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)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.73	25.03	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.71	25.01	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.78	25.08	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.82	24.12	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.73	25.03	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.75	25.05	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.72	25.02	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.85	24.15	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.81	25.11	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.79	25.09	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.73	25.03	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.84	24.14	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.96	24.26	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.05	24.35	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.09	24.39	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.87	23.17	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.92	24.22	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.13	24.43	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.01	24.31	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.87	23.17	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.04	24.34	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.13	24.43	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.05	24.35	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.88	23.18	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.79	25.09	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.81	25.11	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.73	25.03	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.85	24.15	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.01	24.31	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.15	24.45	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.96	24.26	34.77	PASS

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Band13	10MHz	16QAM	23230	50RB#0	20.89	23.19	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	5.54	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.36	13	PASS

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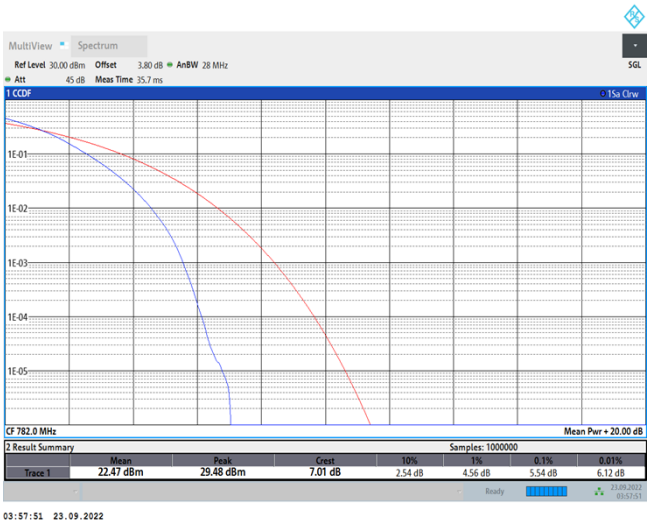
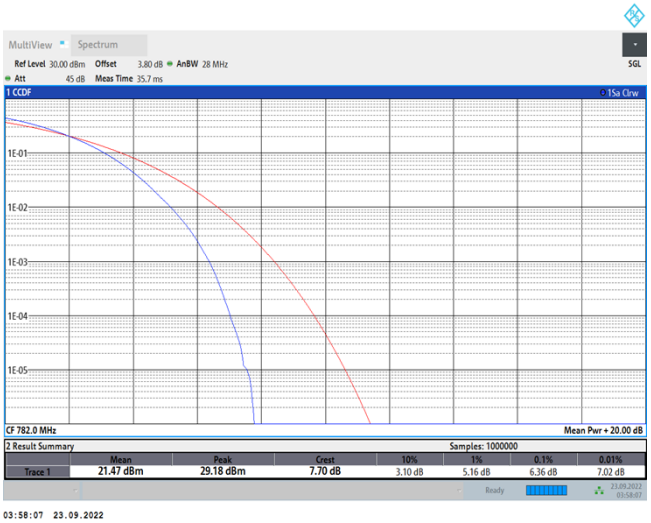
Test Graphs

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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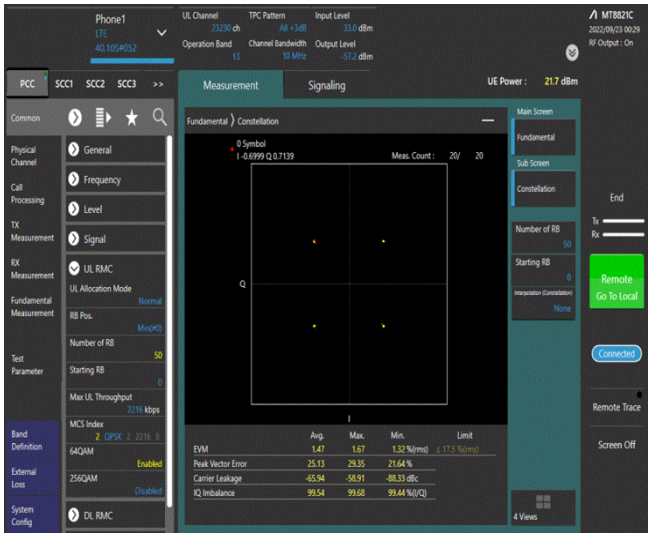
Test Graphs

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


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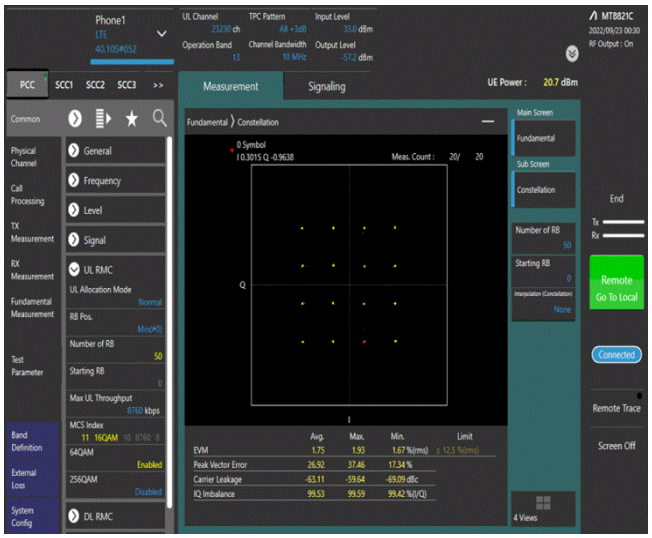

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.46	4.88	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.473	4.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.475	4.91	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.459	4.87	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.471	4.90	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.472	4.91	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.921	9.60	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.902	9.60	PASS

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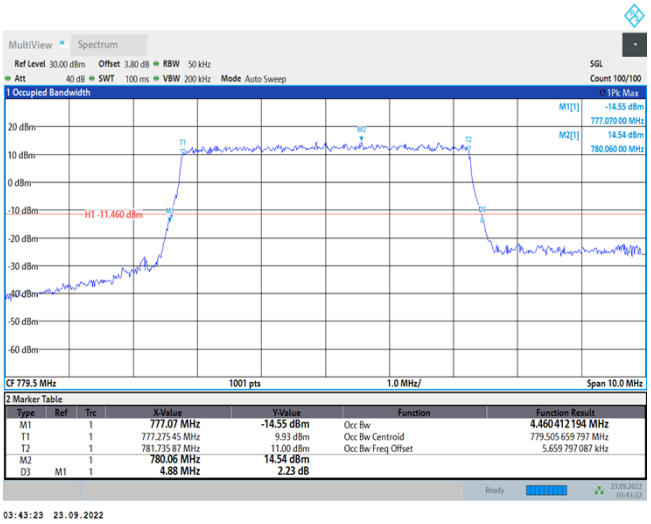
Test Graphs

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



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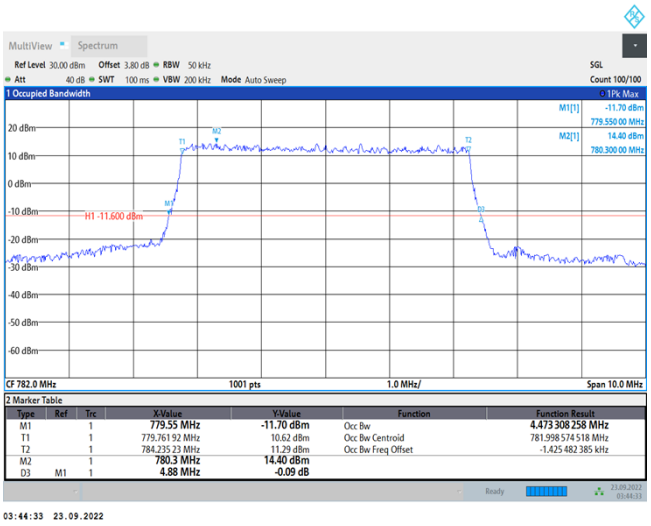

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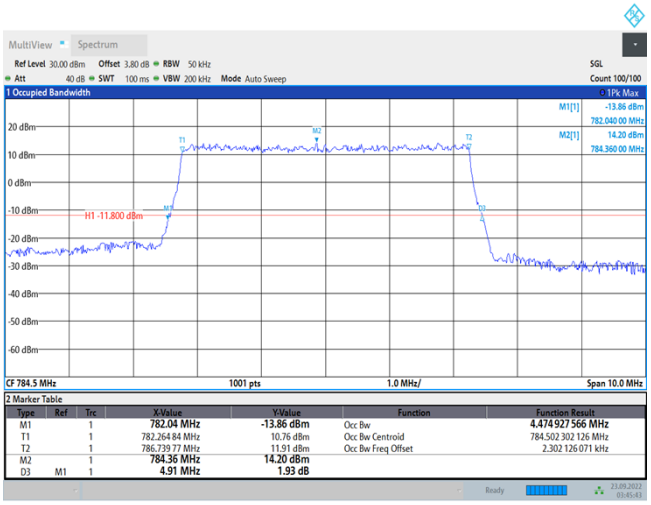
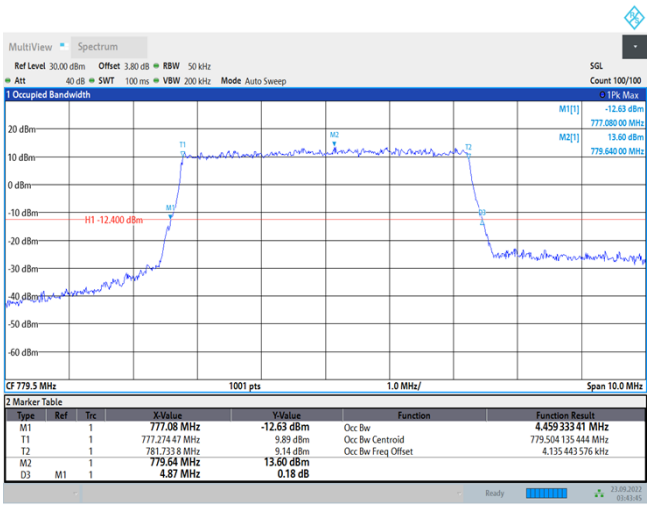
Band13-5MHz-QPSK-23255-25RB#0



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



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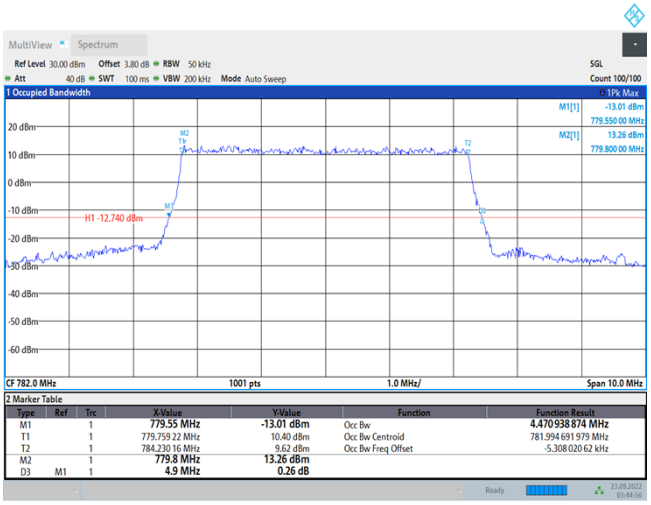
Band13-5MHz-16QAM-23230-25RB#0



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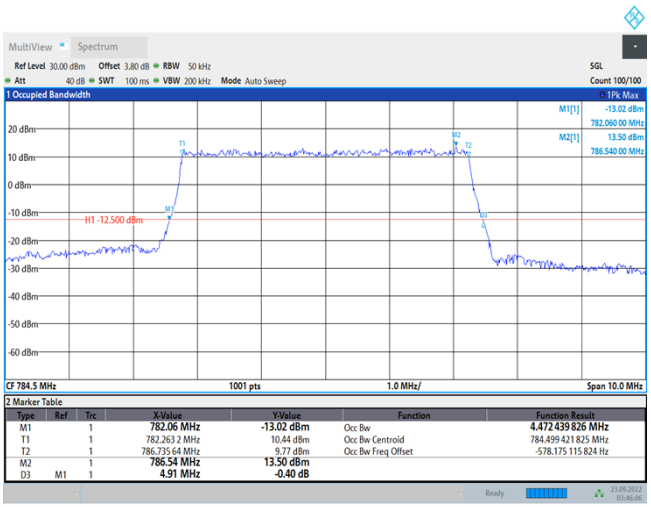
Band13-5MHz-16QAM-23255-25RB#0



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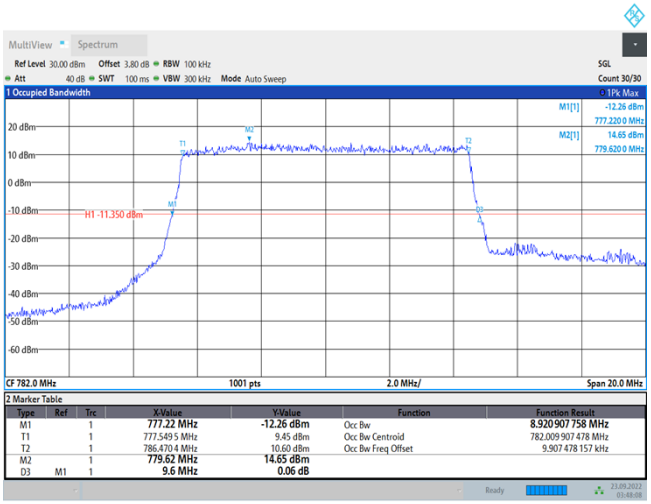
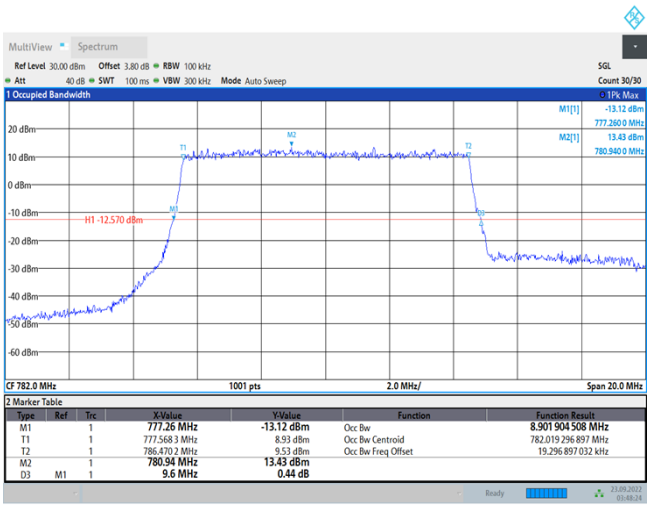
Band13-10MHz-QPSK-23230-50RB#0



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



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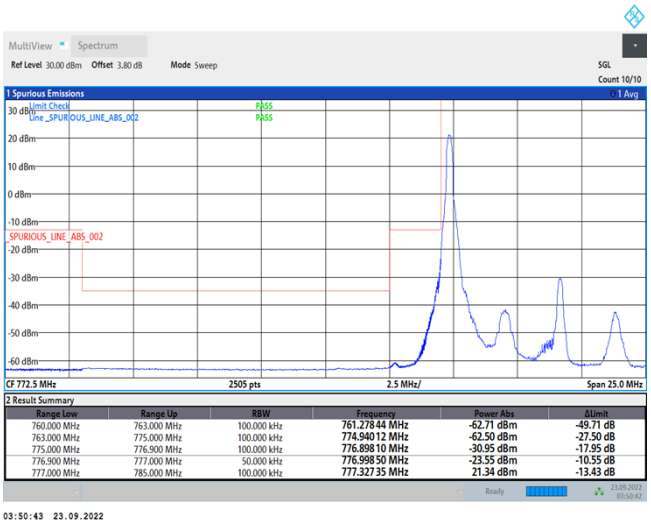
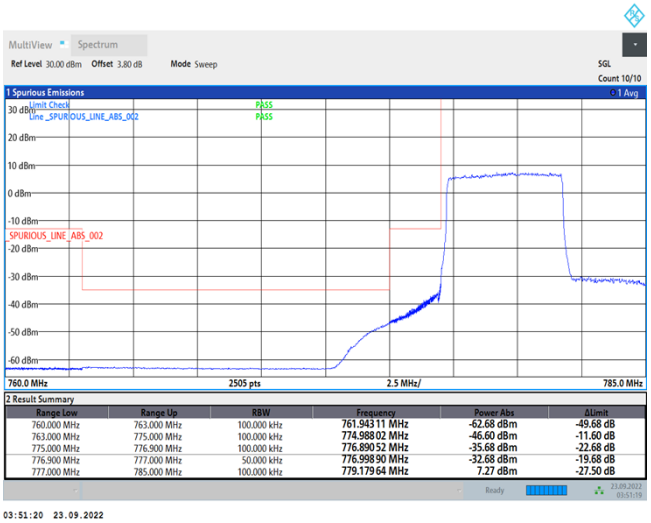
Band Edge

Test Graphs

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



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



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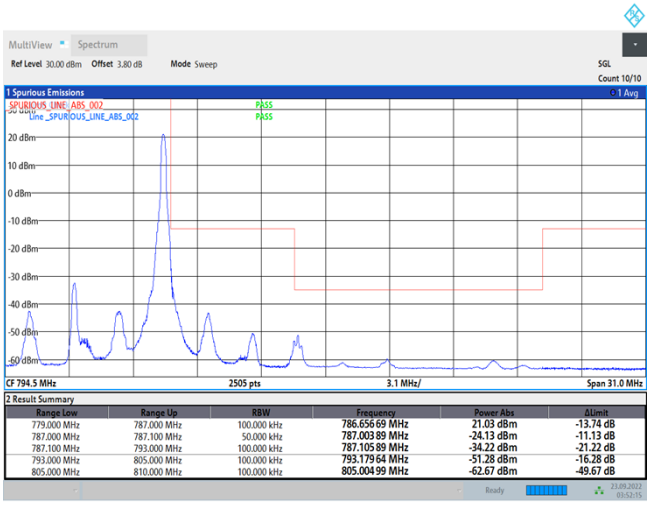
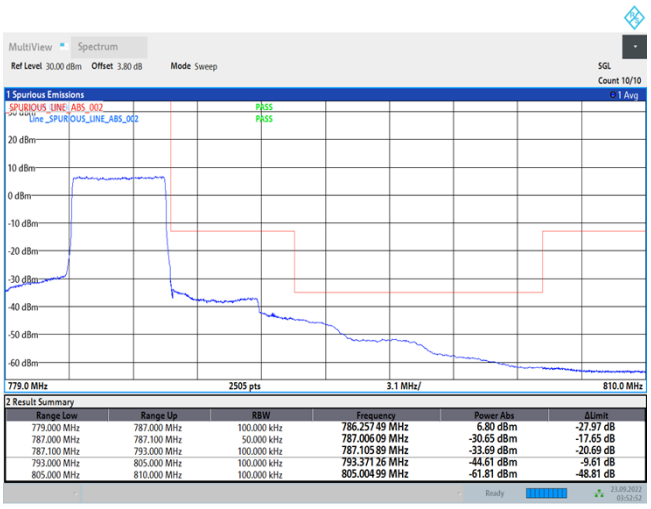
Band13-5MHz-QPSK-23255-1RB#24



03:52:15 23.09.2022

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



03:52:52 23.09.2022

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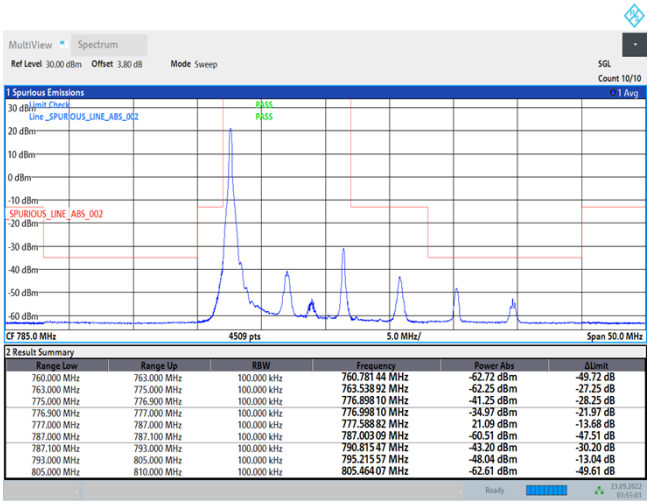
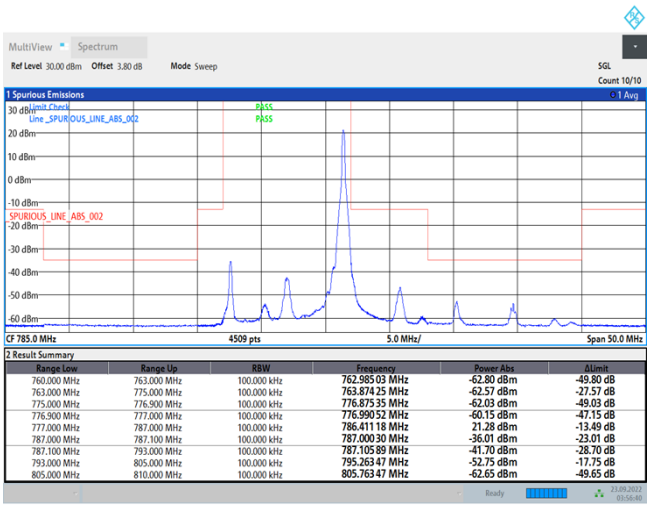
Band13-10MHz-QPSK-23230-1RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
760.000 MHz	763.000 MHz	100.000 kHz	760.781 44 MHz	-62.72 dBm	-49.72 dB
763.000 MHz	775.000 MHz	100.000 kHz	763.538 92 MHz	-62.25 dBm	-27.25 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.898 10 MHz	-41.25 dBm	-28.25 dB
776.900 MHz	777.000 MHz	100.000 kHz	776.998 10 MHz	-34.97 dBm	-21.97 dB
777.000 MHz	787.000 MHz	100.000 kHz	777.588 82 MHz	21.09 dBm	-13.68 dB
787.000 MHz	787.100 MHz	100.000 kHz	787.003 09 MHz	-60.51 dBm	-47.51 dB
787.100 MHz	793.000 MHz	100.000 kHz	790.815 47 MHz	-43.20 dBm	-30.20 dB
793.000 MHz	805.000 MHz	100.000 kHz	795.215 57 MHz	-48.04 dBm	-13.04 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.464 07 MHz	-62.61 dBm	-49.61 dB

03:55:01 23.09.2022

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



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
760.000 MHz	763.000 MHz	100.000 kHz	762.985 03 MHz	-62.80 dBm	-49.80 dB
763.000 MHz	775.000 MHz	100.000 kHz	763.874 25 MHz	-62.57 dBm	-27.57 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.875 35 MHz	-62.03 dBm	-49.03 dB
776.900 MHz	777.000 MHz	100.000 kHz	776.990 52 MHz	-60.15 dBm	-47.15 dB
777.000 MHz	787.000 MHz	100.000 kHz	786.411 18 MHz	21.28 dBm	-13.49 dB
787.000 MHz	787.100 MHz	100.000 kHz	787.000 30 MHz	-36.01 dBm	-23.01 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.105 89 MHz	-41.70 dBm	-28.70 dB
793.000 MHz	805.000 MHz	100.000 kHz	795.263 47 MHz	-52.75 dBm	-17.75 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.763 47 MHz	-62.65 dBm	-49.65 dB

03:56:40 23.09.2022

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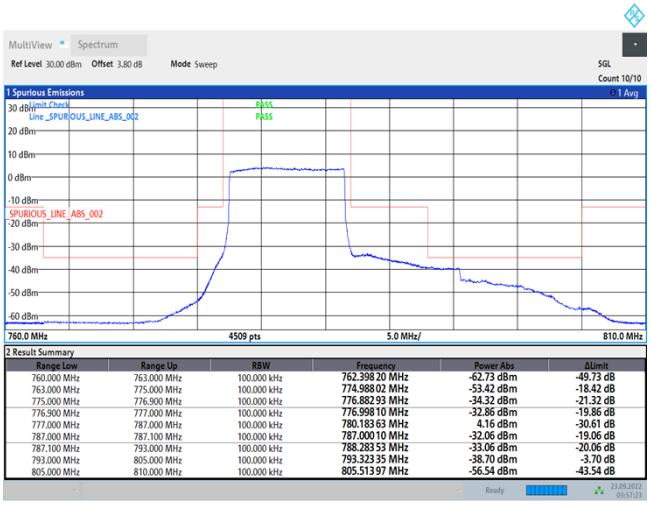
Band13-10MHz-QPSK-23230-50RB#0



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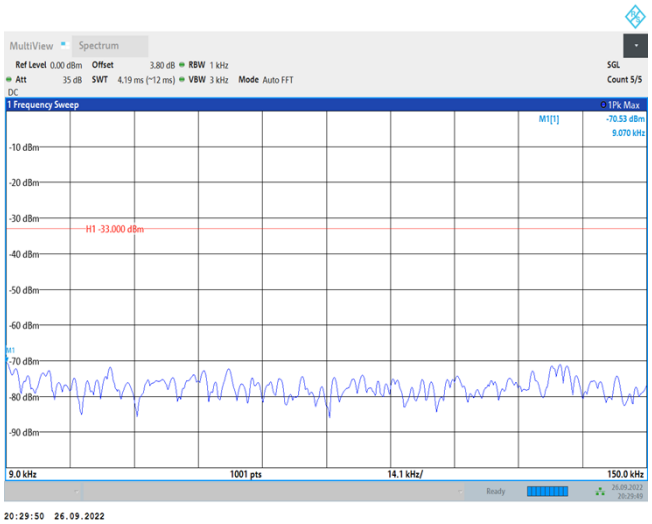
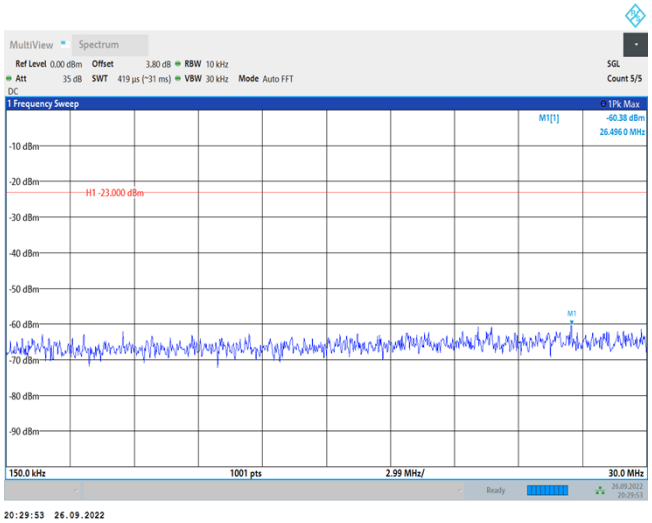
Conducted Spurious Emission

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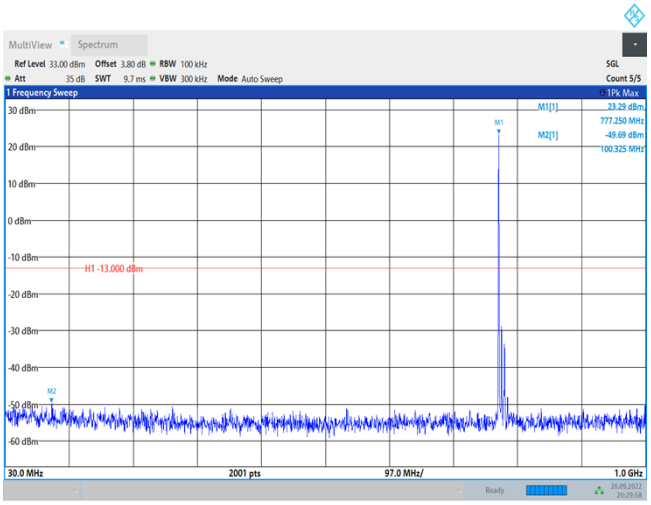
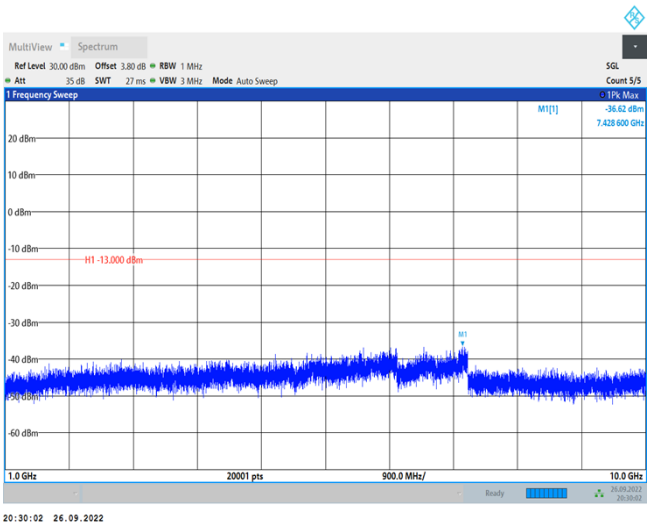
Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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]	Height [cm]	Angle [°]	Polarity
1	544.1300	52.22	-47.10	25.37	-64.77	-13.00	51.77	245	133	Horizontal
2	1555.1800	64.40	-48.30	25.41	-53.75	-13.00	40.75	186	188	Horizontal
3	2332.7700	53.61	-47.48	27.41	-61.73	-13.00	48.73	129	198	Horizontal
4	3110.3600	50.25	-46.70	29.53	-62.18	-13.00	49.18	147	359	Horizontal
5	3887.9500	48.90	-46.22	30.54	-62.04	-13.00	49.04	128	198	Horizontal
6	4665.5400	47.64	-45.80	31.91	-61.51	-13.00	48.51	138	93	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	52.75	-47.10	25.37	-64.24	-13.00	51.24	128	5	Vertical
2	1555.1800	63.87	-48.30	25.41	-54.28	-13.00	41.28	245	224	Vertical
3	2332.5714	62.03	-47.48	27.41	-53.31	-13.00	40.31	214	92	Vertical
4	3110.3600	50.51	-46.70	29.53	-61.92	-13.00	48.92	124	230	Vertical
5	3887.9500	49.92	-46.22	30.54	-61.02	-13.00	48.02	126	317	Vertical
6	4665.5400	47.35	-45.80	31.91	-61.80	-13.00	48.80	135	243	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	65.88	-48.30	25.41	-52.27	-13.00	39.27	211	0	Horizontal
2	2332.0200	54.01	-47.48	27.41	-61.33	-13.00	48.33	145	316	Horizontal
3	3109.3600	51.12	-46.71	29.53	-61.31	-13.00	48.31	168	335	Horizontal
4	3886.7000	48.74	-46.22	30.53	-62.21	-13.00	49.21	122	109	Horizontal
5	4664.0400	49.00	-45.80	31.91	-60.15	-13.00	47.15	136	276	Horizontal
6	5441.3800	49.27	-45.04	32.85	-58.19	-13.00	45.19	291	26	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	64.35	-48.30	25.41	-53.80	-13.00	40.80	254	117	Vertical
2	2332	60.32	-47.48	27.41	-55.02	-13.00	42.02	162	79	Vertical
3	3109.3600	49.83	-46.71	29.53	-62.60	-13.00	49.60	135	183	Vertical
4	3886.7000	50.12	-46.22	30.53	-60.83	-13.00	47.83	128	157	Vertical
5	4664.0400	47.97	-45.80	31.91	-61.18	-13.00	48.18	196	294	Vertical
6	5441.3800	47.90	-45.04	32.85	-59.56	-13.00	46.56	145	356	Vertical

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Member of the SGS Group (SGS SA)

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	1564.5714	58.03	-48.29	25.40	-60.13	-40.00	20.13	215	1	Horizontal
2	2339.5200	50.96	-47.48	27.41	-64.37	-13.00	51.37	142	12	Horizontal
3	3119.3600	50.29	-46.66	29.55	-62.08	-13.00	49.08	136	96	Horizontal
4	3899.2000	49.18	-46.23	30.56	-61.75	-13.00	48.75	256	176	Horizontal
5	4679.0400	47.88	-45.80	31.95	-61.23	-13.00	48.23	261	356	Horizontal
6	5458.8800	48.18	-45.07	32.87	-59.29	-13.00	46.29	192	96	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	58.16	-48.29	25.40	-60.00	-40.00	20.00	215	105	Vertical
2	2339.5200	50.84	-47.48	27.41	-64.49	-13.00	51.49	149	254	Vertical
3	3119.3600	50.83	-46.66	29.55	-61.54	-13.00	48.54	135	120	Vertical
4	3899.2000	48.79	-46.23	30.56	-62.14	-13.00	49.14	126	184	Vertical
5	4679.0400	48.40	-45.80	31.95	-60.71	-13.00	47.71	133	317	Vertical
6	5458.8800	47.49	-45.07	32.87	-59.98	-13.00	46.98	126	43	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	60.00	-48.29	25.40	-58.16	-40.00	18.16	211	188	Horizontal
2	2347.0200	51.67	-47.48	27.41	-63.65	-13.00	50.65	185	10	Horizontal
3	3129.3600	51.49	-46.61	29.56	-60.82	-13.00	47.82	145	334	Horizontal
4	3911.7000	48.35	-46.23	30.59	-62.54	-13.00	49.54	169	0	Horizontal
5	4694.0400	47.33	-45.80	32.00	-61.73	-13.00	48.73	192	186	Horizontal
6	5476.3800	47.88	-45.10	32.88	-59.60	-13.00	46.60	148	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	1564.6800	56.78	-48.29	25.40	-61.38	-40.00	21.38	222	13	Vertical
2	2347.0200	53.51	-47.48	27.41	-61.81	-13.00	48.81	184	4	Vertical
3	3129.3600	51.97	-46.61	29.56	-60.34	-13.00	47.34	195	358	Vertical
4	3911.7000	48.79	-46.23	30.59	-62.10	-13.00	49.10	176	158	Vertical
5	4694.0400	47.94	-45.80	32.00	-61.12	-13.00	48.12	142	135	Vertical
6	5476.3800	48.47	-45.10	32.88	-59.01	-13.00	46.01	133	67	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	-1.20	-0.001535	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	0.70	0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-3.40	-0.004348	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-4.00	-0.005115	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.80	-0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	0.40	0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.50	-0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-3.40	-0.004348	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	2.10	0.002685	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-3.10	-0.003964	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-8.10	-0.010358	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-2.60	-0.003325	PASS

|MAX(Δf)| = 8.1Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
f_L – |MAX(Δf)|	777.562354	≧ 777 MHz	PASS
f_H + |MAX(Δf)|	786.456982	≦ 787MHz	

---End of Attachment---

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