Appendix B.7

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	23.31	22.61	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.37	22.67	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.3	22.6	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.5	21.8	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.32	22.62	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.29	22.59	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.29	22.59	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.35	21.65	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.28	22.58	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.2	22.5	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.22	22.52	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.33	21.63	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.66	21.96	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.53	21.83	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.62	21.92	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.53	20.83	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.68	21.98	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.58	21.88	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.46	21.76	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.33	20.63	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.43	21.73	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.52	21.82	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.46	21.76	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.41	20.71	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.21	20.51	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.65	20.95	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.65	20.95	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.51	19.81	34.77	PASS

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Band13	5MHz	64QAM	23230	1RB#0	21.53	20.83	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.41	20.71	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.52	20.82	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.38	19.68	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.46	20.76	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.67	20.97	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.59	20.89	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.39	19.69	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.47	22.77	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.27	22.57	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.26	22.56	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.35	21.65	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.82	22.12	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.57	21.87	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.47	21.77	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.42	20.72	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.74	21.04	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.41	20.71	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.56	20.86	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.38	19.68	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	5.06	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.72	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.44	13	PASS

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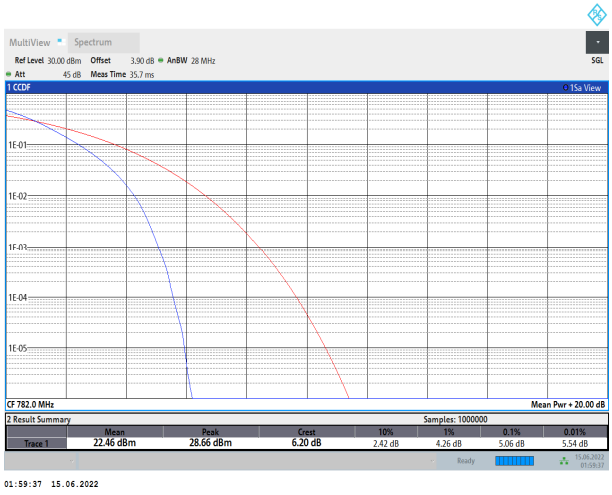
Test Graphs

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



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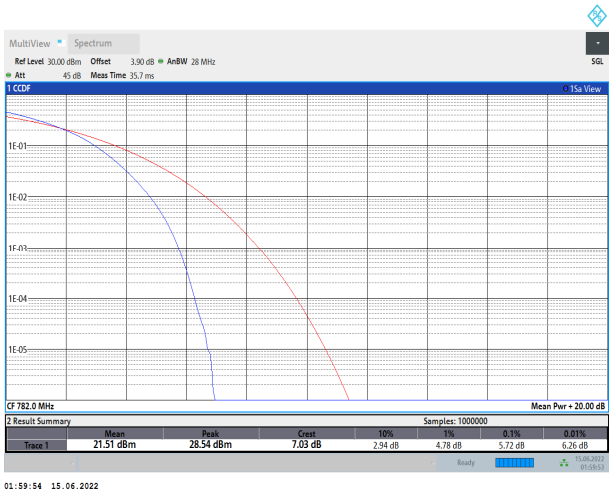

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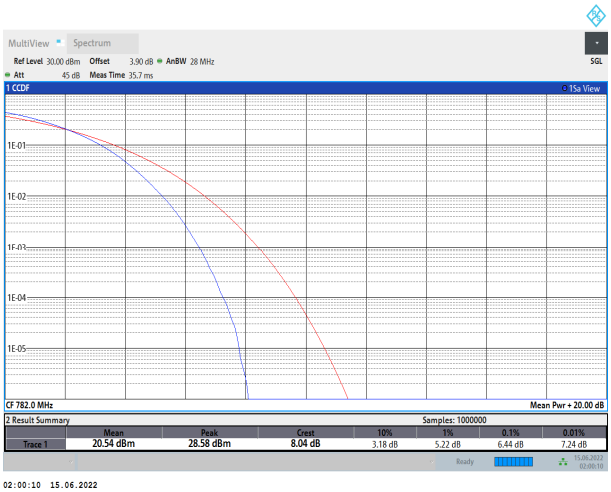
Band13-10MHz-64QAM-23230-50RB#0


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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
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS

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Test Graphs

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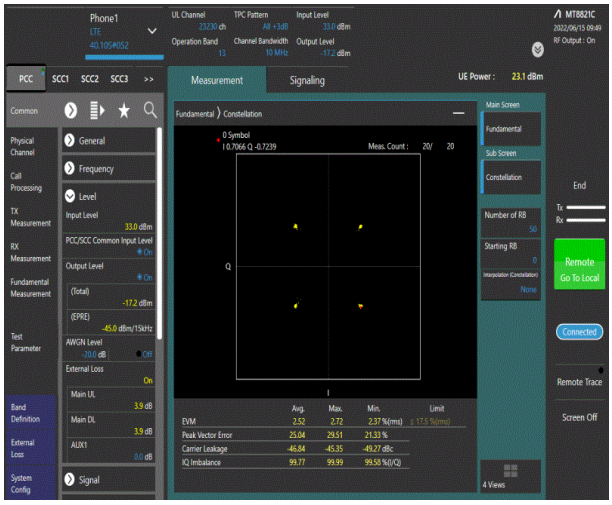

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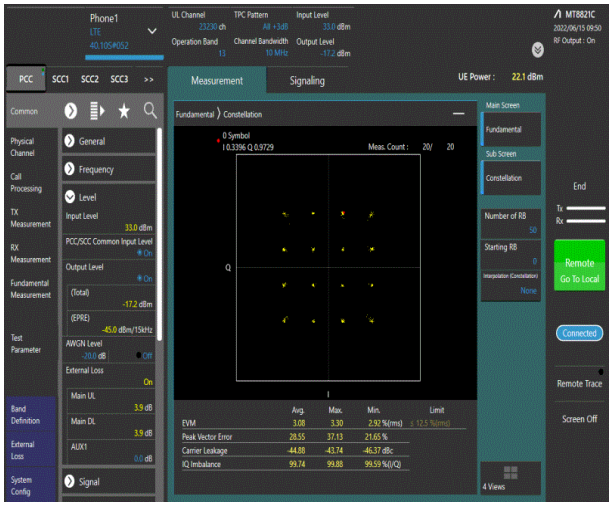

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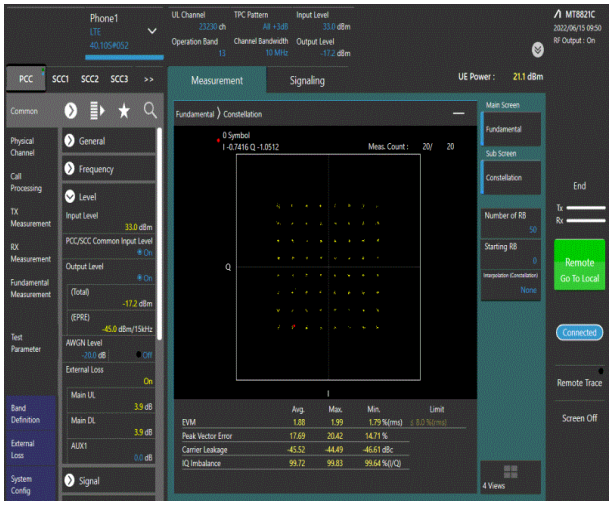

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.462	4.86	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.468	4.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.472	4.89	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.466	4.88	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.466	4.91	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.470	4.91	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.473	4.87	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.476	4.87	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.479	4.91	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.915	9.64	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.890	9.60	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.900	9.58	PASS

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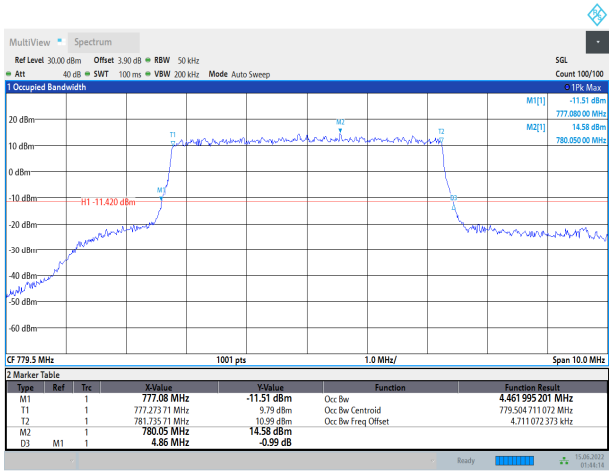
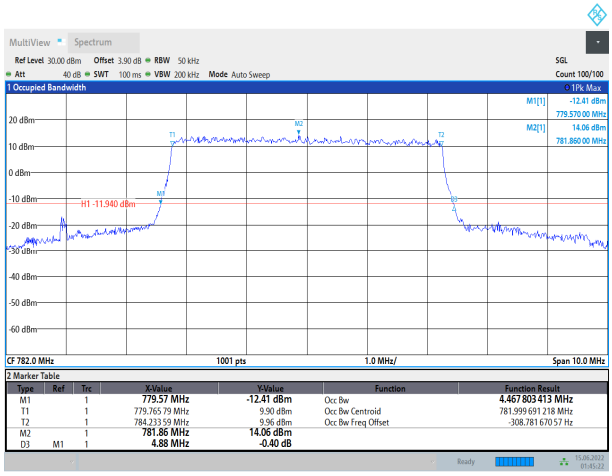
Test Graphs

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



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



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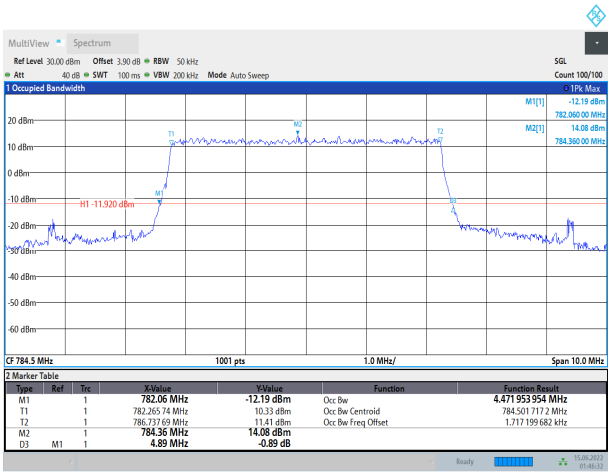
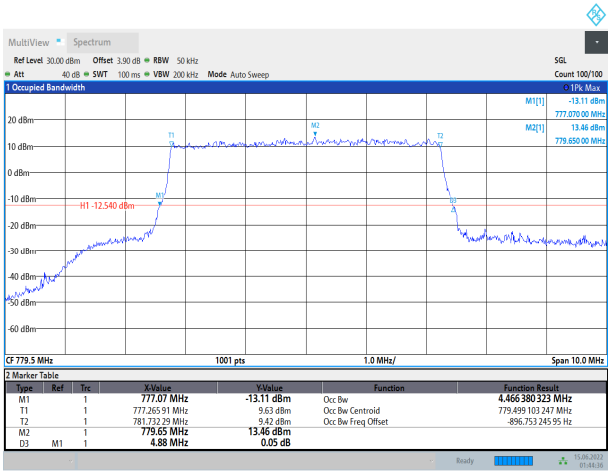
Band13-5MHz-QPSK-23255-25RB#0



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



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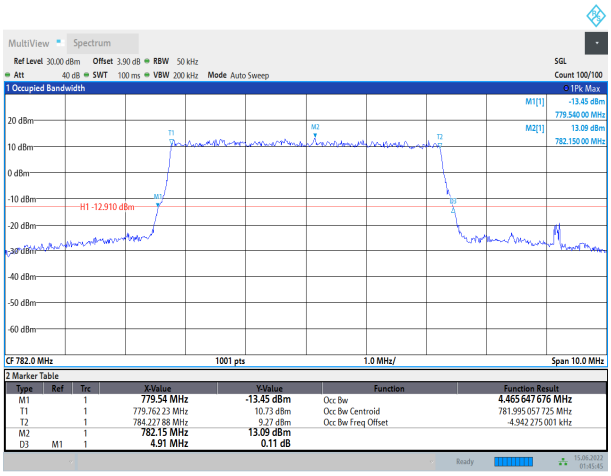
Band13-5MHz-16QAM-23230-25RB#0



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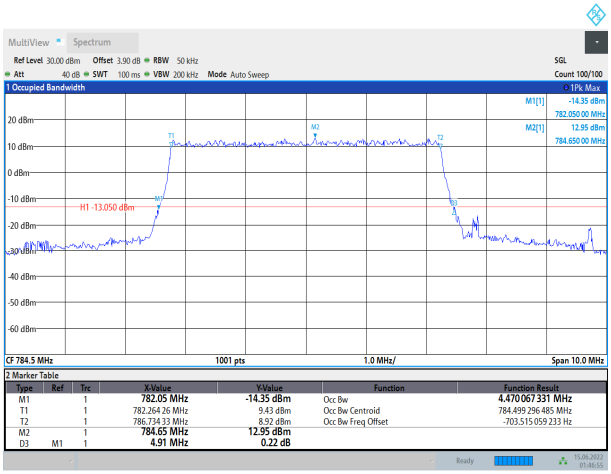
Band13-5MHz-16QAM-23255-25RB#0



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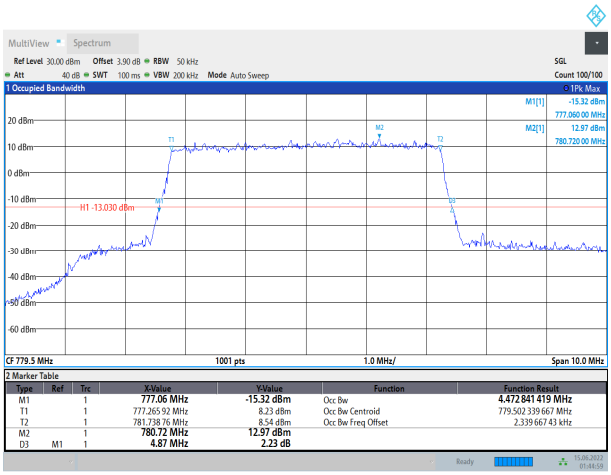
Band13-5MHz-64QAM-23205-25RB#0



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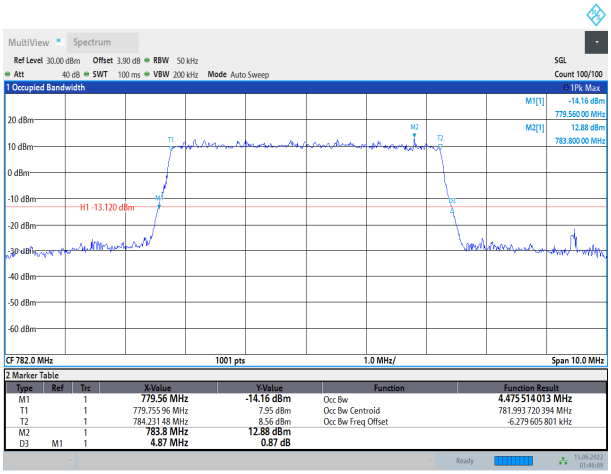

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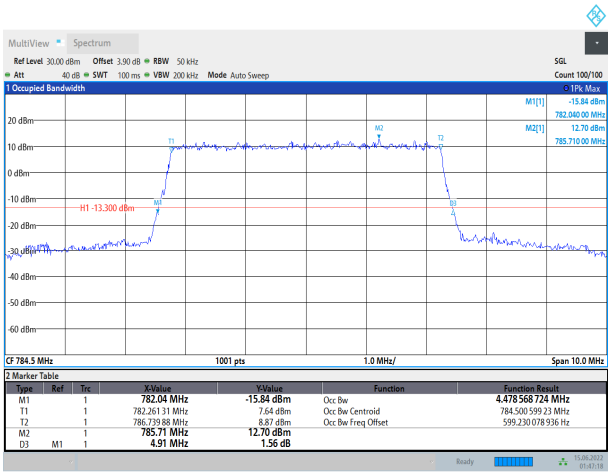
Band13-5MHz-64QAM-23255-25RB#0



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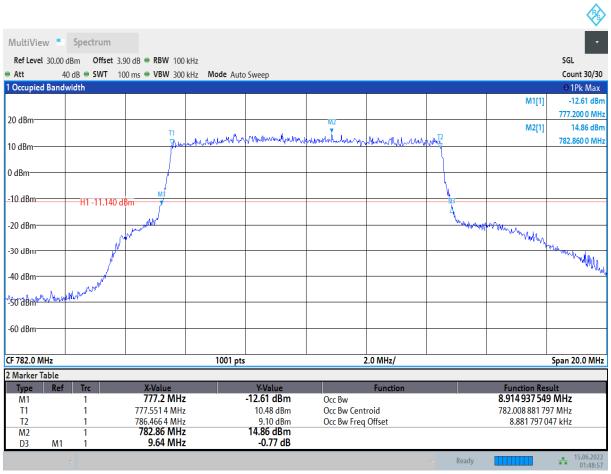
Band13-10MHz-QPSK-23230-50RB#0



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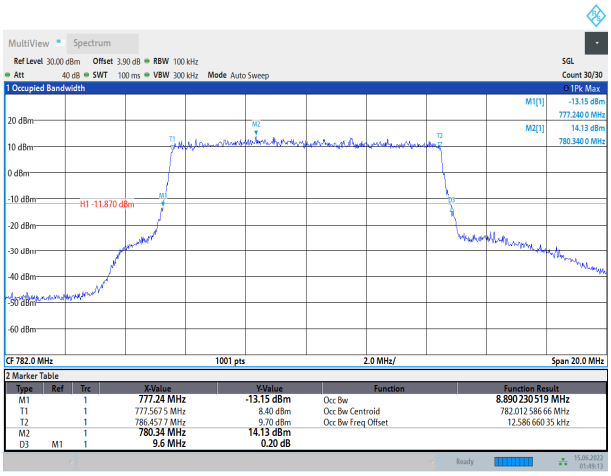
Band13-10MHz-16QAM-23230-50RB#0



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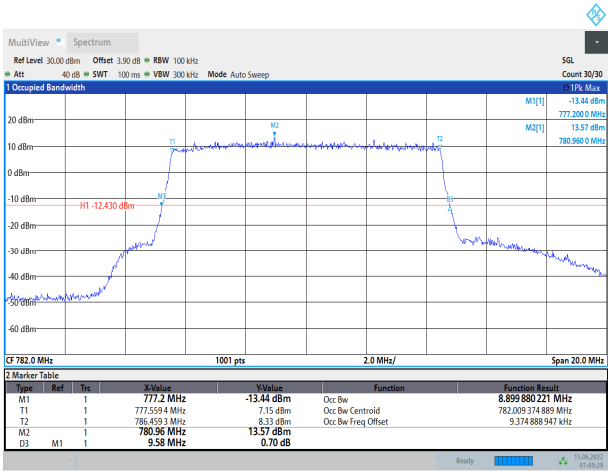
Band13-10MHz-64QAM-23230-50RB#0



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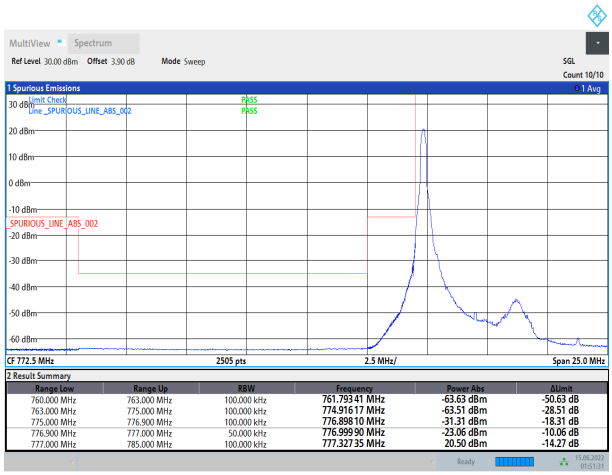
Band Edge

Test Graphs

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



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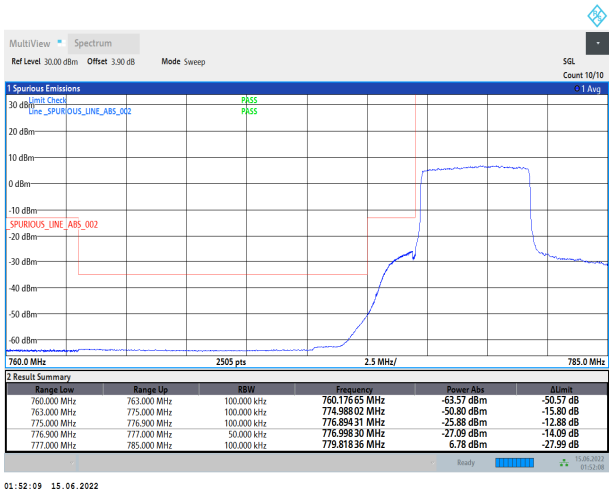

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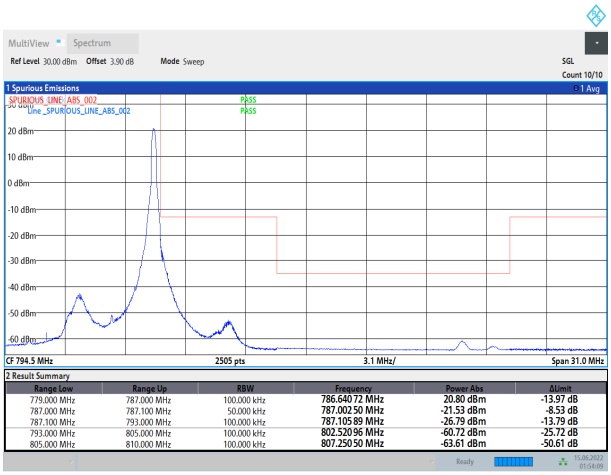
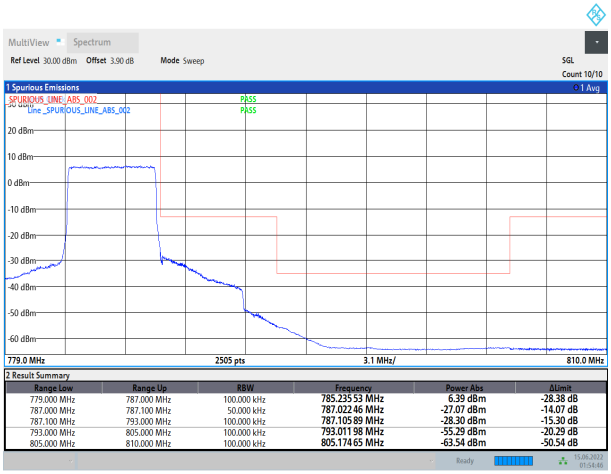
Band13-5MHz-QPSK-23255-1RB#24



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
779.000 MHz	787.000 MHz	100.000 kHz	786.640 72 MHz	20.80 dBm	-13.97 dB
787.000 MHz	787.100 MHz	50.000 kHz	787.002 50 MHz	-21.53 dBm	-8.53 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.105 89 MHz	-26.79 dBm	-13.79 dB
793.000 MHz	805.000 MHz	100.000 kHz	802.520 96 MHz	-60.72 dBm	-25.72 dB
805.000 MHz	810.000 MHz	100.000 kHz	807.250 50 MHz	-63.61 dBm	-50.61 dB

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



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
779.000 MHz	787.000 MHz	100.000 kHz	785.235 53 MHz	6.39 dBm	-28.38 dB
787.000 MHz	787.100 MHz	50.000 kHz	787.022 46 MHz	-27.07 dBm	-14.07 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.105 89 MHz	-28.30 dBm	-15.30 dB
793.000 MHz	805.000 MHz	100.000 kHz	793.011 98 MHz	-55.29 dBm	-20.29 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.174 65 MHz	-63.54 dBm	-50.54 dB

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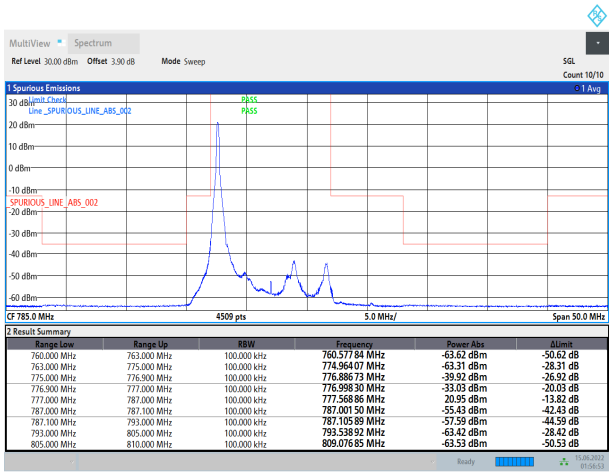
Band13-10MHz-QPSK-23230-1RB#0



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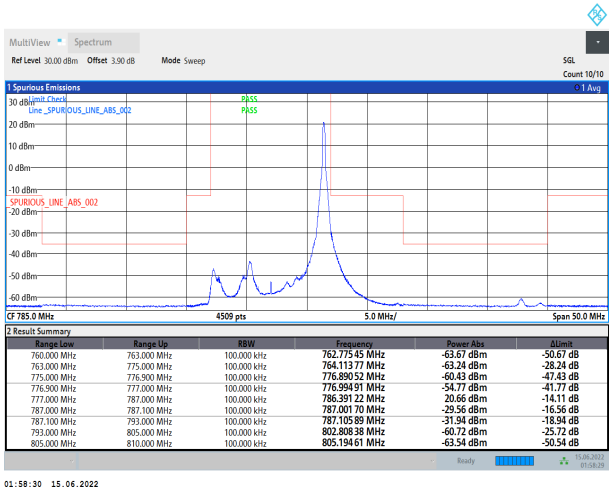

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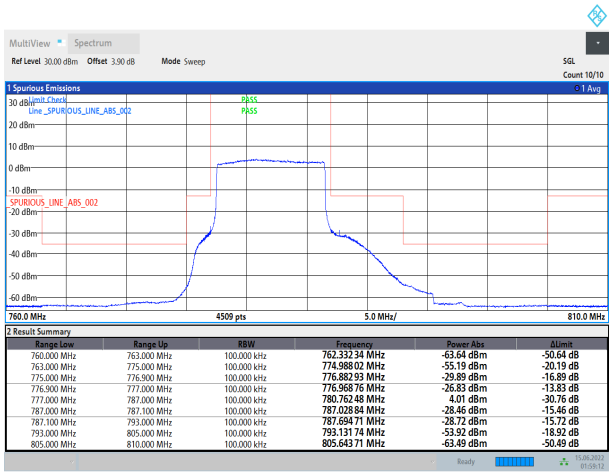

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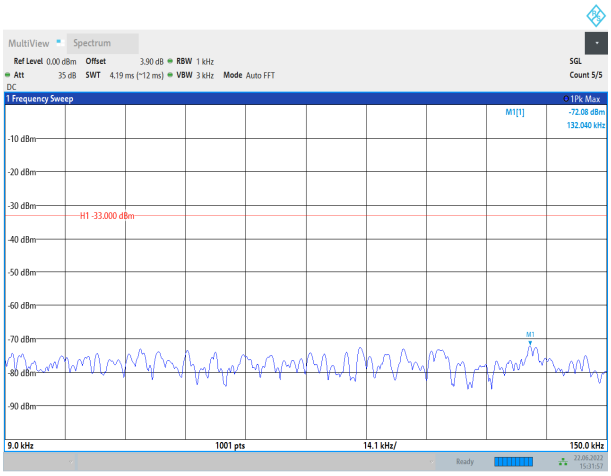
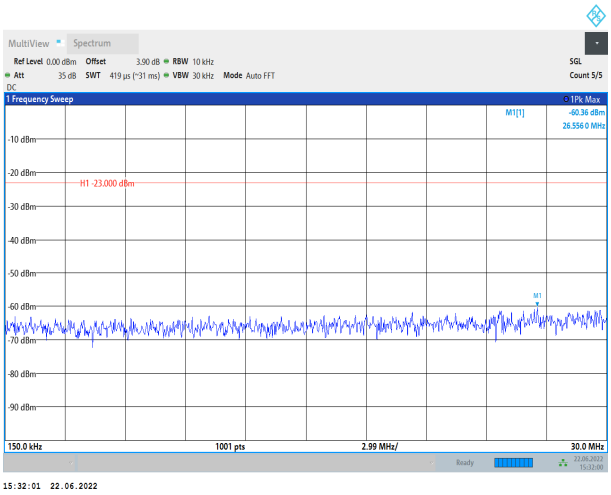
Conducted Spurious Emission

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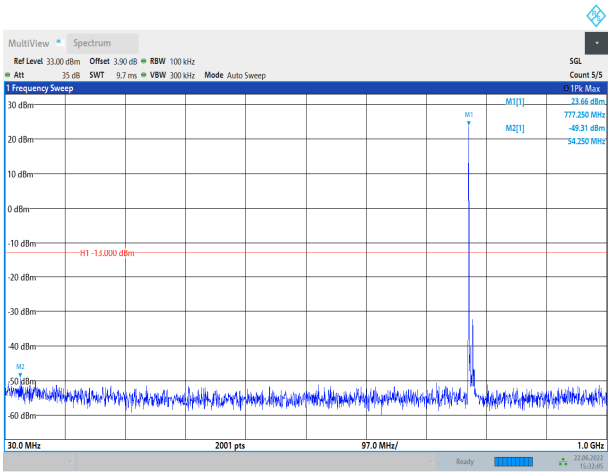
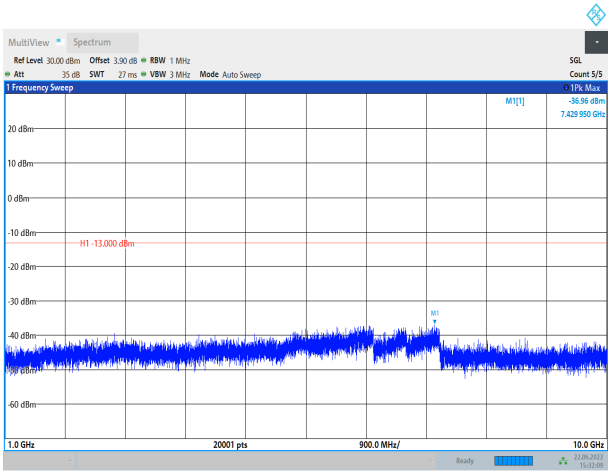
Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 13_10M_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.18	62.13	-118.2	-56.08	-13.00	43.08	263	208	Horizontal
2	2332.77	60.72	-115.3	-54.59	-13.00	41.59	241	145	Horizontal
3	3110.36	51.13	-112.2	-61.08	-13.00	48.08	176	176	Horizontal
4	3887.95	50.83	-110.4	-59.64	-13.00	46.64	254	62	Horizontal
5	4665.54	50.11	-108.0	-57.93	-13.00	44.93	186	62	Horizontal
6	5443.13	52.65	-106.4	-53.84	-13.00	40.84	264	239	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.18	54.53	-118.2	-63.68	-13.00	50.68	163	31	Vertical
2	2432	65.52	-114.8	-49.29	-13.00	36.29	251	113	Vertical
3	3110.36	52.18	-112.2	-60.03	-13.00	47.03	175	300	Vertical
4	3887.95	52.47	-110.4	-58.00	-13.00	45.00	265	289	Vertical
5	4665.54	51.05	-108.0	-56.99	-13.00	43.99	185	8	Vertical
6	5443.13	52.54	-106.4	-53.95	-13.00	40.95	147	194	Vertical

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Member of the SGS Group (SGS SA)

Test Band = LTE Band 13_5M_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	58.65	-118.2	-59.56	-13.00	46.56	263	71	Horizontal
2	2332	62.39	-115.3	-52.92	-13.00	39.92	251	136	Horizontal
3	3109.36	51.72	-112.2	-60.50	-13.00	47.50	174	166	Horizontal
4	3886.7	51.18	-110.4	-59.29	-13.00	46.29	163	71	Horizontal
5	4664.04	50.05	-108.0	-57.99	-13.00	44.99	254	156	Horizontal
6	5441.38	51.48	-106.4	-55.01	-13.00	42.01	147	187	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	53.35	-118.2	-64.86	-13.00	51.86	263	18	Vertical
2	2332.02	52.49	-115.3	-62.82	-13.00	49.82	251	174	Vertical
3	3109.36	51.95	-112.2	-60.27	-13.00	47.27	176	34	Vertical
4	3886.7	49.63	-110.4	-60.84	-13.00	47.84	241	298	Vertical
5	4664.04	50.01	-108.0	-58.03	-13.00	45.03	177	89	Vertical
6	5441.38	51.72	-106.4	-54.77	-13.00	41.77	181	236	Vertical

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Test Band = LTE Band 13_5M_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	60.75	-118.2	-57.46	-40.00	17.46	263	61	Horizontal
2	2339.52	63.82	-115.2	-51.47	-13.00	38.47	251	135	Horizontal
3	3119.36	51.80	-112.1	-60.39	-13.00	47.39	176	213	Horizontal
4	3899.2	50.54	-110.4	-59.89	-13.00	46.89	251	197	Horizontal
5	4679.04	50.57	-107.9	-57.42	-13.00	44.42	177	360	Horizontal
6	5458.88	51.55	-106.4	-54.93	-13.00	41.93	185	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	55.42	-118.2	-62.79	-40.00	22.79	263	174	Vertical
2	2339.52	54.07	-115.2	-61.22	-13.00	48.22	251	268	Vertical
3	3119.36	52.58	-112.1	-59.61	-13.00	46.61	176	20	Vertical
4	3899.2	50.45	-110.4	-59.98	-13.00	46.98	245	122	Vertical
5	4679.04	50.12	-107.9	-57.87	-13.00	44.87	178	122	Vertical
6	5458.88	51.49	-106.4	-54.99	-13.00	41.99	264	92	Vertical

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Test Band = LTE Band 13_5M_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564	62.86	-118.2	-55.35	-40.00	15.35	264	200	Horizontal
2	2347.02	65.32	-115.2	-49.95	-13.00	36.95	251	144	Horizontal
3	3129.36	51.32	-112.1	-60.85	-13.00	47.85	176	71	Horizontal
4	3911.7	51.02	-110.4	-59.38	-13.00	46.38	241	30	Horizontal
5	4694.04	50.26	-107.9	-57.68	-13.00	44.68	126	311	Horizontal
6	5476.38	51.39	-106.4	-55.07	-13.00	42.07	264	289	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564	57.42	-118.2	-60.79	-40.00	20.79	211	236	Vertical
2	2347.02	55.79	-115.2	-59.48	-13.00	46.48	222	124	Vertical
3	3129.36	52.00	-112.1	-60.17	-13.00	47.17	143	72	Vertical
4	3911.7	50.69	-110.4	-59.71	-13.00	46.71	241	85	Vertical
5	4694.04	49.92	-107.9	-58.02	-13.00	45.02	119	65	Vertical
6	5476.38	52.04	-106.4	-54.42	-13.00	41.42	264	133	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	0.50	0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	0.00	0.000000	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-3.70	-0.004731	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-1.70	-0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.50	-0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	0.90	0.001151	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	0.30	0.000384	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.20	0.001535	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	1.10	0.001407	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-3.30	-0.004220	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.00	0.000000	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-3.20	-0.004092	PASS

---End of Attachment---

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