Appendix B.3

LTE Band 5

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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
Band5	1.4MHz	QPSK	20407	1RB#0	23.4	24.25	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.42	24.27	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.22	24.07	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.51	23.36	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.41	24.26	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.5	24.35	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.36	24.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.61	23.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.25	24.1	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.19	24.04	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.98	23.83	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.28	23.13	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.41	23.26	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.33	23.18	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.36	23.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.58	22.43	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.5	23.35	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.79	23.64	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.46	23.31	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.66	22.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.51	23.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.49	23.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.07	22.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.26	22.11	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.3	24.15	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.63	24.48	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.55	24.4	38.45	PASS

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Band5	3MHz	QPSK	20415	15RB#0	22.57	23.42	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.46	24.31	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.53	24.38	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.42	24.27	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.57	23.42	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.64	24.49	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.52	24.37	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.2	24.05	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.41	23.26	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.43	23.28	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.26	23.11	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.55	23.4	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.48	22.33	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.48	23.33	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.8	23.65	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.5	23.35	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.55	22.4	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.6	23.45	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.05	22.9	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.25	23.1	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.33	22.18	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.35	24.2	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.58	24.43	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.38	24.23	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.62	23.47	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.48	24.33	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.64	24.49	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.35	24.2	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.63	23.48	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.46	24.31	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.5	24.35	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.06	23.91	38.45	PASS

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Band5	5MHz	QPSK	20625	25RB#0	22.46	23.31	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.36	23.21	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.48	23.33	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.37	23.22	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.53	22.38	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.26	23.11	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.47	23.32	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.4	23.25	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.62	22.47	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.21	23.06	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.36	23.21	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.04	22.89	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.66	22.51	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.3	24.15	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.88	24.73	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.47	24.32	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.64	23.49	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.37	24.22	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.75	24.6	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.42	24.27	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.68	23.53	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.38	24.23	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.66	24.51	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.2	24.05	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.47	23.32	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.34	23.19	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.17	24.02	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.36	23.21	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.67	22.52	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.31	23.16	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.11	23.96	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.28	23.13	38.45	PASS

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

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Band5	10MHz	16QAM	20525	50RB#0	21.65	22.5	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.42	23.27	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.9	23.75	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.17	23.02	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.36	22.21	38.45	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.40	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.34	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.18	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.16	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.98	13	PASS

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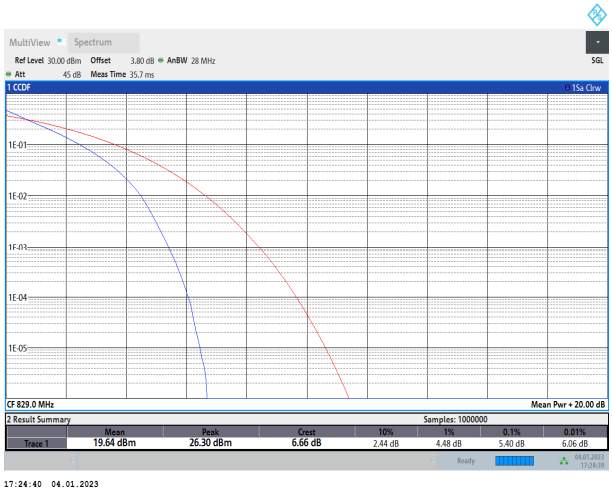
Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



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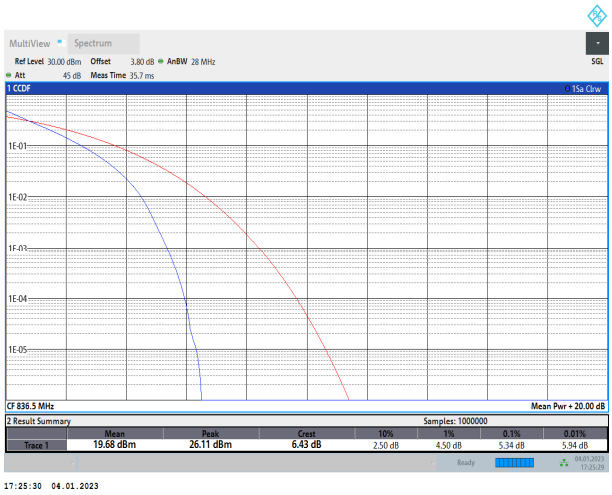

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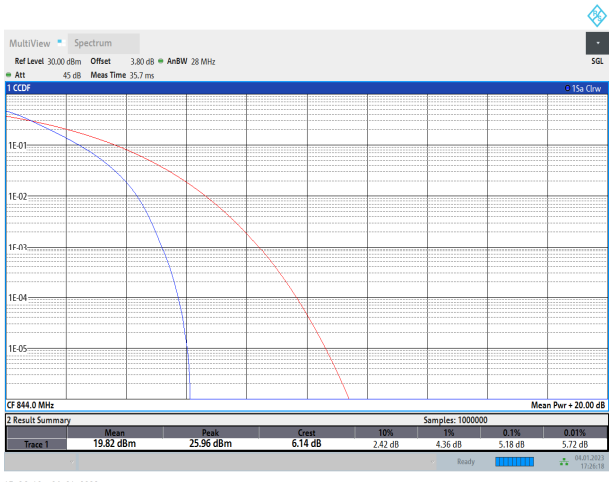
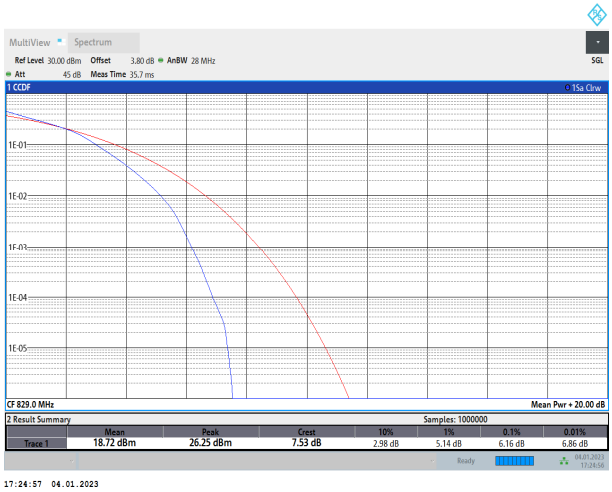
Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



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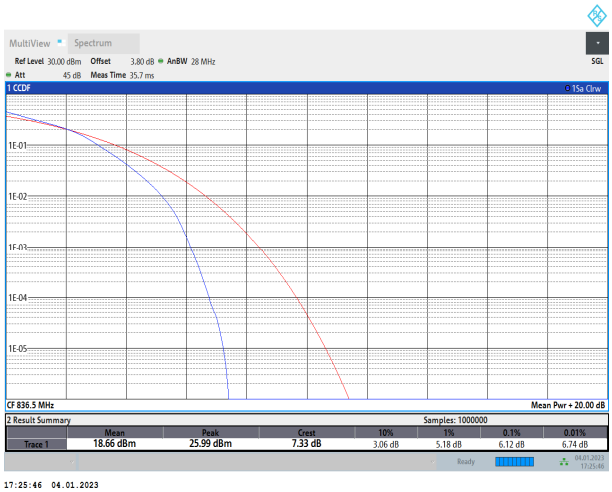
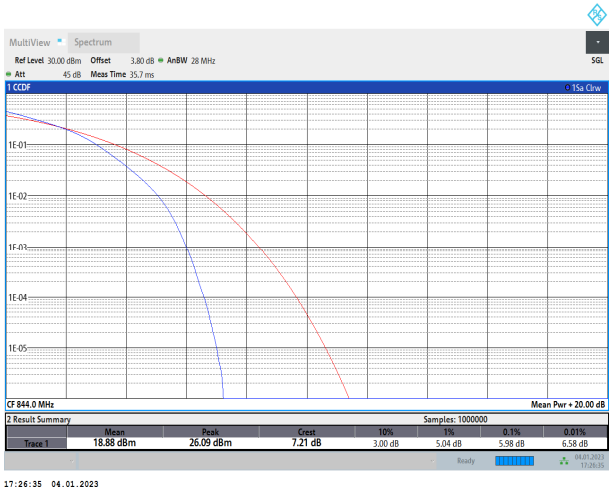
Member of the SGS Group (SGS SA)

Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS

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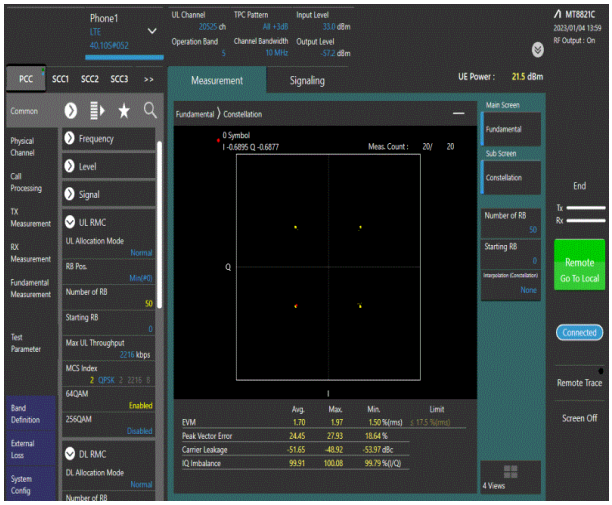
Test Graphs

Band5-10MHz-QPSK-20525-50RB#0

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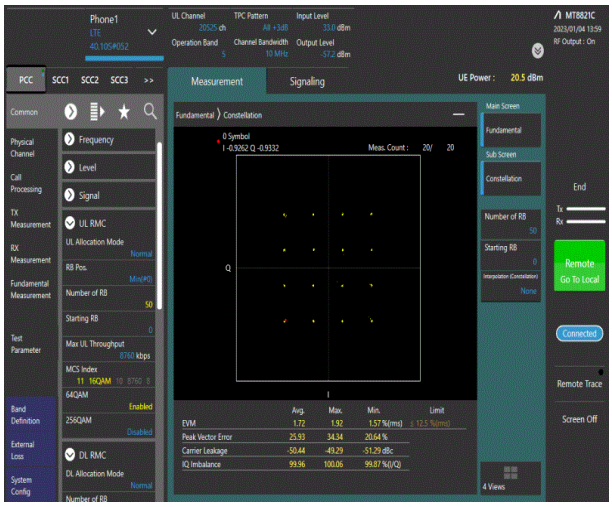

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.086	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.086	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.086	1.28	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.096	1.29	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.096	1.30	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.694	2.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.696	2.95	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.688	2.98	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.689	2.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.686	2.98	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.689	2.96	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.461	4.88	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.87	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.458	4.87	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.461	4.92	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.462	4.93	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.46	4.89	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.921	9.64	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.918	9.64	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.906	9.72	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.909	9.66	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.898	9.64	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.884	9.64	PASS

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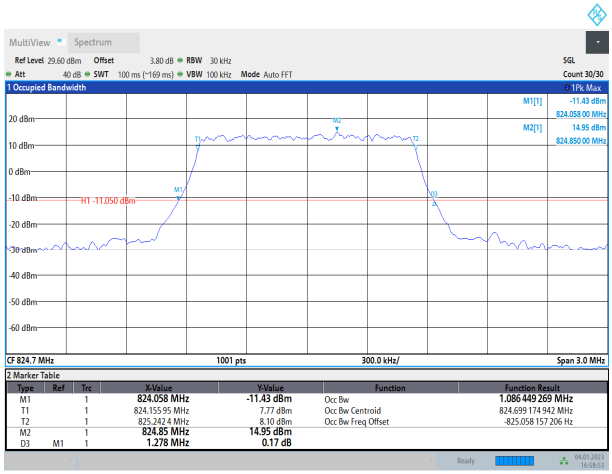
Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



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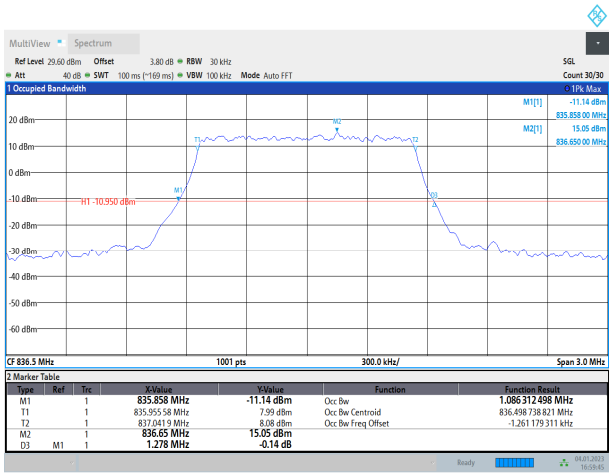

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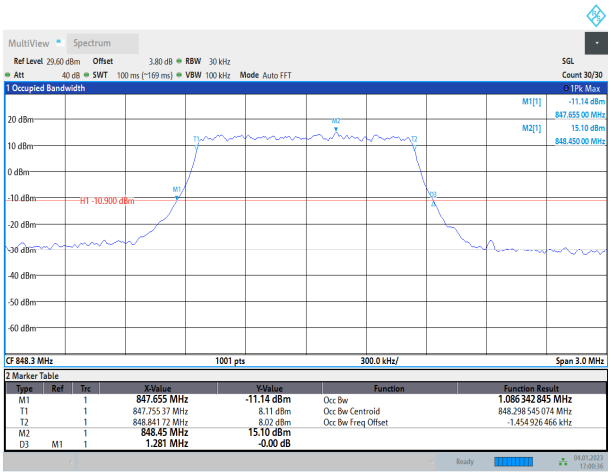
Band5-1.4MHz-QPSK-20643-6RB#0



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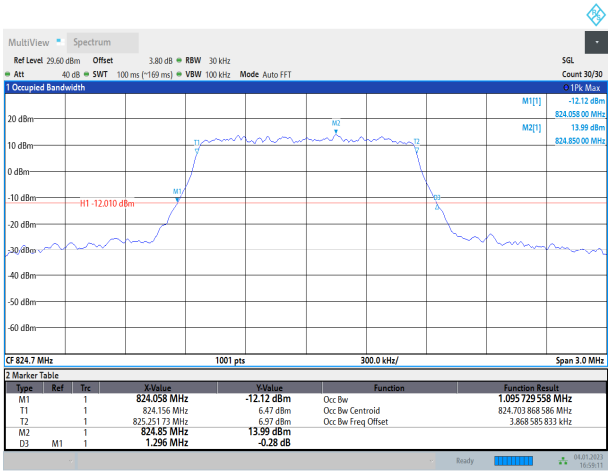

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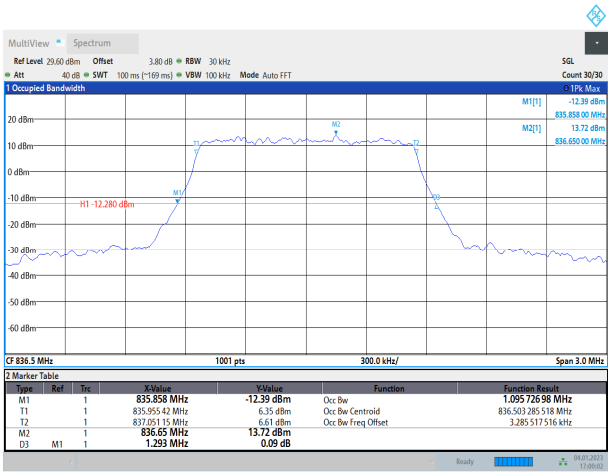
Band5-1.4MHz-16QAM-20525-6RB#0



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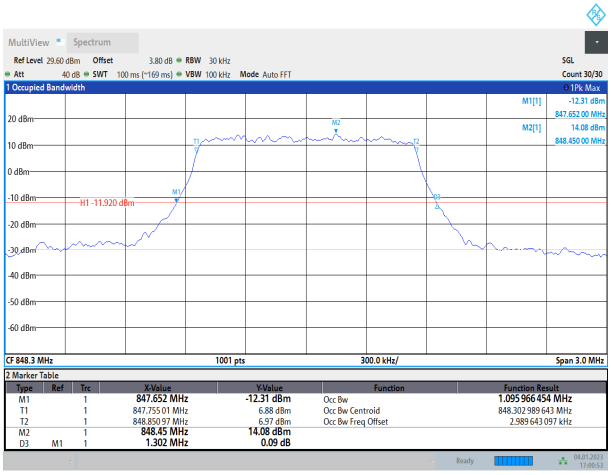

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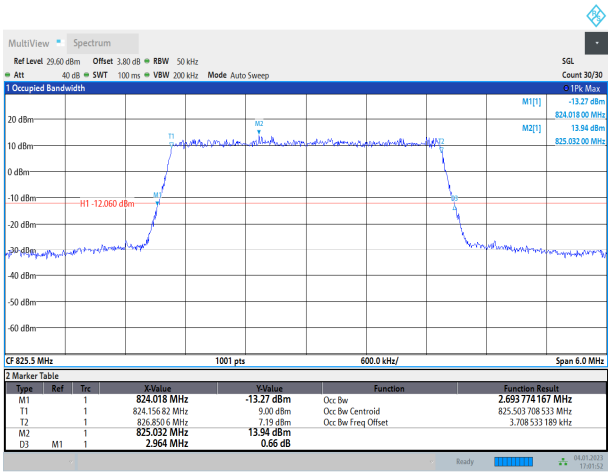
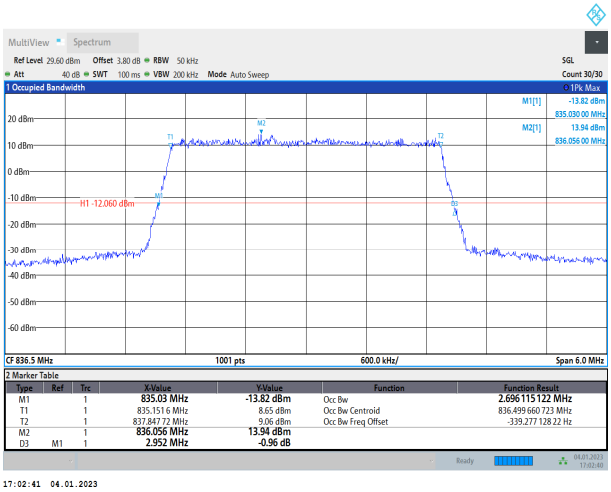
Band5-3MHz-QPSK-20415-15RB#0



Band5-3MHz-QPSK-20525-15RB#0



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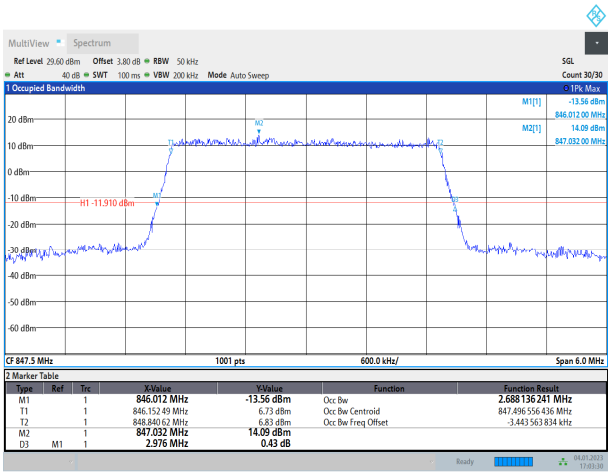
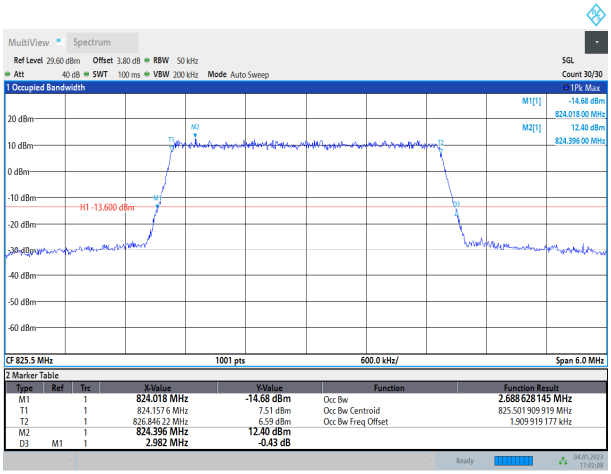
Band5-3MHz-QPSK-20635-15RB#0



Band5-3MHz-16QAM-20415-15RB#0



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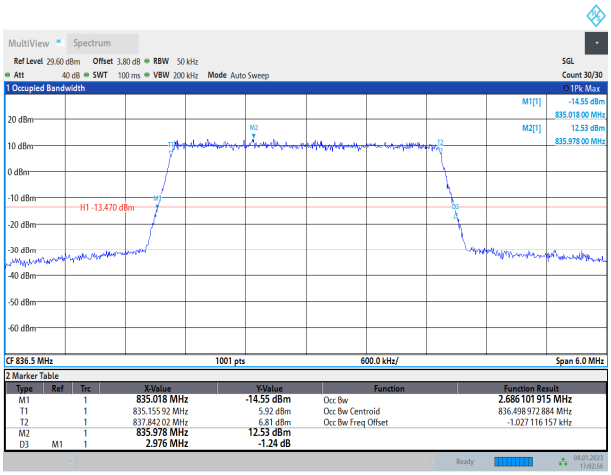
Band5-3MHz-16QAM-20525-15RB#0



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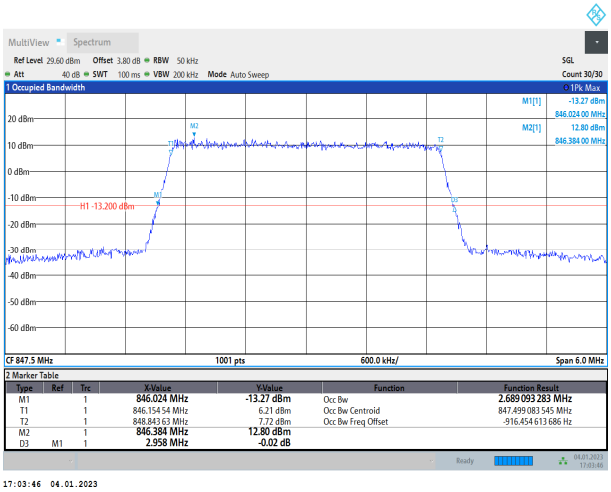

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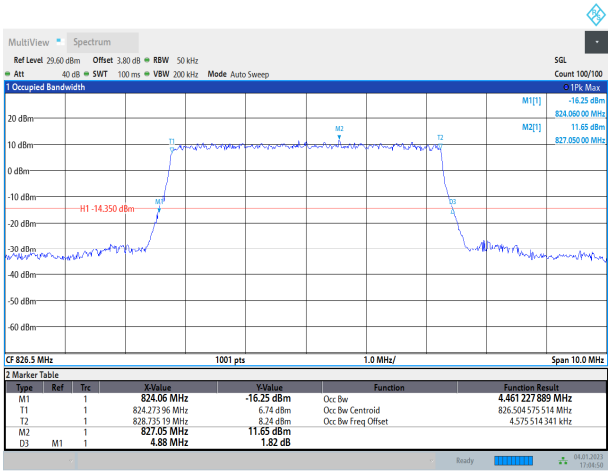
Band5-5MHz-QPSK-20425-25RB#0



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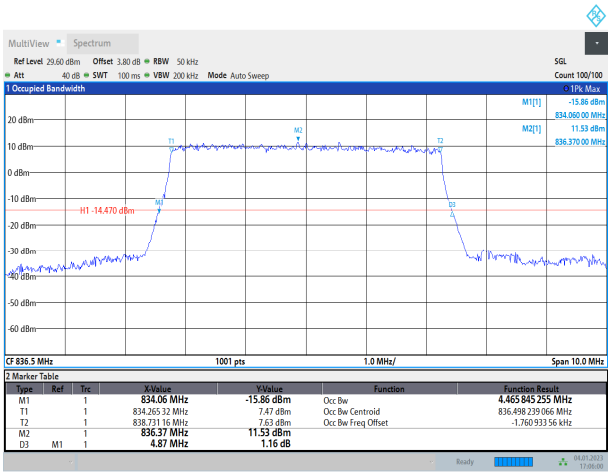

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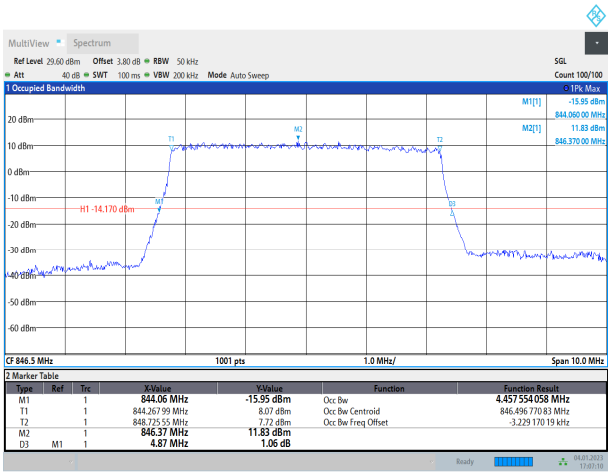

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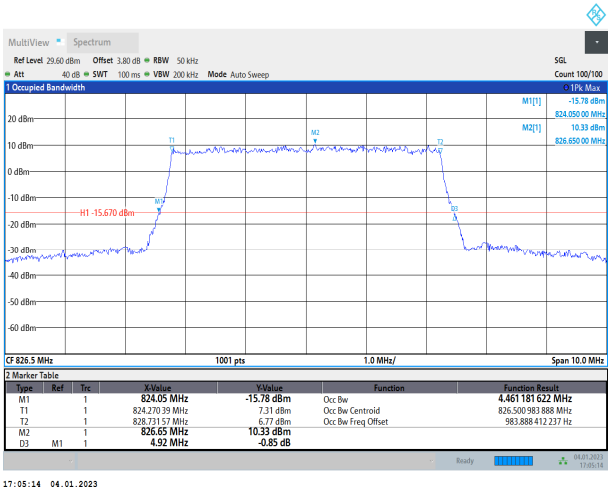

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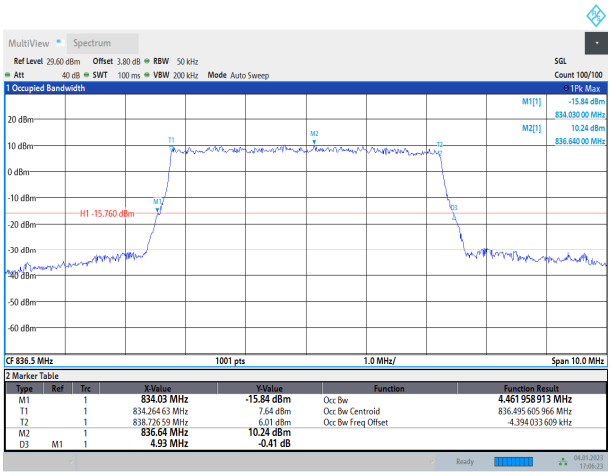

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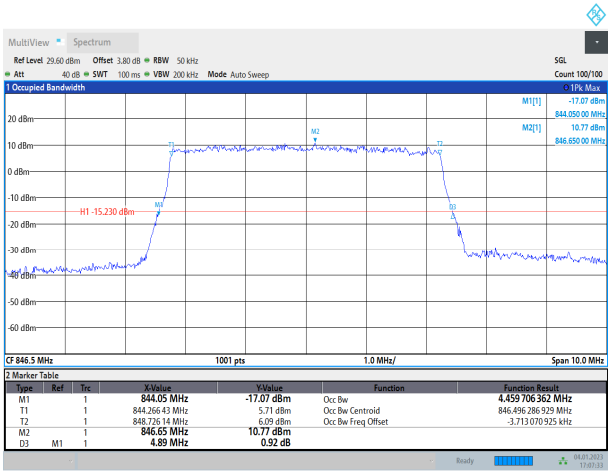

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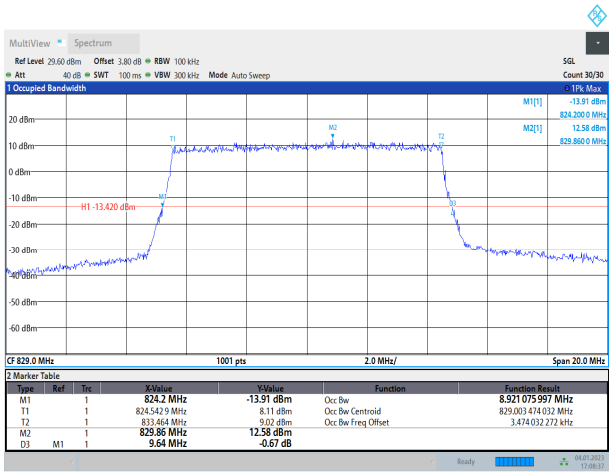
Band5-10MHz-QPSK-20450-50RB#0



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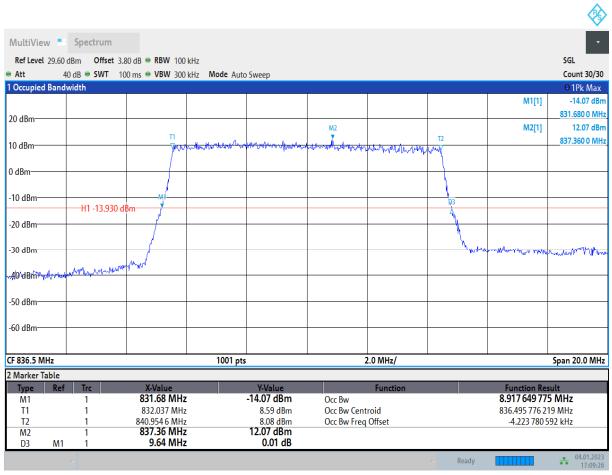

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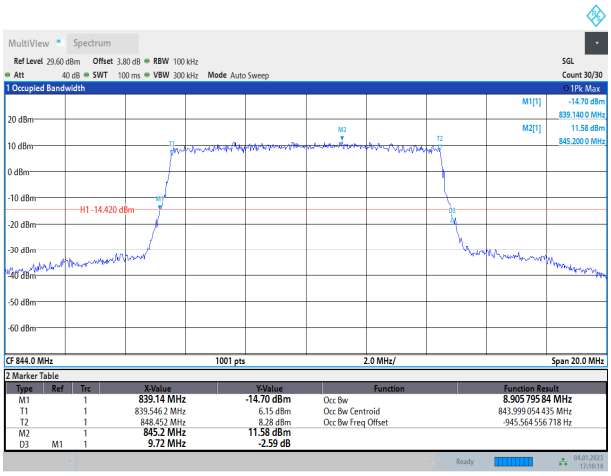
Band5-10MHz-QPSK-20600-50RB#0



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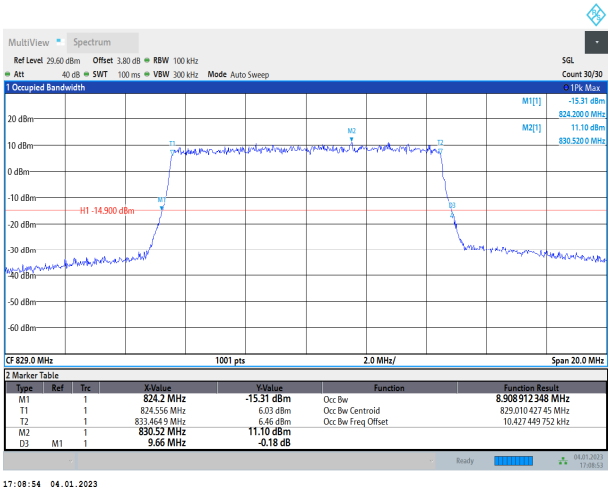

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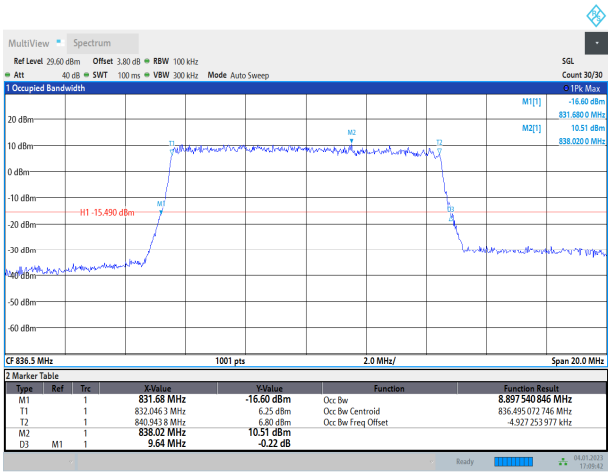
Band5-10MHz-16QAM-20525-50RB#0



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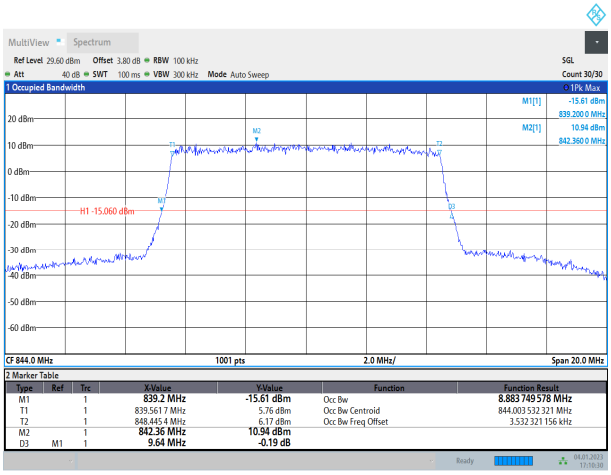

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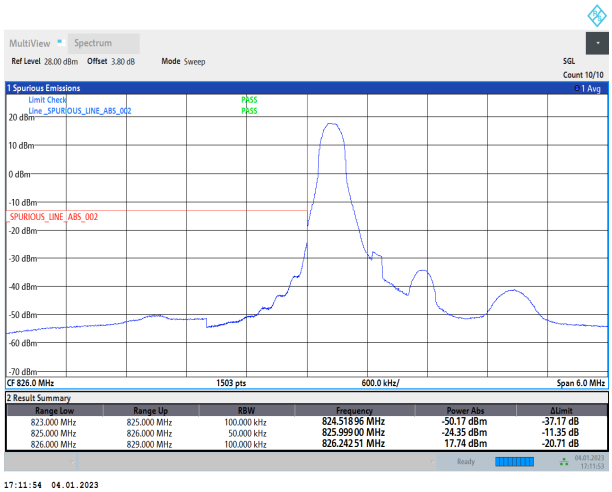
Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



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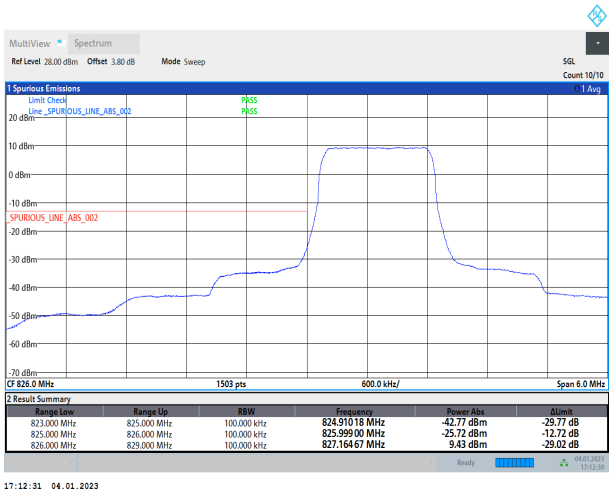

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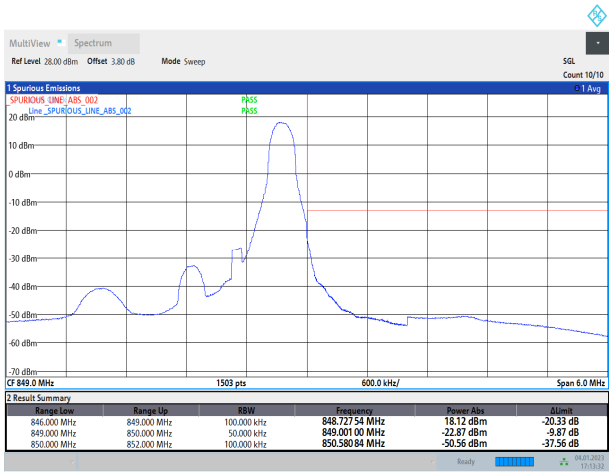
Band5-1.4MHz-QPSK-20643-1RB#5



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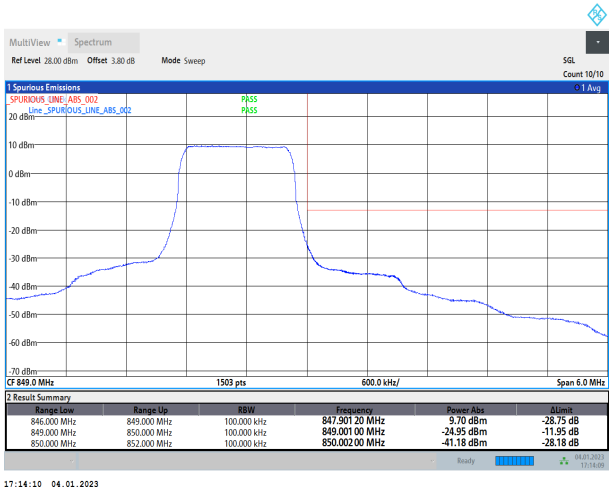

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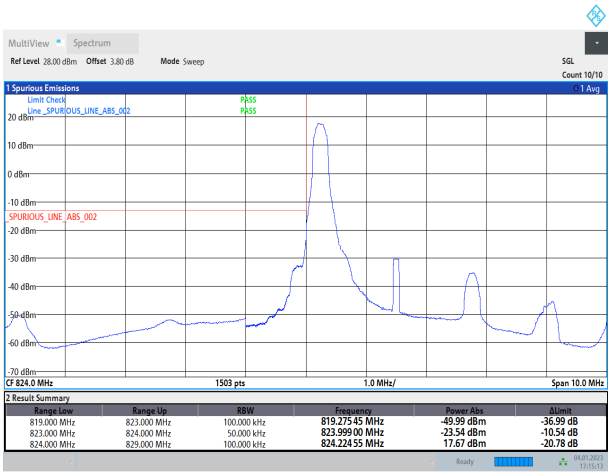
Band5-3MHz-QPSK-20415-1RB#0



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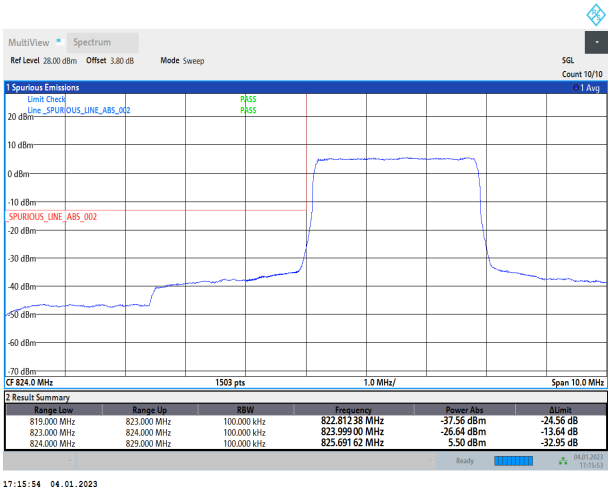

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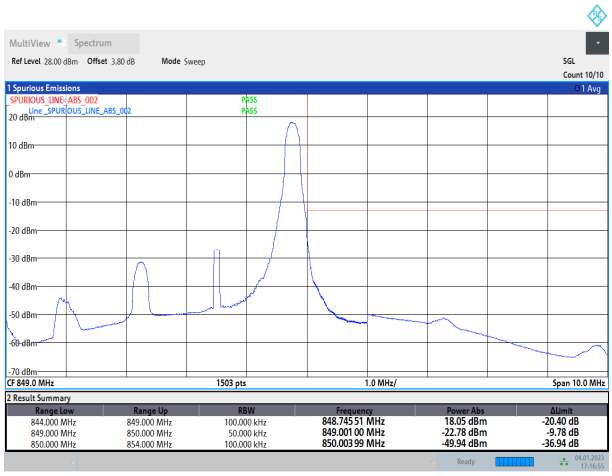
Band5-3MHz-QPSK-20635-1RB#14



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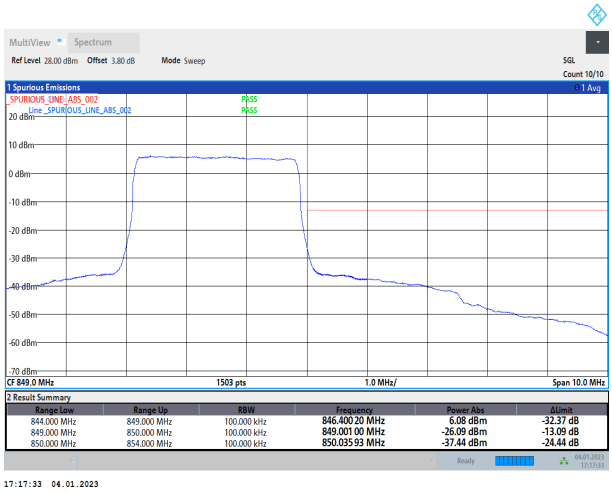

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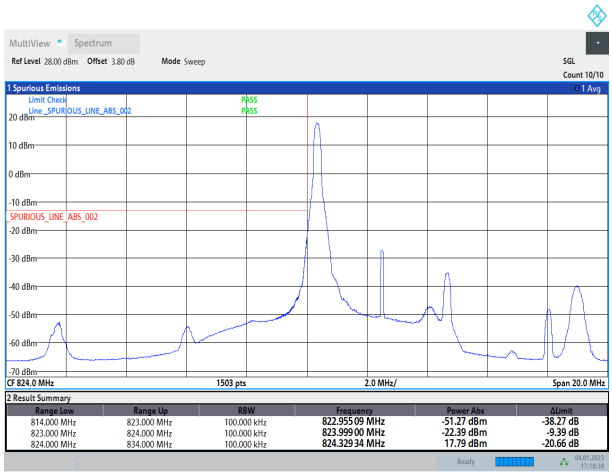
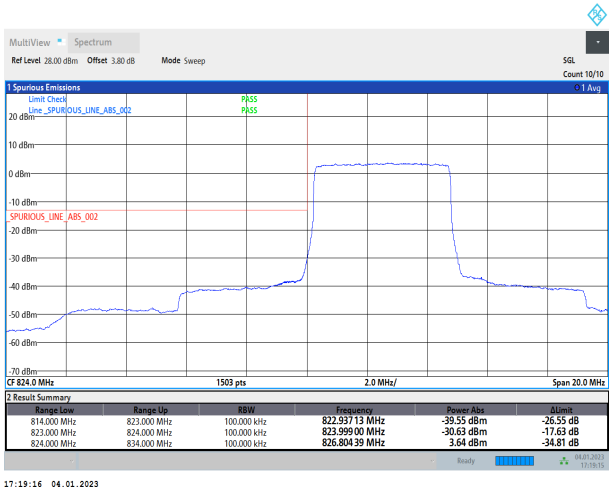


Band5-5MHz-QPSK-20425-25RB#0



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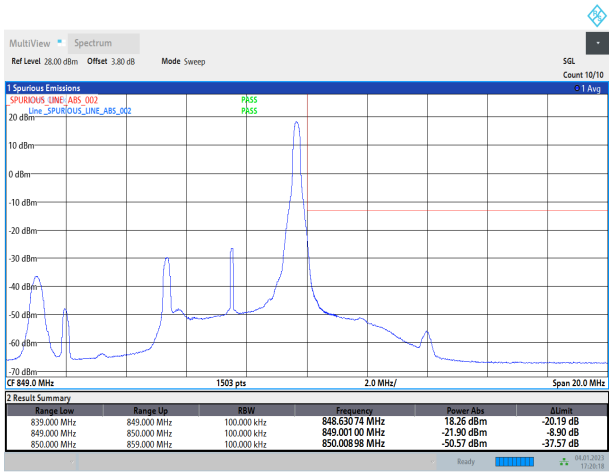
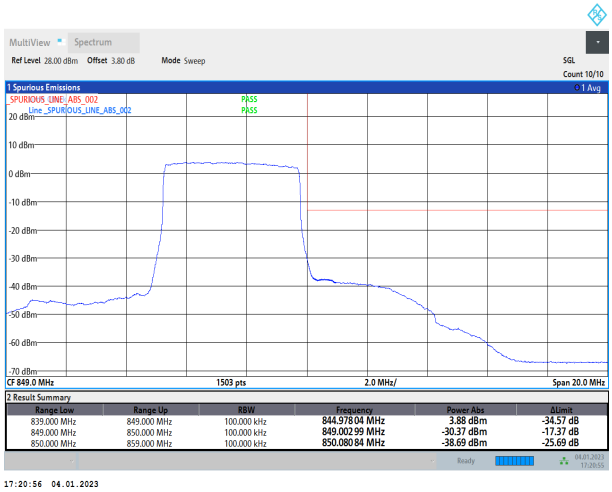
Band5-5MHz-QPSK-20625-1RB#24



Band5-5MHz-QPSK-20625-25RB#0



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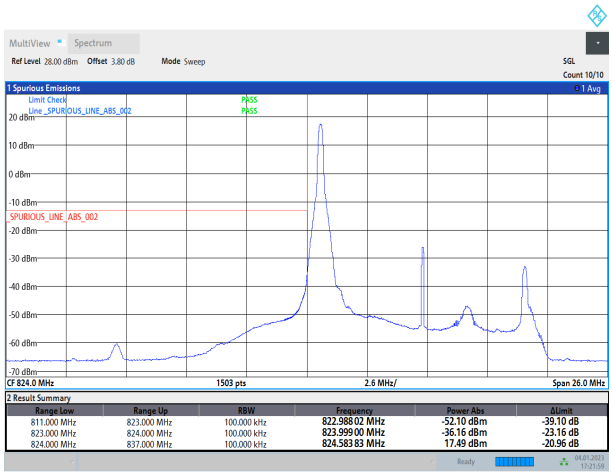
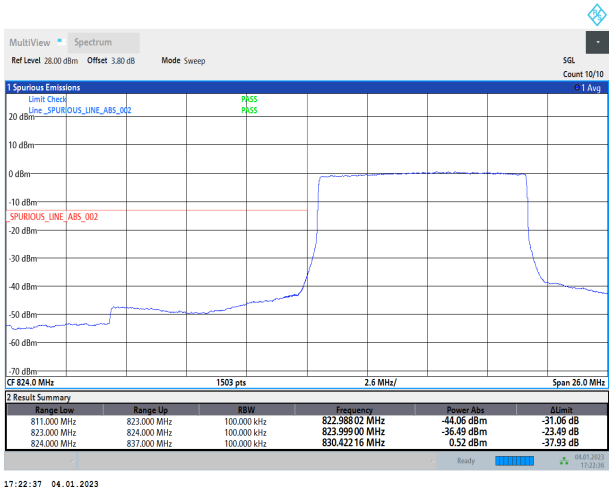
Band5-10MHz-QPSK-20450-1RB#0



Band5-10MHz-QPSK-20450-50RB#0



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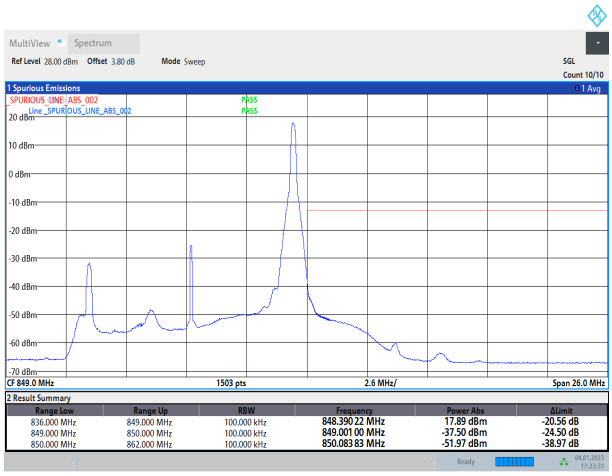
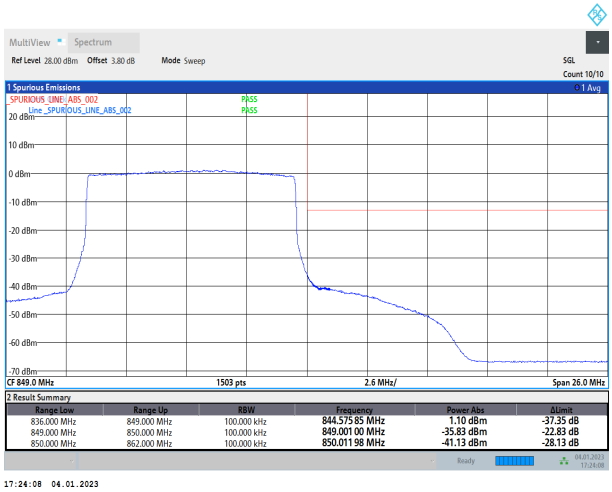
Band5-10MHz-QPSK-20600-1RB#49



Band5-10MHz-QPSK-20600-50RB#0



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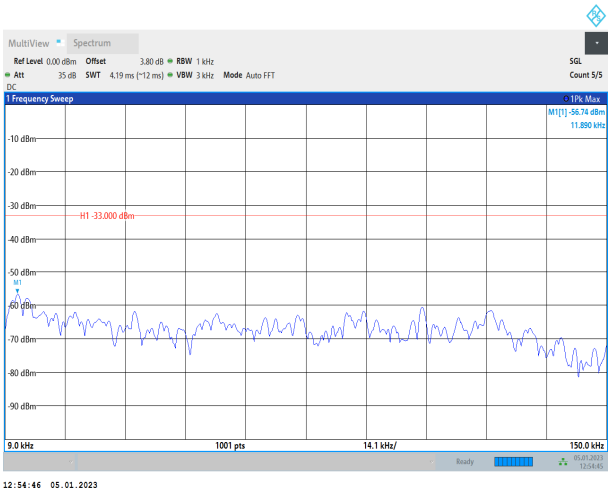
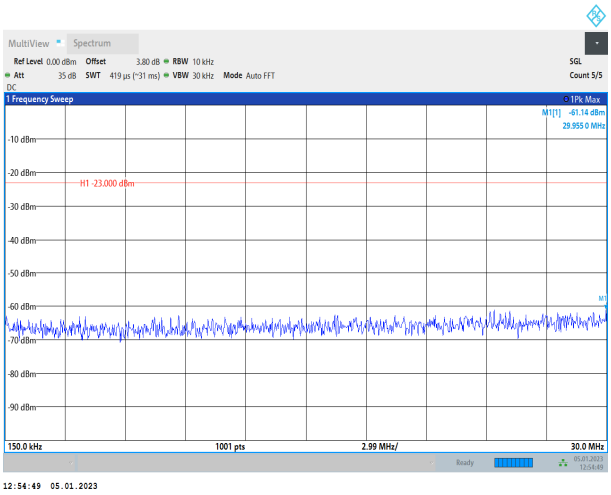
Conducted Spurious Emission

Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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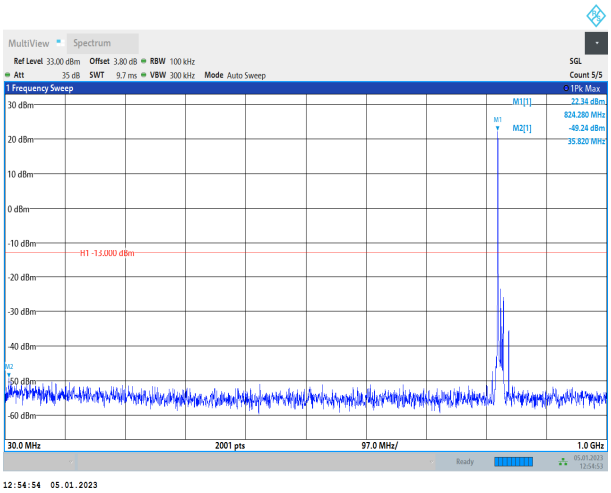
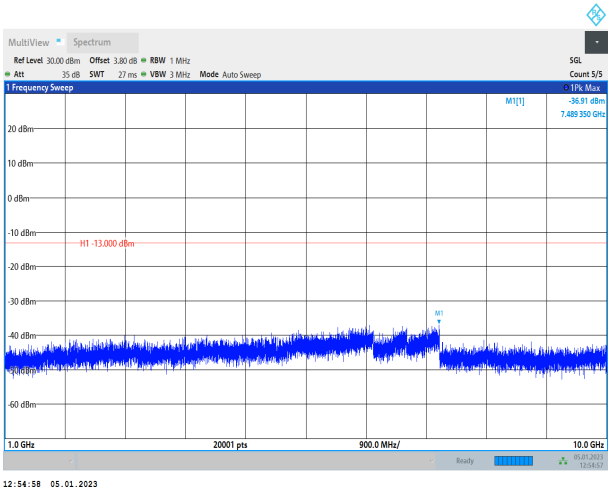
Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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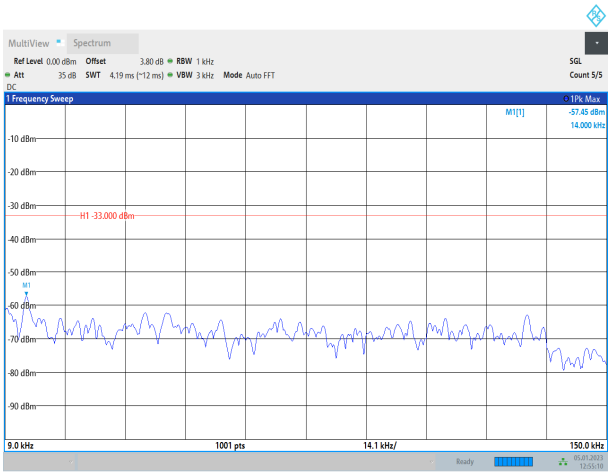
Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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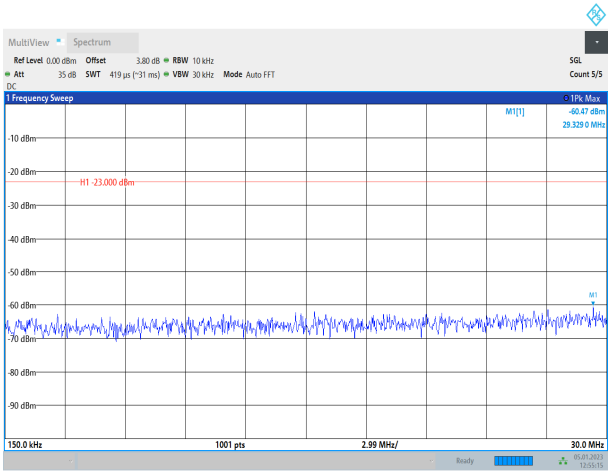
Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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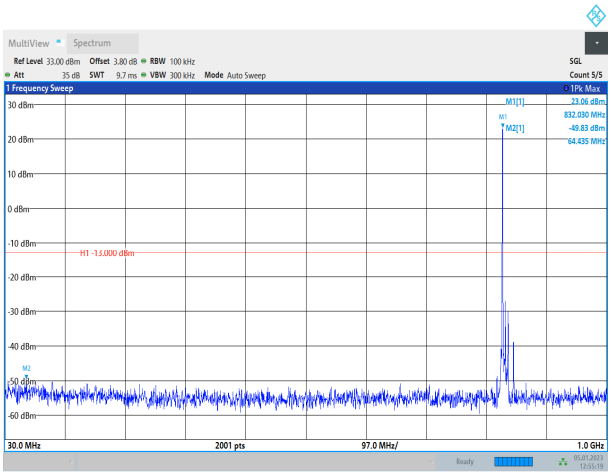
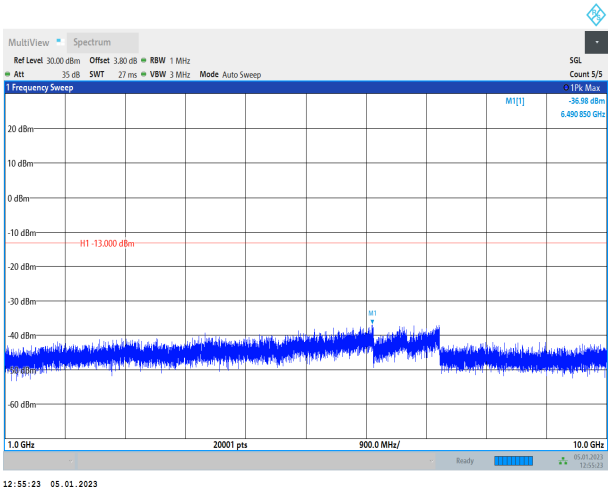
Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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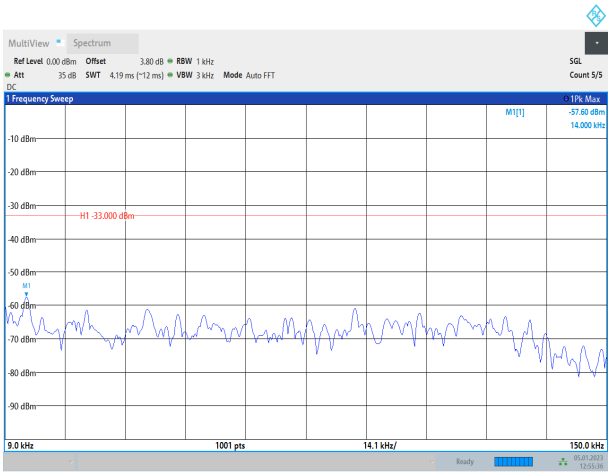
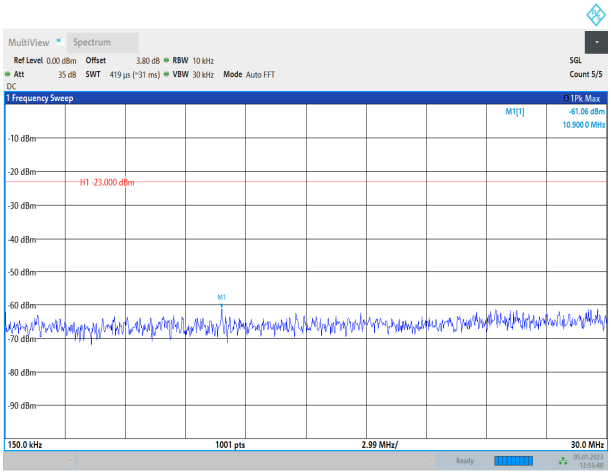
Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz


Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz


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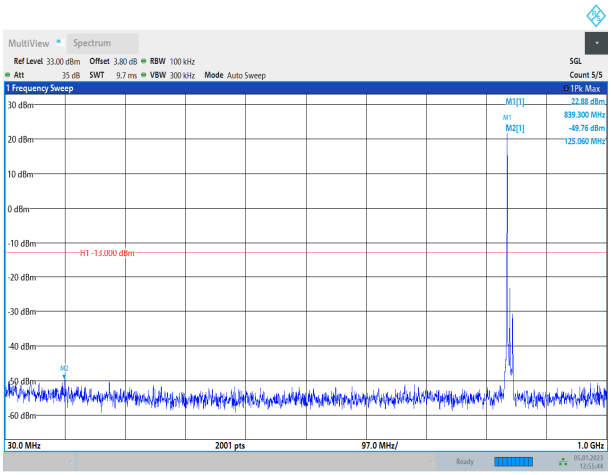
Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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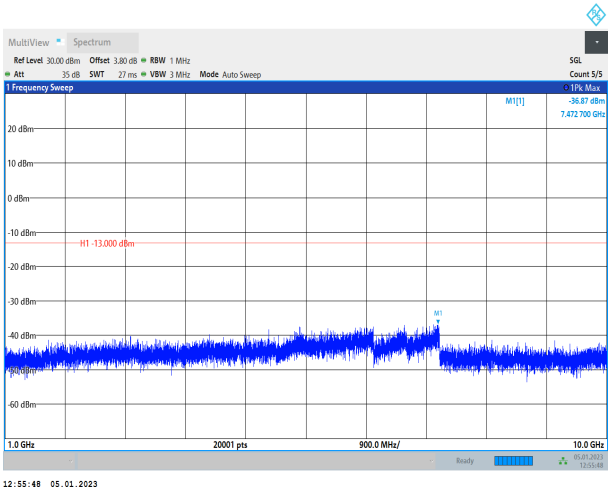

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Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation

Test Band = LTE Band5_ 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	1649.1800	45.16	-48.22	25.37	-72.95	-13.00	59.95	244	359	Horizontal
2	2473.7700	42.65	-47.32	27.69	-72.24	-13.00	59.24	148	359	Horizontal
3	3298.3600	42.04	-46.68	29.56	-70.34	-13.00	57.34	156	187	Horizontal
4	4122.9500	40.78	-45.91	30.99	-69.41	-13.00	56.41	291	319	Horizontal
5	4947.5400	41.64	-45.69	32.73	-66.58	-13.00	53.58	117	359	Horizontal
6	5772.1300	39.78	-44.64	33.65	-66.47	-13.00	53.47	128	252	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	1651.4286	53.83	-48.22	25.37	-64.28	-13.00	51.28	124	189	Vertical
2	2473.7700	42.19	-47.32	27.69	-72.70	-13.00	59.70	156	357	Vertical
3	3298.3600	42.30	-46.68	29.56	-70.08	-13.00	57.08	269	243	Vertical
4	4122.9500	40.88	-45.91	30.99	-69.31	-13.00	56.31	254	357	Vertical
5	4947.5400	41.19	-45.69	32.73	-67.03	-13.00	54.03	145	58	Vertical
6	5772.1300	40.22	-44.64	33.65	-66.03	-13.00	53.03	158	296	Vertical

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Test Band = LTE Band5_ 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	1664.1800	44.30	-48.20	25.38	-73.79	-13.00	60.79	256	25	Horizontal
2	2496.2700	42.75	-47.28	27.76	-72.03	-13.00	59.03	251	3	Horizontal
3	3328.3600	42.58	-46.64	29.52	-69.80	-13.00	56.80	148	253	Horizontal
4	4160.4500	40.65	-45.94	31.04	-69.51	-13.00	56.51	198	343	Horizontal
5	4992.5400	40.32	-45.79	32.86	-67.87	-13.00	54.87	175	253	Horizontal
6	5824.6300	40.10	-44.74	33.80	-66.10	-13.00	53.10	142	159	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	1664.1800	43.57	-48.20	25.38	-74.52	-13.00	61.52	248	68	Vertical
2	2496.2700	42.77	-47.28	27.76	-72.01	-13.00	59.01	175	268	Vertical
3	3328.3600	42.20	-46.64	29.52	-70.18	-13.00	57.18	146	268	Vertical
4	4160.4500	41.12	-45.94	31.04	-69.04	-13.00	56.04	291	42	Vertical
5	4992.5400	40.70	-45.79	32.86	-67.49	-13.00	54.49	148	215	Vertical
6	5824.6300	40.26	-44.74	33.80	-65.94	-13.00	52.94	173	28	Vertical

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Test Band = LTE Band5_ 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	1679.1800	43.72	-48.18	25.38	-74.34	-13.00	61.34	244	159	Horizontal
2	2518.7700	42.53	-47.21	27.83	-72.10	-13.00	59.10	136	92	Horizontal
3	3358.3600	42.85	-46.60	29.48	-69.53	-13.00	56.53	251	4	Horizontal
4	4197.9500	40.48	-45.96	31.10	-69.64	-13.00	56.64	188	358	Horizontal
5	5037.5400	39.76	-45.65	32.90	-68.25	-13.00	55.25	175	145	Horizontal
6	5887.1300	40.54	-44.93	33.92	-65.73	-13.00	52.73	146	53	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	1679.1800	43.16	-48.18	25.38	-74.90	-13.00	61.90	148	153	Vertical
2	2518.7700	42.51	-47.21	27.83	-72.12	-13.00	59.12	195	1	Vertical
3	3358.3600	42.04	-46.60	29.48	-70.34	-13.00	57.34	175	4	Vertical
4	4197.9500	40.83	-45.96	31.10	-69.29	-13.00	56.29	142	26	Vertical
5	5037.5400	40.37	-45.65	32.90	-67.64	-13.00	54.64	266	268	Vertical
6	5887.1300	40.33	-44.93	33.92	-65.94	-13.00	52.94	140	166	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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	1.20	0.001435	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	1.30	0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.30	0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	1.10	0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.70	-0.000837	±2.5	PASS

---End of Attachment---

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