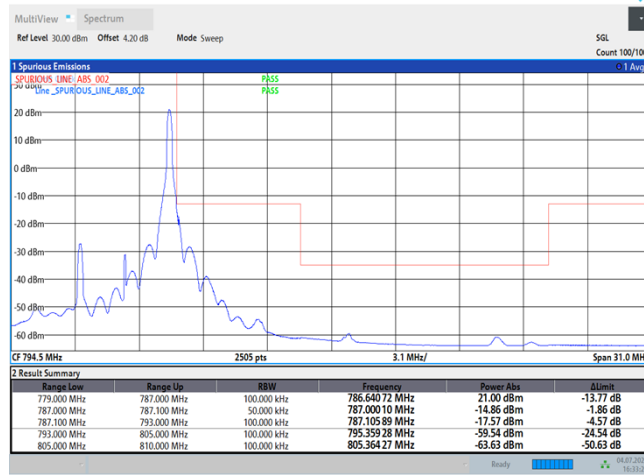
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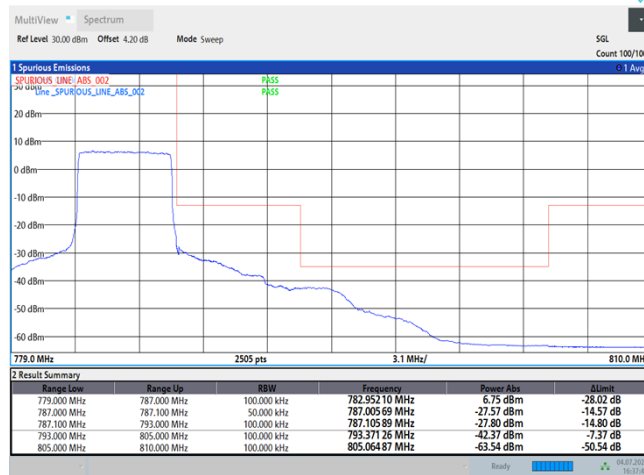
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Band13-5MHz-QPSK-23255-1RB#24



16:33:21 04.07.2023

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



16:37:46 04.07.2023

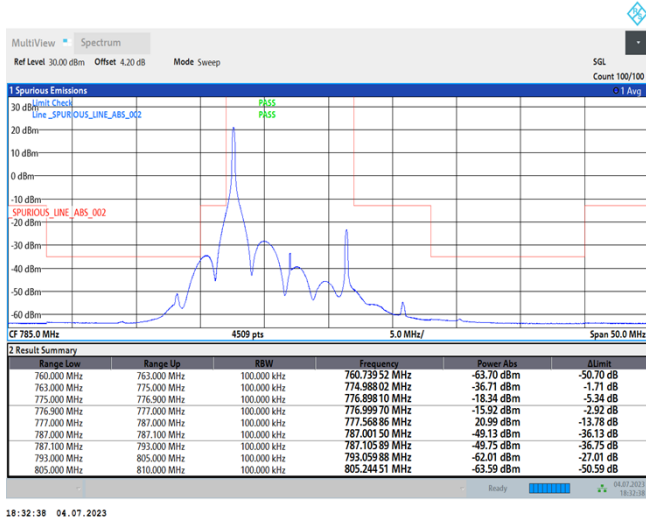


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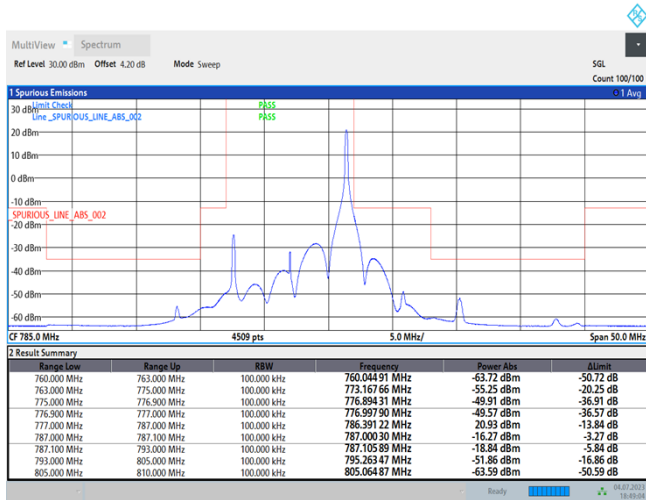
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Band13-10MHz-QPSK-23230-1RB#0



18:32:38 04.07.2023

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

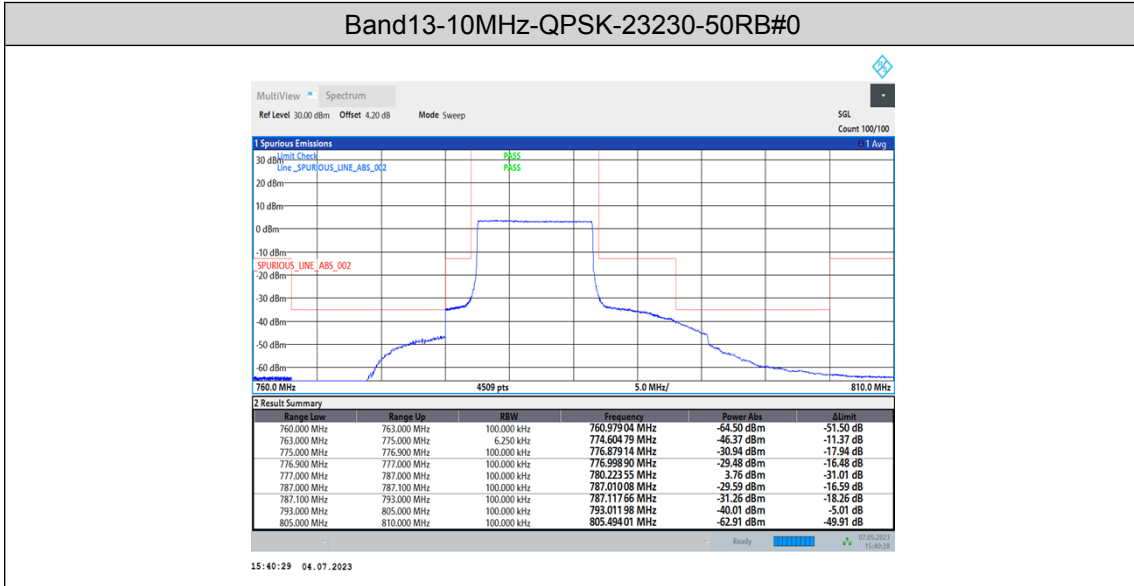


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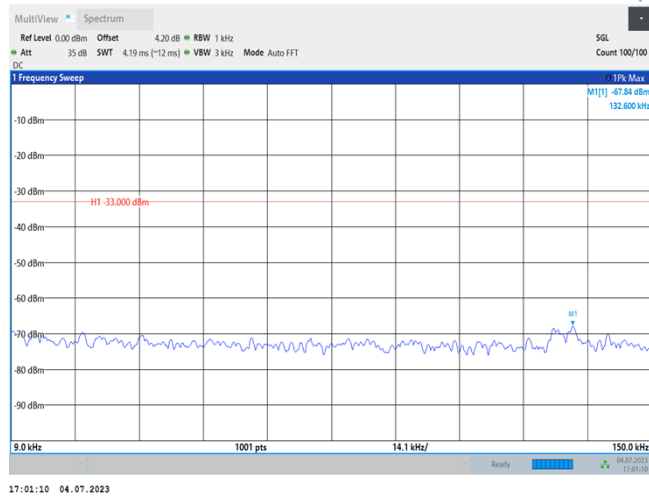
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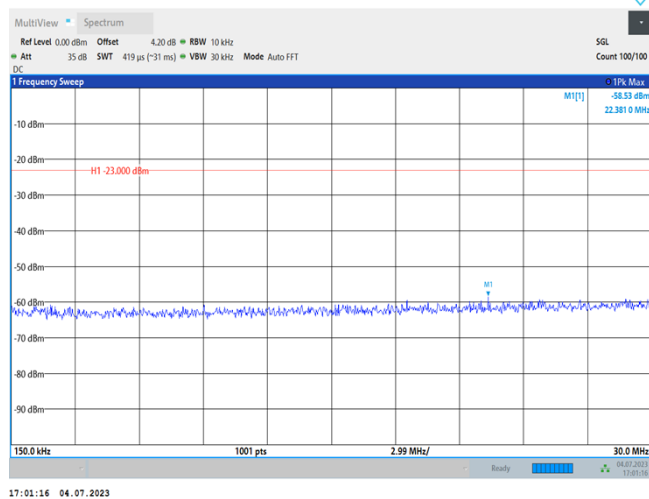
Conducted Spurious Emission

Test Graphs

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



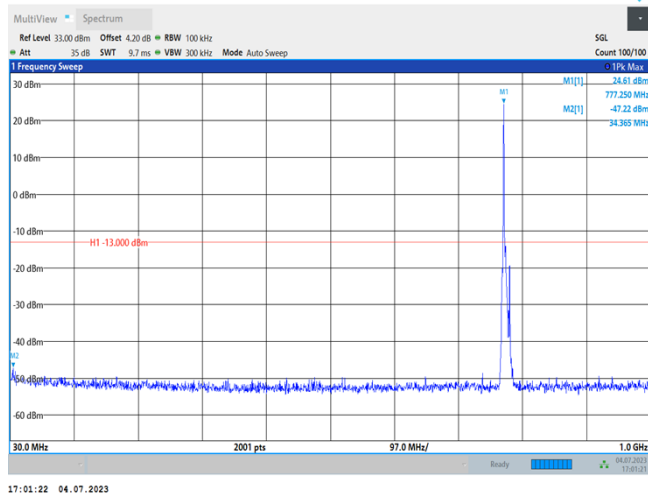
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



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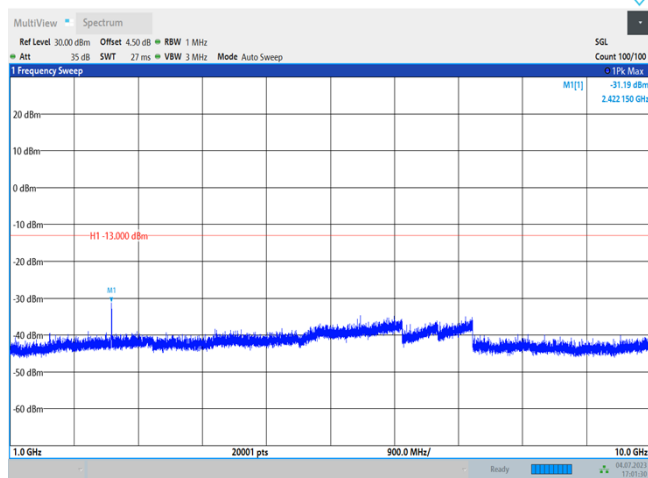
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



17:01:22 04.07.2023

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



17:01:30 04.07.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band 13_10MHz_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.18	49.14	-48.51	24.71	-69.92	-13.00	56.92	102	303	Horizontal
2	2332.77	52.48	-47.62	27.03	-63.36	-13.00	50.36	265	301	Horizontal
3	3110.36	52.48	-46.51	29.52	-59.77	-13.00	46.77	284	117	Horizontal
4	3887.95	45.32	-45.54	30.92	-64.56	-13.00	51.56	142	3	Horizontal
5	4665.54	43.13	-44.58	32.47	-64.24	-13.00	51.24	263	289	Horizontal
6	5443.13	42.81	-43.83	33.11	-63.17	-13.00	50.17	228	145	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	1555.18	50.54	-48.51	24.71	-68.52	-13.00	55.52	102	358	Vertical
2	2332.77	56.09	-47.62	27.03	-59.75	-13.00	46.75	265	59	Vertical
3	3110.36	58.73	-46.51	29.52	-53.52	-13.00	40.52	284	59	Vertical
4	3887.95	45.31	-45.54	30.92	-64.57	-13.00	51.57	142	351	Vertical
5	4665.54	43.54	-44.58	32.47	-63.83	-13.00	50.83	263	0	Vertical
6	5443.13	42.07	-43.83	33.11	-63.91	-13.00	50.91	228	0	Vertical



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Test Band = LTE Band 13_5MHz _ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1000	46.81	-47.36	25.40	-70.41	-13.00	57.41	200	357	Horizontal
2	2332	54.87	-47.62	27.03	-60.98	-13.00	47.98	102	105	Horizontal
3	1554.68	50.05	-48.51	24.71	-69.00	-13.00	56.00	265	119	Horizontal
4	3109.36	53.87	-46.51	29.52	-58.38	-13.00	45.38	284	273	Horizontal
5	3886.7	44.20	-45.54	30.92	-65.69	-13.00	52.69	142	273	Horizontal
6	4664.04	42.20	-44.58	32.46	-65.18	-13.00	52.18	263	114	Horizontal
7	5441.38	41.59	-43.83	33.11	-64.39	-13.00	51.39	228	41	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	1554.5	54.98	-48.51	24.71	-64.07	-13.00	51.07	126	0	Vertical
2	2332	57.46	-47.62	27.03	-58.39	-13.00	45.39	142	319	Vertical
3	3109.36	56.36	-46.51	29.52	-55.89	-13.00	42.89	263	316	Vertical
4	3886.7	46.82	-45.54	30.92	-63.07	-13.00	50.07	254	343	Vertical
5	4664.04	42.59	-44.58	32.46	-64.79	-13.00	51.79	152	4	Vertical
6	5441.38	42.20	-43.83	33.11	-63.78	-13.00	50.78	365	186	Vertical



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Test Band = LTE Band 13_5MHz _ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	51.58	-48.51	24.70	-67.49	-40.00	27.49	102	76	Horizontal
2	2339.52	49.97	-47.61	27.05	-65.86	-13.00	52.86	254	332	Horizontal
3	3119.36	51.71	-46.49	29.52	-60.51	-13.00	47.51	142	259	Horizontal
4	3899.2	43.15	-45.53	30.96	-66.68	-13.00	53.68	263	9	Horizontal
5	4679.04	42.37	-44.57	32.49	-64.96	-13.00	51.96	225	1	Horizontal
6	5458.88	41.69	-43.82	33.11	-64.28	-13.00	51.28	118	28	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	2339.5	55.97	-47.61	27.05	-59.86	-13.00	46.86	102	18	Vertical
2	1559.68	52.29	-48.51	24.70	-66.78	-40.00	26.78	265	332	Vertical
3	3119.36	55.37	-46.49	29.52	-56.85	-13.00	43.85	241	315	Vertical
4	3899.2	44.35	-45.53	30.96	-65.48	-13.00	52.48	142	197	Vertical
5	4679.04	42.55	-44.57	32.49	-64.78	-13.00	51.78	263	57	Vertical
6	5458.88	41.69	-43.82	33.11	-64.28	-13.00	51.28	228	290	Vertical



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Test Band = LTE Band 13_5MHz _ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2347	49.58	-47.61	27.06	-66.23	-13.00	53.23	102	32	Horizontal
2	1564.68	50.87	-48.51	24.69	-68.21	-40.00	28.21	265	114	Horizontal
3	3129.36	50.51	-46.46	29.53	-61.68	-13.00	48.68	284	274	Horizontal
4	3911.7	43.02	-45.53	31.00	-66.77	-13.00	53.77	142	276	Horizontal
5	4694.04	42.30	-44.55	32.53	-64.99	-13.00	51.99	263	18	Horizontal
6	5476.38	41.94	-43.80	33.10	-64.02	-13.00	51.02	228	290	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	1564.5	54.20	-48.51	24.69	-64.88	-40.00	24.88	102	57	Vertical
2	2347.02	51.64	-47.61	27.06	-64.17	-13.00	51.17	265	330	Vertical
3	3129.36	54.57	-46.46	29.53	-57.62	-13.00	44.62	284	330	Vertical
4	3911.7	43.80	-45.53	31.00	-65.99	-13.00	52.99	142	359	Vertical
5	4694.04	42.60	-44.55	32.53	-64.69	-13.00	51.69	263	215	Vertical
6	5476.38	41.80	-43.80	33.10	-64.16	-13.00	51.16	228	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

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	-5.10	-0.006522	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-5.80	-0.007417	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-4.50	-0.005754	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-4.90	-0.006266	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-6.80	-0.008696	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-3.30	-0.004220	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-4.10	-0.005243	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-4.50	-0.005754	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-4.70	-0.006010	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-3.90	-0.004987	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.30	-0.001662	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-2.60	-0.003325	PASS

---End of Attachment---



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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