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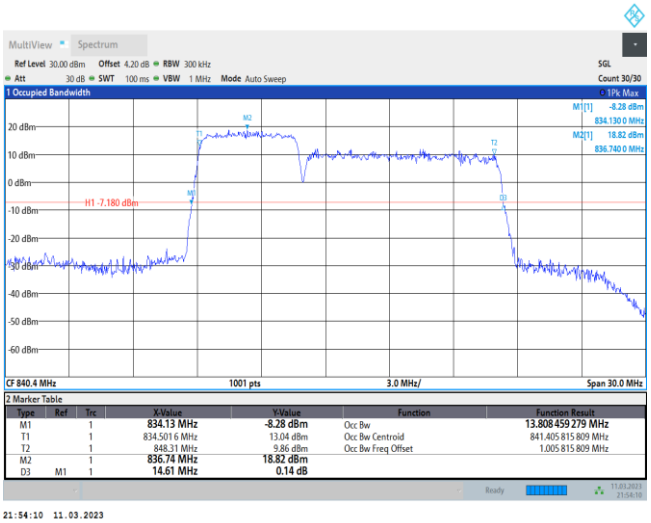

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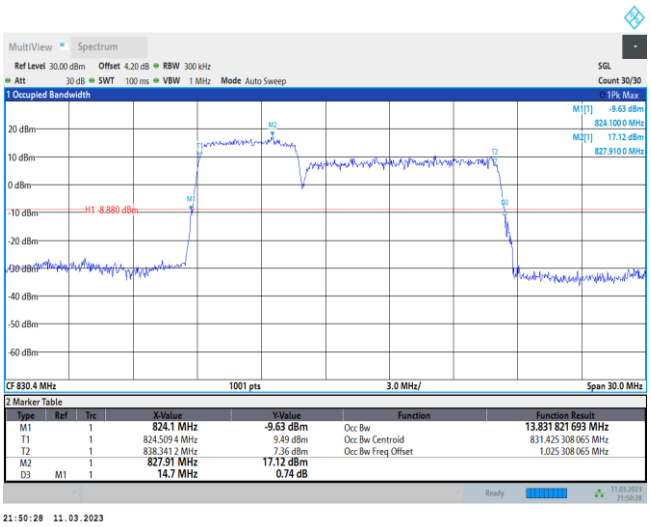

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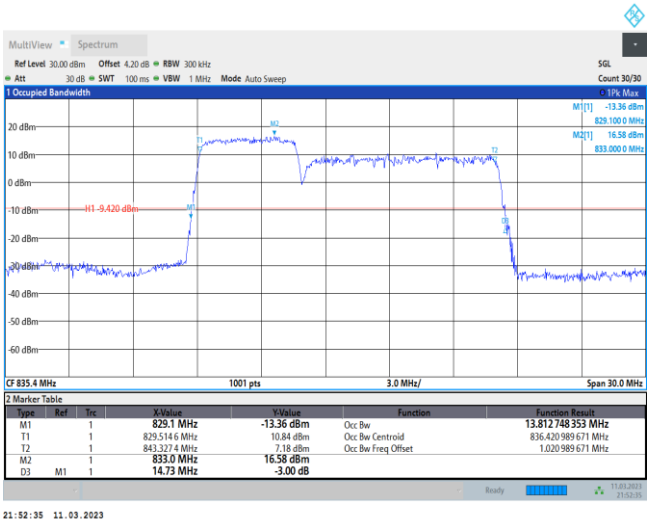

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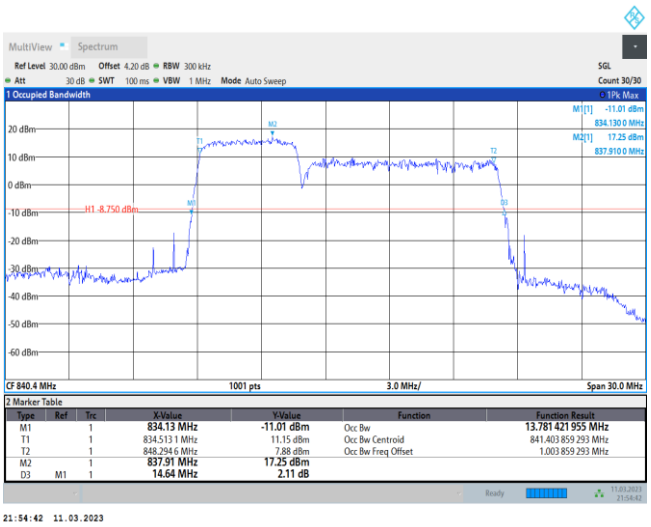

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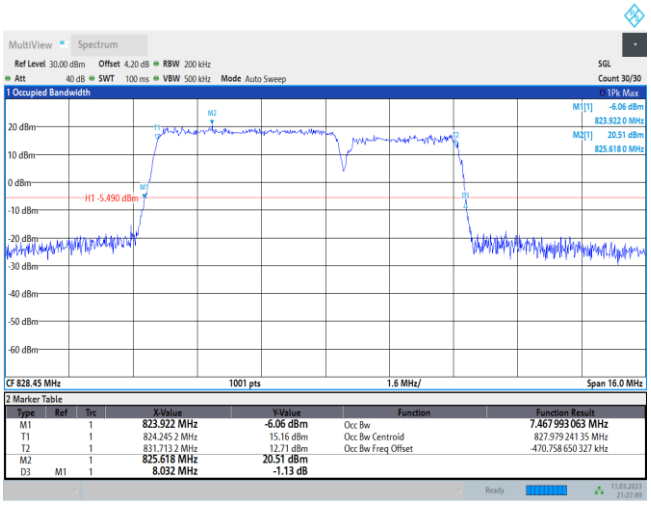
5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-25RB#0-15RB#0



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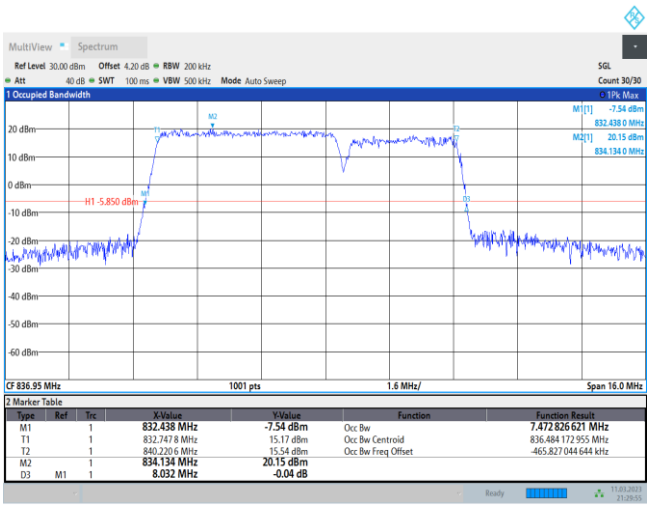

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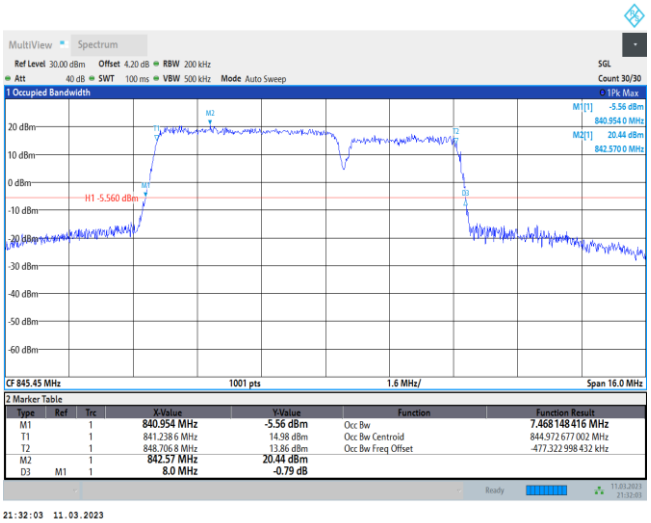
5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-25RB#0-15RB#0



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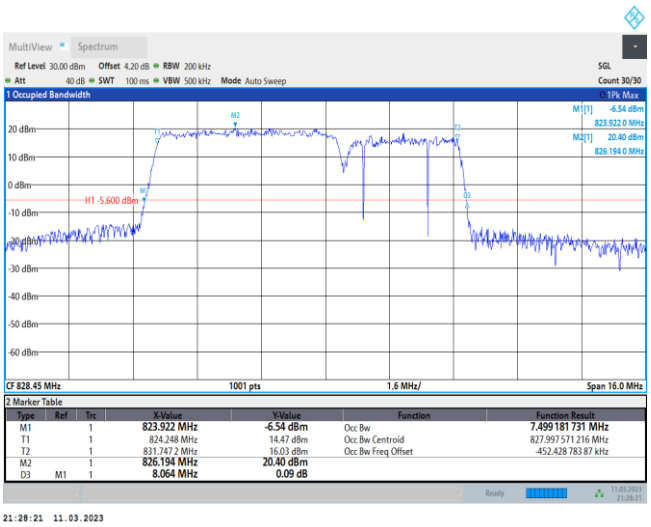

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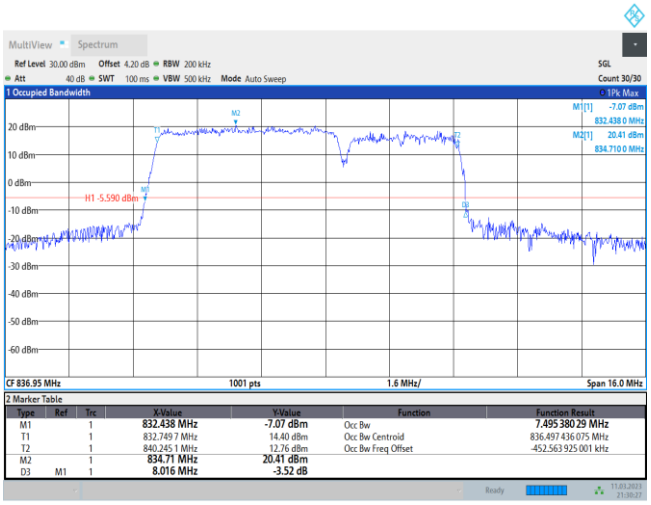

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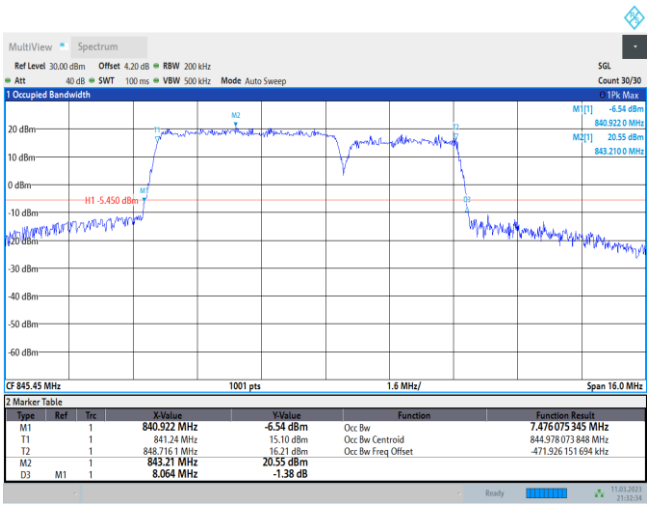

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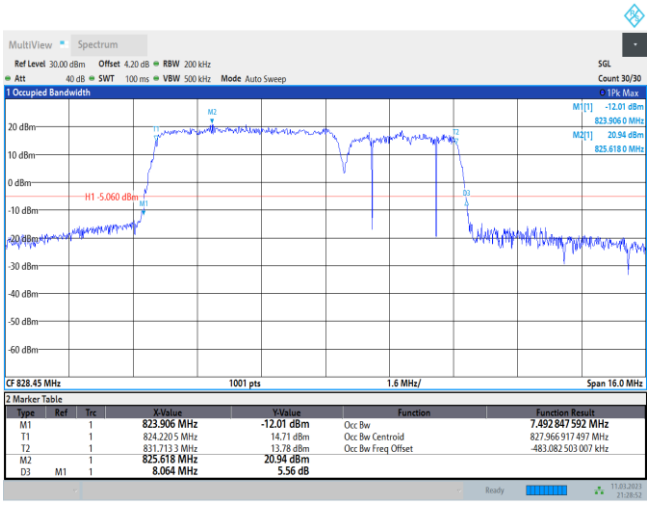
5-5-5MHz-3MHz-64QAM-64QAM-20425-20464-25RB#0-15RB#0



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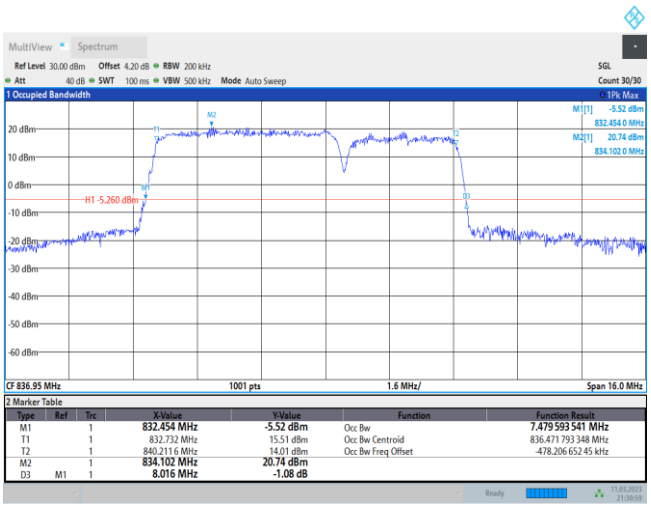

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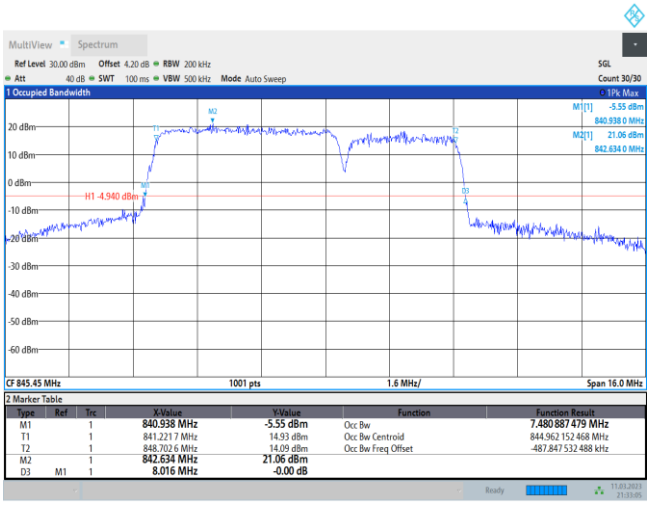

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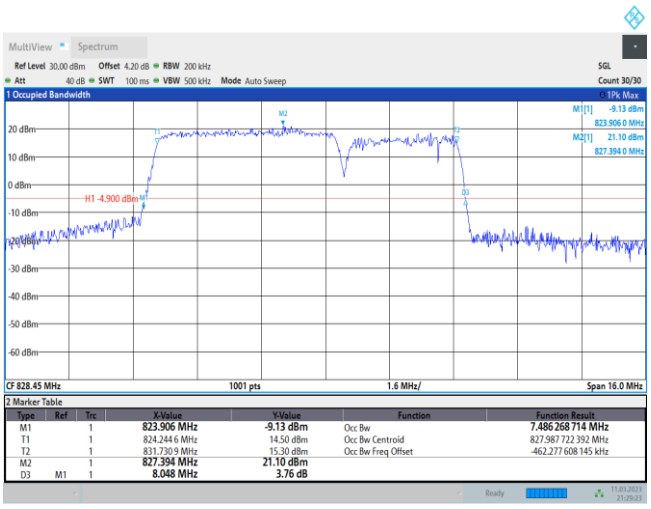

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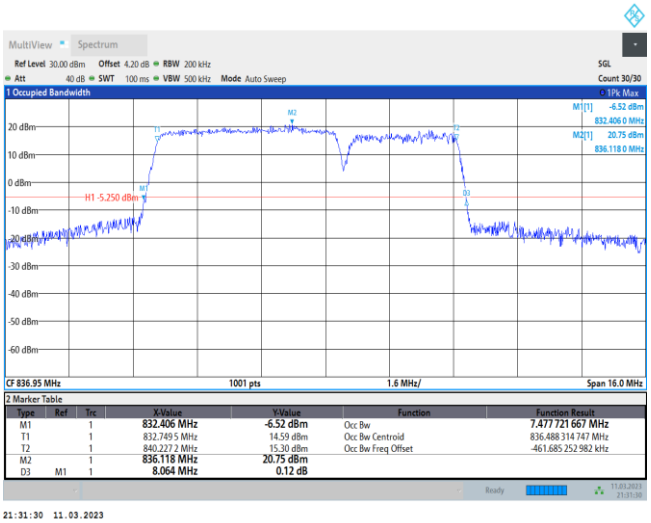
5-5-5MHz-3MHz-256QAM-256QAM-20510-20549-25RB#0-15RB#0



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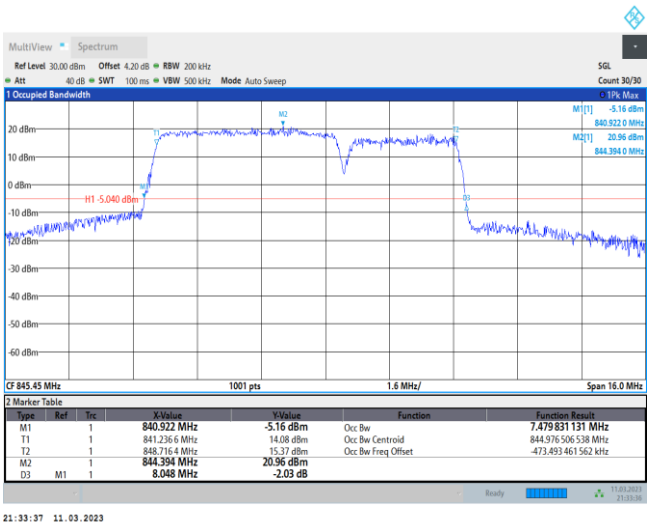

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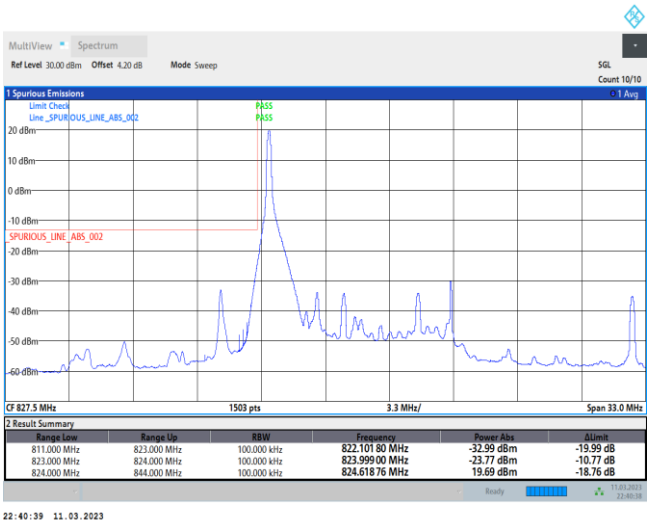
Band Edge

Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0



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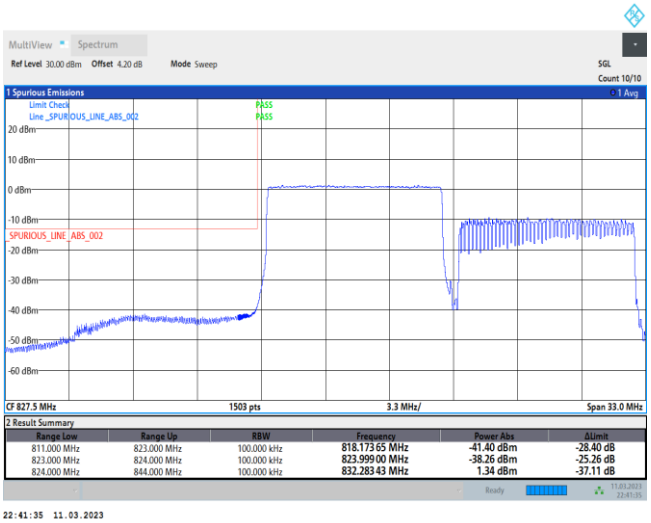

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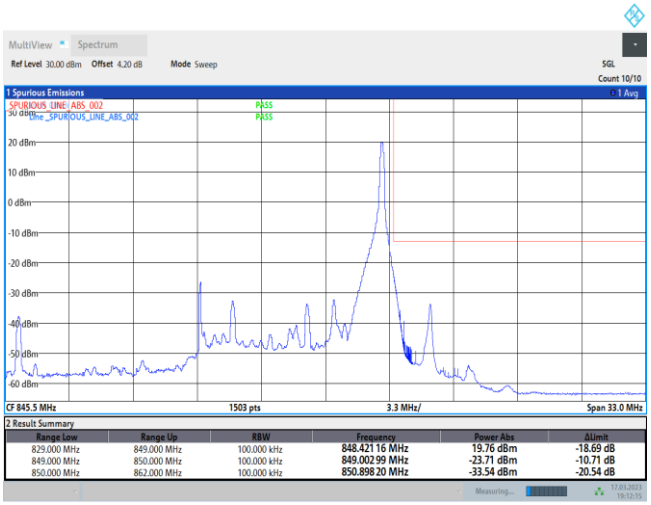

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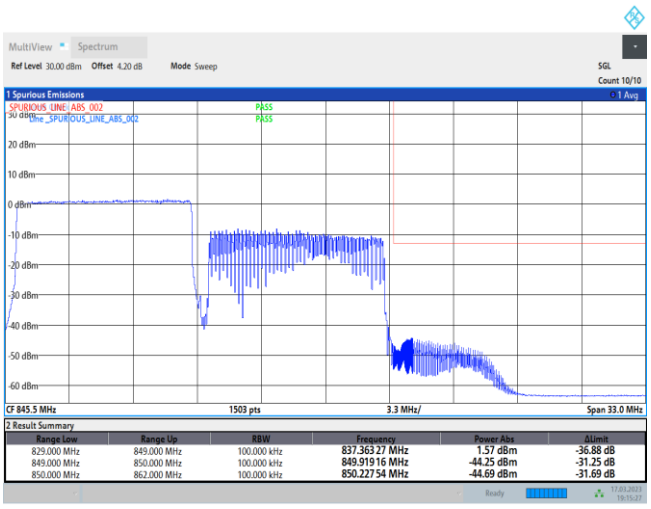

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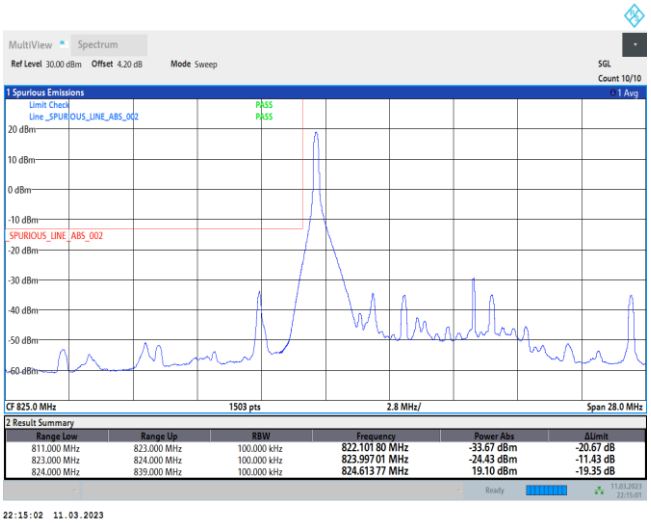
5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-1RB#0-0RB#0



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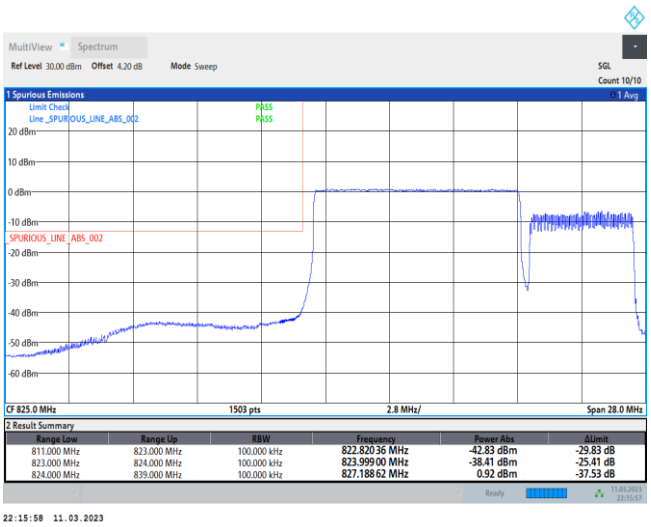

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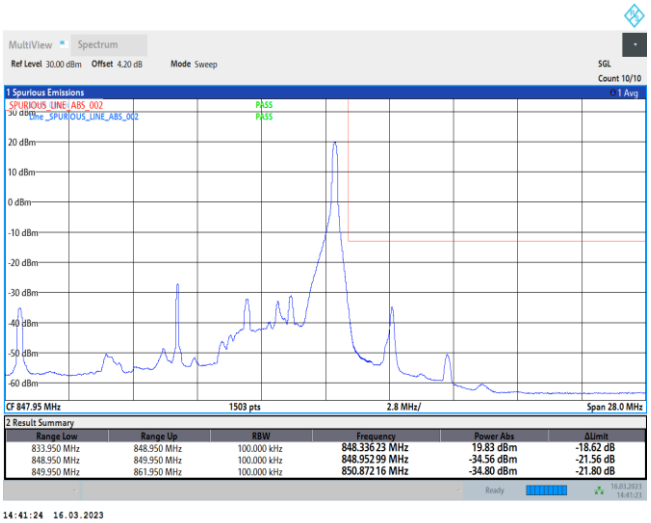
5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-0RB#0-1RB#24



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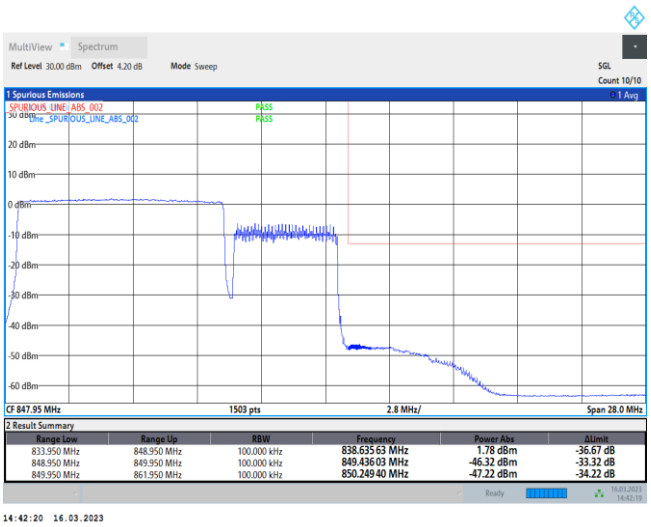

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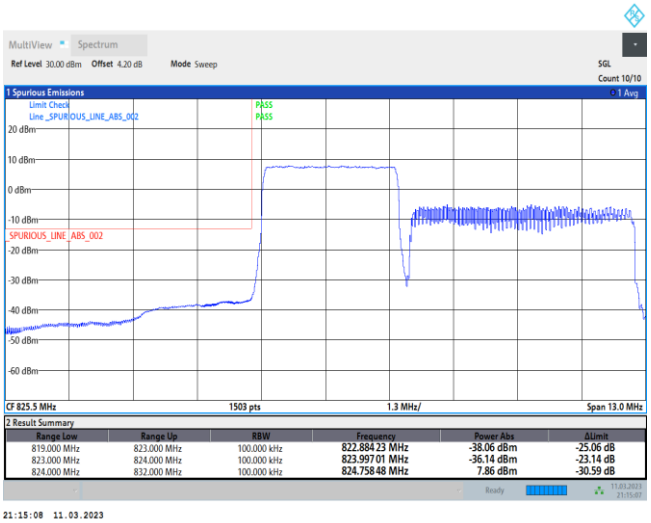
5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



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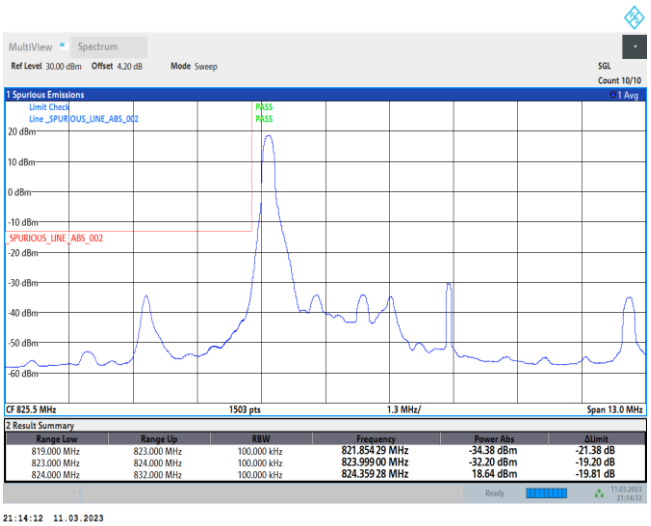

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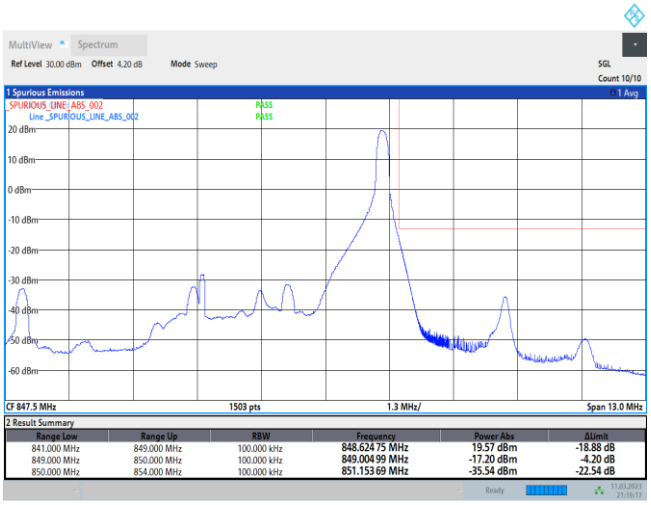
5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-0RB#0-1RB#24



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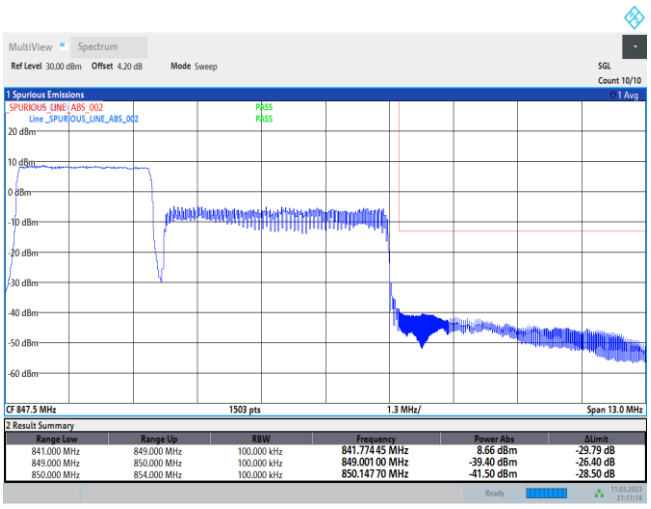

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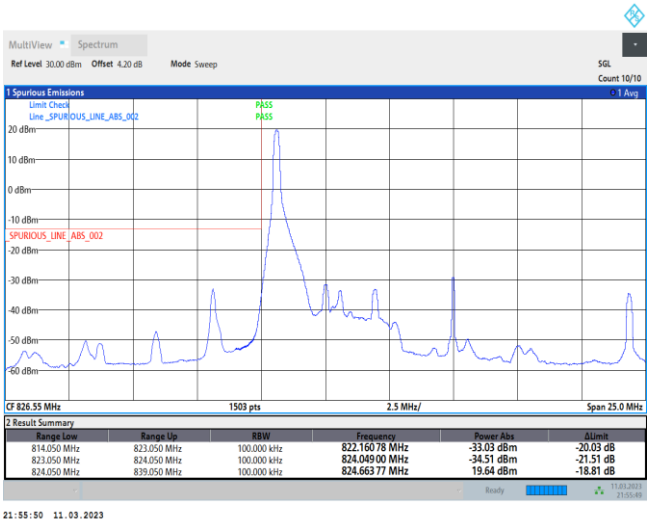
5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



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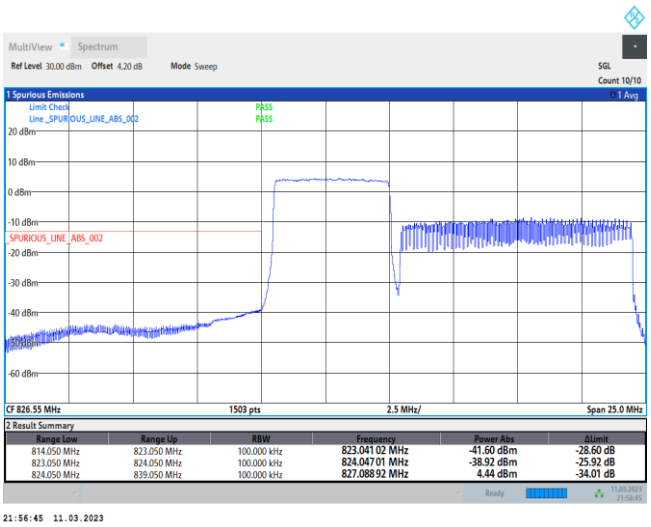

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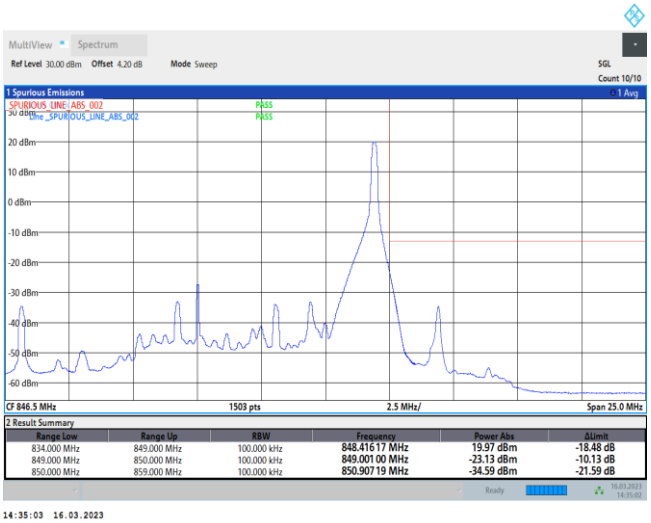
5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-0RB#0-1RB#49



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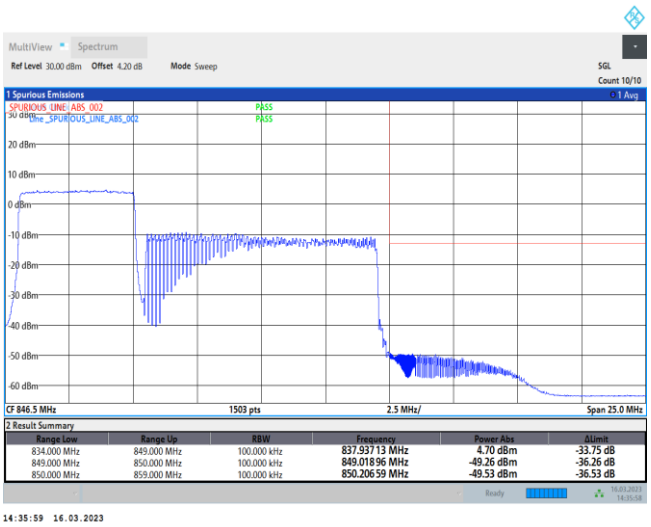

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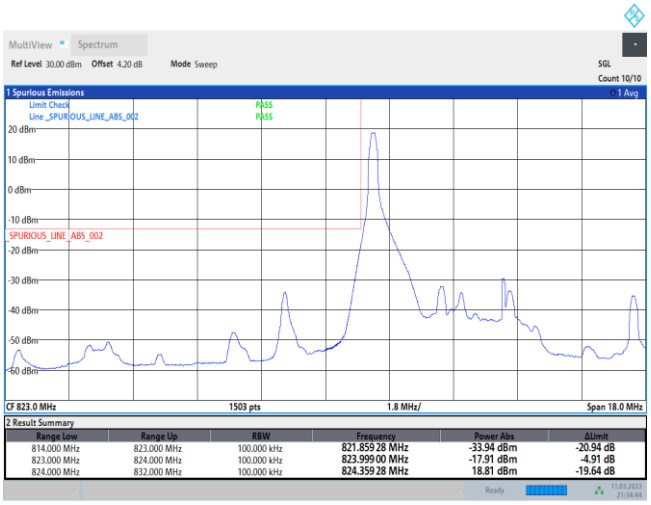
5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-1RB#0-0RB#0



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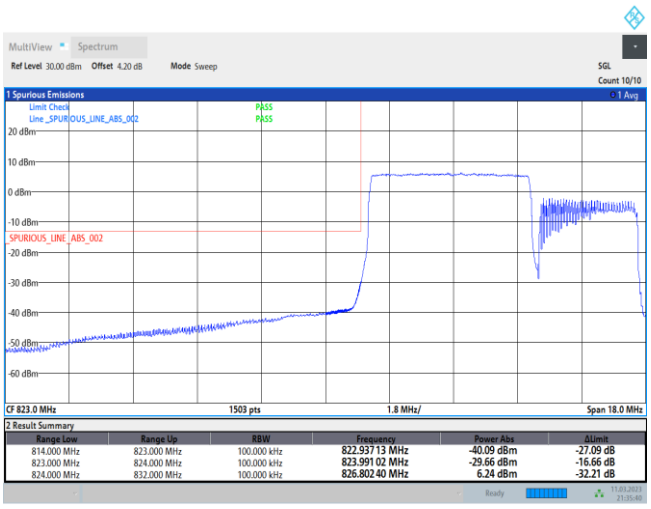

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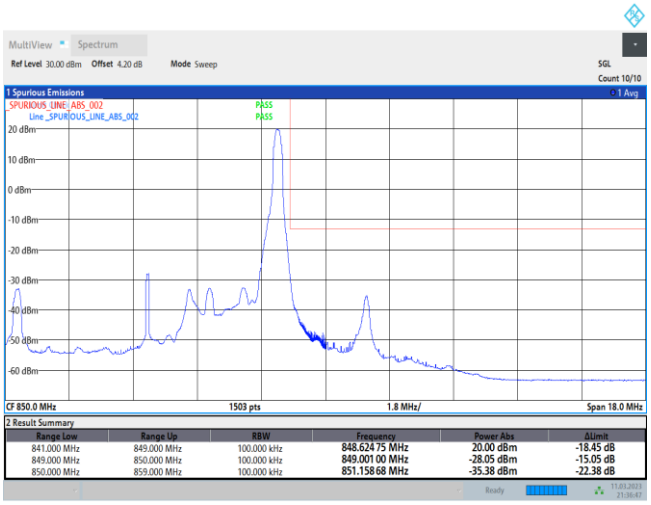

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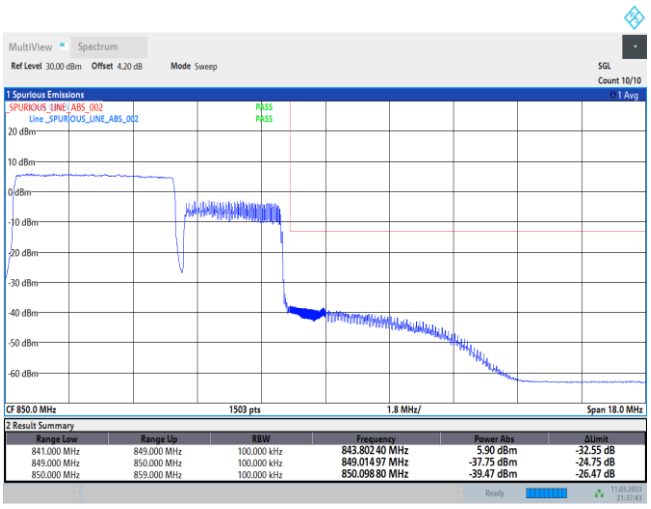

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Conducted Spurious Emission

Test Graphs

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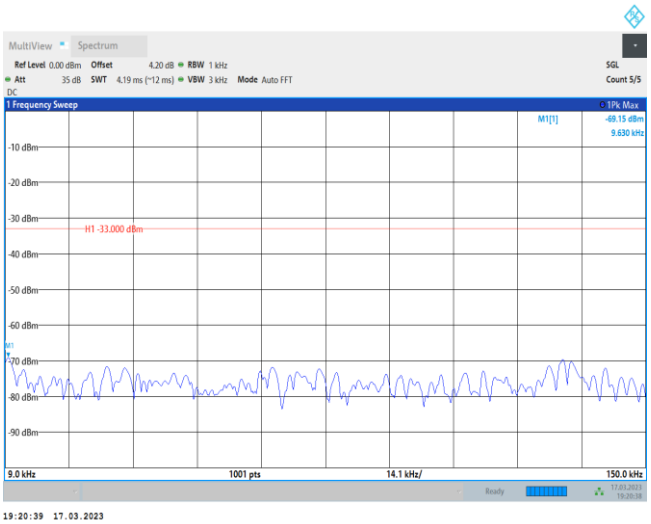

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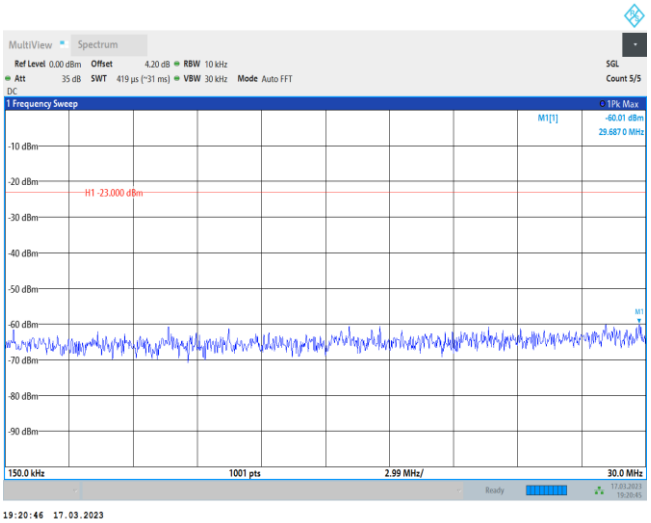

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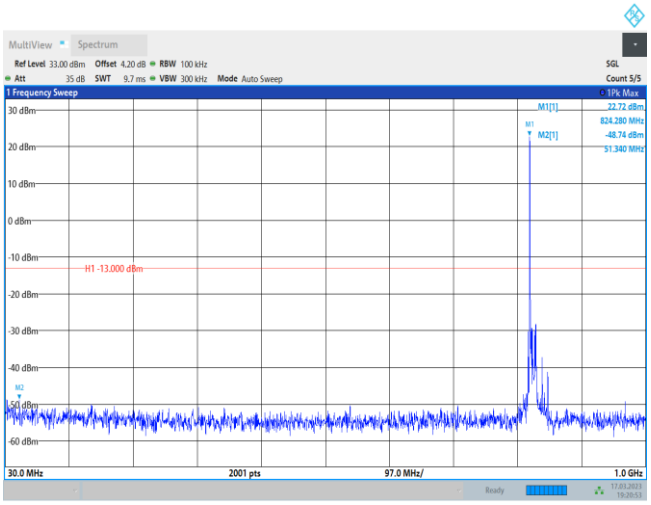
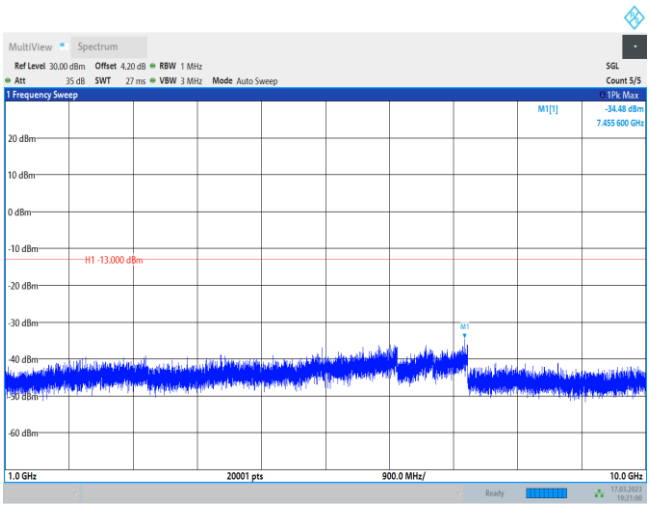


5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-1000~10000MHz



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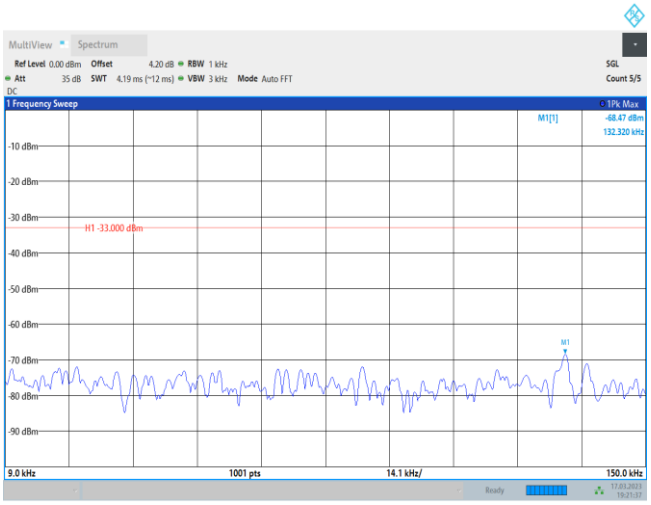
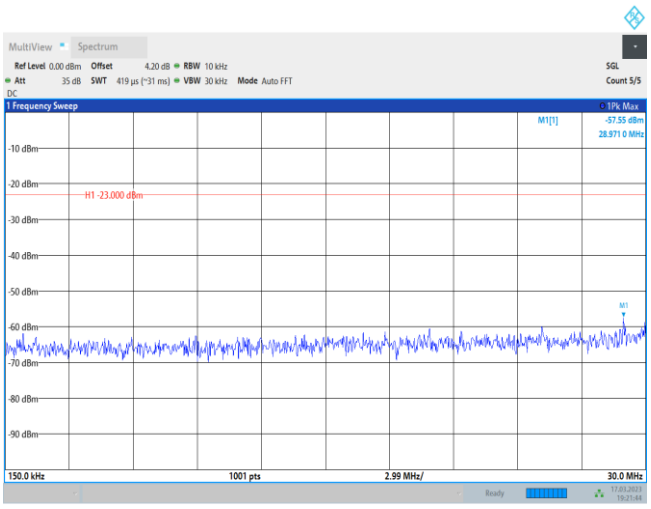
5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.15~30MHz



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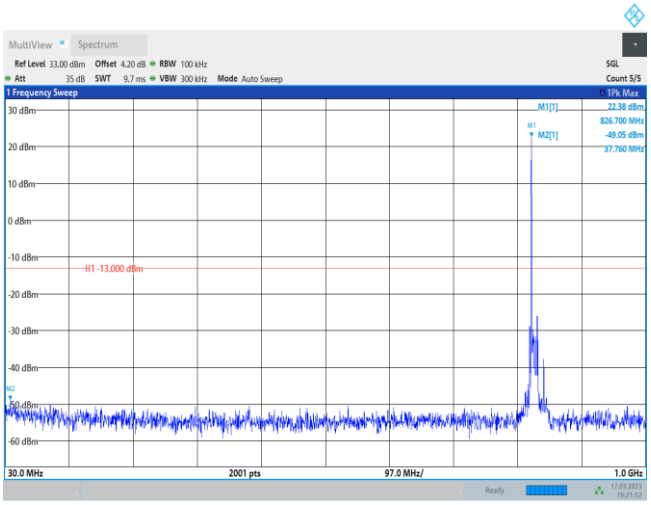
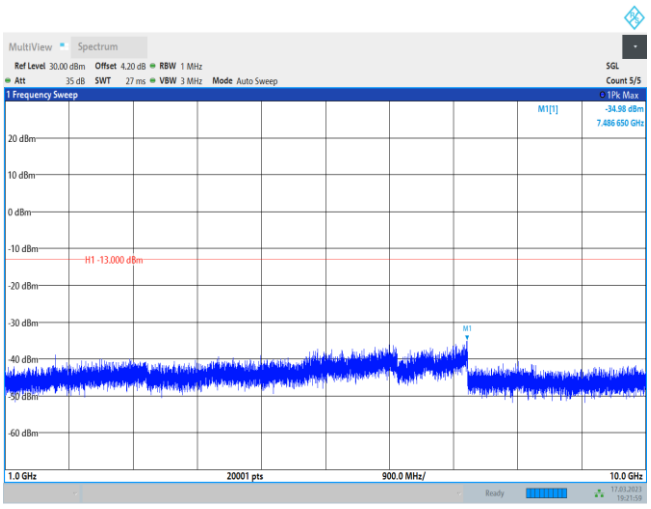
5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-30~1000MHz



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-1000~10000MHz



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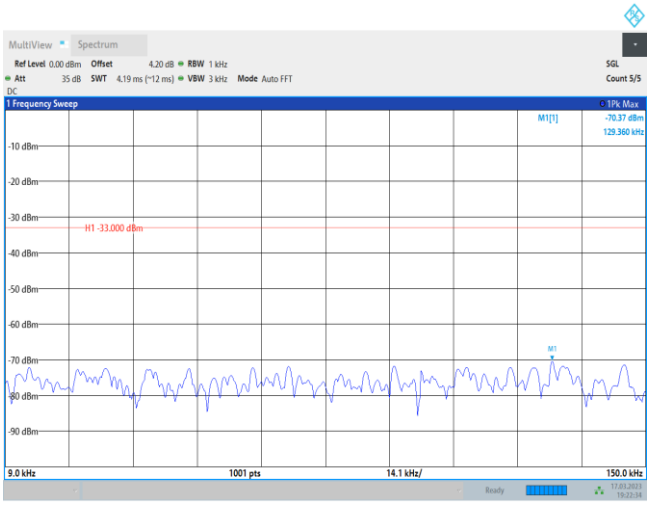
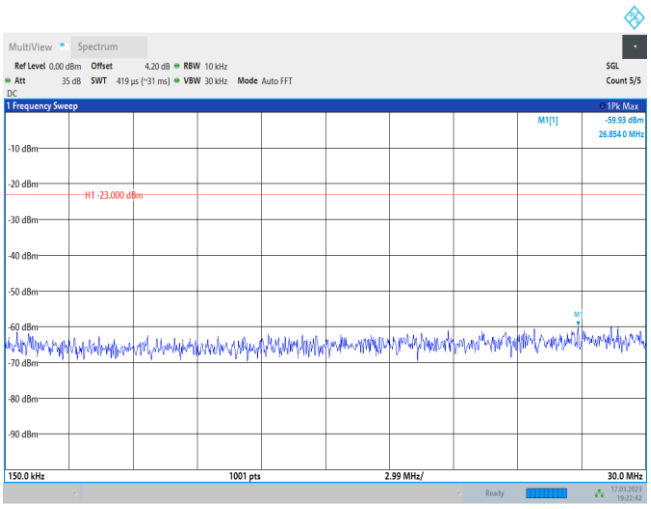
5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.15~30MHz



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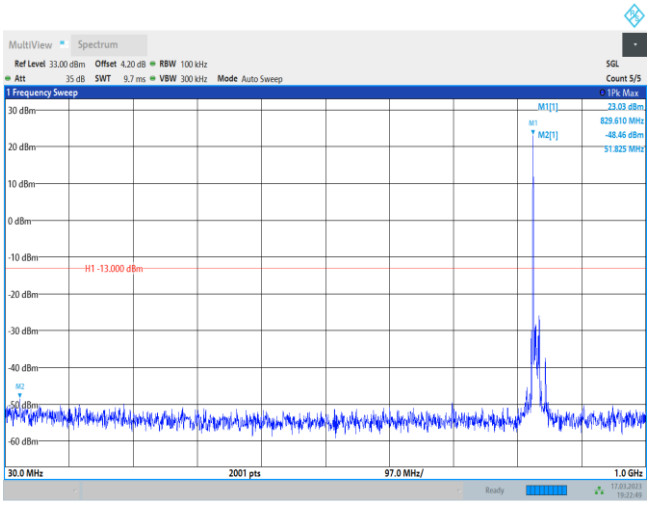
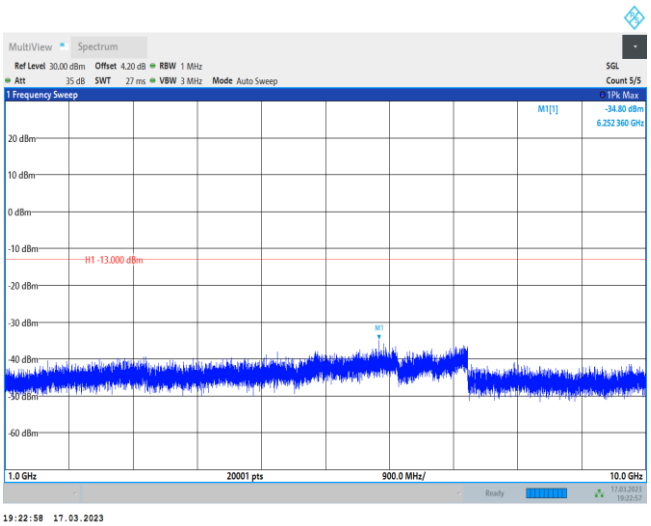
5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-30~1000MHz



5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band5B_ 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	1649.1429	45.73	-48.22	25.37	-72.38	-13.00	59.38	288	164	Horizontal
2	2473.7143	46.80	-47.32	27.68	-68.09	-13.00	55.09	169	98	Horizontal
3	3298.3600	42.46	-46.68	29.56	-69.92	-13.00	56.92	253	203	Horizontal
4	4122.9500	41.49	-45.91	30.99	-68.70	-13.00	55.70	164	5	Horizontal
5	4947.5400	42.16	-45.69	32.73	-66.06	-13.00	53.06	221	190	Horizontal
6	5772.1000	40.15	-44.64	33.65	-66.10	-13.00	53.10	175	111	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	1648.1800	44.97	-48.22	25.37	-73.14	-13.00	60.14	244	146	Vertical
2	2473.7143	49.50	-47.32	27.68	-65.39	-13.00	52.39	176	146	Vertical
3	3298.3600	43.16	-46.68	29.56	-69.22	-13.00	56.22	296	159	Vertical
4	4122.9500	41.35	-45.91	30.99	-68.84	-13.00	55.84	135	360	Vertical
5	4947.5400	41.85	-45.69	32.73	-66.37	-13.00	53.37	248	252	Vertical
6	5772.1000	40.27	-44.64	33.65	-65.98	-13.00	52.98	162	302	Vertical

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Test Band = LTE Band5B_ 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	1654.3600	43.95	-48.21	25.37	-74.15	-13.00	61.15	247	0	Horizontal
2	2481.5700	43.63	-47.30	27.71	-71.22	-13.00	58.22	187	356	Horizontal
3	3308.7600	42.46	-46.67	29.54	-69.92	-13.00	56.92	155	135	Horizontal
4	4135.9500	41.44	-45.92	31.00	-68.74	-13.00	55.74	167	0	Horizontal
5	4963.1400	41.00	-45.73	32.78	-67.21	-13.00	54.21	218	162	Horizontal
6	5790.3300	40.17	-44.65	33.72	-66.03	-13.00	53.03	199	227	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	1654.3600	44.71	-48.21	25.37	-73.39	-13.00	60.39	274	210	Vertical
2	2481.5700	47.48	-47.30	27.71	-67.37	-13.00	54.37	184	66	Vertical
3	3308.7600	42.91	-46.67	29.54	-69.47	-13.00	56.47	156	277	Vertical
4	4135.9500	41.61	-45.92	31.00	-68.57	-13.00	55.57	163	359	Vertical
5	4963.1400	41.09	-45.73	32.78	-67.12	-13.00	54.12	285	184	Vertical
6	5790.3300	39.92	-44.65	33.72	-66.28	-13.00	53.28	181	330	Vertical

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Test Band = LTE Band5B_ 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	1749.3800	43.92	-48.06	25.41	-73.99	-13.00	60.99	298	9	Horizontal
2	2624.0700	42.99	-46.96	28.15	-71.08	-13.00	58.08	246	294	Horizontal
3	3498.7600	42.45	-46.54	29.52	-69.83	-13.00	56.83	135	1	Horizontal
4	4373.4500	41.00	-45.86	31.46	-68.66	-13.00	55.66	281	320	Horizontal
5	5248.1400	40.87	-45.14	32.94	-66.58	-13.00	53.58	145	307	Horizontal
6	6122.8300	40.10	-44.74	34.17	-65.72	-13.00	52.72	156	201	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	1749.3800	43.54	-48.06	25.41	-74.37	-13.00	61.37	244	360	Vertical
2	2624.0700	42.93	-46.96	28.15	-71.14	-13.00	58.14	141	342	Vertical
3	3498.7600	42.80	-46.54	29.52	-69.48	-13.00	56.48	185	317	Vertical
4	4373.4500	41.25	-45.86	31.46	-68.41	-13.00	55.41	220	38	Vertical
5	5248.1400	40.79	-45.14	32.94	-66.66	-13.00	53.66	165	351	Vertical
6	6122.8300	39.53	-44.74	34.17	-66.29	-13.00	53.29	238	290	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
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	VH	NT	0.72	0.000866	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	VL	NT	0.73	0.000878	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	VN	NT	0.01	0.000012	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	-30	0.40	0.000481	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	-20	0.63	0.000758	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	-10	0.47	0.000565	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	0	0.66	0.000794	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	10	0.97	0.001166	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	20	0.65	0.000782	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	30	0.49	0.000589	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	40	0.04	0.000048	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	50	0.53	0.000637	±2.5	PASS

---End of Attachment---

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