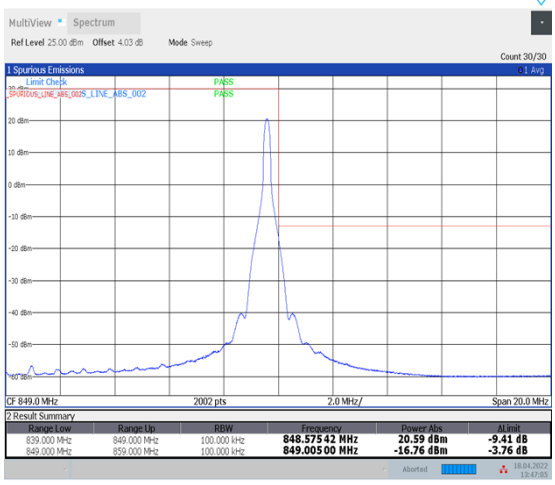

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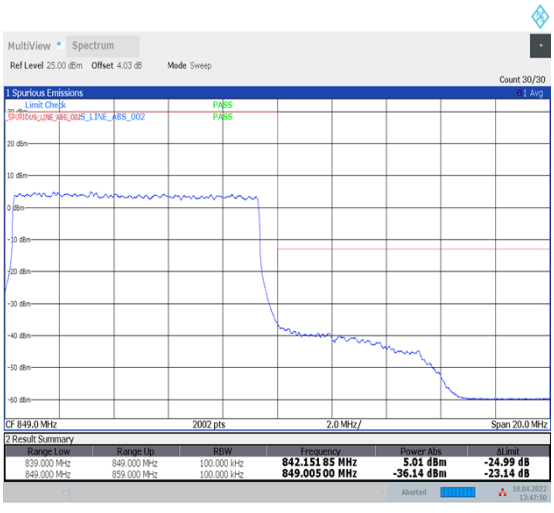

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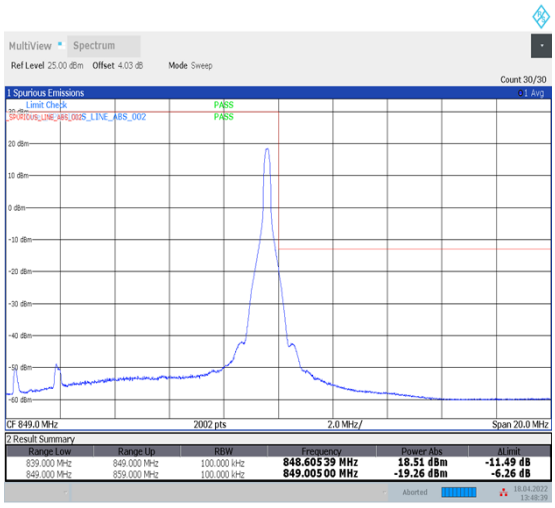

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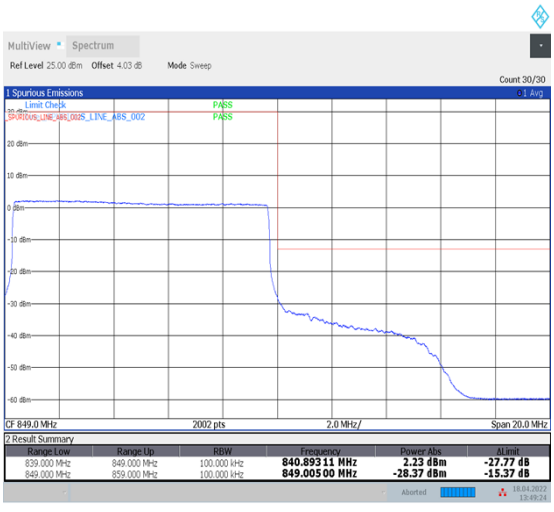

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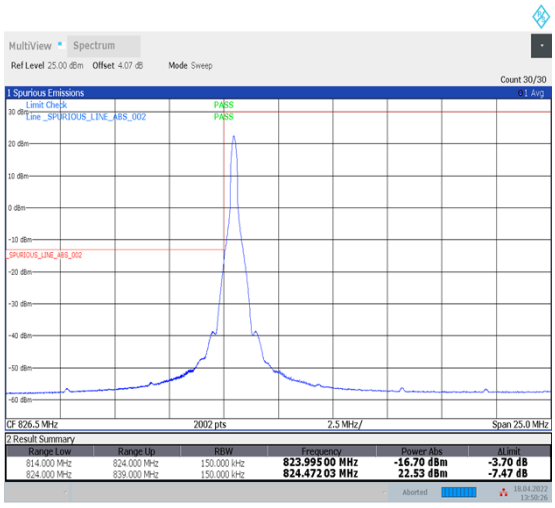

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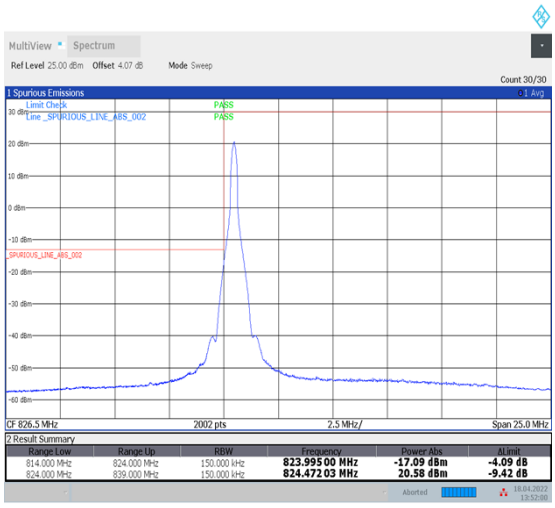

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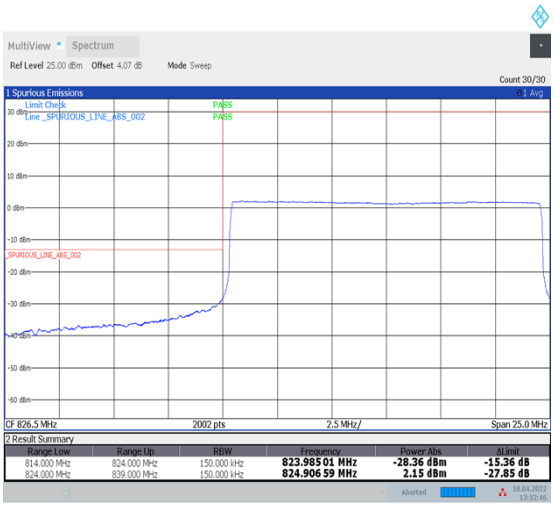

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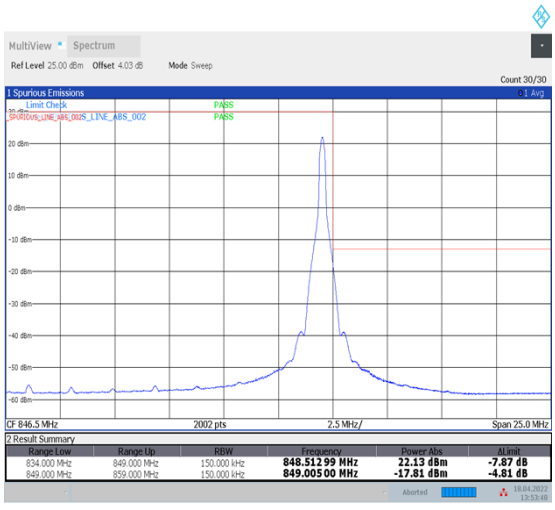

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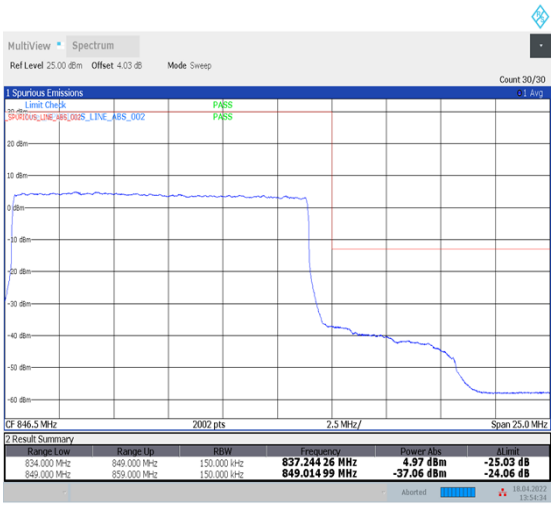

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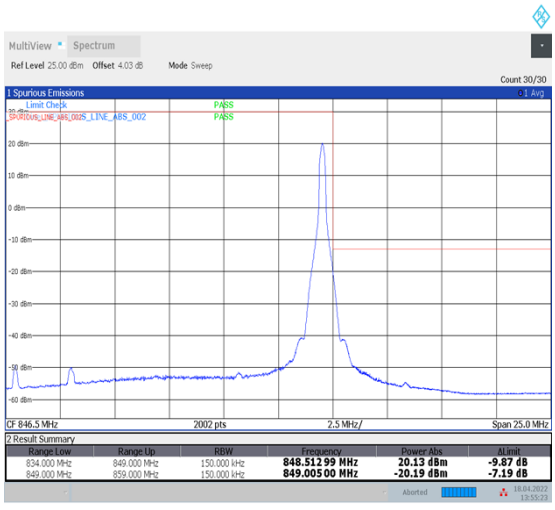

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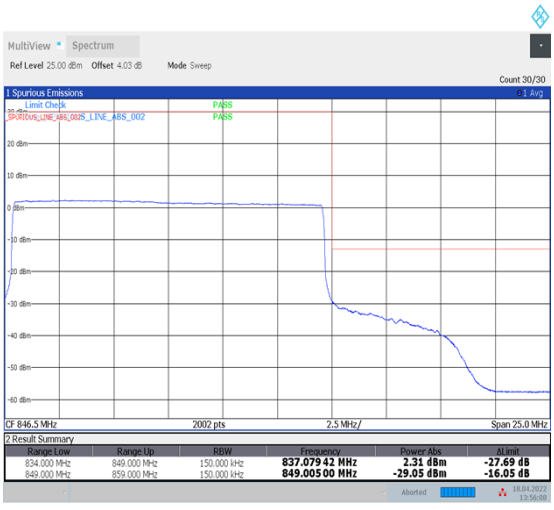

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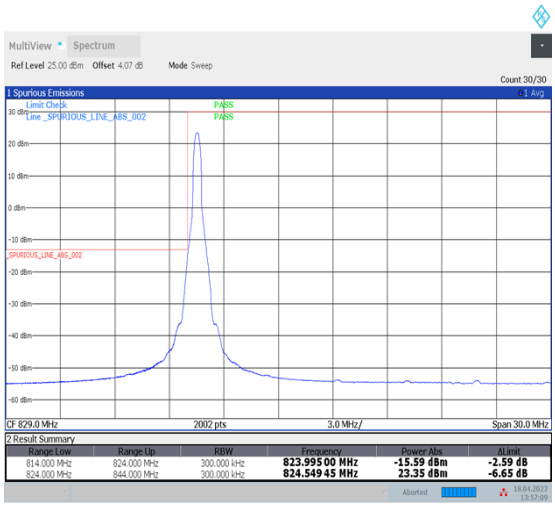

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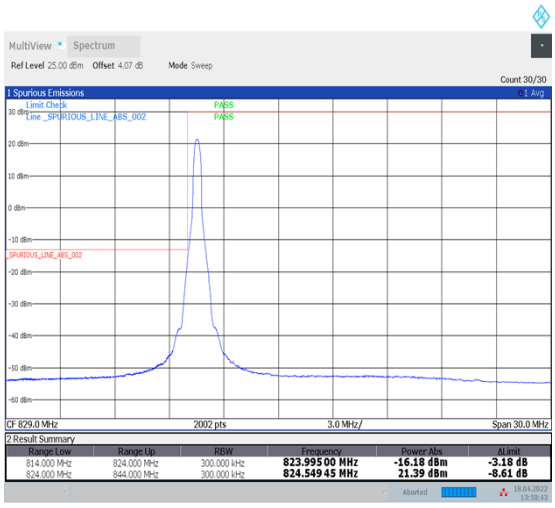

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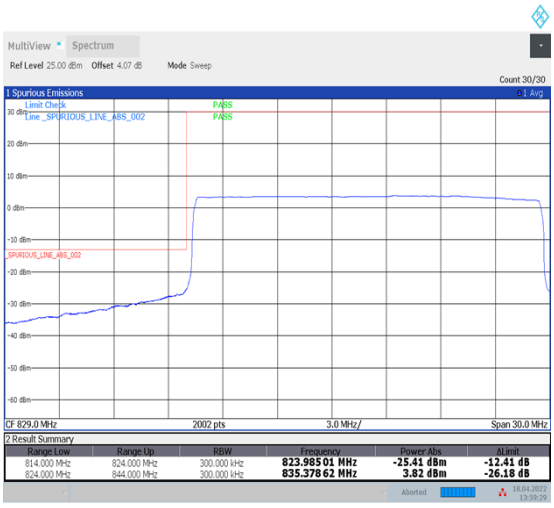

1-N5--15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant1-seegraph-PASS-see graph

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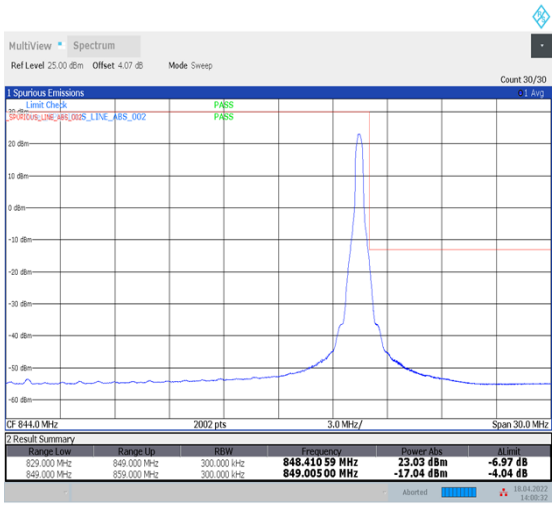

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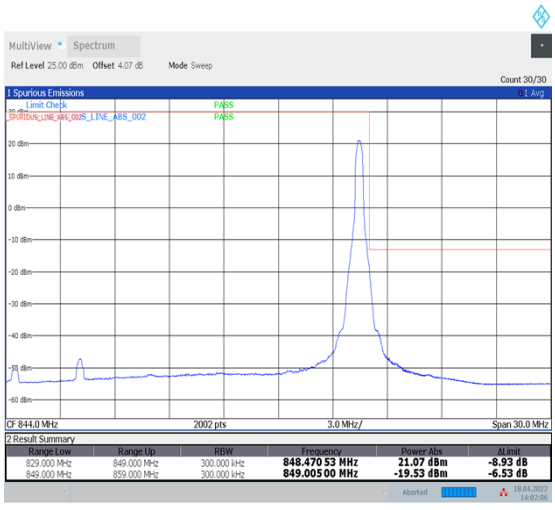

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1-N5--15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant1-seegraph-PASS-see graph

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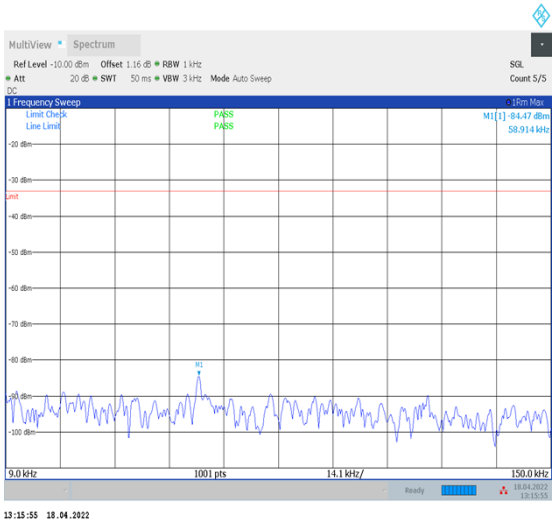
Conducted Spurious Emission for SA

Test Graphs



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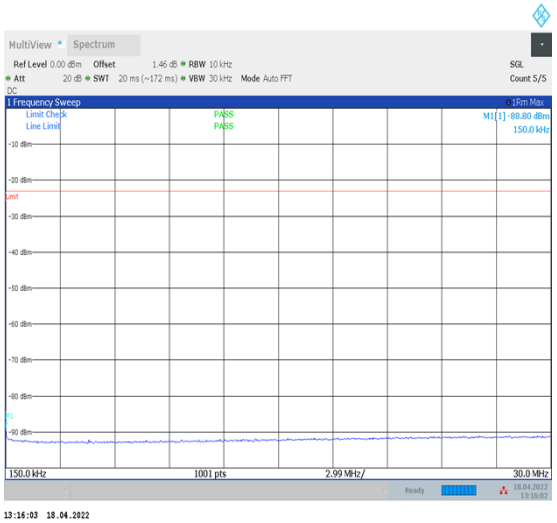

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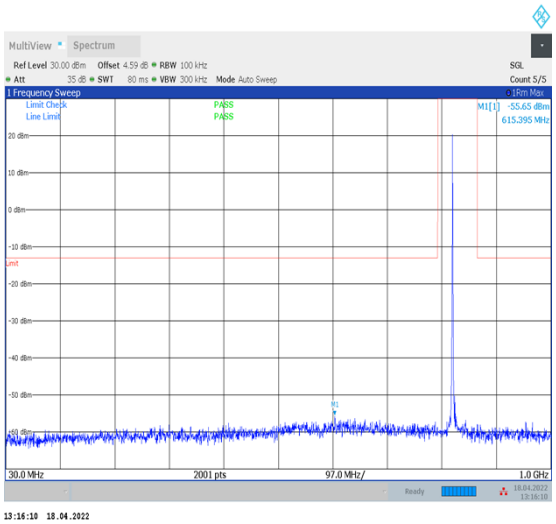

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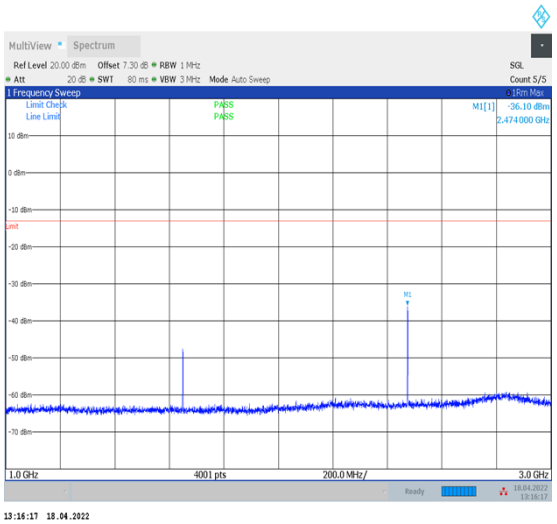

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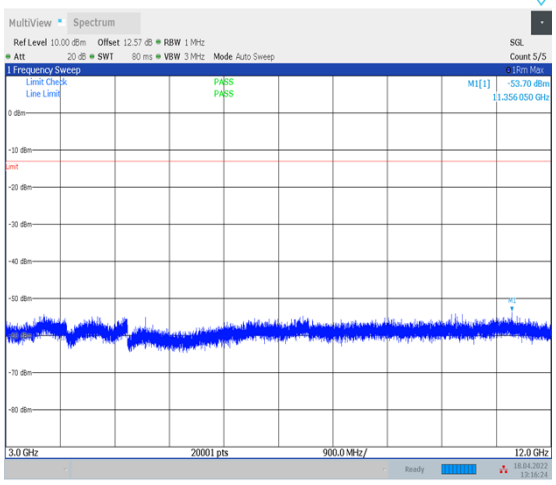

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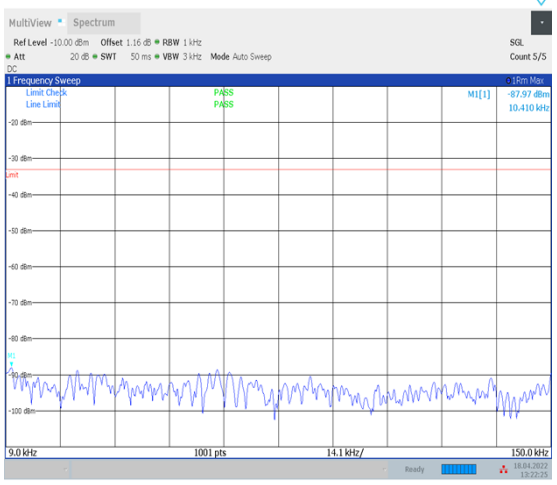

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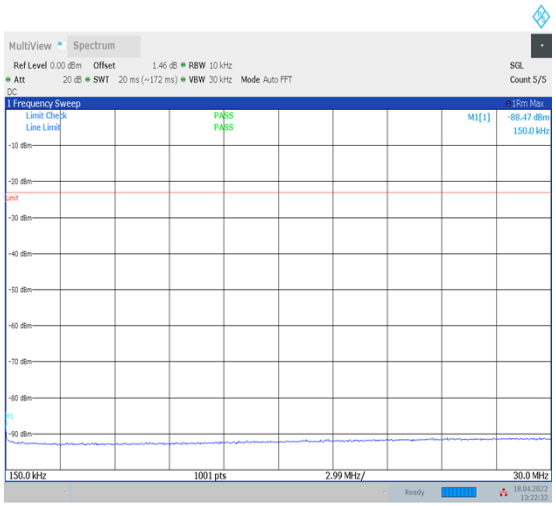

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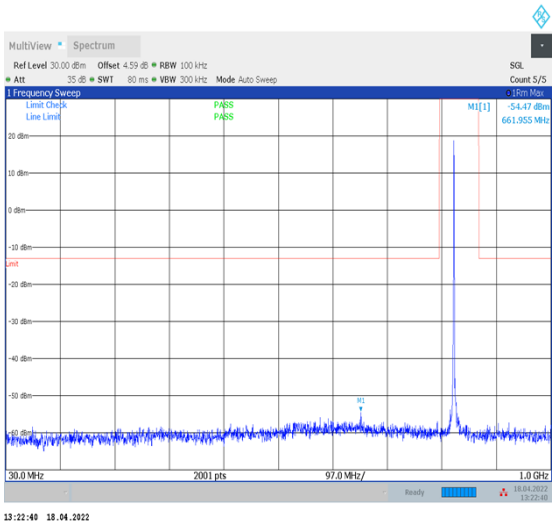

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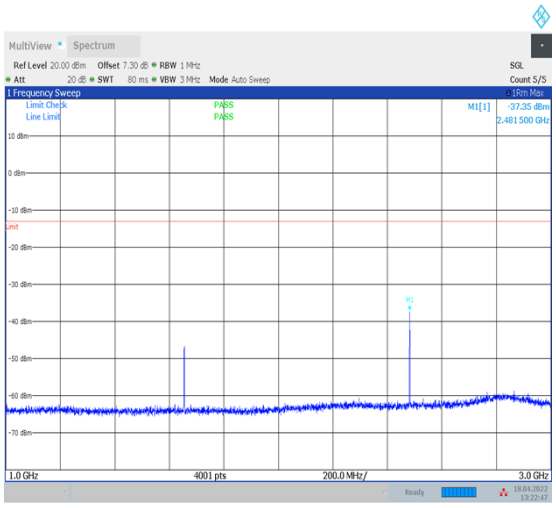

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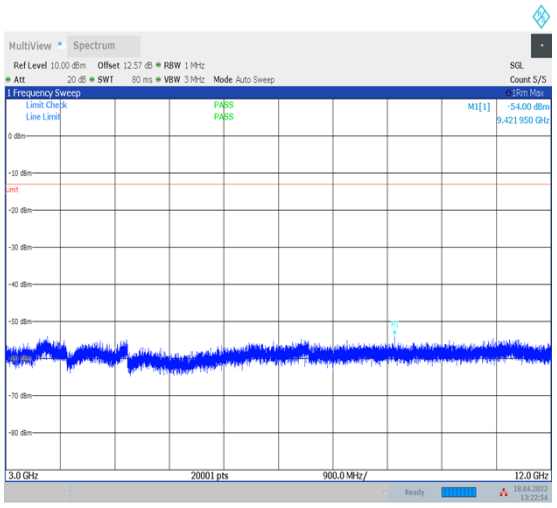

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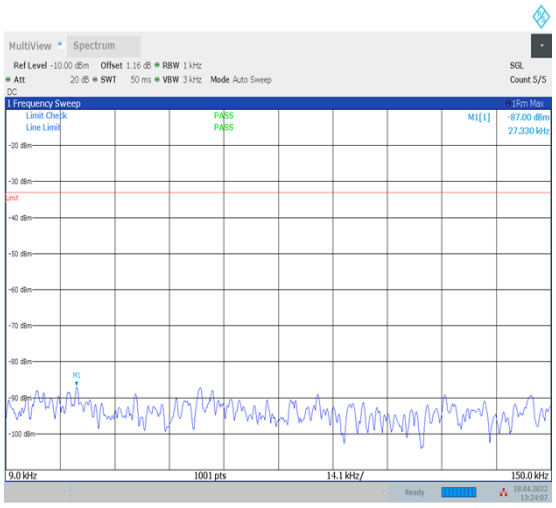

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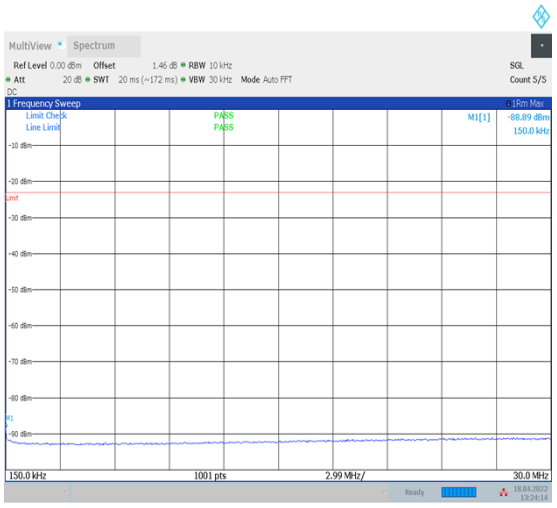

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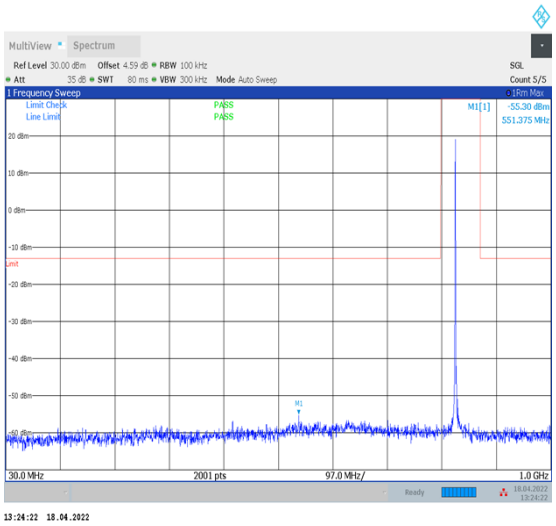
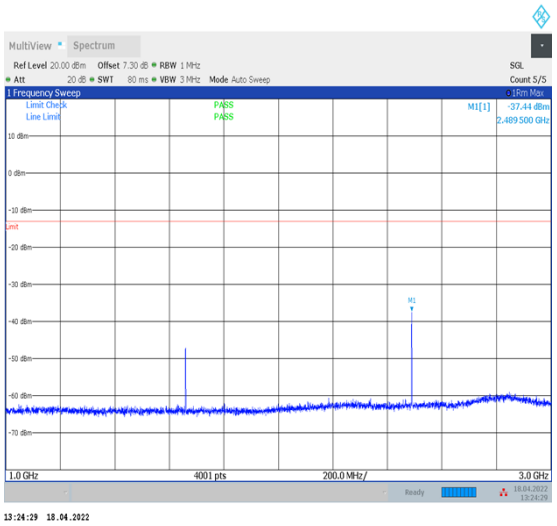
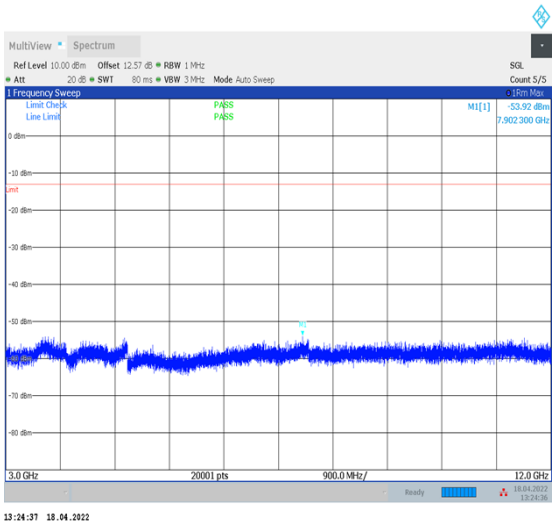


1-N5--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--55.30--13-PASS



1-N5--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--37.44--13-PASS



1-N5--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1--53.92--13-PASS

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Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation

Test Band = SA Band 5_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650	74.19	-118.07	-43.88	-13.00	30.88	263	211	Horizontal
2	2474	85.88	-114.37	-28.49	-13.00	15.49	251	115	Horizontal
3	3300.36	51.91	-111.89	-59.98	-13.00	46.98	174	115	Horizontal
4	4125.45	49.12	-109.79	-60.67	-13.00	47.67	265	200	Horizontal
5	4950.54	51.88	-107.85	-55.97	-13.00	42.97	254	357	Horizontal
6	5775.63	50.85	-105.30	-54.45	-13.00	41.45	177	211	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	53.98	-118.06	-64.08	-13.00	51.08	263	343	Vertical
2	2475.27	52.10	-114.35	-62.25	-13.00	49.25	254	360	Vertical
3	3300.36	51.16	-111.89	-60.73	-13.00	47.73	174	360	Vertical
4	4125.45	50.25	-109.79	-59.54	-13.00	46.54	185	92	Vertical
5	4950.54	51.00	-107.85	-56.85	-13.00	43.85	264	360	Vertical
6	5775.63	50.10	-105.30	-55.20	-13.00	42.20	111	124	Vertical

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Test Band = SA Band 5_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654	69.13	-118.06	-48.93	-13.00	35.93	263	66	Horizontal
2	2482	87.58	-114.29	-26.71	-13.00	13.71	254	139	Horizontal
3	3310.36	52.44	-111.92	-59.48	-13.00	46.48	175	288	Horizontal
4	4137.95	49.67	-109.74	-60.07	-13.00	47.07	263	213	Horizontal
5	4965.54	51.39	-107.80	-56.41	-13.00	43.41	254	340	Horizontal
6	5793.13	51.34	-105.23	-53.89	-13.00	40.89	177	204	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.18	54.00	-118.05	-64.05	-13.00	51.05	142	84	Vertical
2	2460	59.80	-114.52	-54.72	-13.00	41.72	265	84	Vertical
3	3310.36	53.15	-111.92	-58.77	-13.00	45.77	284	190	Vertical
4	4137.95	50.45	-109.74	-59.29	-13.00	46.29	176	360	Vertical
5	4965.54	51.12	-107.80	-56.68	-13.00	43.68	263	318	Vertical
6	5793.13	52.01	-105.23	-53.22	-13.00	40.22	322	360	Vertical

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Test Band = SA Band 5_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660	65.76	-118.04	-52.28	-13.00	39.28	262	160	Horizontal
2	2488	82.59	-114.23	-31.64	-13.00	18.64	251	234	Horizontal
3	3320.36	52.19	-111.94	-59.75	-13.00	46.75	174	96	Horizontal
4	4150.45	50.16	-109.67	-59.51	-13.00	46.51	186	251	Horizontal
5	4980.54	51.16	-107.74	-56.58	-13.00	43.58	264	356	Horizontal
6	5810.63	51.93	-105.13	-53.20	-13.00	40.20	188	212	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	54.19	-118.04	-63.85	-13.00	50.85	241	179	Vertical
2	2490.27	52.25	-114.18	-61.93	-13.00	48.93	175	114	Vertical
3	3320.36	50.96	-111.94	-60.98	-13.00	47.98	262	114	Vertical
4	4150.45	49.13	-109.67	-60.54	-13.00	47.54	251	359	Vertical
5	4980.54	51.28	-107.74	-56.46	-13.00	43.46	144	179	Vertical
6	5810.63	51.77	-105.13	-53.36	-13.00	40.36	186	345	Vertical

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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	0.700000	0.000837	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.000000	-0.002391	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	4.500000	0.005380	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	2.400000	0.002869	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	2.600000	0.003108	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	39.000000	0.046623	PASS

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Frequency Error VS. Temperature

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	3.400000	0.004065	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	3.800000	0.004543	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	5.900000	0.007053	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	2.200000	0.002630	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	4.200000	0.005021	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-1.300000	-0.001554	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	6.900000	0.008249	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	7.800000	0.009325	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	2.700000	0.003228	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	11.600000	0.013867	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	5.500000	0.006575	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	12.400000	0.014824	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	6.700000	0.008010	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	6.200000	0.007412	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	9.200000	0.010998	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	2.300000	0.002750	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	9.900000	0.011835	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	2.200000	0.002630	PASS

---End of Attachment---

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