

Report No.: SEWM2311000447RG02

Rev.: 01

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Appendix B.22

NR Band n26(814-824)



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Transmitter Conducted Power Output

Test Result

Ant41

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Limit	Verdict
N26-814-824	15	5	DFT-QPSK	L	Inner_1RB_Left	24.49	50.00	PASS
N26-814-824	15	5	DFT-16QAM	L	Inner_1RB_Left	23.38	50.00	PASS
N26-814-824	15	5	DFT-QPSK	M	Inner_1RB_Left	24.53	50.00	PASS
N26-814-824	15	5	DFT-16QAM	M	Inner_1RB_Left	23.50	50.00	PASS
N26-814-824	15	5	DFT-QPSK	H	Inner_1RB_Left	24.54	50.00	PASS
N26-814-824	15	5	DFT-16QAM	H	Inner_1RB_Left	23.44	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	24.42	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	24.70	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Outer_Full	24.07	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Inner_1RB_Left	24.32	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Inner_1RB_Right	24.54	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Outer_Full	23.81	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	23.55	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Outer_Full	23.14	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Inner_1RB_Left	22.51	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Inner_1RB_Right	22.67	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Outer_Full	22.48	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Inner_1RB_Left	20.97	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Inner_1RB_Right	21.21	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Outer_Full	21.58	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.42	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.64	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	24.10	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Left	24.33	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Right	24.59	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	23.63	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Left	23.41	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Right	23.56	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	22.65	50.00	PASS



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N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Left	22.51	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Right	22.64	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	21.53	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Left	20.90	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Right	21.08	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	21.51	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	24.45	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	24.59	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Outer_Full	23.46	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Inner_1RB_Left	24.36	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Inner_1RB_Right	24.56	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Outer_Full	23.73	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Inner_1RB_Left	23.53	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Inner_1RB_Right	23.66	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Outer_Full	23.11	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Inner_1RB_Left	22.52	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Inner_1RB_Right	22.66	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Outer_Full	22.48	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Inner_1RB_Left	20.96	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Inner_1RB_Right	21.22	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Outer_Full	21.56	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	M	Outer_Full	6.16	≤13	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	6.18	≤13	PASS



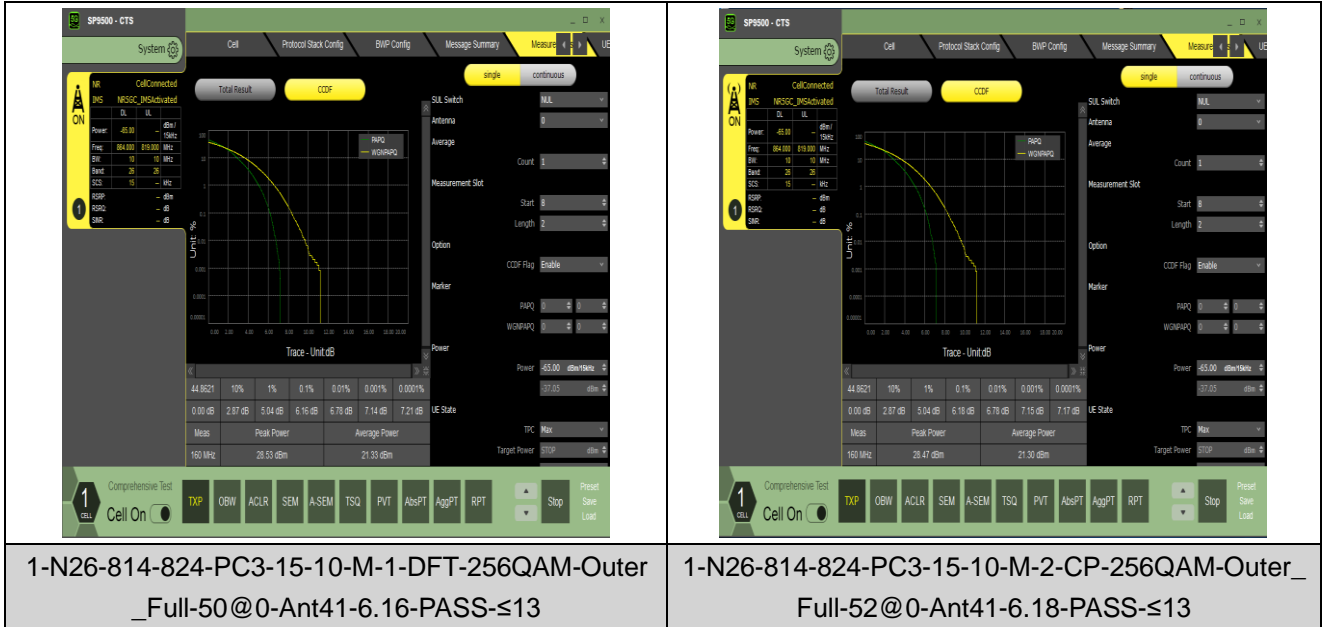
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Test Graphs



1-N26-814-824-PC3-15-10-M-1-DFT-256QAM-Outer
_Full-50@0-Ant41-6.16-PASS-≤13

1-N26-814-824-PC3-15-10-M-2-CP-256QAM-Outer_
Full-52@0-Ant41-6.18-PASS-≤13



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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	4.545	5.030	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	Outer_Full	4.585	5.340	PASS
N26-814-824	15	5	DFT-16QAM	M	Outer_Full	4.555	5.090	PASS
N26-814-824	15	5	DFT-64QAM	M	Outer_Full	4.575	5.150	PASS
N26-814-824	15	5	DFT-256QAM	M	Outer_Full	4.545	5.120	PASS
N26-814-824	15	5	CP-QPSK	M	Outer_Full	4.565	5.170	PASS
N26-814-824	15	5	CP-16QAM	M	Outer_Full	4.625	5.270	PASS
N26-814-824	15	5	CP-64QAM	M	Outer_Full	4.565	5.350	PASS
N26-814-824	15	5	CP-256QAM	M	Outer_Full	4.545	5.050	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	8.991	9.780	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	8.951	9.560	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	8.971	9.620	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	8.971	9.720	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	8.951	9.640	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	9.251	9.980	PASS
N26-814-824	15	10	CP-16QAM	M	Outer_Full	9.291	10.000	PASS
N26-814-824	15	10	CP-64QAM	M	Outer_Full	9.291	10.060	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	9.311	10.260	PASS

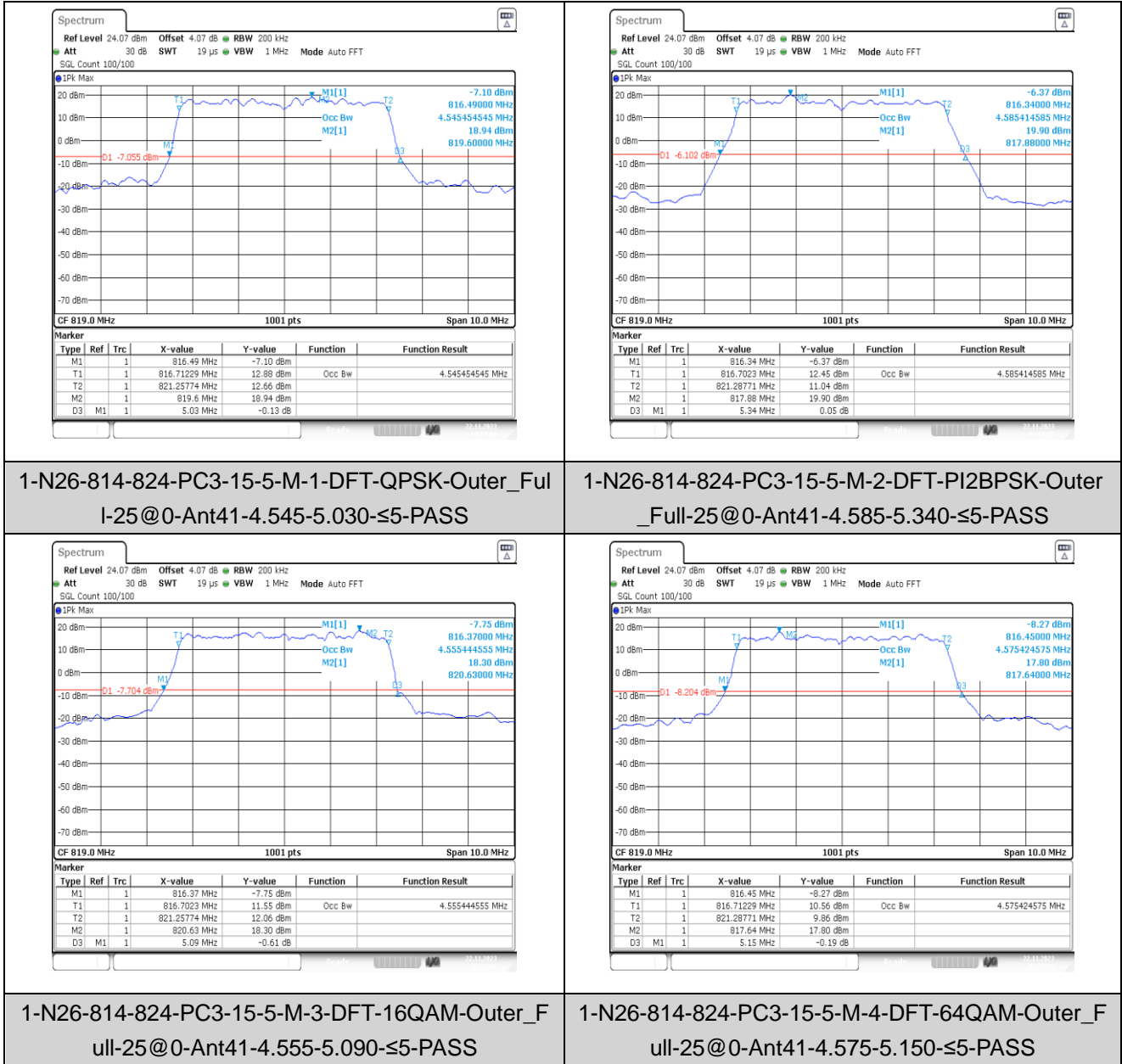


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Test Graphs

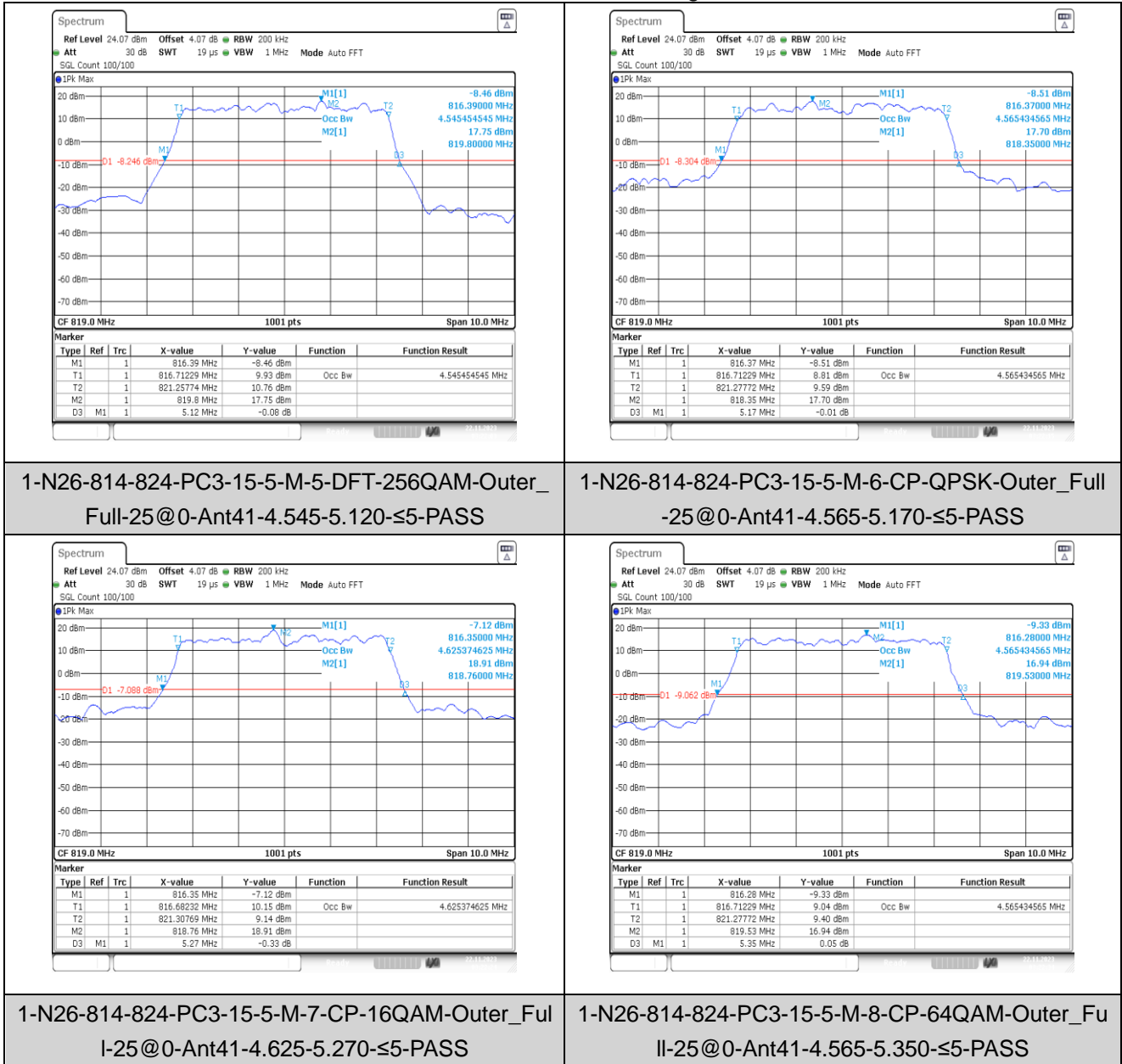


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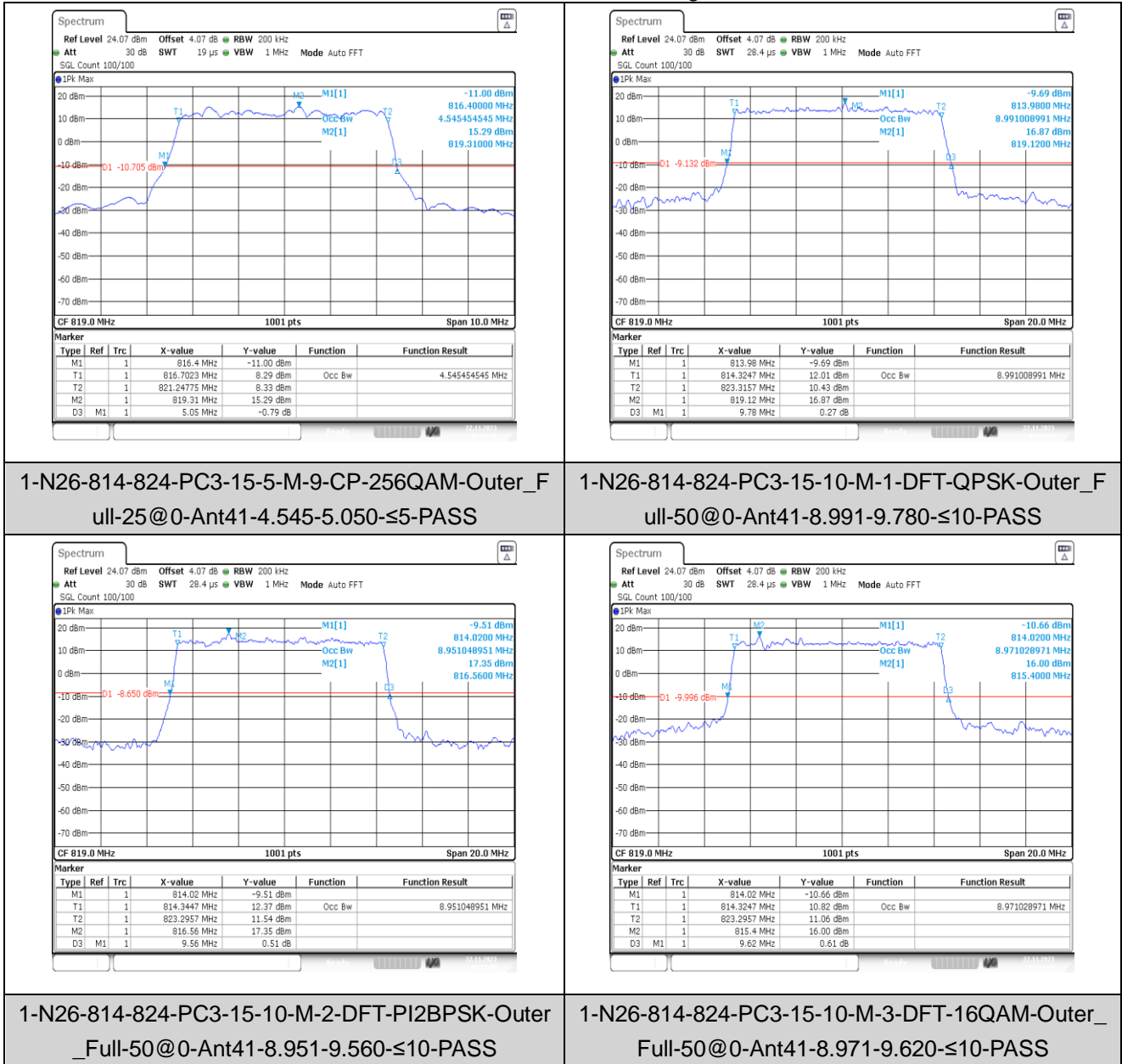
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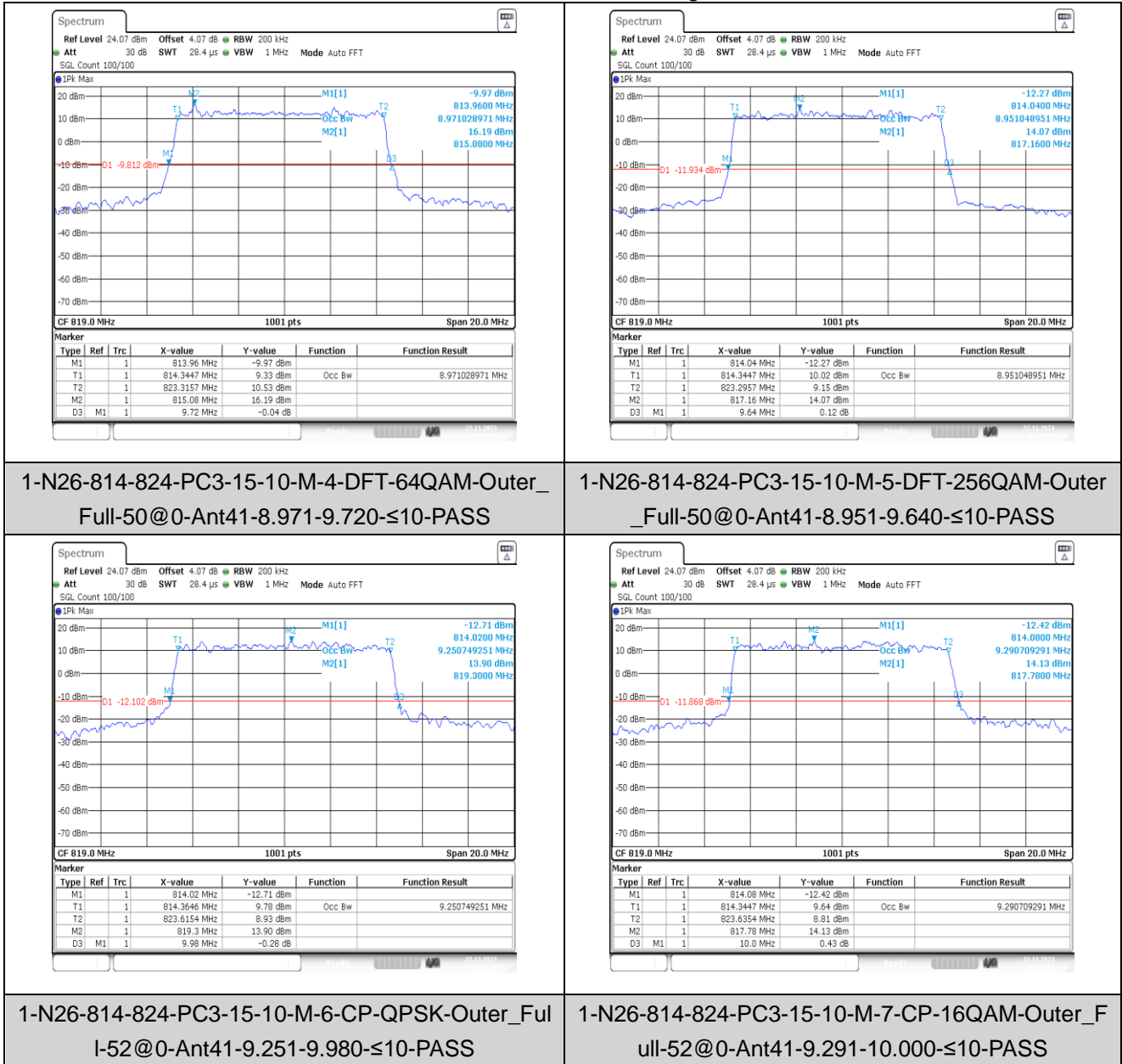
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1-N26-814-824-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant41-8.971-9.720-≤10-PASS

1-N26-814-824-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant41-8.951-9.640-≤10-PASS

1-N26-814-824-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant41-9.251-9.980-≤10-PASS

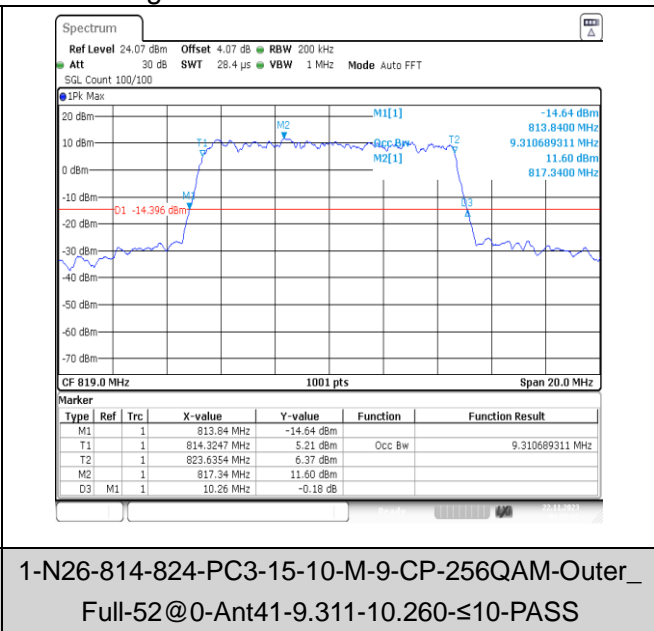
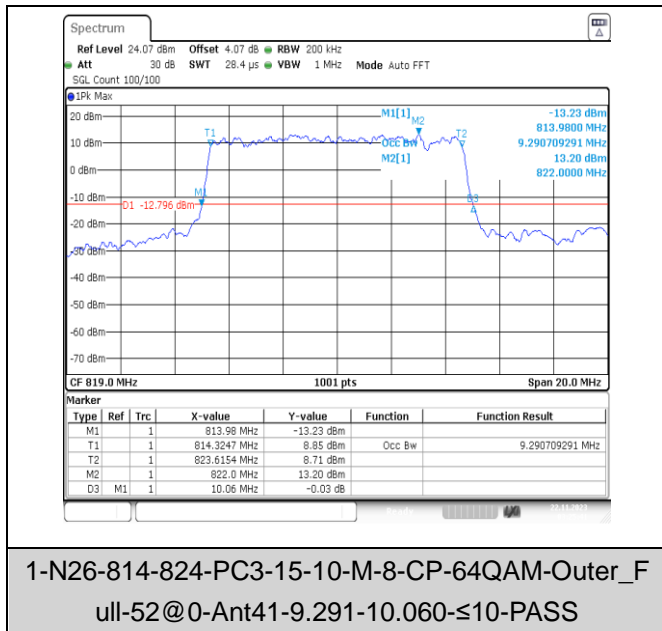
1-N26-814-824-PC3-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant41-9.291-10.000-≤10-PASS



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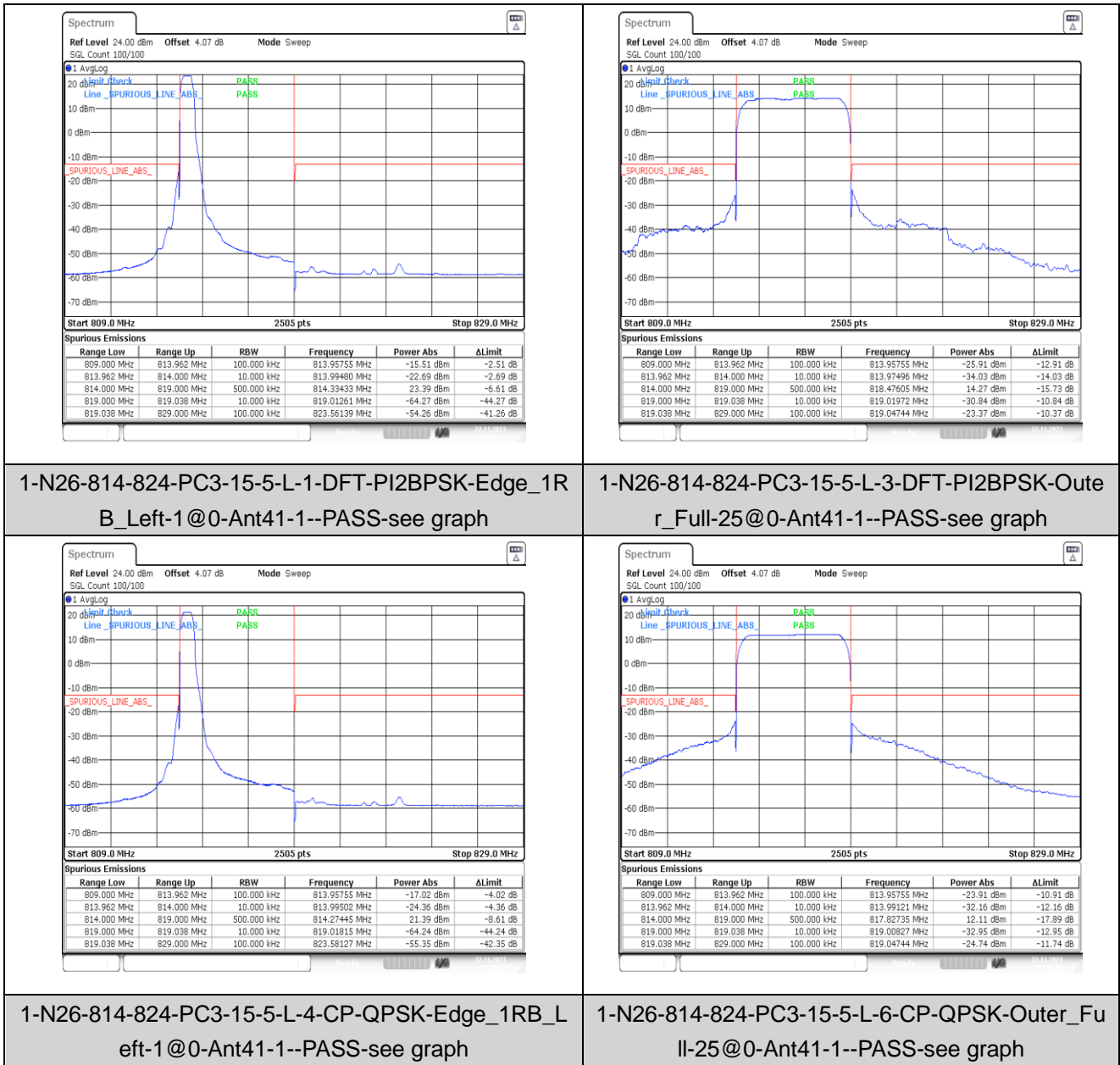
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Band Edge for SA

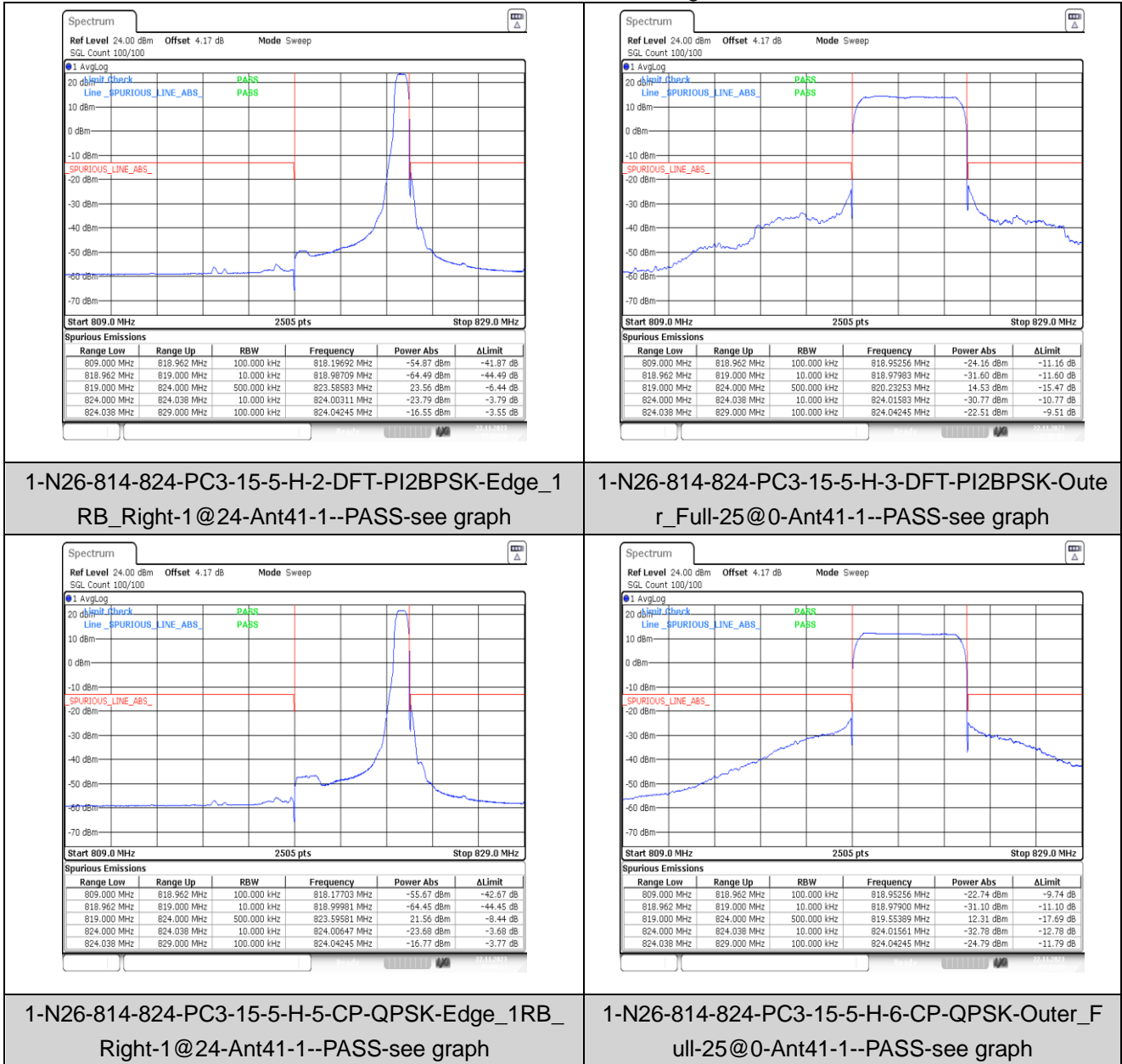
Test Graphs



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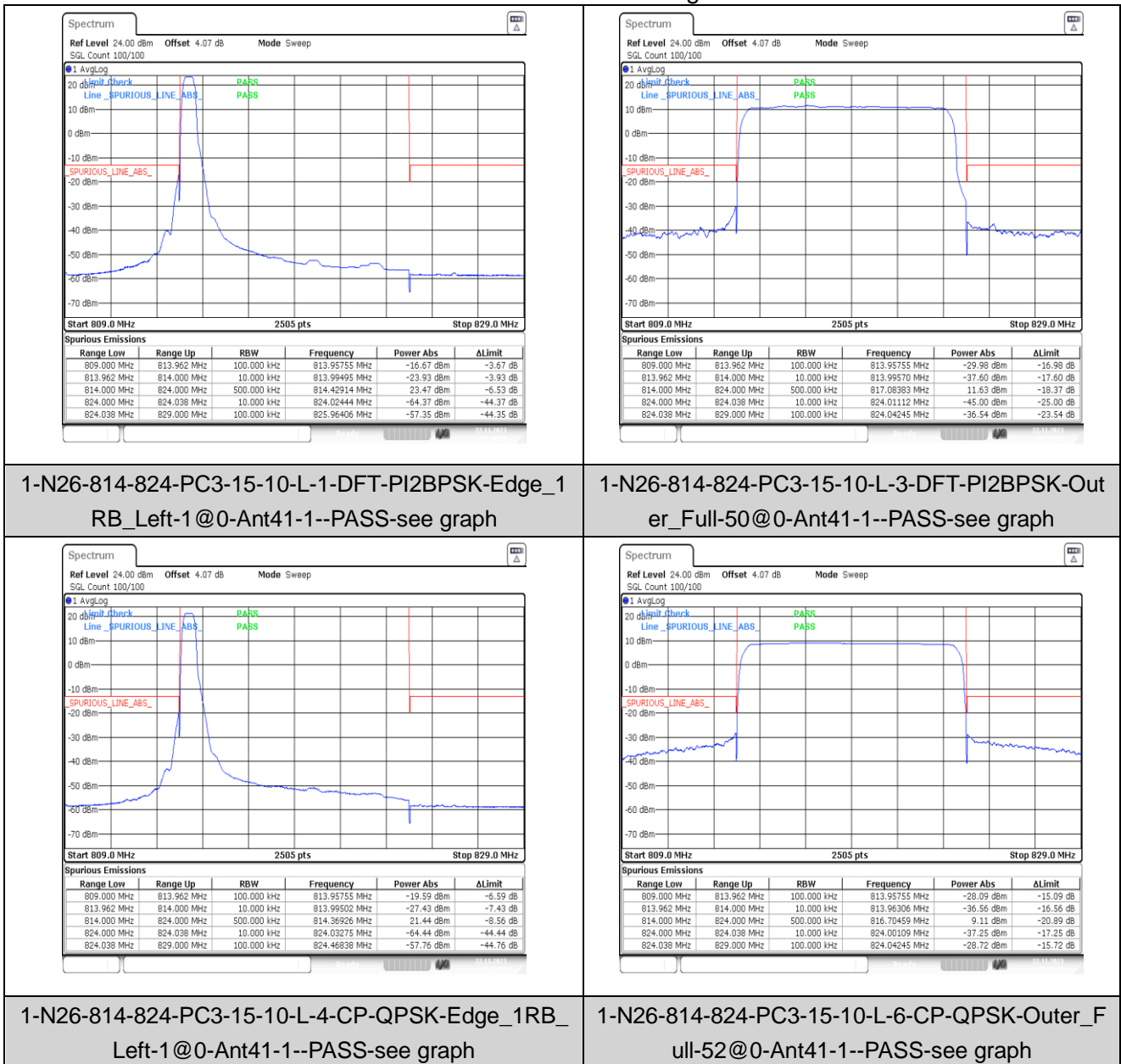
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1-N26-814-824-PC3-15-10-L-1-DFT-PI2BPSK-Edge_1 RB_Left-1@0-Ant41-1--PASS-see graph

1-N26-814-824-PC3-15-10-L-3-DFT-PI2BPSK-Out er_Full-50@0-Ant41-1--PASS-see graph

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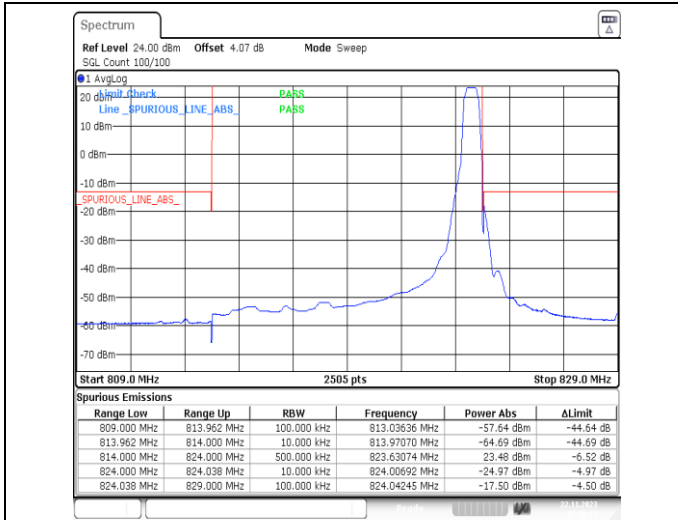
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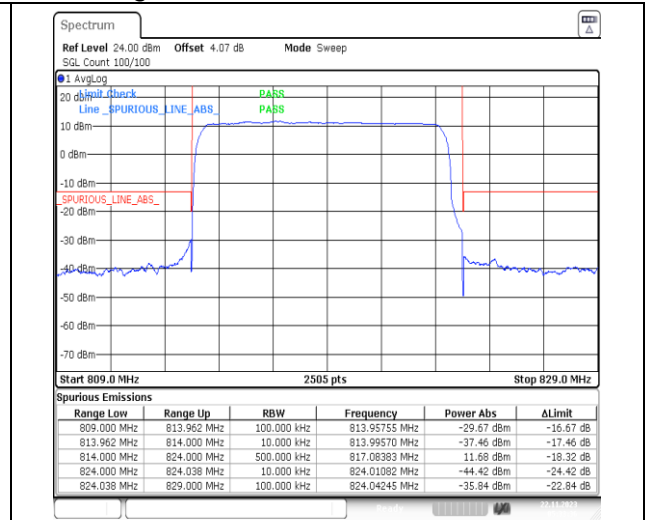
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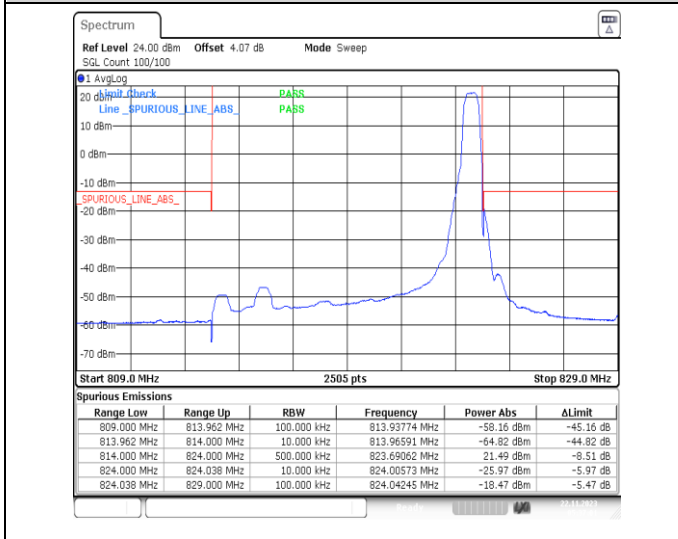
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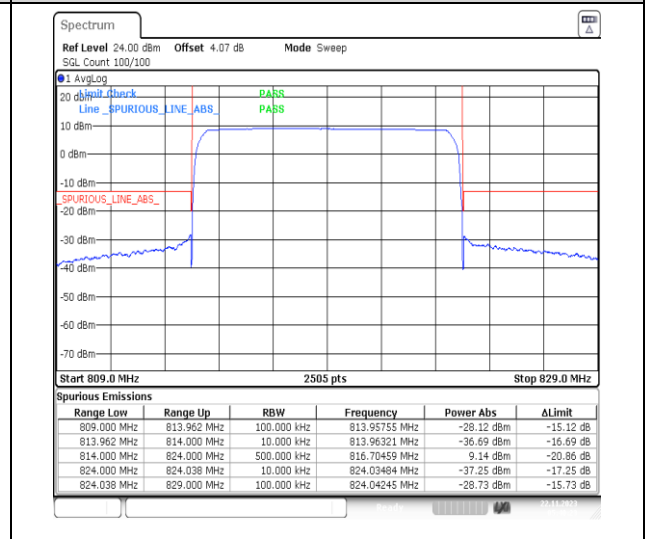
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1-N26-814-824-PC3-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant41-1--PASS-see graph



1-N26-814-824-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant41-1--PASS-see graph



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Conducted Spurious Emission for SA

Test Graphs



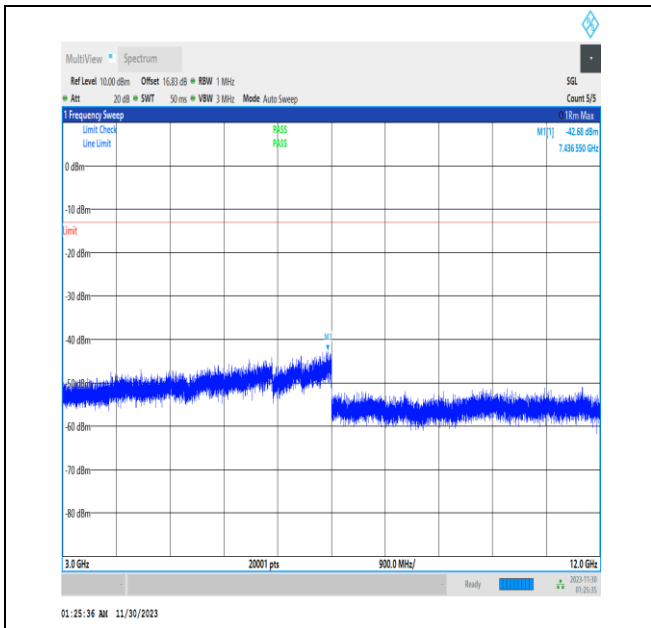
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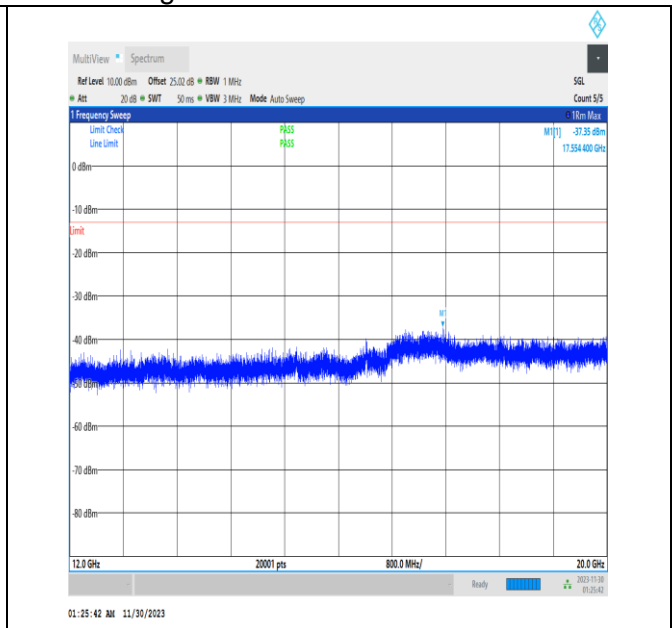
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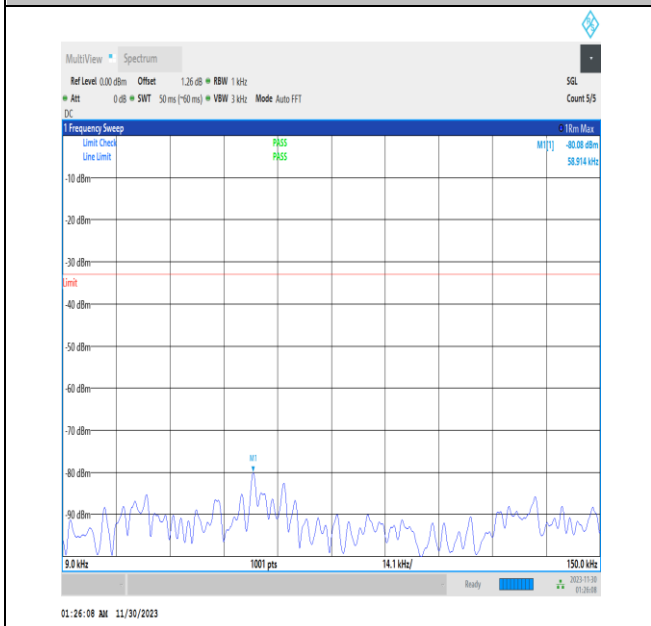
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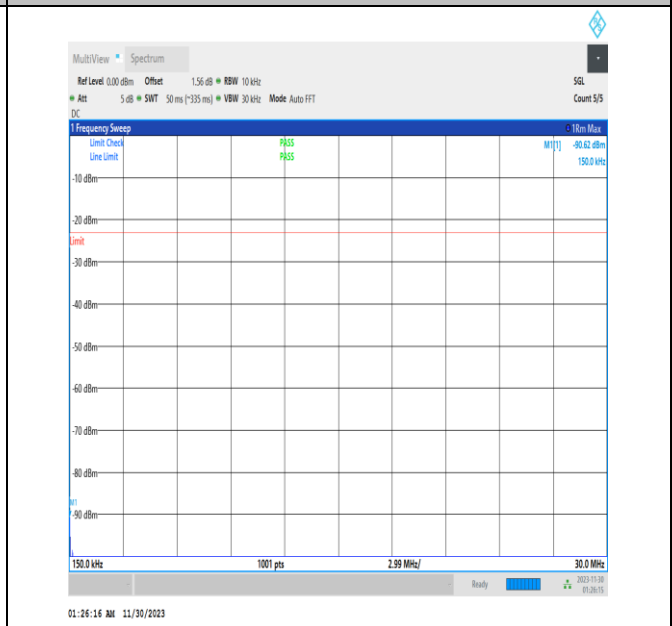
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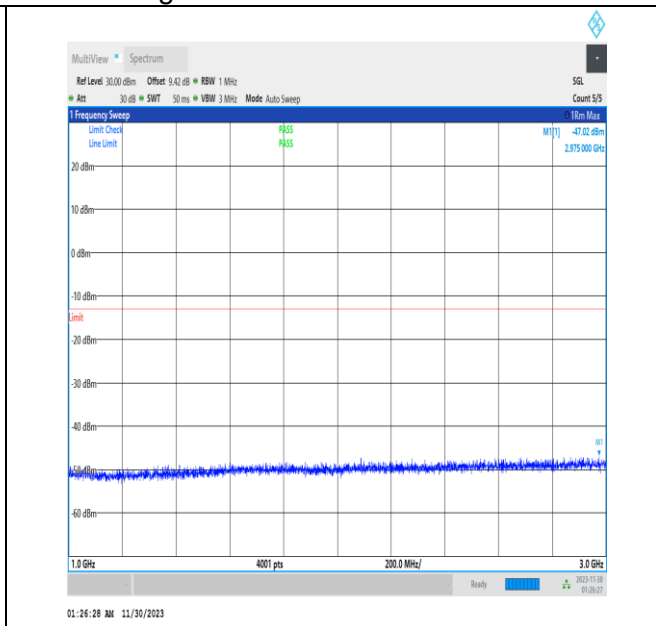
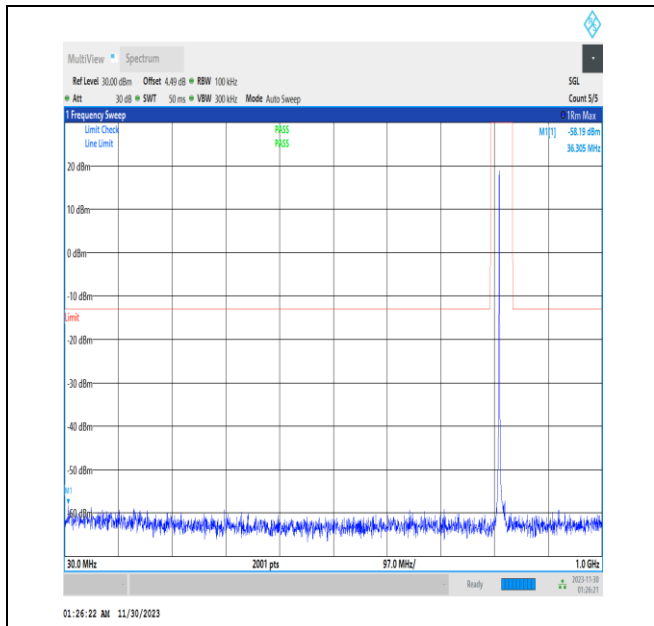
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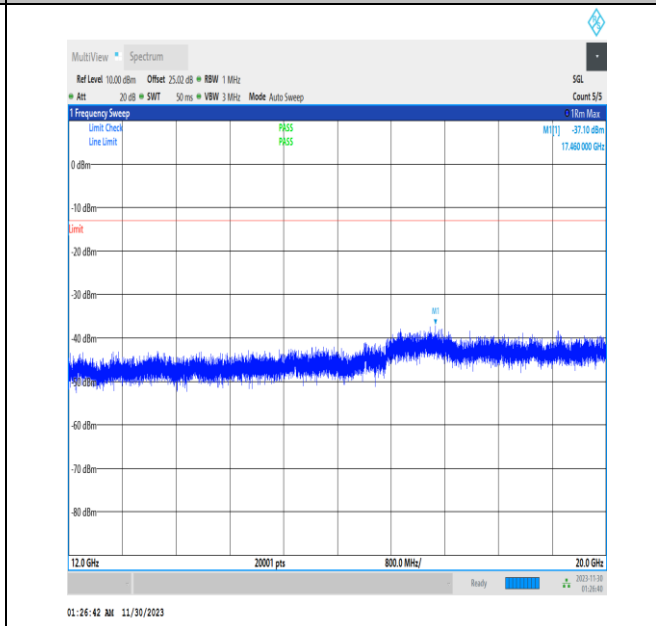
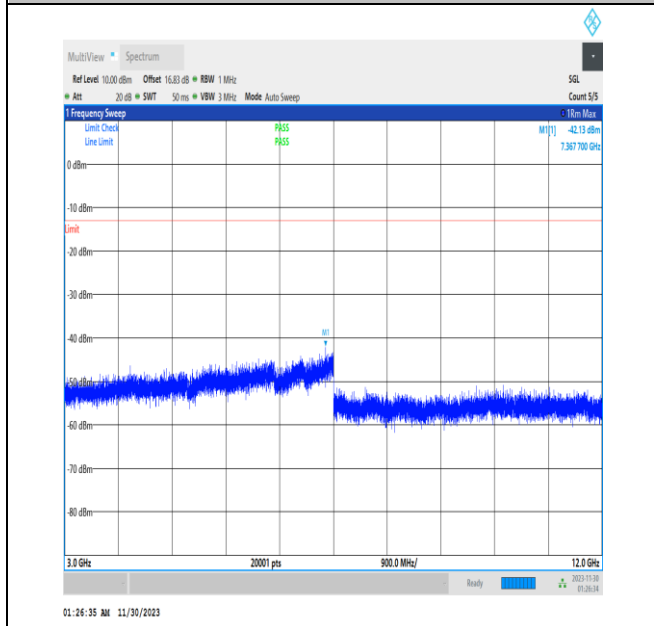
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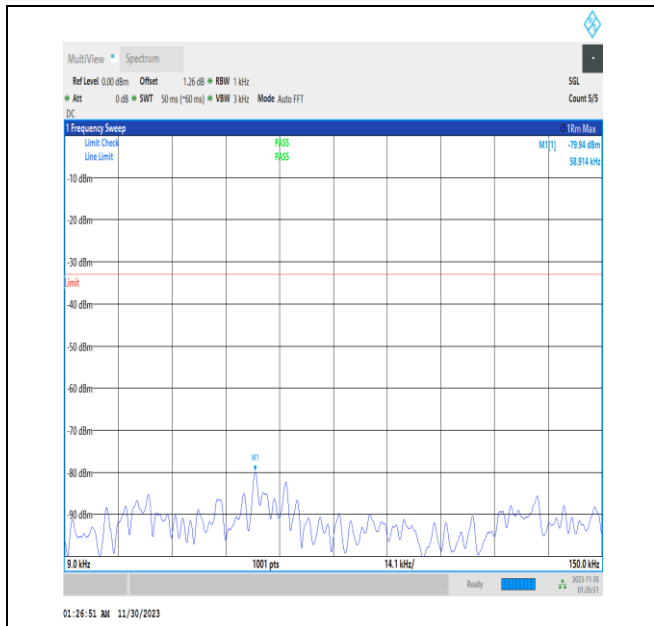
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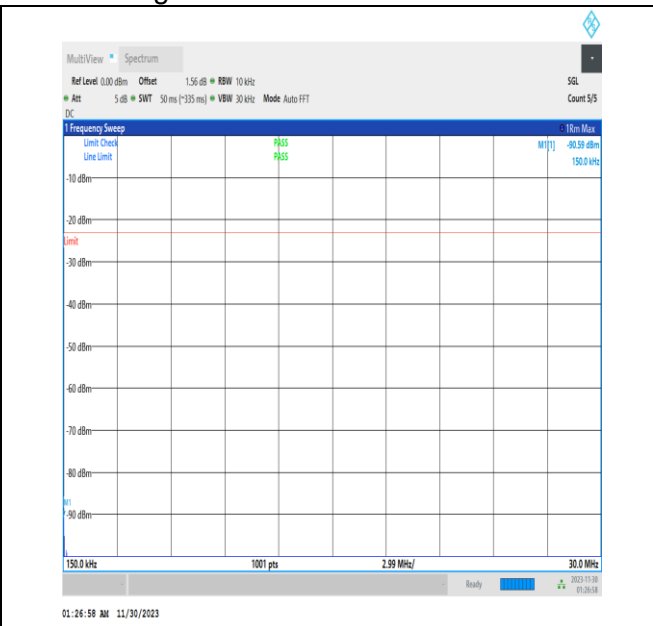
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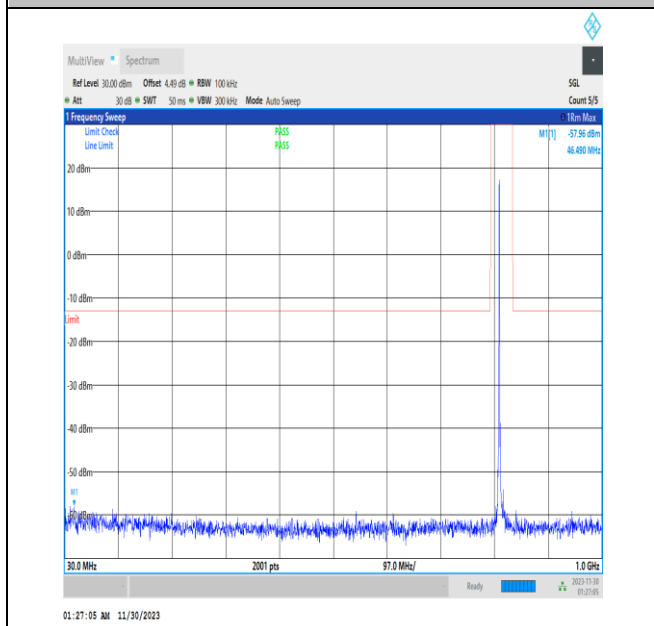


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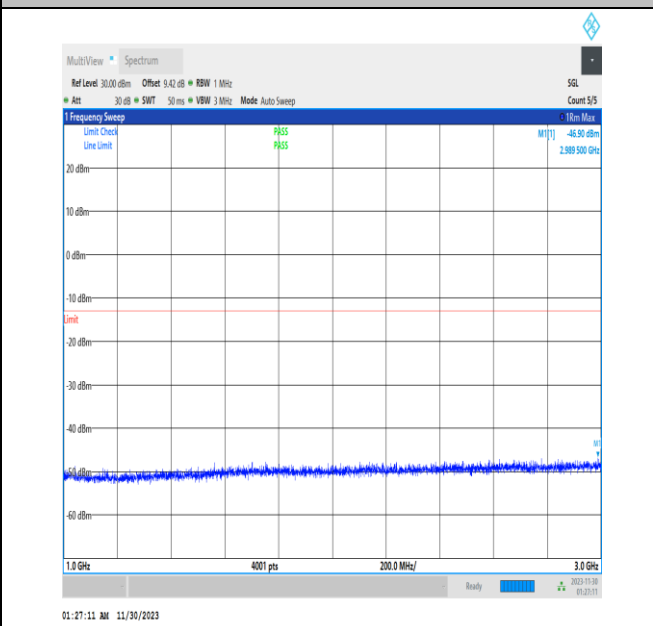
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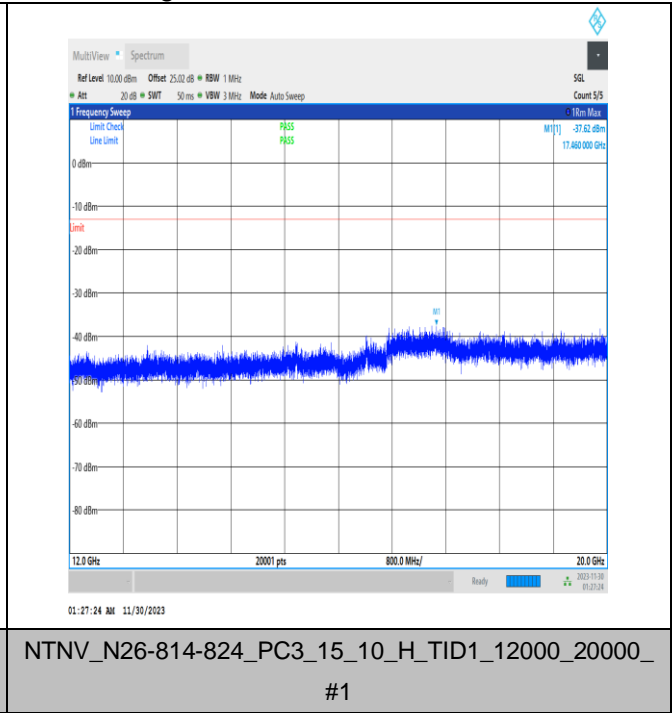
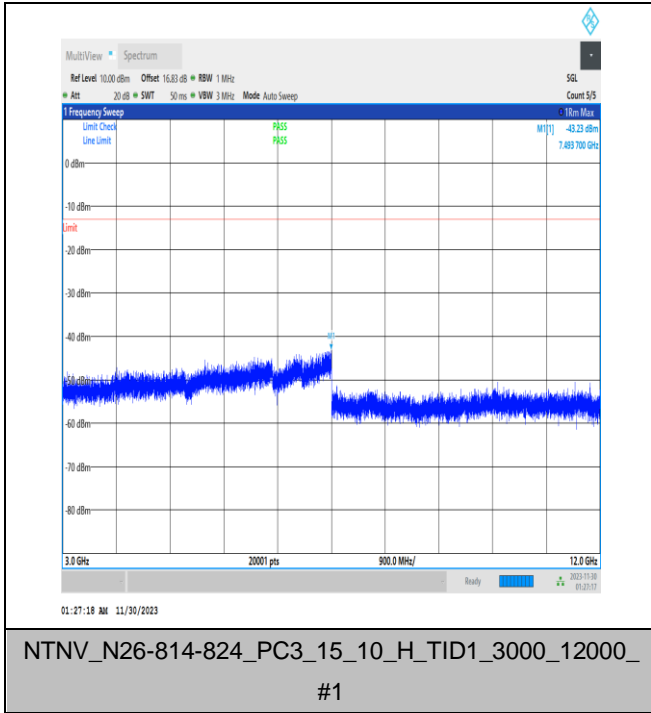
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Field Strength of Spurious Radiation

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	1453.1429	42.86	-48.17	25.13	-75.44	-13.00	62.44	Horizontal
2	2041.7143	41.43	-47.82	26.02	-75.63	-13.00	62.63	Horizontal
3	2608.5714	40.56	-46.94	27.52	-74.12	-13.00	61.12	Horizontal
4	3578.8571	40.72	-46.38	28.68	-72.24	-13.00	59.24	Horizontal
5	5105.7143	40.17	-45.36	31.65	-68.79	-13.00	55.79	Horizontal
6	6307.4286	38.89	-44.62	33.68	-67.31	-13.00	54.31	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.2857	44.92	-48.05	25.12	-73.27	-13.00	60.27	Vertical
2	1744.5714	44.13	-48.07	25.42	-73.78	-13.00	60.78	Vertical
3	2152	43.11	-47.69	26.33	-73.52	-13.00	60.52	Vertical
4	2714.2857	43.21	-47.03	27.73	-71.35	-13.00	58.35	Vertical
5	3968.5714	42.17	-46.21	29.07	-70.23	-13.00	57.23	Vertical
6	5360.5714	40.57	-45.10	32.27	-67.52	-13.00	54.52	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

2) All antennas of RSE are tested, and only the worst data is presented.



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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
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.100000	-0.001343	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	1.600000	0.001954	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.700000	-0.000855	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VH	NT	-2.200000	-0.002686	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VN	NT	0.100000	0.000122	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VL	NT	-0.800000	-0.000977	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.100000	-0.002564	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.000000	-0.001221	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	0.800000	0.000977	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	1.700000	0.002076	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-0.100000	-0.000122	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	1.900000	0.002320	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	0.600000	0.000733	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.100000	-0.000122	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.900000	-0.003541	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-30	-1.200000	-0.001465	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-20	1.800000	0.002198	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-10	1.800000	0.002198	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	0	0.300000	0.000366	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	0.500000	0.000611	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	30	-1.000000	-0.001221	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	40	0.200000	0.000244	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	50	1.000000	0.001221	PASS

---End of Attachment---



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