

Report No.: SEWM2311000466RG02

Rev.: 01

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Appendix B.20

NR Band n26(814-824)



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Transmitter Conducted Power Output

Test Result

Ant0

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Limit	Verdict
N26-814-824	15	5	DFT-QPSK	L	Inner_1RB_Left	24.05	50.00	PASS
N26-814-824	15	5	DFT-16QAM	L	Inner_1RB_Left	23.37	50.00	PASS
N26-814-824	15	5	DFT-QPSK	M	Inner_1RB_Left	24.11	50.00	PASS
N26-814-824	15	5	DFT-16QAM	M	Inner_1RB_Left	23.48	50.00	PASS
N26-814-824	15	5	DFT-QPSK	H	Inner_1RB_Left	24.13	50.00	PASS
N26-814-824	15	5	DFT-16QAM	H	Inner_1RB_Left	23.45	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	24.11	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	24.10	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Outer_Full	23.80	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Inner_1RB_Left	24.14	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Inner_1RB_Right	24.11	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Outer_Full	23.28	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Inner_1RB_Left	23.38	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Inner_1RB_Right	23.42	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Outer_Full	22.29	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Inner_1RB_Left	21.94	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Inner_1RB_Right	21.99	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Outer_Full	21.77	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Inner_1RB_Left	19.72	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Inner_1RB_Right	19.73	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Outer_Full	19.72	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.13	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.13	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	23.80	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Left	24.11	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Right	24.15	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	23.68	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Left	23.32	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Right	23.41	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	23.21	50.00	PASS



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N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Left	21.78	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Right	21.89	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	21.76	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Left	19.68	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Right	19.72	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	19.74	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	24.12	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	24.12	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Outer_Full	23.80	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Inner_1RB_Left	24.12	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Inner_1RB_Right	24.15	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Outer_Full	23.89	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Inner_1RB_Left	23.56	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Inner_1RB_Right	23.41	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Outer_Full	22.78	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Inner_1RB_Left	21.56	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Inner_1RB_Right	21.44	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Outer_Full	21.26	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Inner_1RB_Left	19.66	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Inner_1RB_Right	19.70	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Outer_Full	19.71	50.00	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N26-814-824	15	10	DFT-256QAM	L	Outer_Full	6.49	13	PASS
N26-814-824	15	10	CP-256QAM	L	Outer_Full	6.65	13	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	6.46	13	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	6.66	13	PASS
N26-814-824	15	10	DFT-256QAM	H	Outer_Full	6.46	13	PASS
N26-814-824	15	10	CP-256QAM	H	Outer_Full	6.56	13	PASS



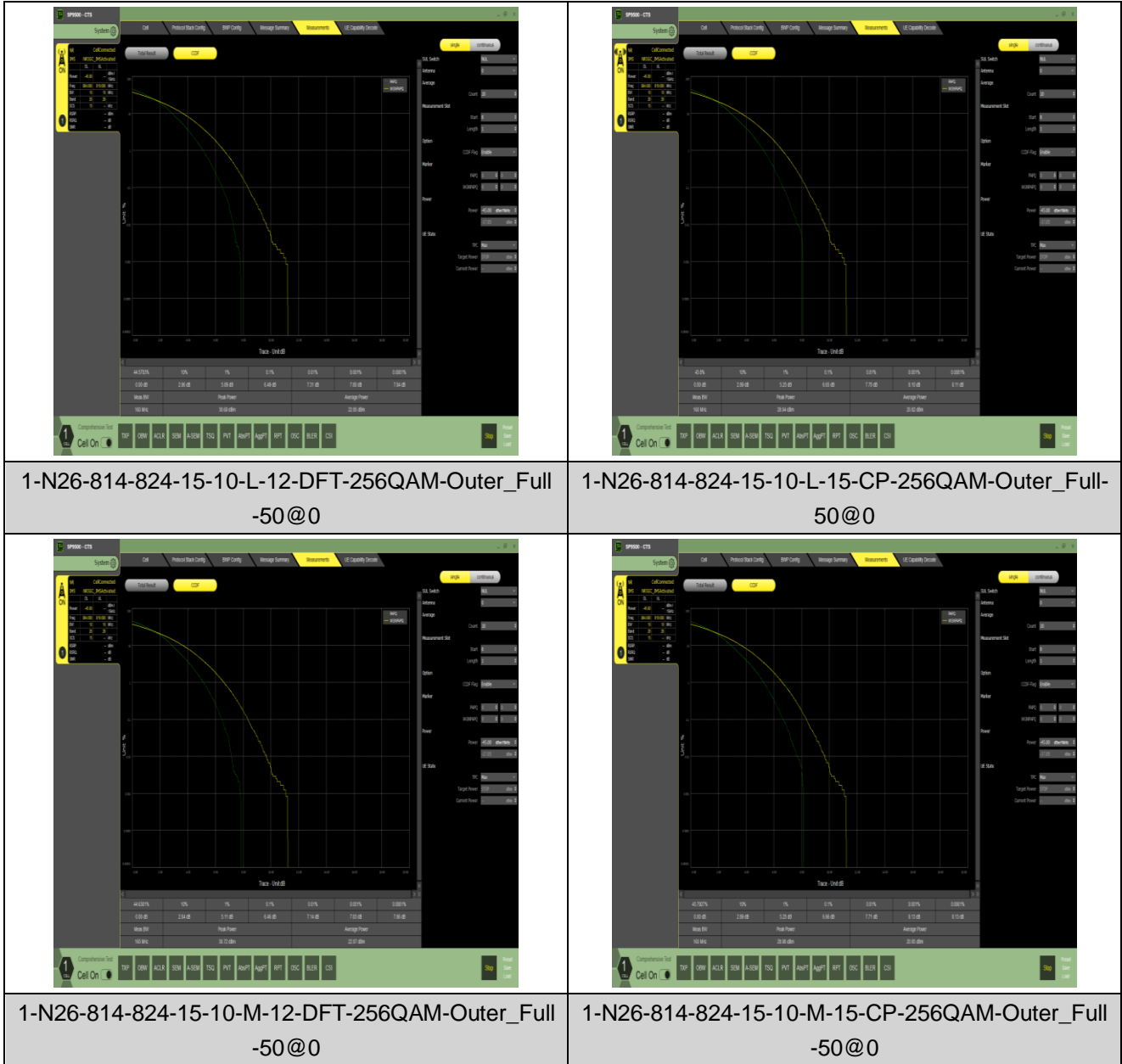
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Test Graphs



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1-N26-814-824-15-10-H-12-DFT-256QAM-Outer_Full
-50@0

1-N26-814-824-15-10-H-15-CP-256QAM-Outer_Full
-50@0



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	4.516	4.950	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	Outer_Full	4.505	4.940	PASS
N26-814-824	15	5	DFT-16QAM	M	Outer_Full	4.493	4.930	PASS
N26-814-824	15	5	DFT-64QAM	M	Outer_Full	4.506	4.950	PASS
N26-814-824	15	5	DFT-256QAM	M	Outer_Full	4.501	4.950	PASS
N26-814-824	15	5	CP-QPSK	M	Outer_Full	4.482	4.940	PASS
N26-814-824	15	5	CP-16QAM	M	Outer_Full	4.496	4.930	PASS
N26-814-824	15	5	CP-64QAM	M	Outer_Full	4.499	4.980	PASS
N26-814-824	15	5	CP-256QAM	M	Outer_Full	4.489	4.950	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	8.901	9.400	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	8.94	9.420	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	8.899	9.380	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	8.921	9.440	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	8.909	9.380	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	9.271	9.780	PASS
N26-814-824	15	10	CP-16QAM	M	Outer_Full	9.285	9.820	PASS
N26-814-824	15	10	CP-64QAM	M	Outer_Full	9.27	9.780	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	9.259	9.800	PASS



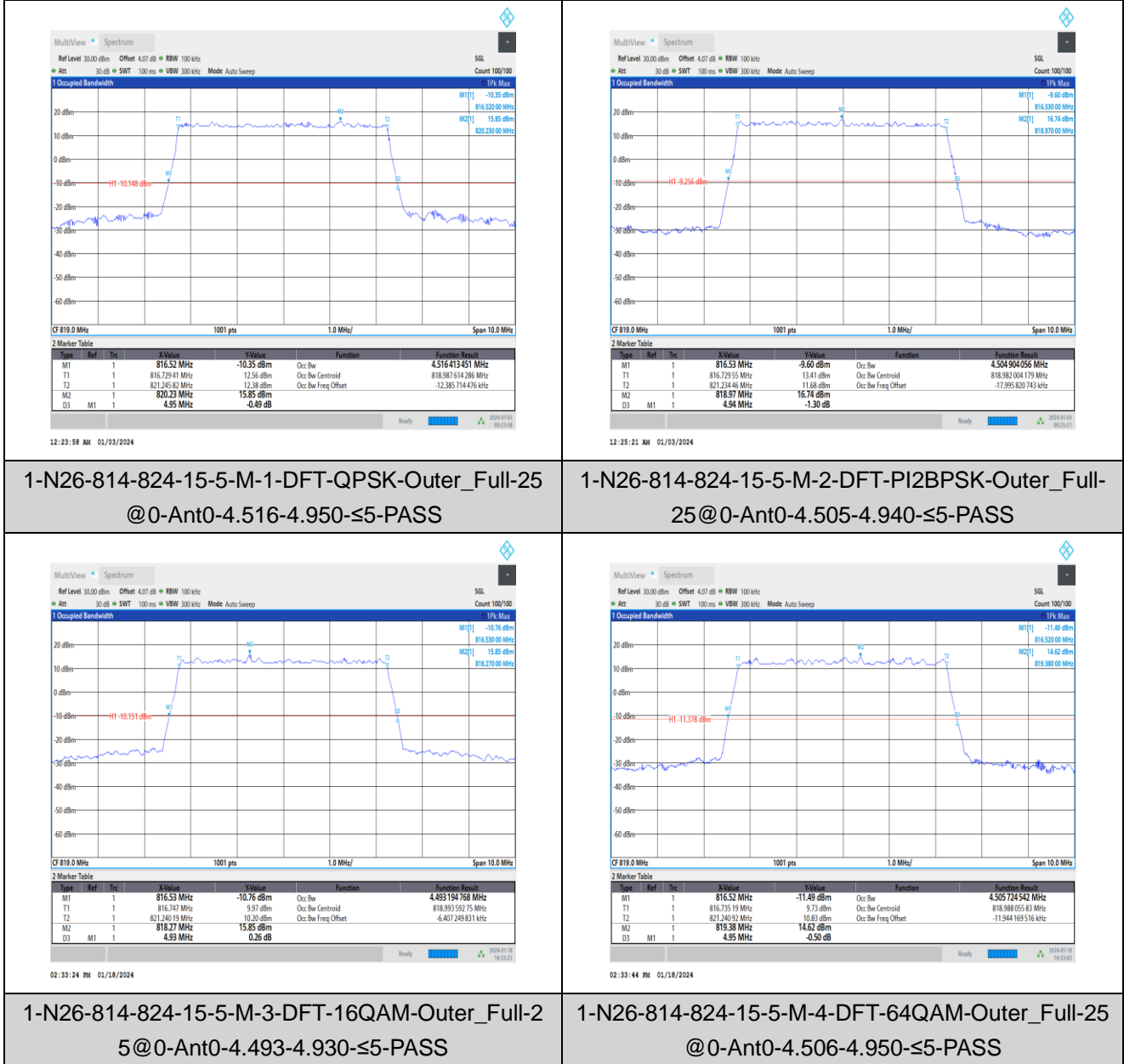
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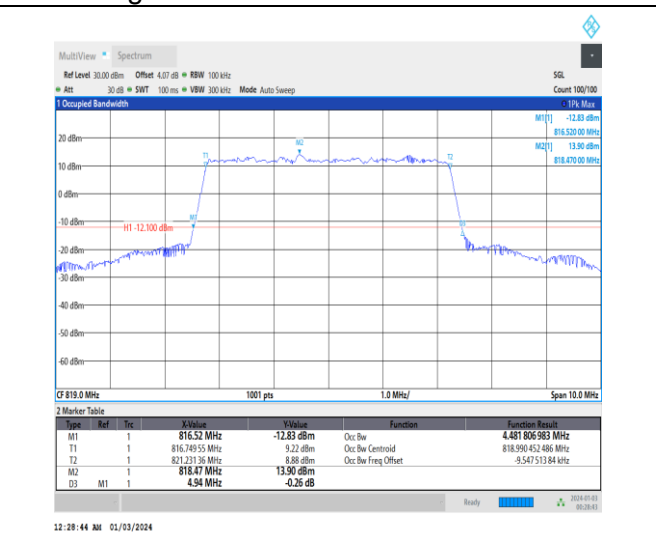
Test Graphs



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1-N26-814-824-15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant0-4.501-4.950-≤5-PASS

1-N26-814-824-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant0-4.482-4.940-≤5-PASS



1-N26-814-824-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant0-4.496-4.930-≤5-PASS

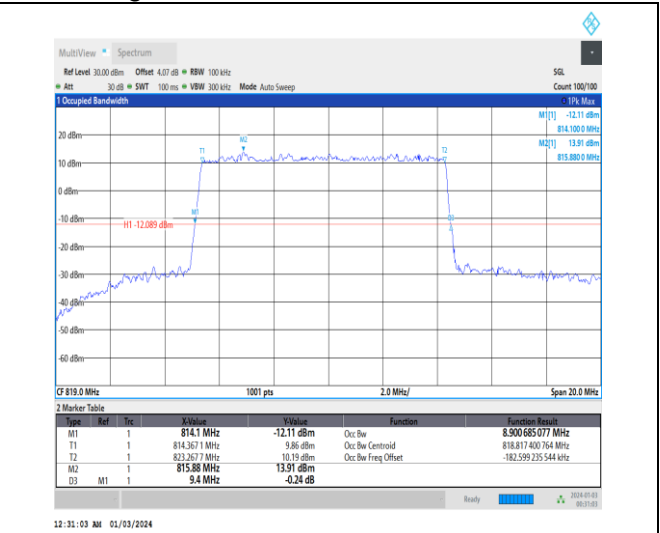
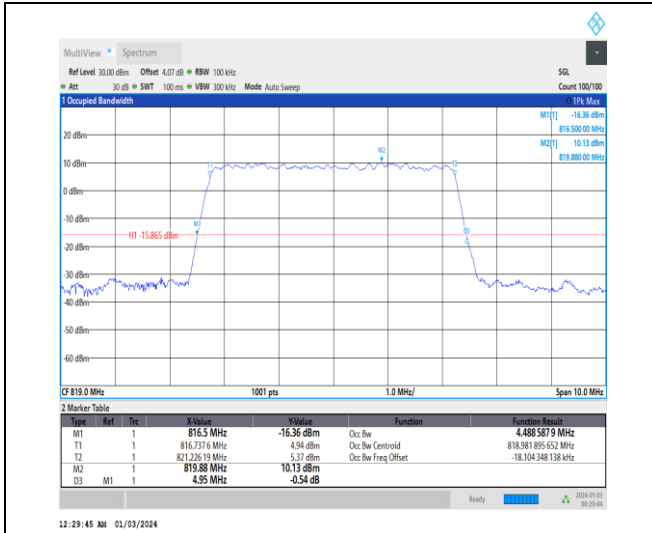
1-N26-814-824-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant0-4.499-4.980-≤5-PASS



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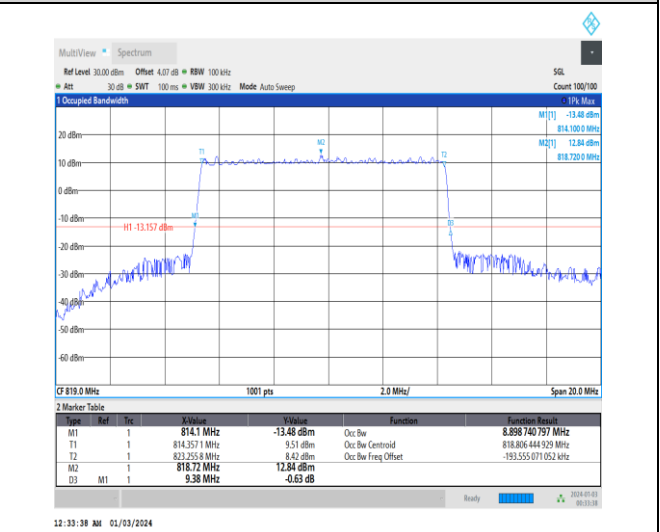
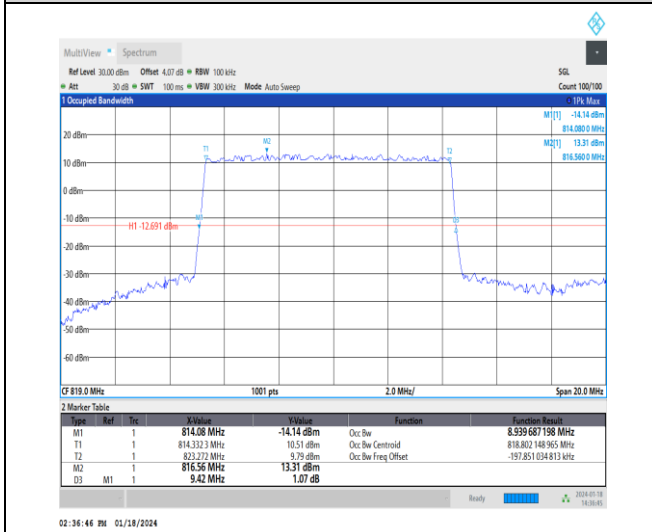
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1-N26-814-824-15-5-M-9-CP-256QAM-Outer_Full-2
5@0-Ant0-4.489-4.950-≤5-PASS

1-N26-814-824-15-10-M-1-DFT-QPSK-Outer_Full-50
@0-Ant0-8.901-9.400-≤10-PASS



1-N26-814-824-15-10-M-2-DFT-PI2BPSK-Outer_Full-50
@0-Ant0-8.94-9.420-≤10-PASS

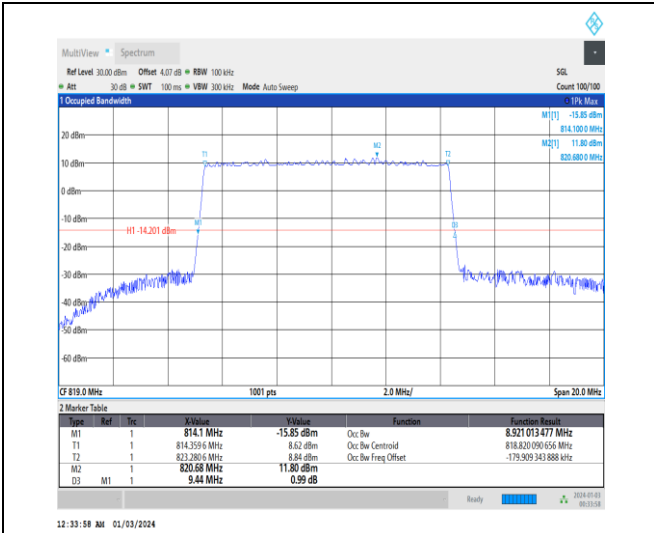
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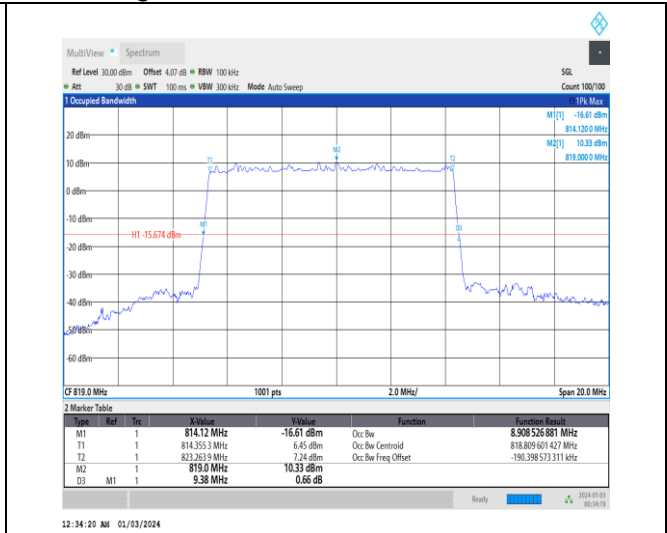
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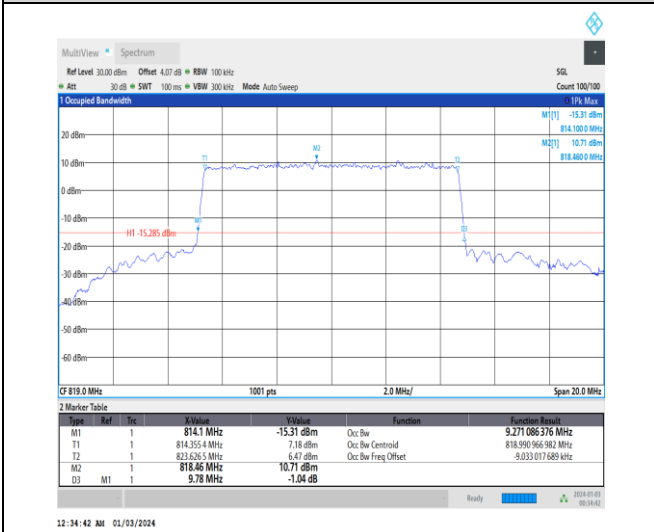
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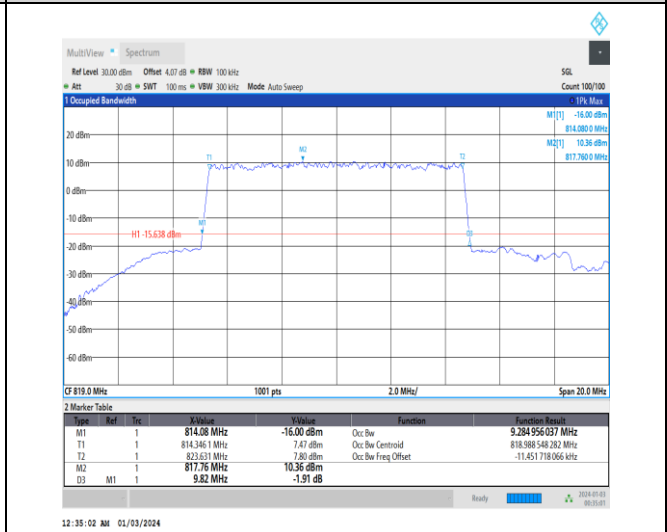
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1-N26-814-824-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant0-8.909-9.380-≤10-PASS



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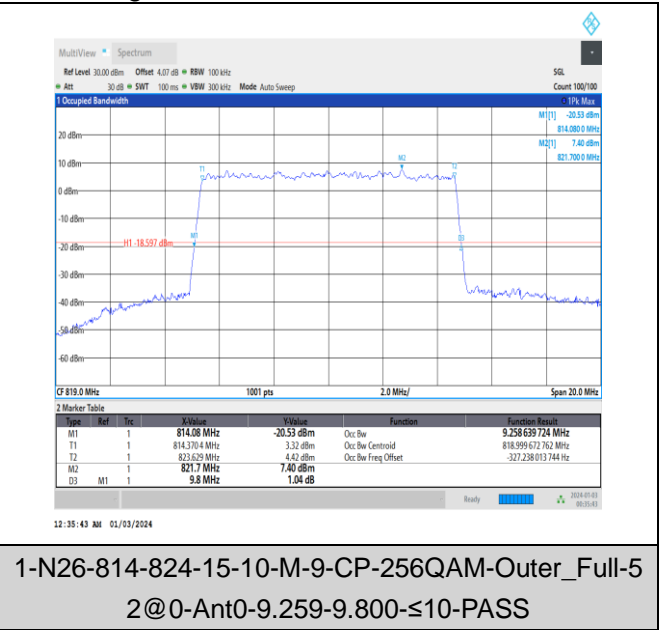
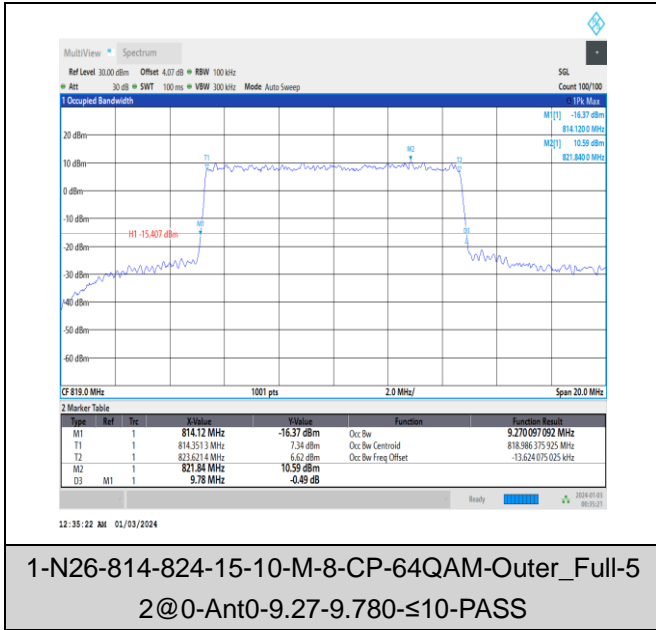
1-N26-814-824-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant0-9.285-9.820-≤10-PASS



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1-N26-814-824-15-10-M-8-CP-64QAM-Outer_Full-5
2@0-Ant0-9.27-9.780≤10-PASS

1-N26-814-824-15-10-M-9-CP-256QAM-Outer_Full-5
2@0-Ant0-9.259-9.800≤10-PASS



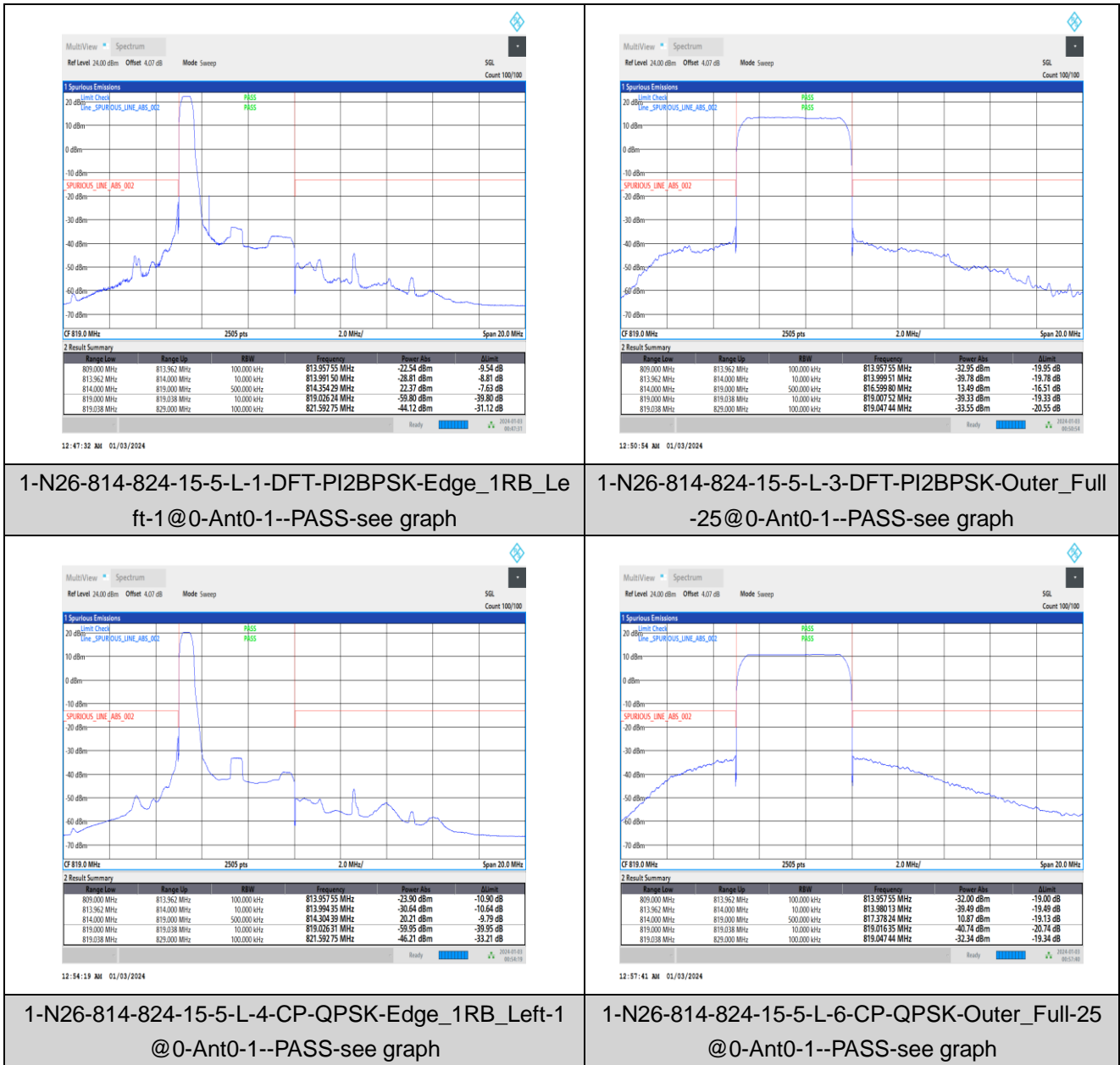
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Band Edge for SA

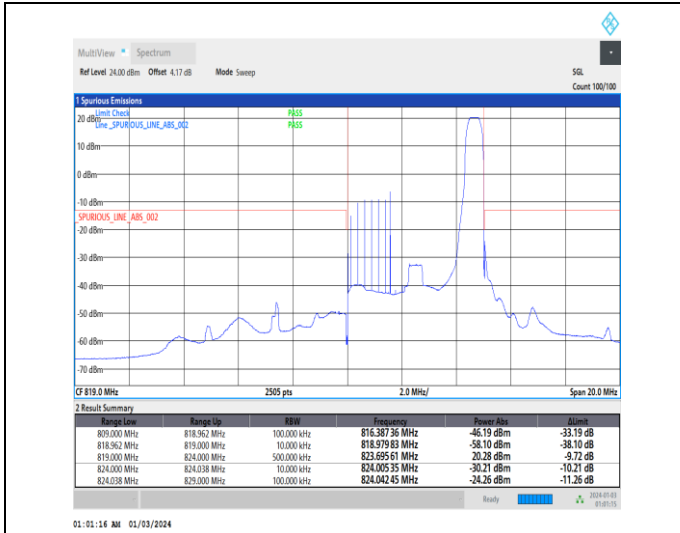
Test Graphs



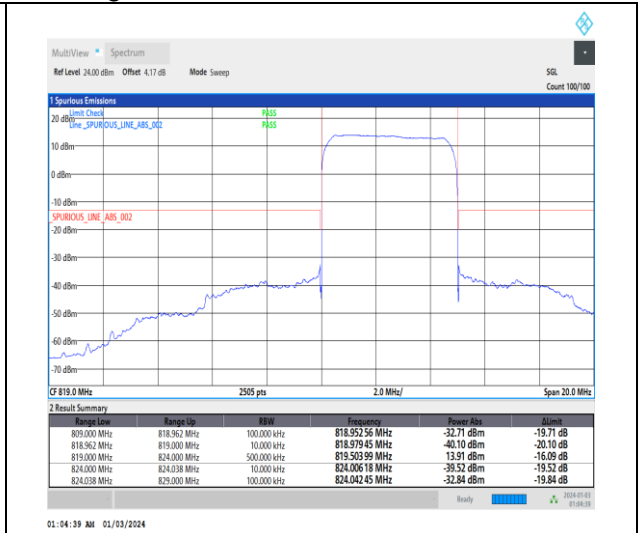
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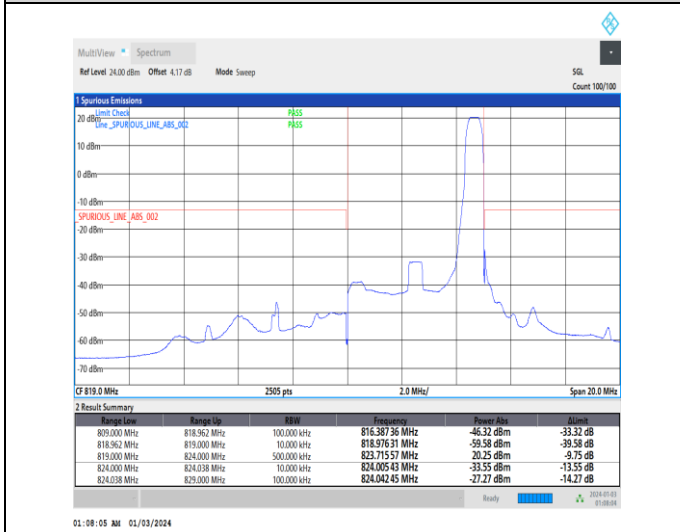
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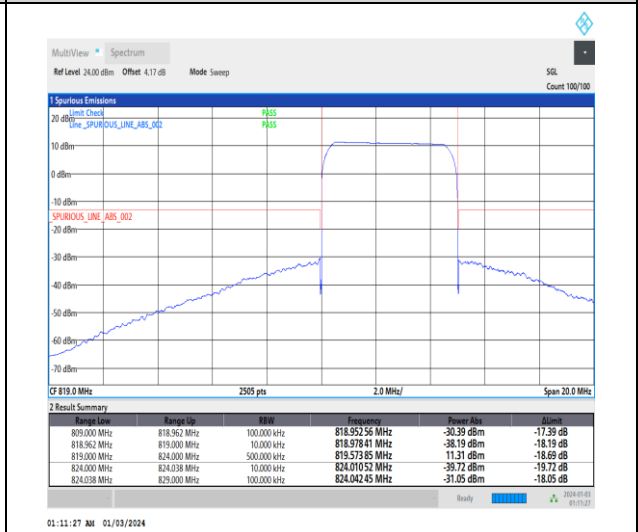
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1-N26-814-824-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant0-1--PASS-see graph



1-N26-814-824-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant0-1--PASS-see graph



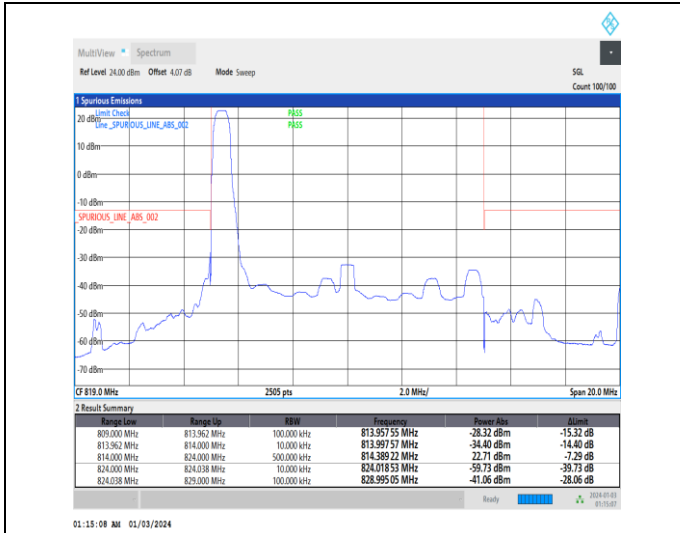
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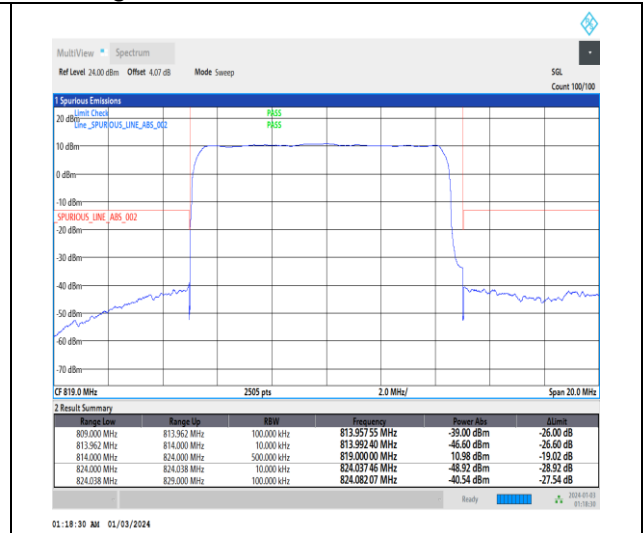
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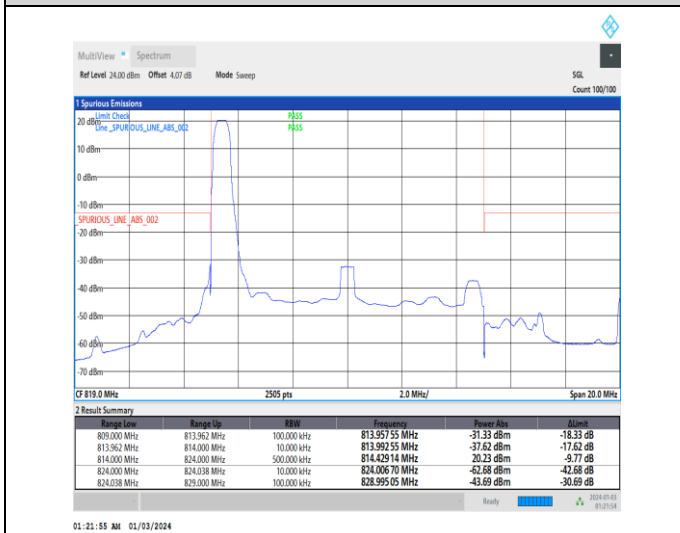
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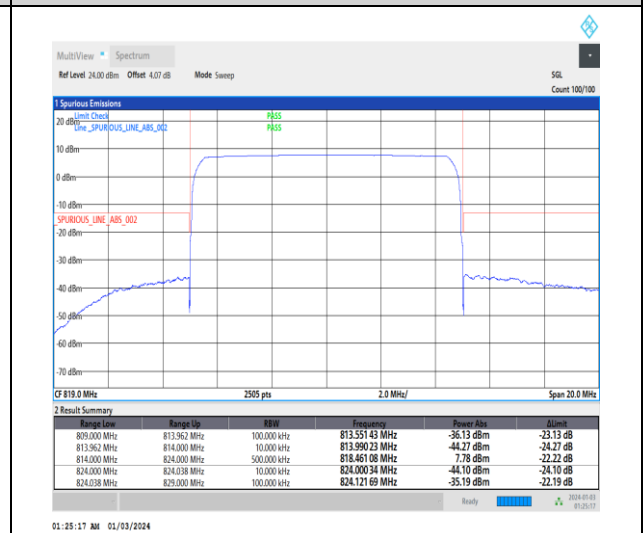
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1-N26-814-824-15-10-L-3-DFT-PI2BPSK-Outer_F ull-50@0-Ant0-1--PASS-see graph



1-N26-814-824-15-10-L-4-CP-QPSK-Edge_1RB_Left-1 @0-Ant0-1--PASS-see graph



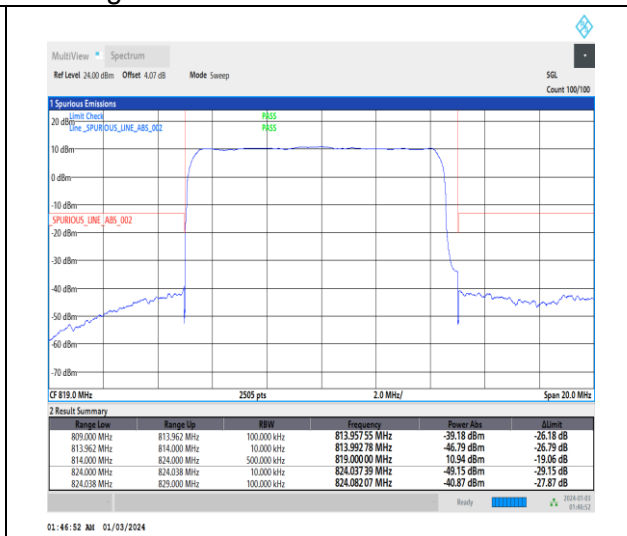
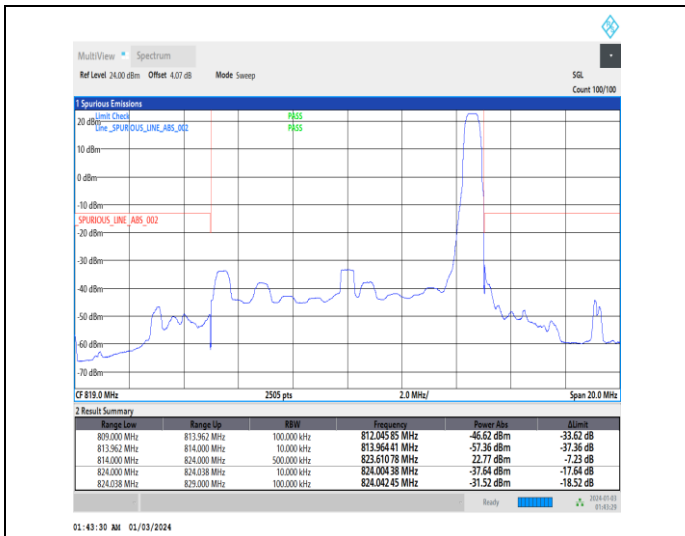
1-N26-814-824-15-10-L-6-CP-QPSK-Outer_Full-5 2@0-Ant0-1--PASS-see graph



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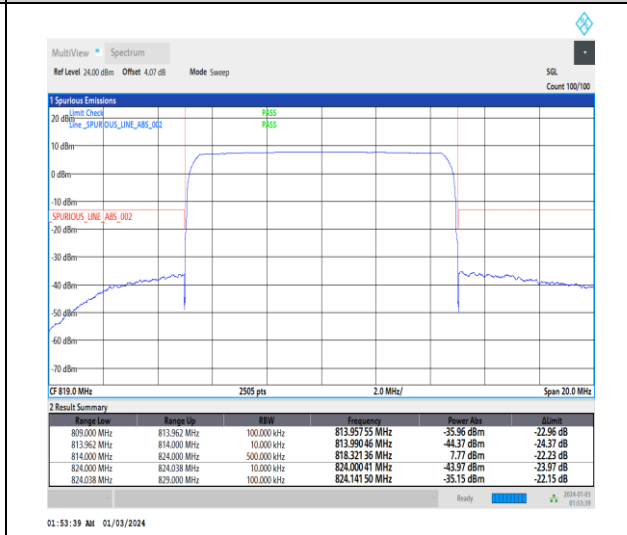
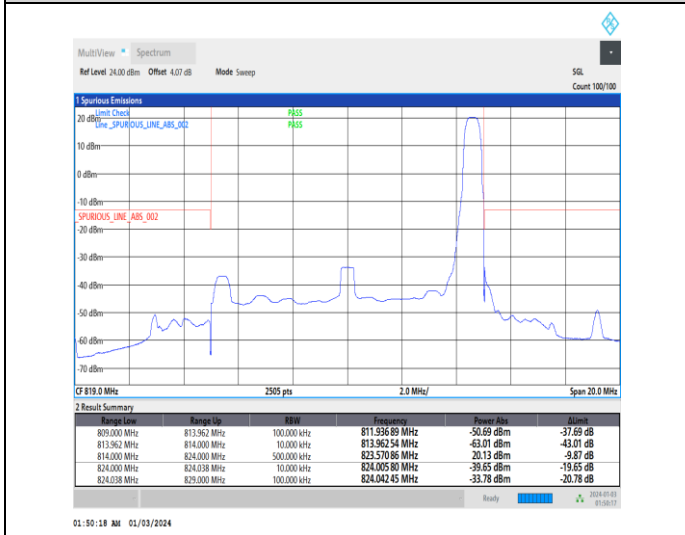
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1-N26-814-824-15-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@51-Ant0-1--PASS-see graph

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1-N26-814-824-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant0-1--PASS-see graph

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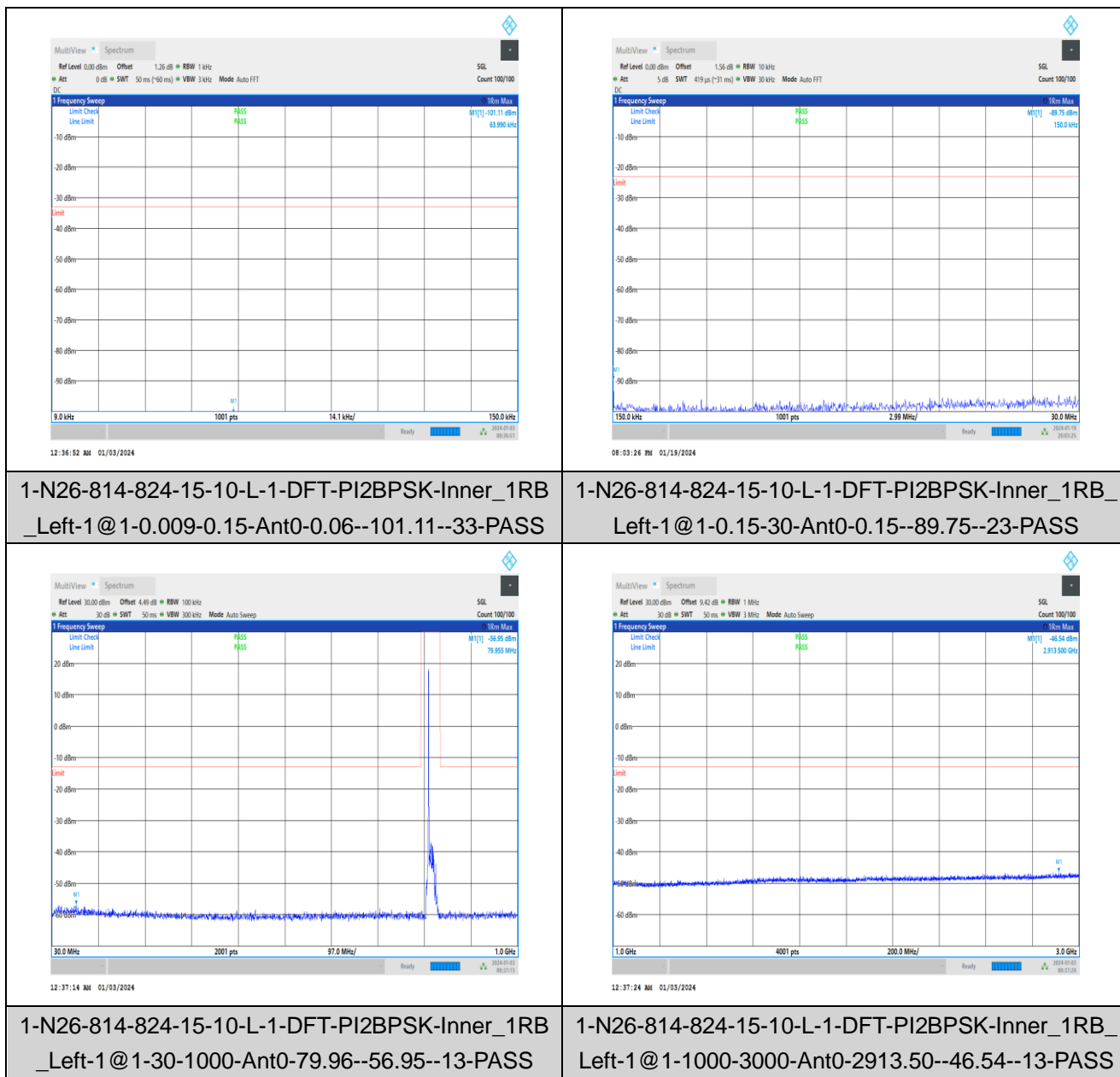
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Conducted Spurious Emission for SA

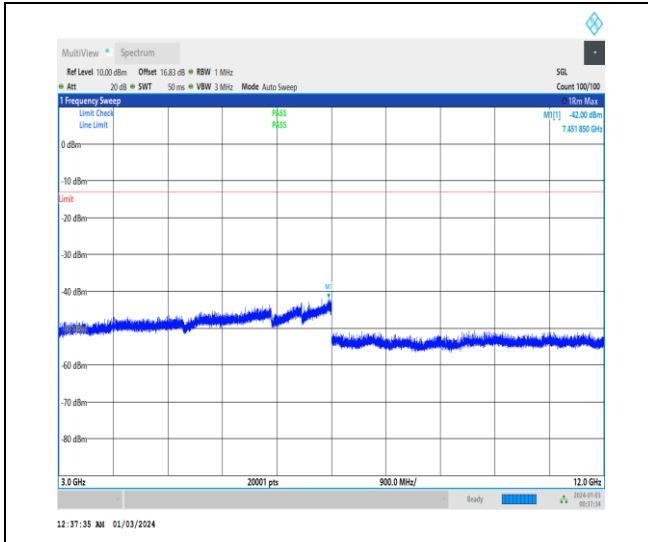
Test Graphs



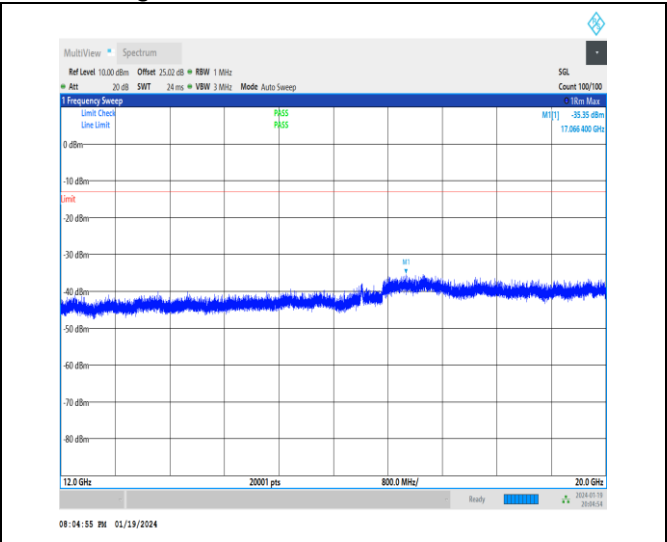
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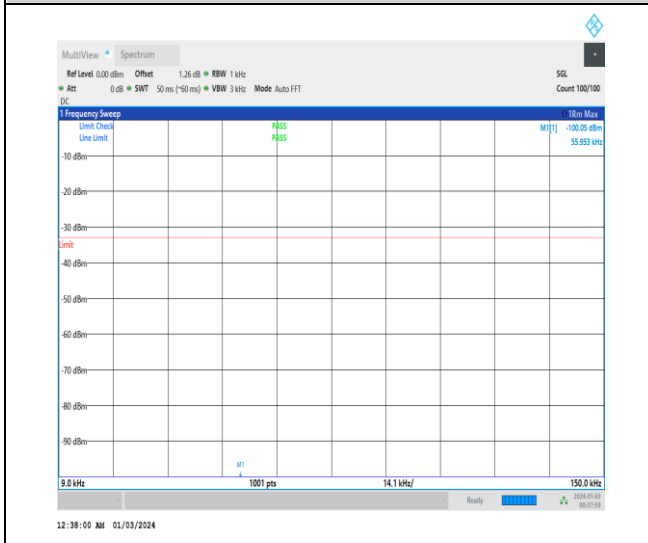
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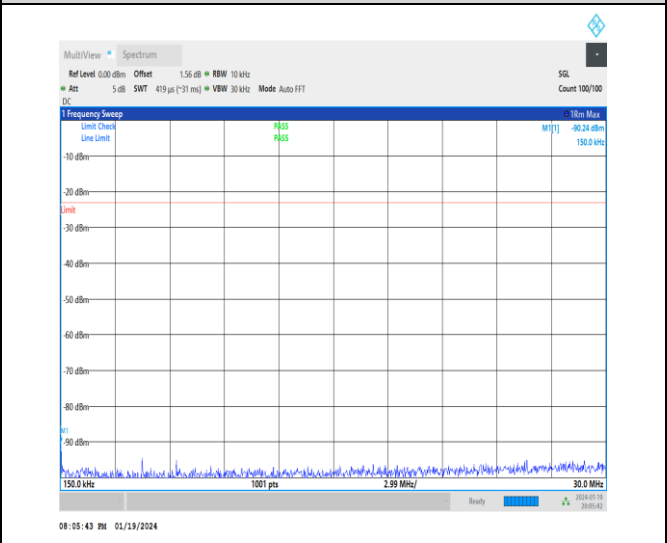
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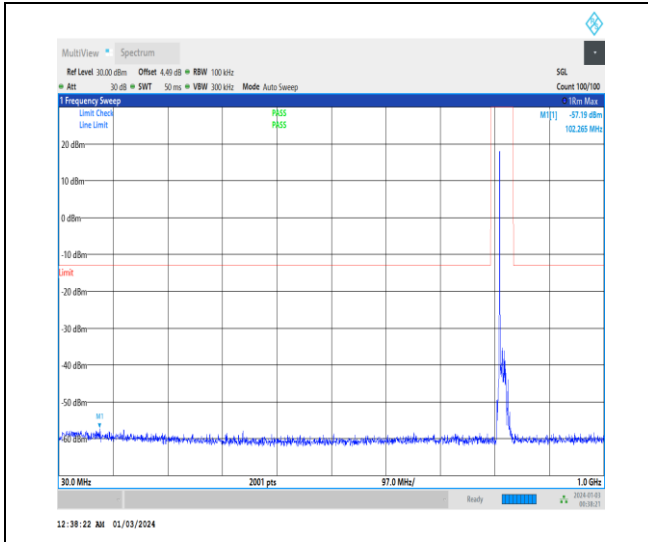
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_Left-1@1-0.15-30-Ant0-0.15--90.24--23-PASS



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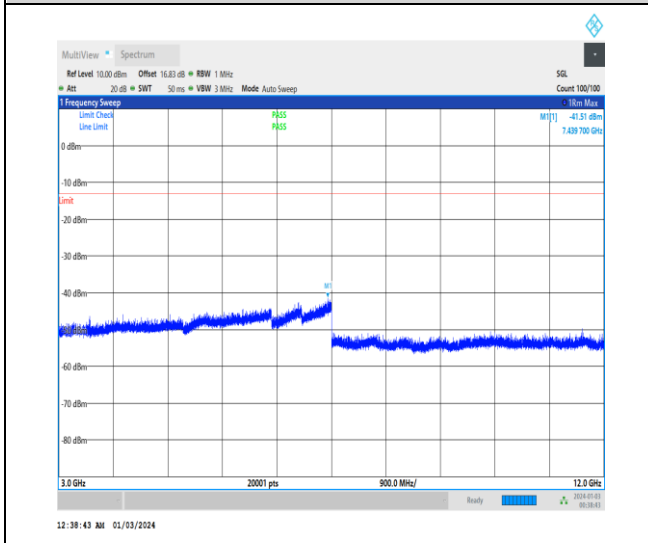
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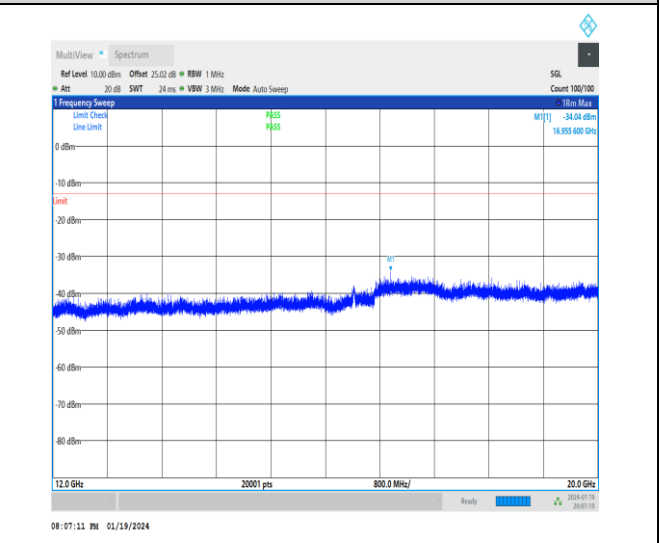
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1-N26-814-824-15-10-M-1-DFT-PI2BPSK-Inner_1RB
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S



1-N26-814-824-15-10-M-1-DFT-PI2BPSK-Inner_1R
B_Left-1@1-3000-12000-Ant0-7439.70--41.51--13-P
ASS



1-N26-814-824-15-10-M-1-DFT-PI2BPSK-Inner_1RB
_Left-1@1-12000-20000-Ant0-17132.00--36.88--13-P
ASS

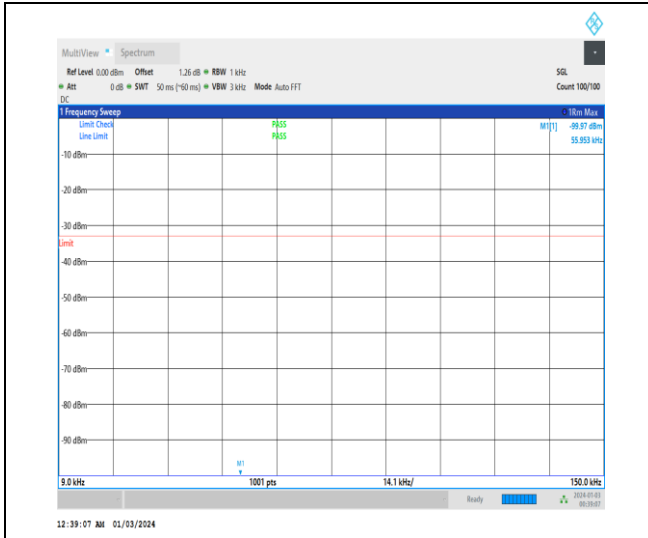


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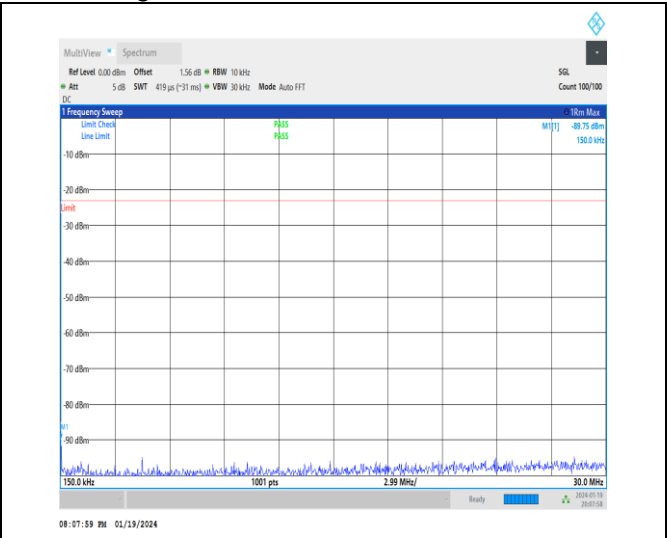
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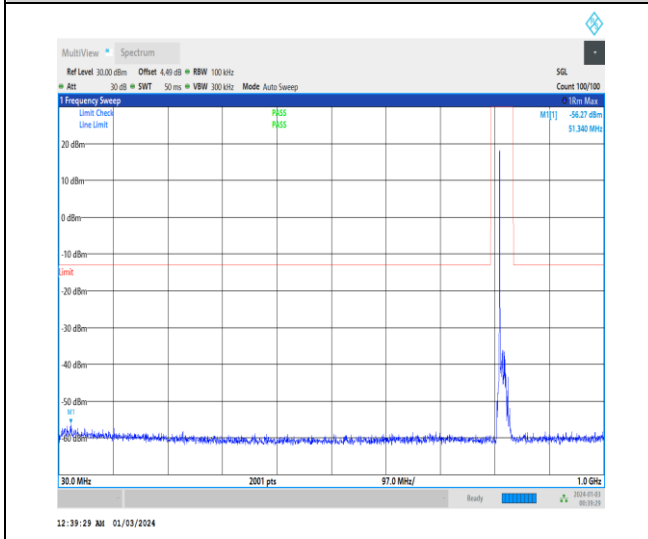
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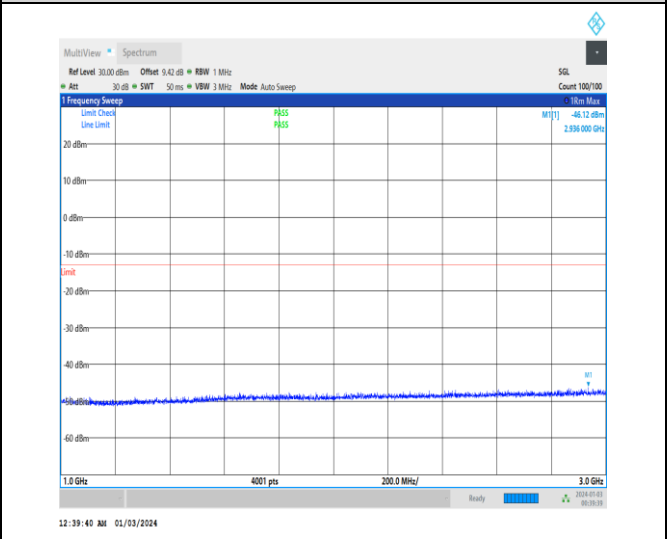
1-N26-814-824-15-10-H-1-DFT-PI2BPSK-Inner_1R
B_Left-1@1-0.009-0.15-Ant0-0.06--99.97--33-PASS



1-N26-814-824-15-10-H-1-DFT-PI2BPSK-Inner_1RB
_Left-1@1-0.15-30-Ant0-0.15--89.75--23-PASS



1-N26-814-824-15-10-H-1-DFT-PI2BPSK-Inner_1R
B_Left-1@1-30-1000-Ant0-51.34--56.27--13-PASS



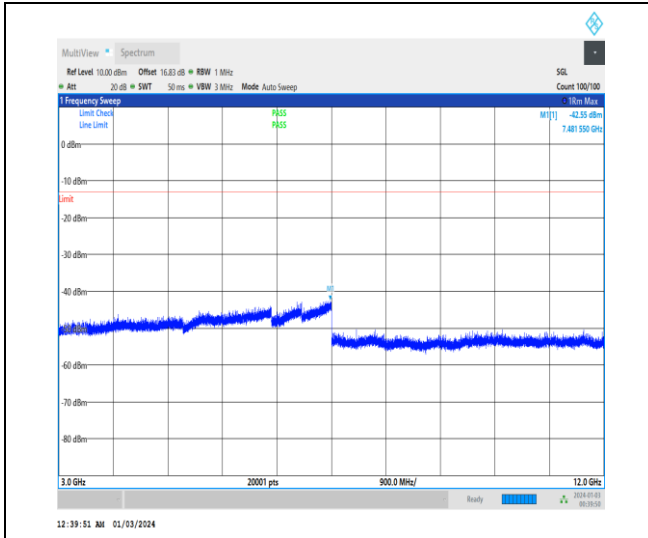
1-N26-814-824-15-10-H-1-DFT-PI2BPSK-Inner_1RB
_Left-1@1-1000-3000-Ant0-2936.00--46.12--13-PASS



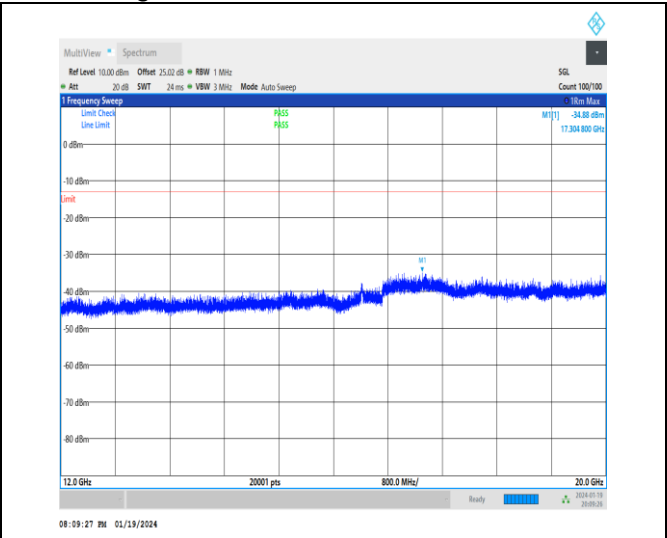
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1-N26-814-824-15-10-H-1-DFT-PI2BPSK-Inner_1R
B_Left-1@1-3000-12000-Ant0-7481.55--42.55--13-P
ASS



1-N26-814-824-15-10-H-1-DFT-PI2BPSK-Inner_1RB
_Left-1@1-12000-20000-Ant0-17304.80--34.88--13-P
ASS



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Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation

Test Band = SA Band26_10M_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1752.5714	56.46	-48.05	25.43	-61.42	-13.00	48.42	Horizontal
2	2420	45.54	-47.41	27.08	-70.06	-13.00	57.06	Horizontal
3	3074.8571	42.39	-46.69	28.34	-71.22	-13.00	58.22	Horizontal
4	4316.5714	40.65	-45.80	29.86	-70.55	-13.00	57.55	Horizontal
5	6484.5714	39.32	-44.66	34.25	-66.35	-13.00	53.35	Horizontal
6	7007.4286	38.35	-43.62	35.22	-65.31	-13.00	52.31	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1274.8571	43.56	-48.24	25.16	-74.78	-13.00	61.78	Vertical
2	1896	42.16	-48.05	25.69	-75.45	-13.00	62.45	Vertical
3	2858.2857	41.57	-46.72	28.02	-72.39	-13.00	59.39	Vertical
4	3671.4286	40.89	-46.20	28.77	-71.80	-13.00	58.80	Vertical
5	5233.1429	39.44	-45.09	31.96	-68.95	-13.00	55.95	Vertical
6	7307.4286	37.77	-43.45	36.06	-64.88	-13.00	51.88	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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Report No.: SEWM2311000466RG02

Rev.: 01

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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.200000	-0.001465	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	0.000000	0.000000	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.900000	-0.001099	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VH	NT	1.300000	0.001587	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VN	NT	-0.300000	-0.000366	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VL	NT	2.600000	0.003175	PASS



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

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	0.500000	0.000611	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.100000	-0.001343	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.400000	-0.001709	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.900000	-0.001099	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.700000	-0.003297	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-1.300000	-0.001587	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-0.900000	-0.001099	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-1.500000	-0.001832	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.600000	-0.001954	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-30	-0.400000	-0.000488	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-20	-0.200000	-0.000244	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-10	1.200000	0.001465	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	0	-0.700000	-0.000855	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	10	0.100000	0.000122	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	20	1.500000	0.001832	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	30	0.100000	0.000122	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	40	-1.100000	-0.001343	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	50	-2.300000	-0.002808	PASS

---End of Attachment---



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