

Report No.: SEWM2311000447RG02

Rev.: 01

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Appendix B.20

NR Band n5



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

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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Ant41

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N5	15	5	DFT-QPSK	L	Inner_1RB_Left	25.24	17.35	38.45	PASS
N5	15	5	DFT-16QAM	L	Inner_1RB_Left	24.20	16.31	38.45	PASS
N5	15	5	DFT-QPSK	M	Inner_1RB_Left	24.91	17.02	38.45	PASS
N5	15	5	DFT-16QAM	M	Inner_1RB_Left	23.95	16.06	38.45	PASS
N5	15	5	DFT-QPSK	H	Inner_1RB_Left	24.71	16.82	38.45	PASS
N5	15	5	DFT-16QAM	H	Inner_1RB_Left	23.82	15.93	38.45	PASS
N5	15	10	DFT-QPSK	L	Inner_1RB_Left	25.27	17.38	38.45	PASS
N5	15	10	DFT-16QAM	L	Inner_1RB_Left	24.21	16.32	38.45	PASS
N5	15	10	DFT-QPSK	M	Inner_1RB_Left	24.98	17.09	38.45	PASS
N5	15	10	DFT-16QAM	M	Inner_1RB_Left	23.89	16.00	38.45	PASS
N5	15	10	DFT-QPSK	H	Inner_1RB_Left	24.69	16.80	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Left	23.78	15.89	38.45	PASS
N5	15	15	DFT-QPSK	L	Inner_1RB_Left	25.18	17.29	38.45	PASS
N5	15	15	DFT-16QAM	L	Inner_1RB_Left	24.23	16.34	38.45	PASS
N5	15	15	DFT-QPSK	M	Inner_1RB_Left	25.07	17.18	38.45	PASS
N5	15	15	DFT-16QAM	M	Inner_1RB_Left	24.13	16.24	38.45	PASS
N5	15	15	DFT-QPSK	H	Inner_1RB_Left	24.72	16.83	38.45	PASS
N5	15	15	DFT-16QAM	H	Inner_1RB_Left	23.83	15.94	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	25.31	17.42	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	24.76	16.87	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Outer_Full	24.62	16.73	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Left	25.16	17.27	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Right	24.67	16.78	38.45	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	24.43	16.54	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Left	24.14	16.25	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Right	23.69	15.80	38.45	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	23.64	15.75	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Left	23.35	15.46	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Right	22.78	14.89	38.45	PASS
N5	15	20	DFT-64QAM	L	Outer_Full	23.19	15.30	38.45	PASS



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N5	15	20	DFT-256QAM	L	Inner_1RB_Left	21.81	13.92	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Right	21.34	13.45	38.45	PASS
N5	15	20	DFT-256QAM	L	Outer_Full	22.20	14.31	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	25.16	17.27	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.69	16.80	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	24.42	16.53	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Left	24.23	16.34	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Right	24.59	16.70	38.45	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	24.19	16.30	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Left	24.04	16.15	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Right	23.67	15.78	38.45	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	23.43	15.54	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Left	23.21	15.32	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Right	22.75	14.86	38.45	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	22.77	14.88	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Left	21.71	13.82	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Right	21.34	13.45	38.45	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	21.99	14.10	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	25.09	17.20	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.73	16.84	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Outer_Full	24.35	16.46	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Left	24.94	17.05	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Right	24.63	16.74	38.45	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	24.14	16.25	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Left	23.98	16.09	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Right	23.69	15.80	38.45	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	23.36	15.47	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Left	23.24	15.35	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Right	22.79	14.90	38.45	PASS
N5	15	20	DFT-64QAM	H	Outer_Full	22.79	14.90	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Left	21.69	13.80	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Right	21.29	13.40	38.45	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	21.90	14.01	38.45	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N5	15	20	DFT-256QAM	L	Outer_Full	5.98	≤13	PASS
N5	15	20	CP-256QAM	L	Outer_Full	5.99	≤13	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	6.00	≤13	PASS
N5	15	20	CP-256QAM	M	Outer_Full	6.00	≤13	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	5.99	≤13	PASS
N5	15	20	CP-256QAM	H	Outer_Full	6.00	≤13	PASS



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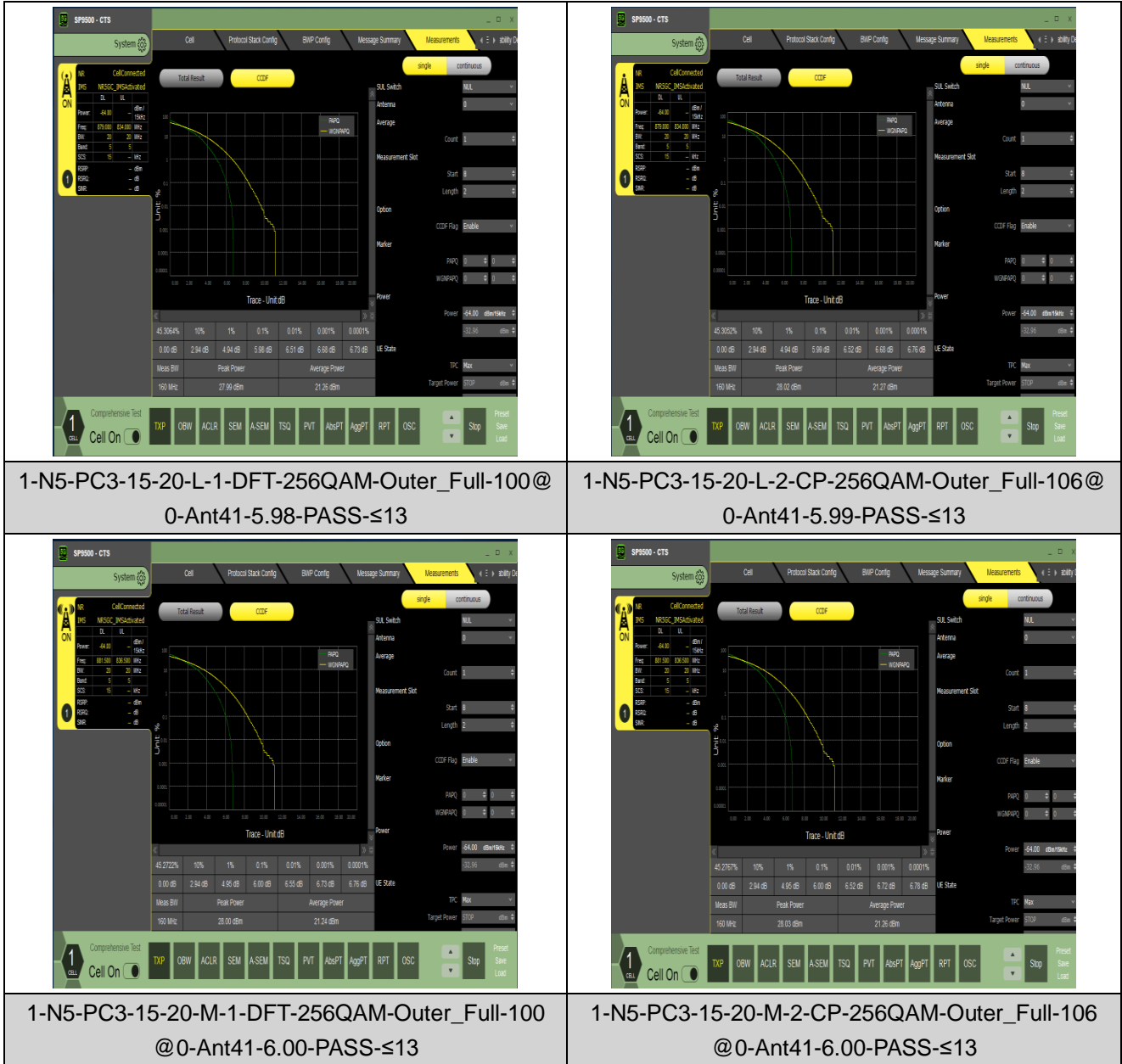
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Test Graphs



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1-N5-PC3-15-20-H-1-DFT-256QAM-Outer_Full-100
@0-Ant41-5.99-PASS-≤13



1-N5-PC3-15-20-H-2-CP-256QAM-Outer_Full-106@
0-Ant41-6.00-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
N5	15	5	DFT-QPSK	M	Outer_Full	4.565	5.300	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.565	5.090	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.575	5.140	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.605	5.450	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.585	5.340	PASS
N5	15	5	CP-QPSK	M	Outer_Full	4.565	5.250	PASS
N5	15	5	CP-16QAM	M	Outer_Full	4.565	5.060	PASS
N5	15	5	CP-64QAM	M	Outer_Full	4.575	5.290	PASS
N5	15	5	CP-256QAM	M	Outer_Full	4.555	5.240	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.971	9.680	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.971	9.600	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.951	9.500	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	9.011	9.900	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.991	9.800	PASS
N5	15	10	CP-QPSK	M	Outer_Full	9.271	10.120	PASS
N5	15	10	CP-16QAM	M	Outer_Full	9.271	9.960	PASS
N5	15	10	CP-64QAM	M	Outer_Full	9.291	10.100	PASS
N5	15	10	CP-256QAM	M	Outer_Full	9.291	10.160	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.427	14.280	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.397	14.130	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.397	14.130	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.397	14.250	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.457	14.250	PASS
N5	15	15	CP-QPSK	M	Outer_Full	14.056	14.760	PASS
N5	15	15	CP-16QAM	M	Outer_Full	14.116	14.850	PASS
N5	15	15	CP-64QAM	M	Outer_Full	14.146	14.940	PASS
N5	15	15	CP-256QAM	M	Outer_Full	14.086	14.850	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.862	18.960	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.822	18.880	PASS



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N5	15	20	DFT-16QAM	M	Outer_Full	17.862	18.560	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	17.902	18.960	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	17.862	18.640	PASS
N5	15	20	CP-QPSK	M	Outer_Full	18.861	19.880	PASS
N5	15	20	CP-16QAM	M	Outer_Full	18.901	20.000	PASS
N5	15	20	CP-64QAM	M	Outer_Full	18.941	19.920	PASS
N5	15	20	CP-256QAM	M	Outer_Full	18.901	19.800	PASS



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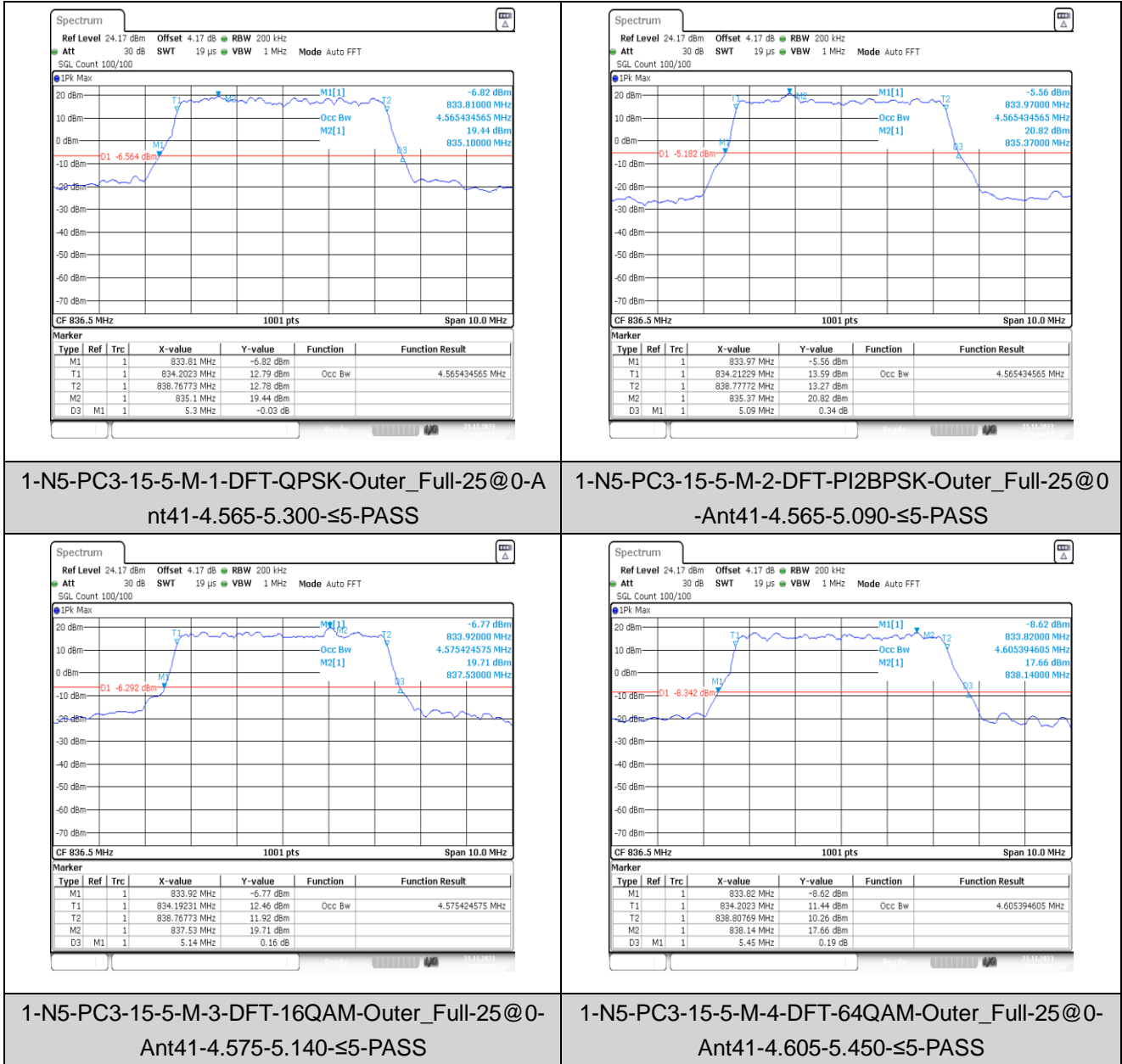
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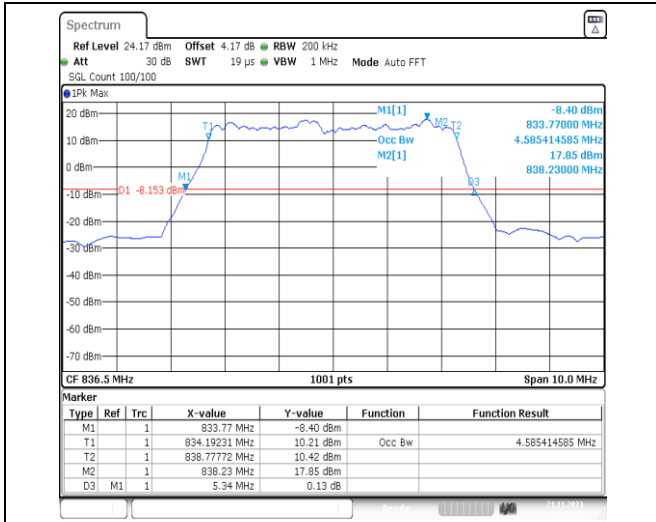
Test Graphs



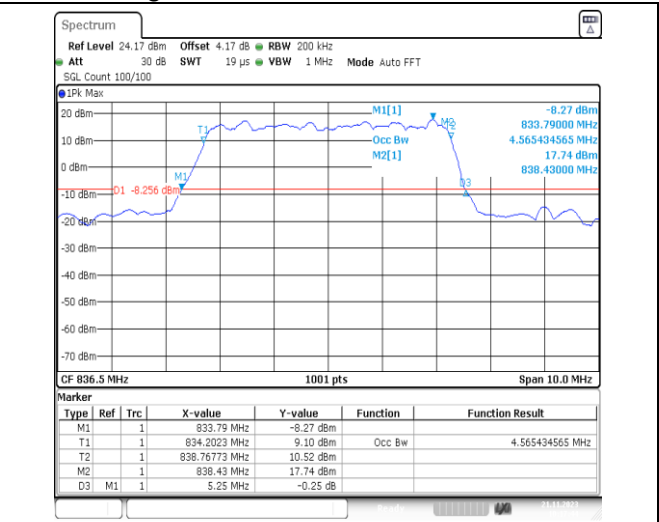
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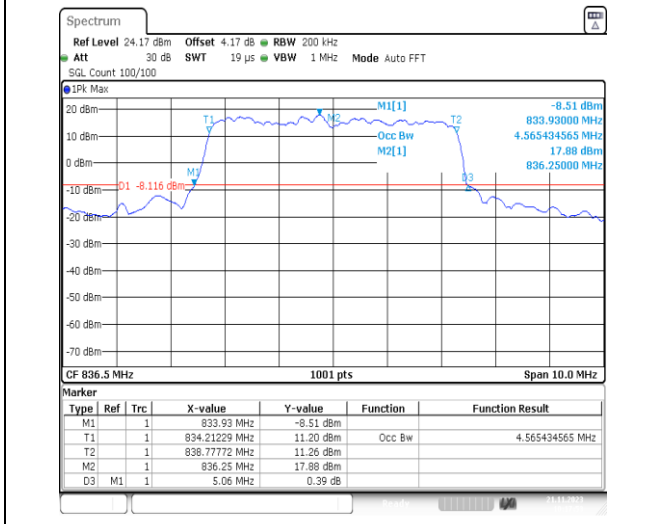
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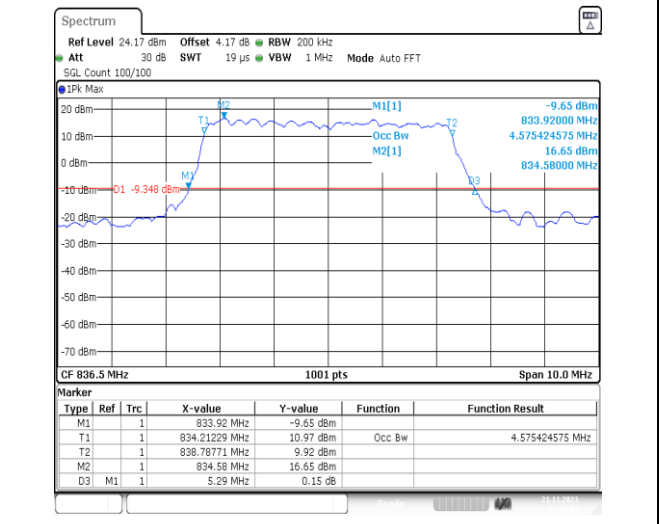
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1-N5-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant 41-4.565-5.250-≤5-PASS



1-N5-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-A nt41-4.565-5.060-≤5-PASS



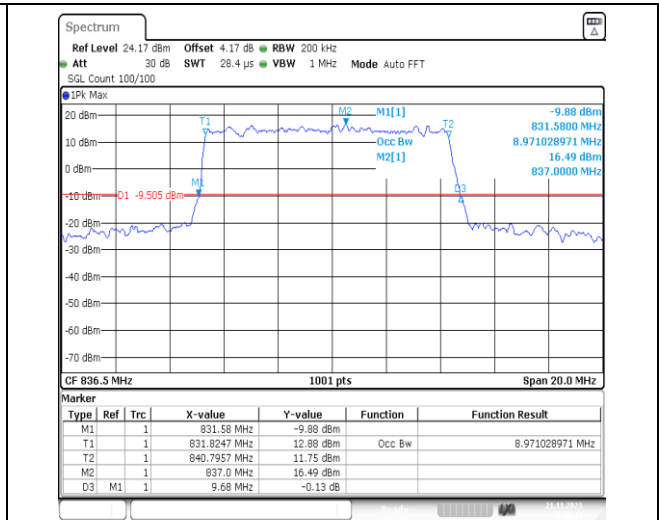
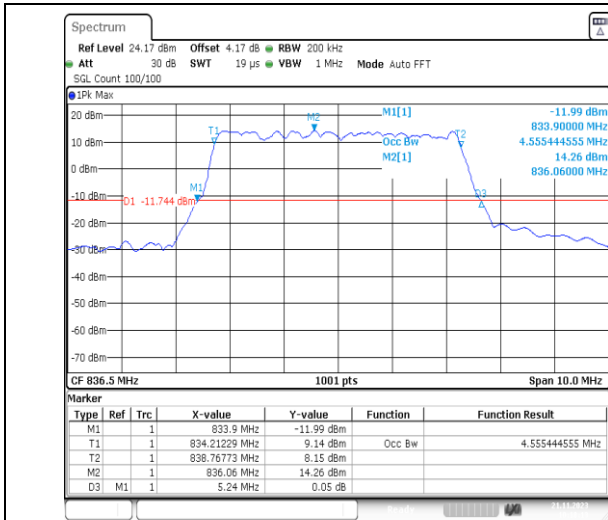
1-N5-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-A nt41-4.575-5.290-≤5-PASS



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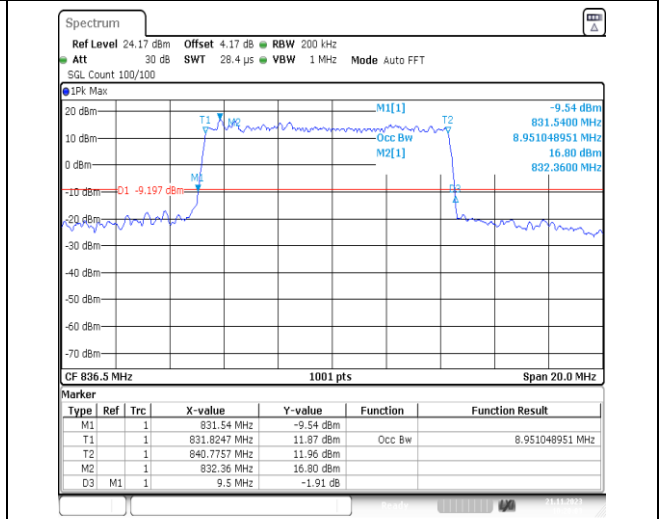
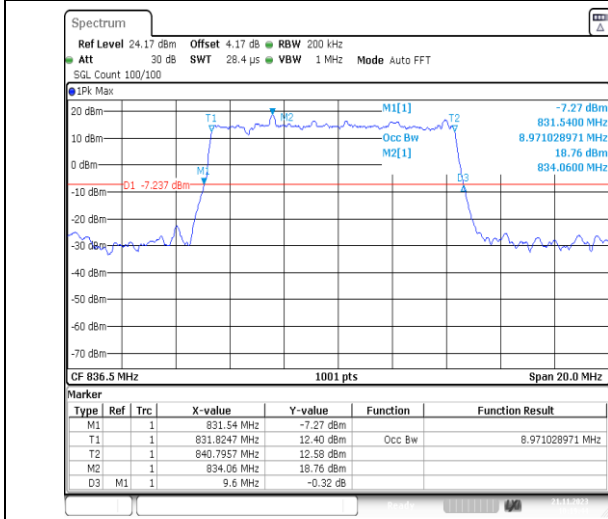
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1-N5-PC3-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant41-4.555-5.240-<5-PASS

1-N5-PC3-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant41-8.971-9.680-<10-PASS



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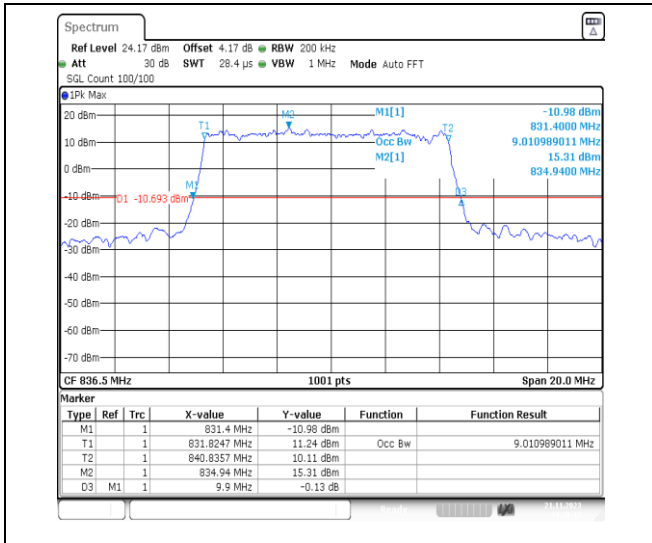
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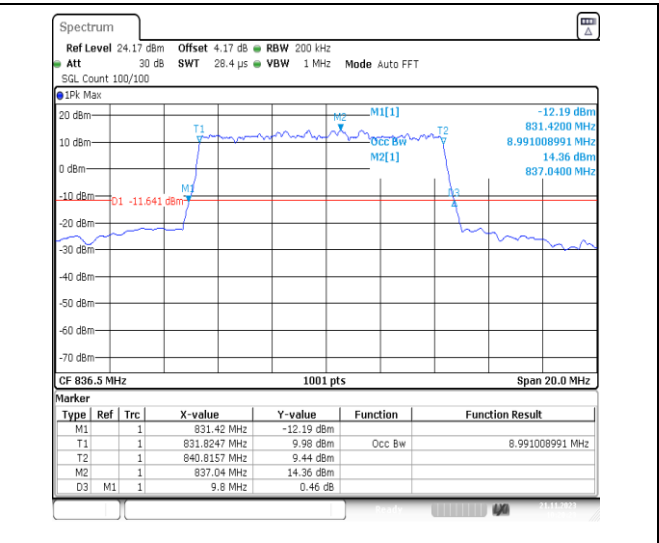
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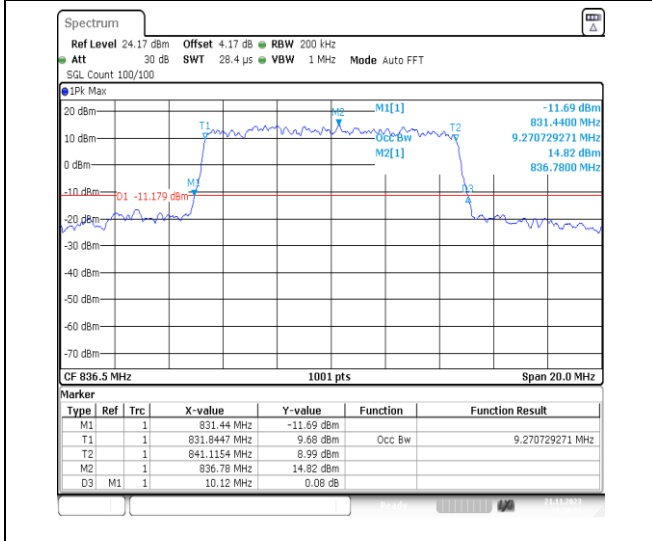
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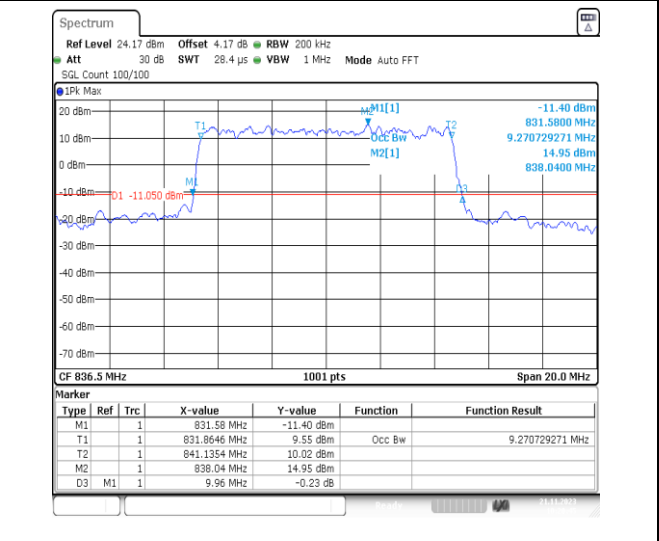
1-N5-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@0
-Ant41-9.011-9.900-≤10-PASS



1-N5-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50@0
0-Ant41-8.991-9.800-≤10-PASS



1-N5-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-A
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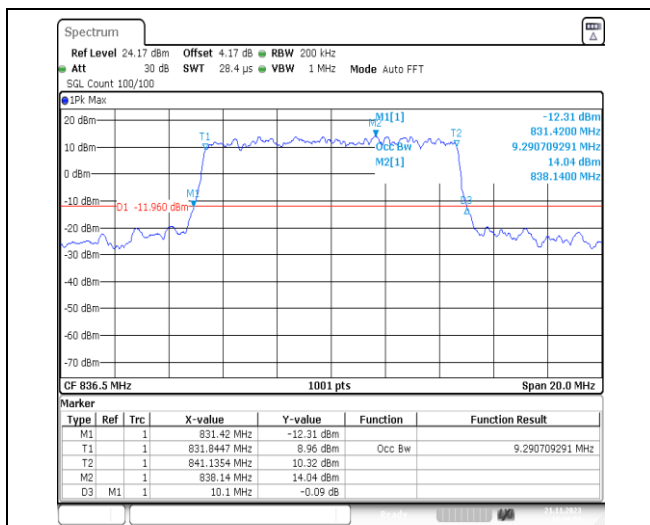
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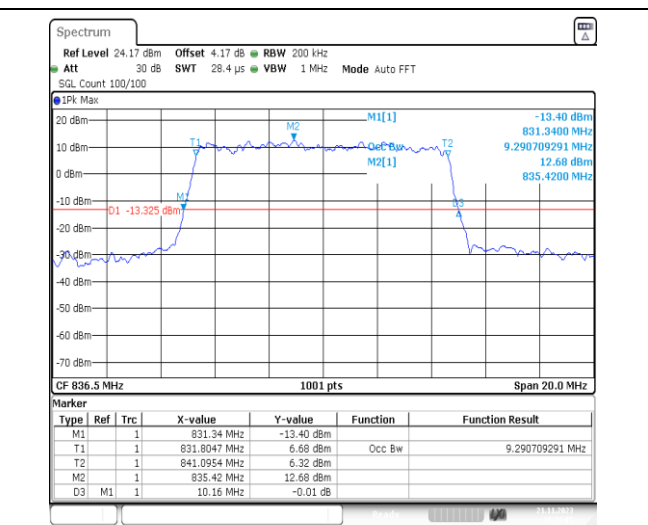
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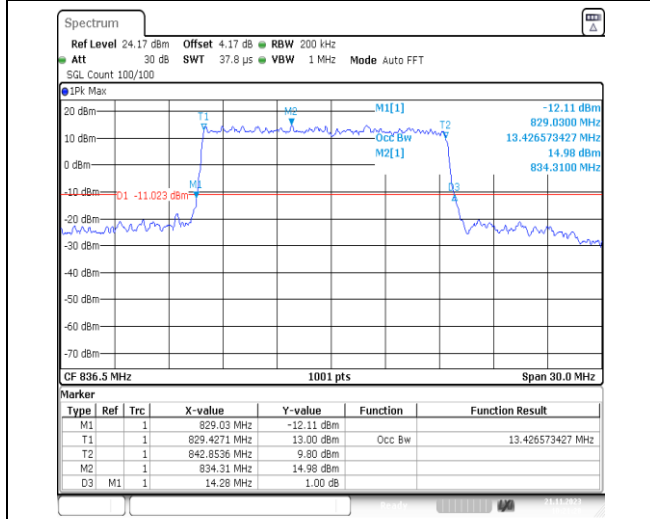
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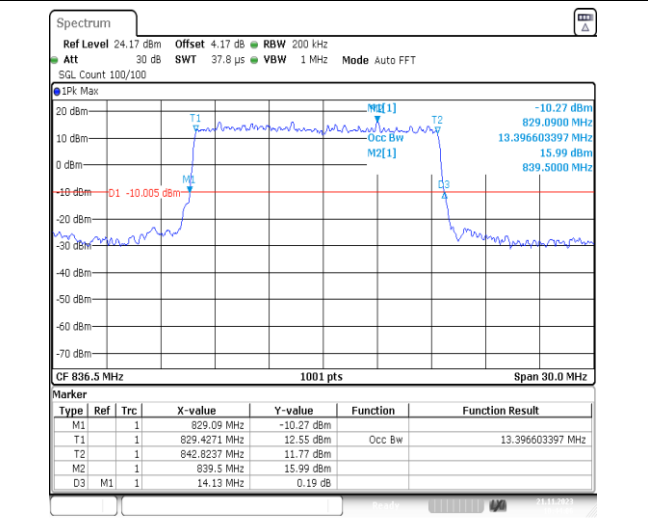
1-N5-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0
 -Ant41-9.291-10.100-≤10-PASS



1-N5-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@0
 Ant41-9.291-10.160-≤10-PASS



1-N5-PC3-15-15-M-1-DFT-QPSK-Outer_Full-75@0
 Ant41-13.427-14.280-≤15-PASS

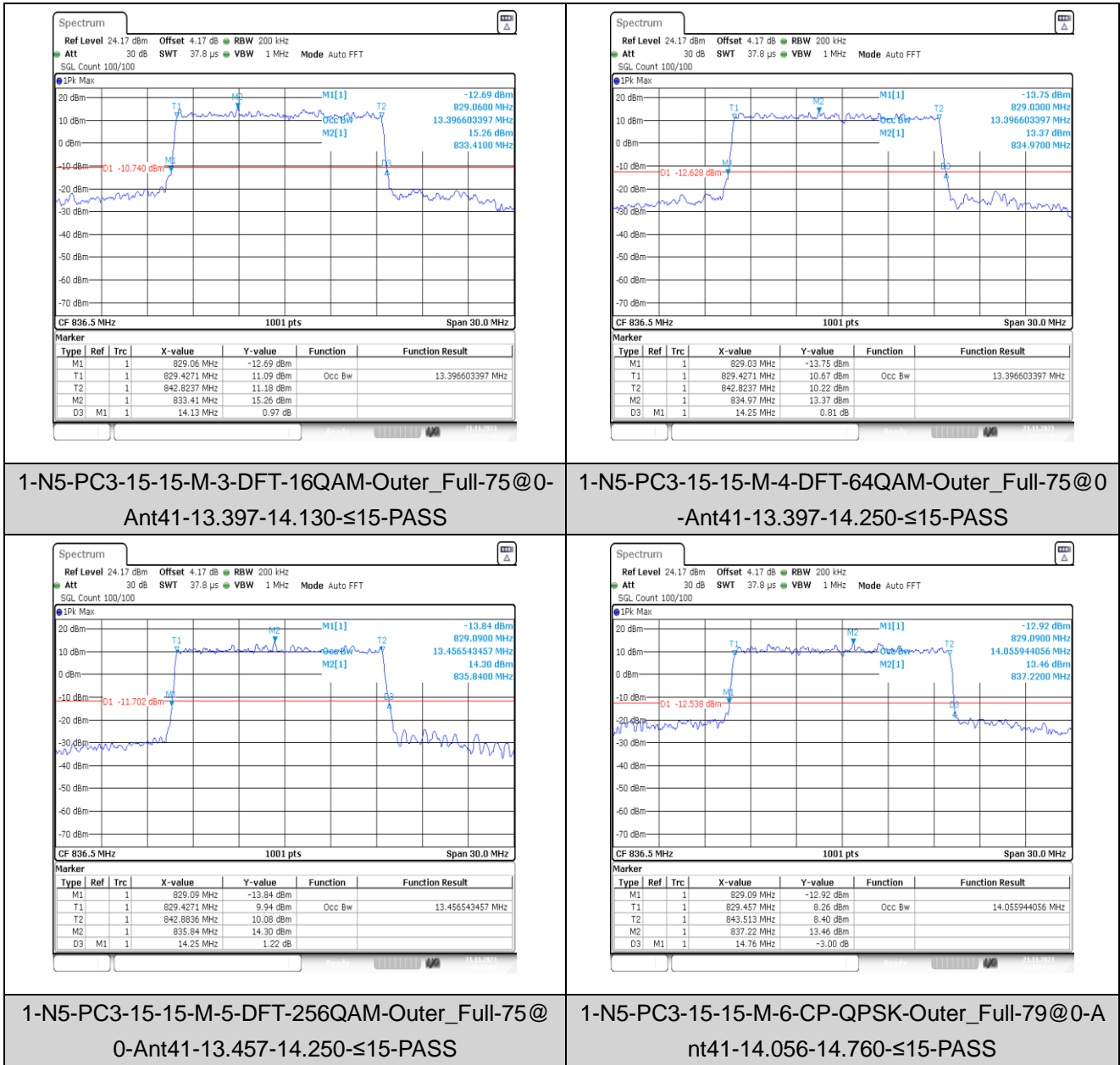


1-N5-PC3-15-15-M-2-DFT-PI2BPSK-Outer_Full-75@0
 0-Ant41-13.397-14.130-≤15-PASS



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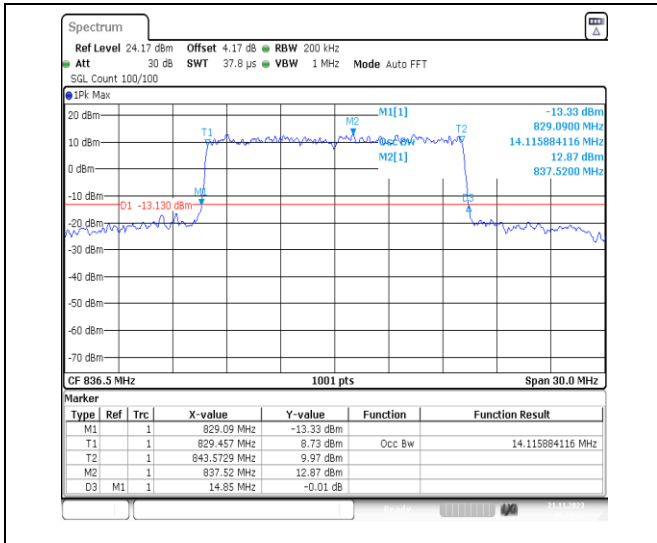
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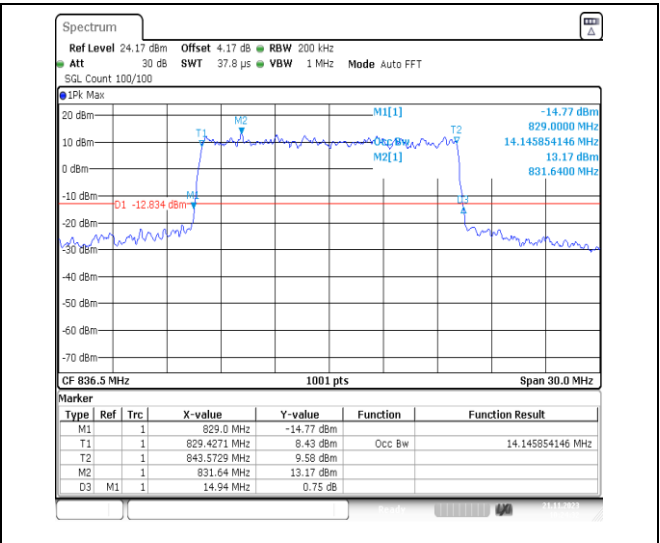
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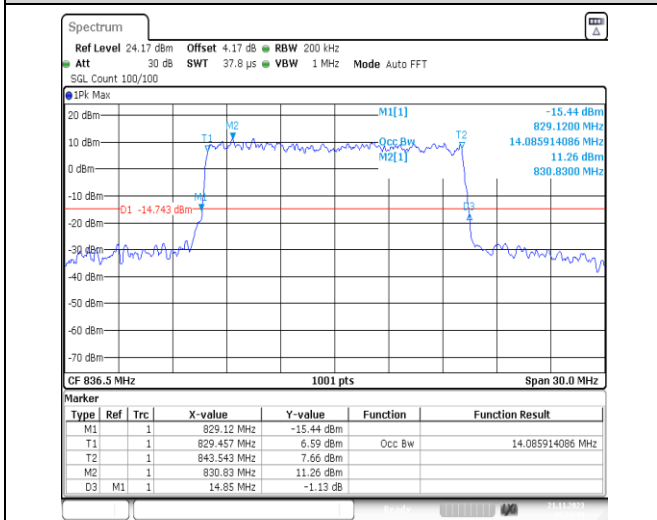
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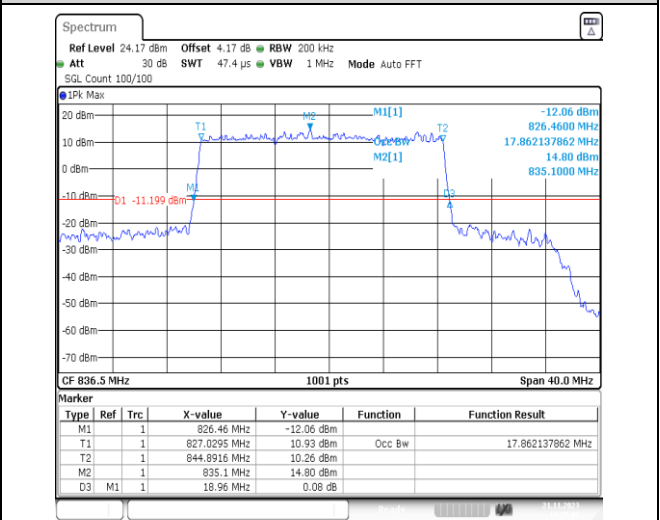
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1-N5-PC3-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant41-14.146-14.940-<=15-PASS



1-N5-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant41-14.086-14.850-<=15-PASS



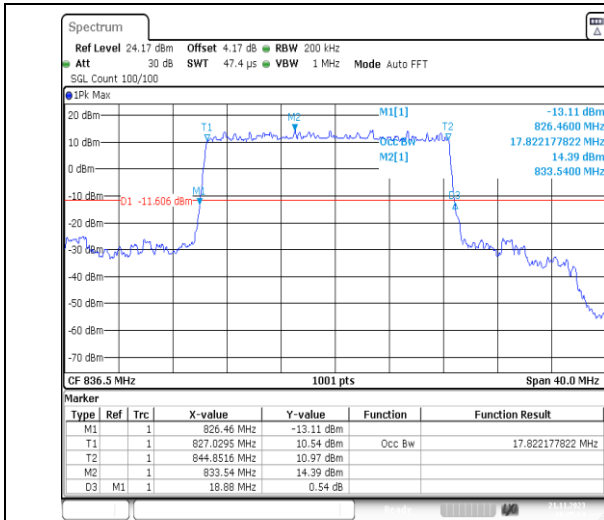
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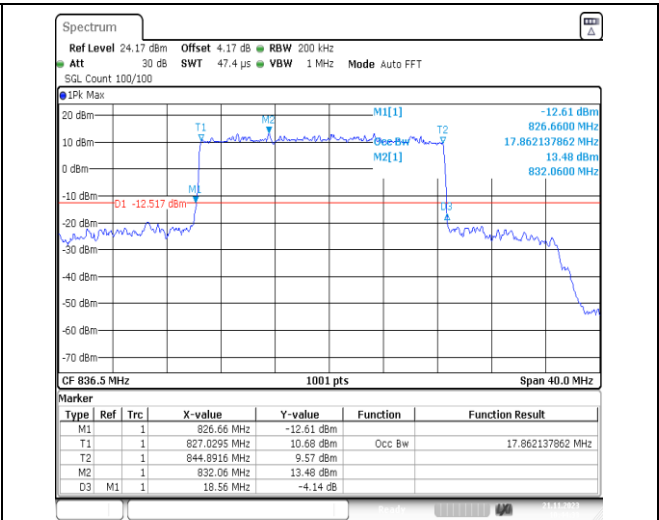
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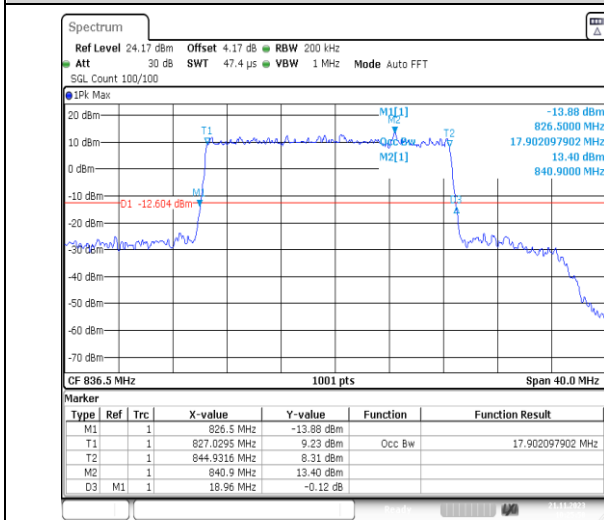
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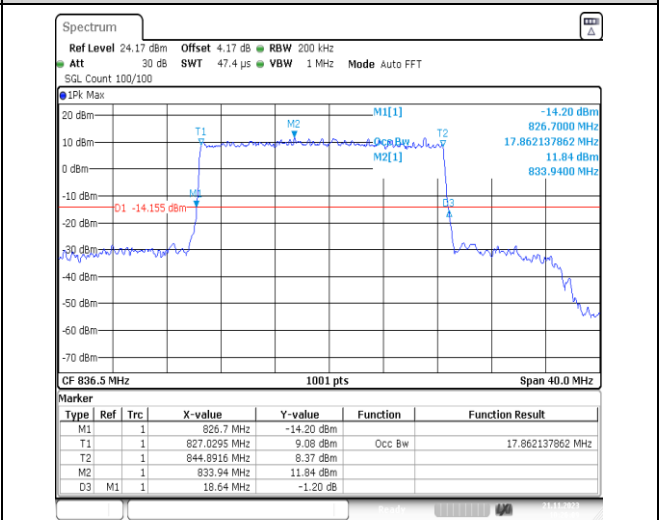
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1-N5-PC3-15-20-M-3-DFT-16QAM-Outer_Full-100 @0-Ant41-17.862-18.560-≤20-PASS



1-N5-PC3-15-20-M-4-DFT-64QAM-Outer_Full-100 @0-Ant41-17.902-18.960-≤20-PASS



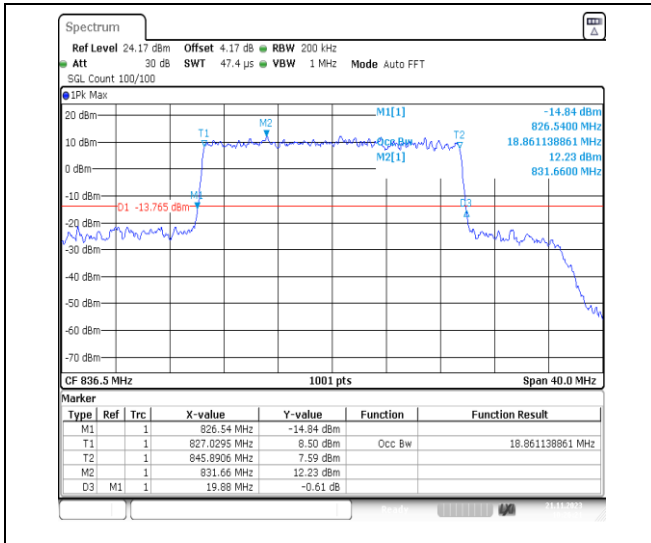
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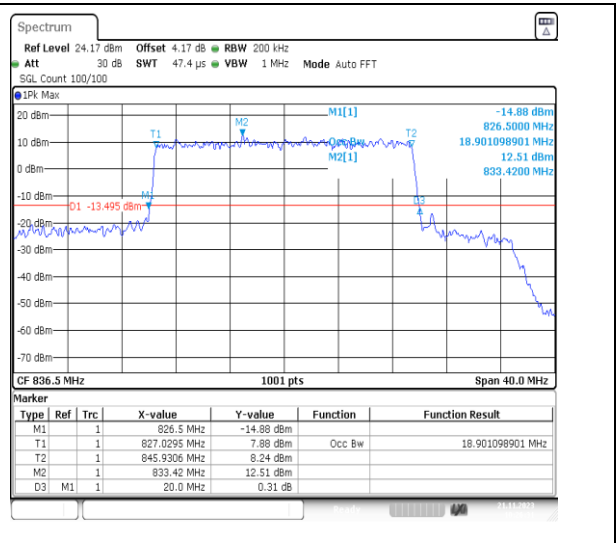
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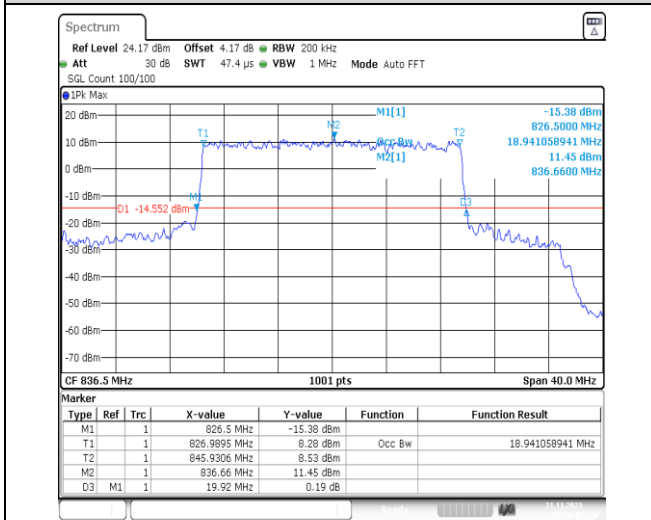
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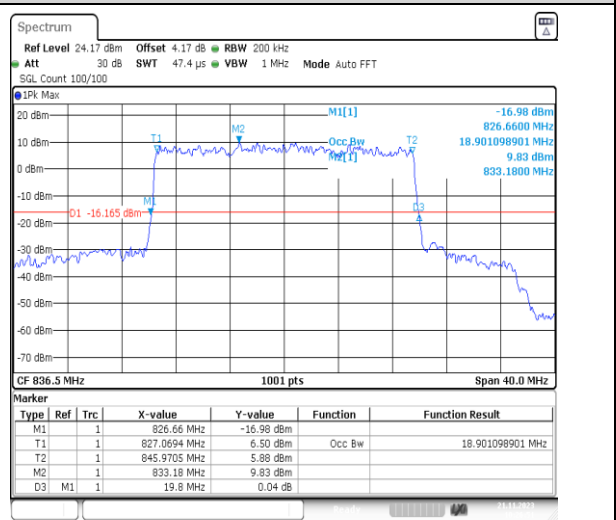
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1-N5-PC3-15-20-M-7-CP-16QAM-Outer_Full-106@0-Ant41-18.901-20.000-≤20-PASS



1-N5-PC3-15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant41-18.941-19.920-≤20-PASS



1-N5-PC3-15-20-M-9-CP-256QAM-Outer_Full-106@0-Ant41-18.901-19.800-≤20-PASS



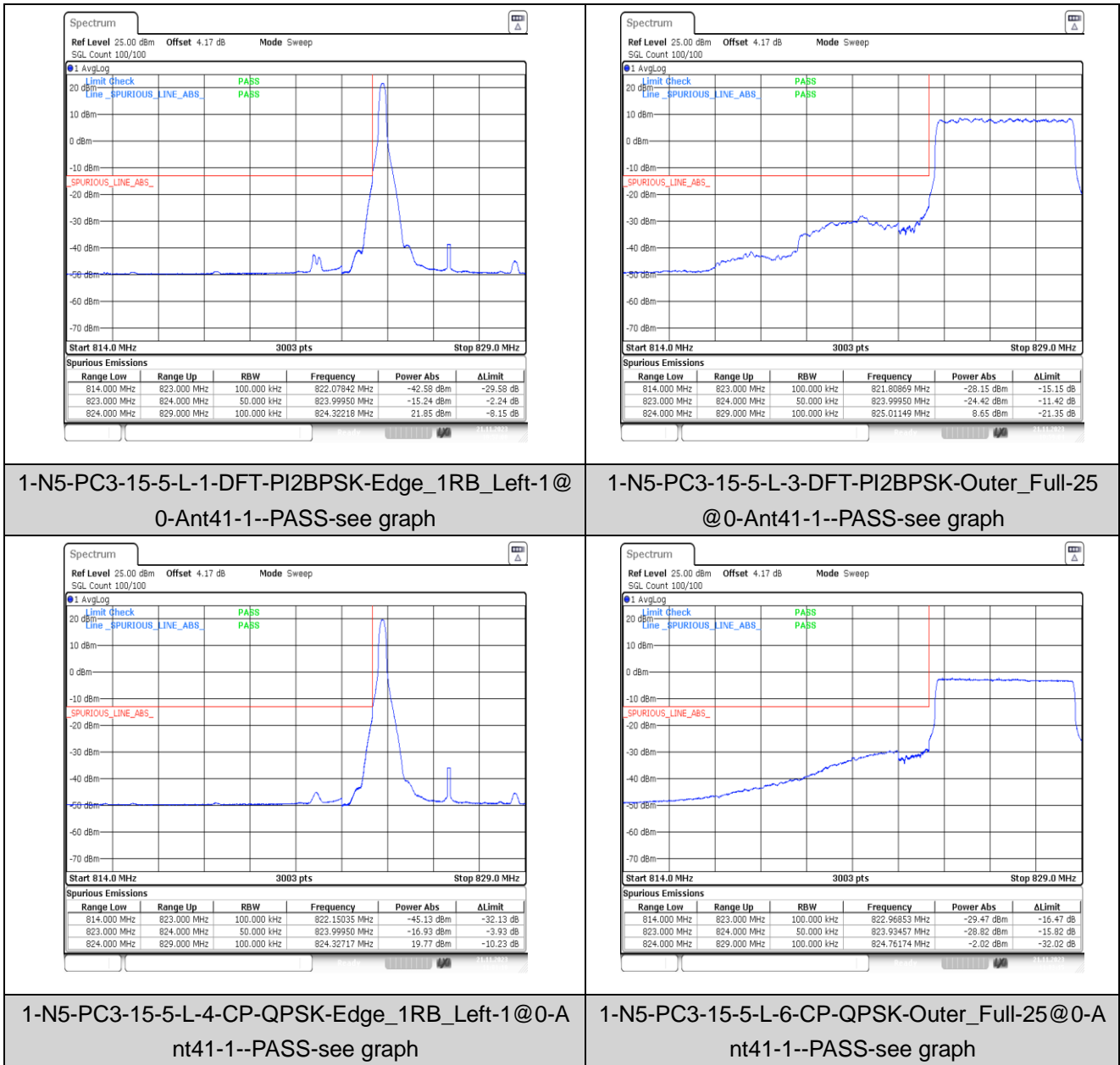
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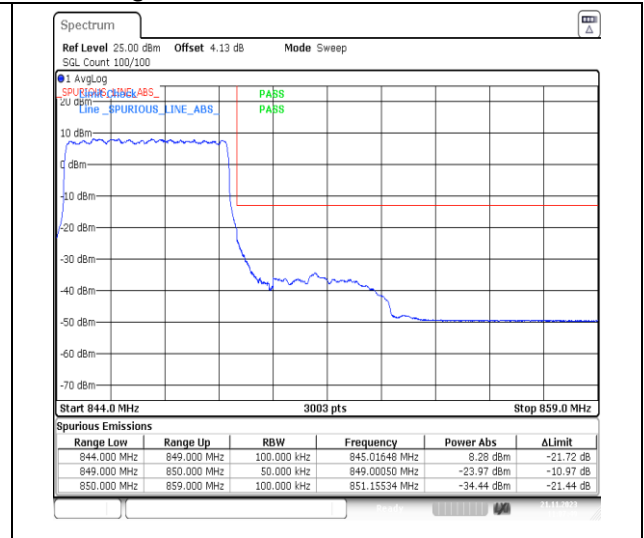
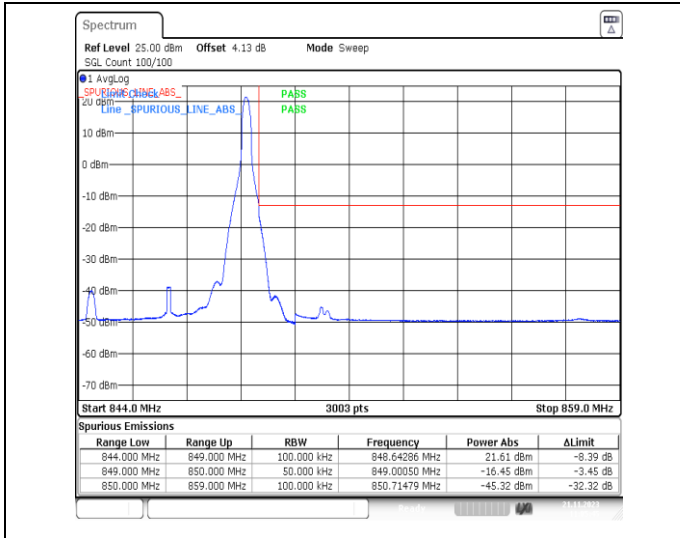
Test Graphs



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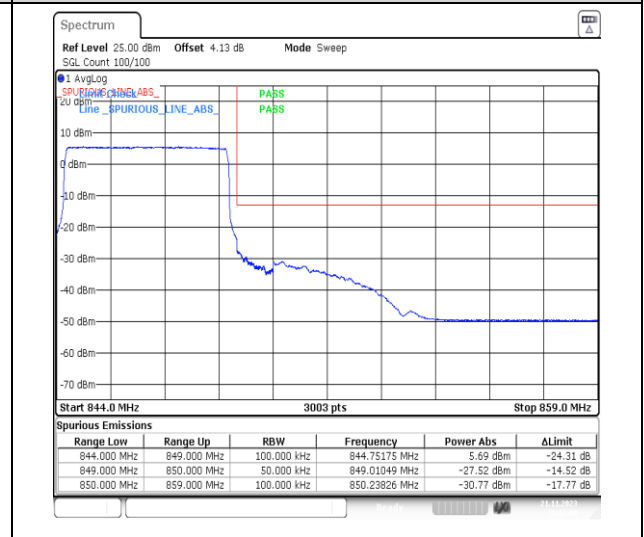
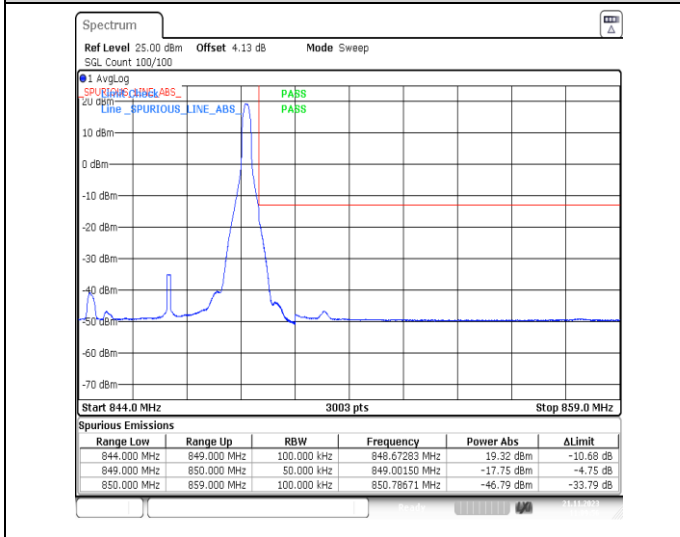
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1-N5-PC3-15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1 @24-Ant41-1--PASS-see graph

1-N5-PC3-15-5-H-3-DFT-PI2BPSK-Outer_Full-25 @0-Ant41-1--PASS-see graph



1-N5-PC3-15-5-H-5-CP-QPSK-Edge_1RB_Right-1 @2 4-Ant41-1--PASS-see graph

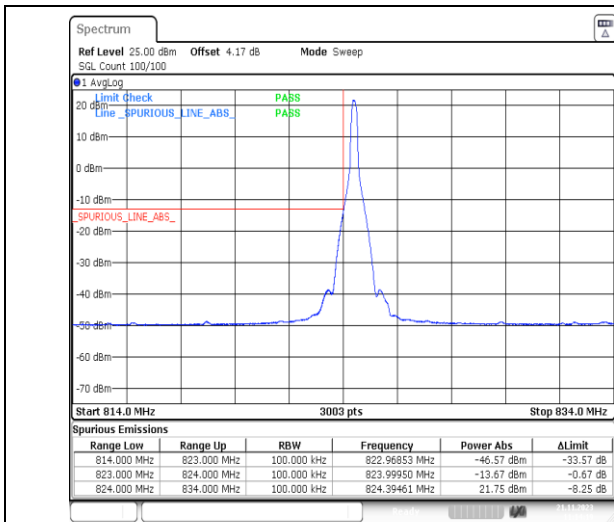
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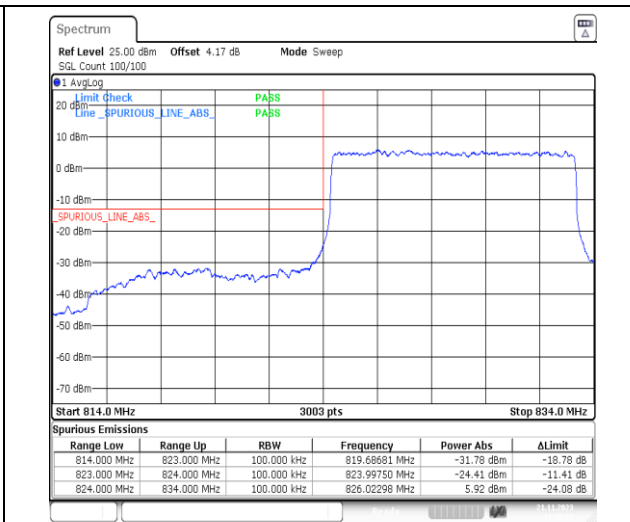
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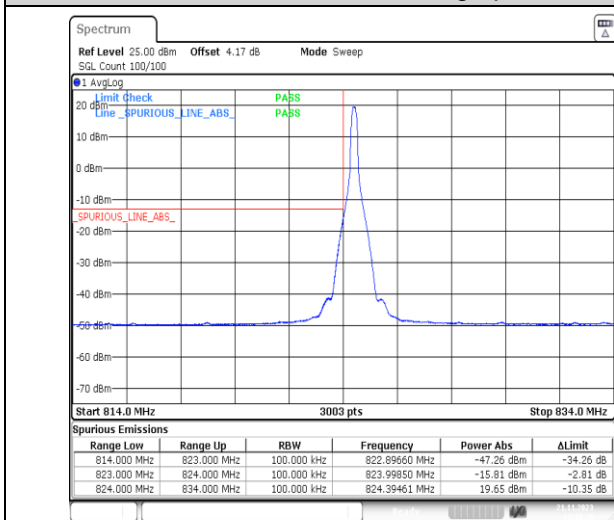
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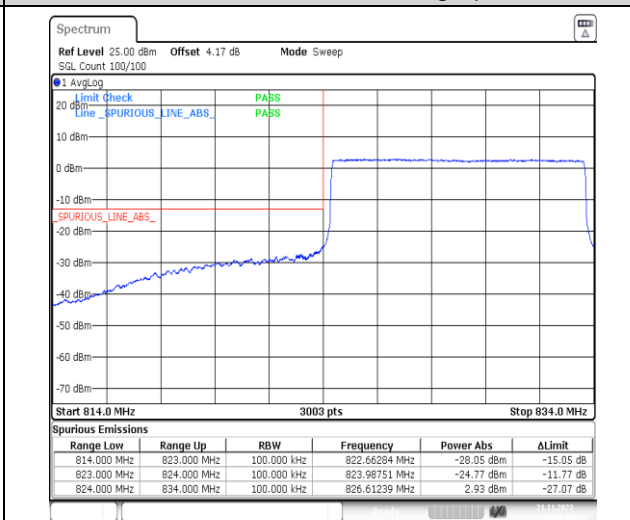
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 @0-Ant41-1--PASS-see graph



1-N5-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-50
 @0-Ant41-1--PASS-see graph



1-N5-PC3-15-10-L-4-CP-QPSK-Edge_1RB_Left-1 @0-
 Ant41-1--PASS-see graph



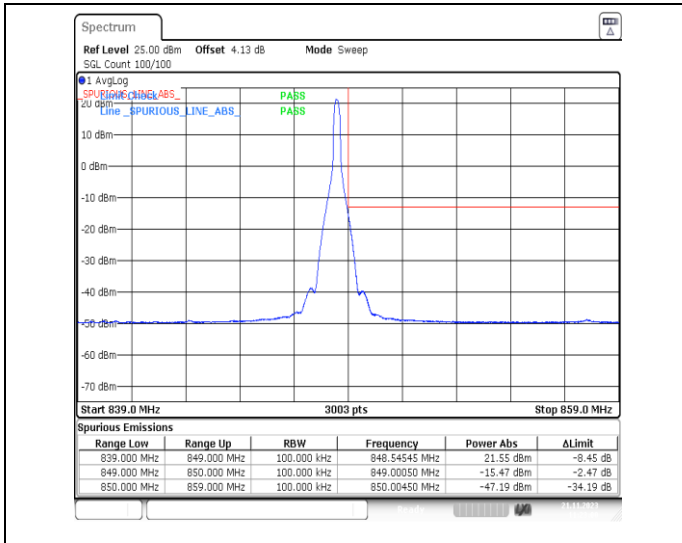
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 Ant41-1--PASS-see graph



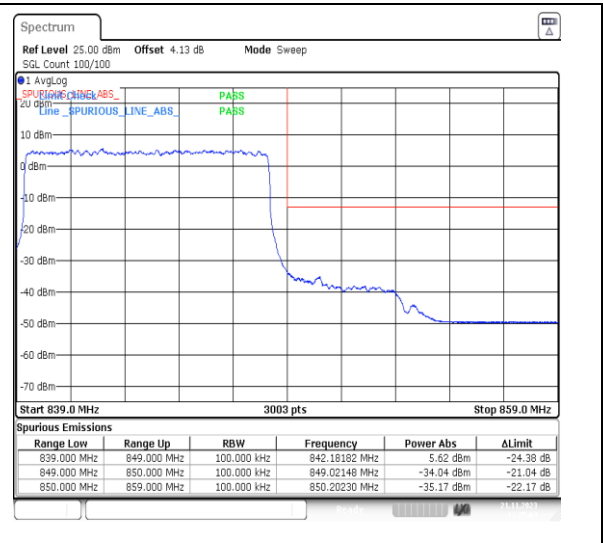
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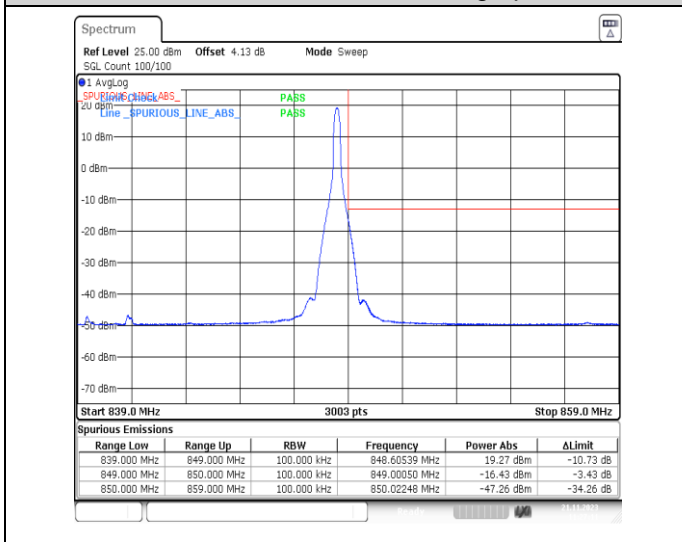
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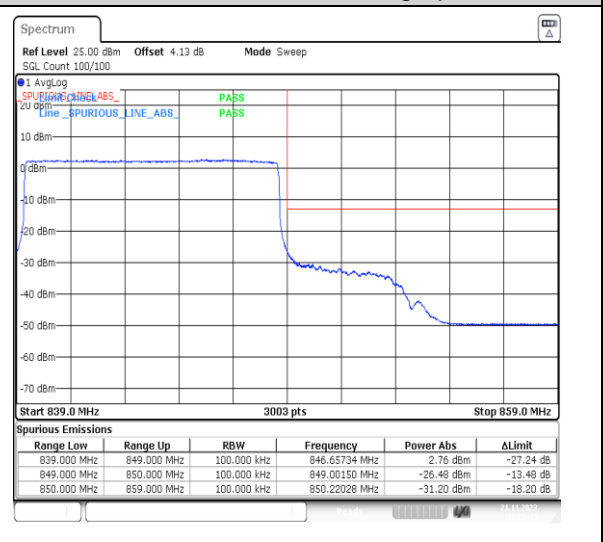
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1-N5-PC3-15-10-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant41-1--PASS-see graph



1-N5-PC3-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant41-1--PASS-see graph



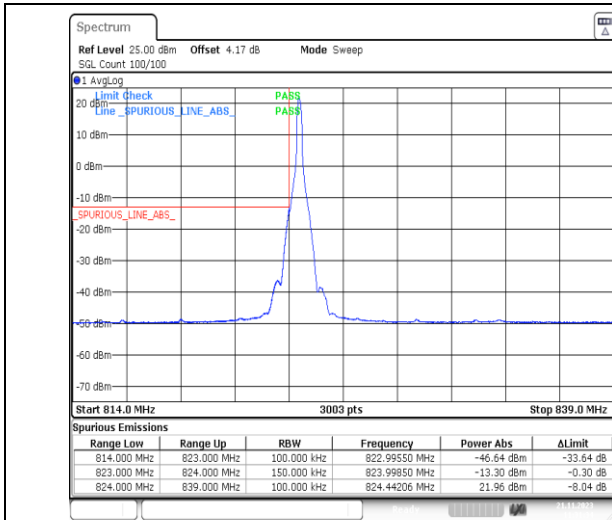
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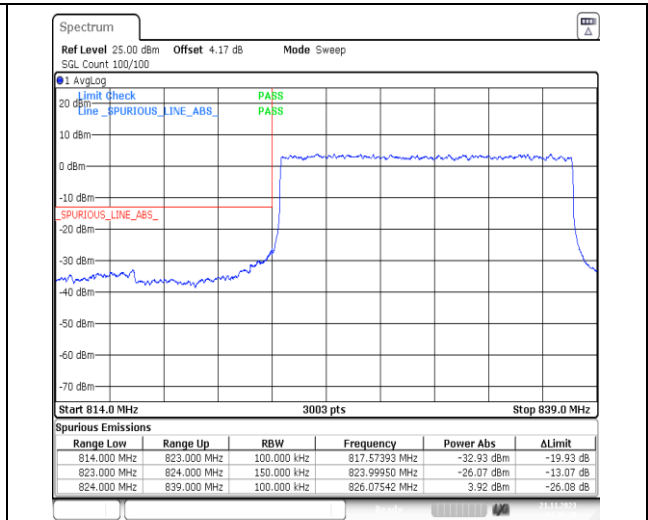
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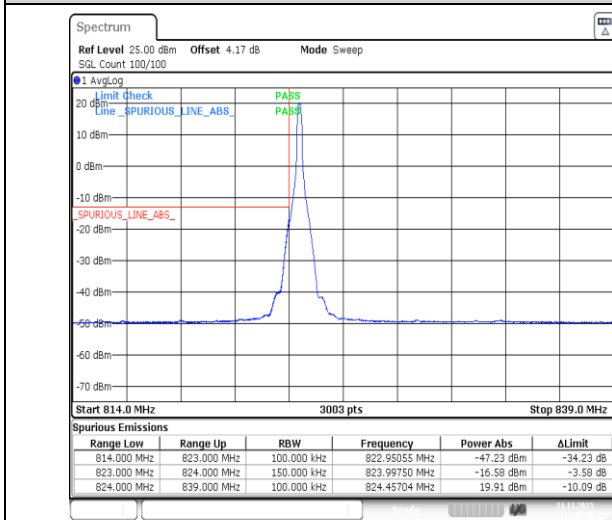
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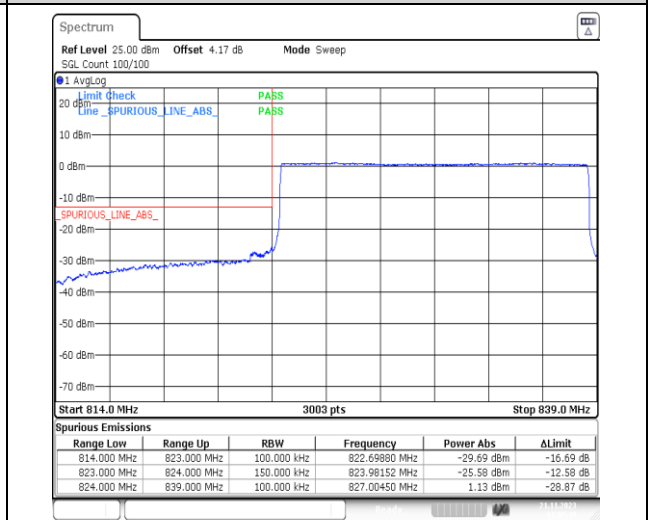
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@0-Ant41-1--PASS-see graph



1-N5-PC3-15-15-L-3-DFT-PI2BPSK-Outer_Full-75
@0-Ant41-1--PASS-see graph



1-N5-PC3-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-
Ant41-1--PASS-see graph



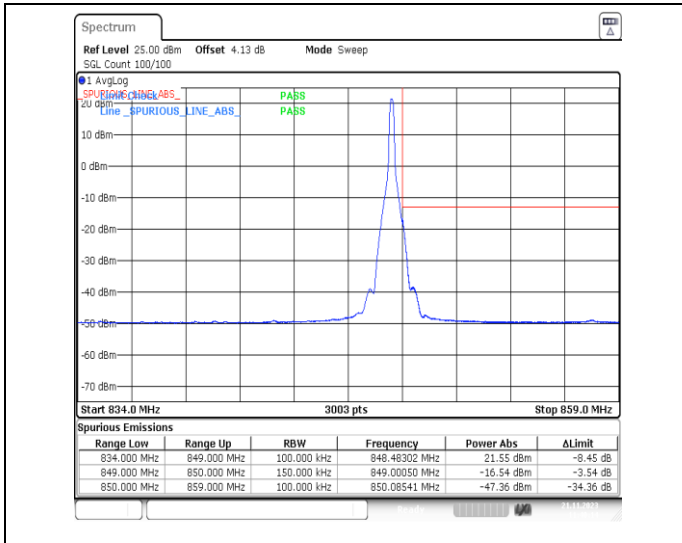
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Ant41-1--PASS-see graph



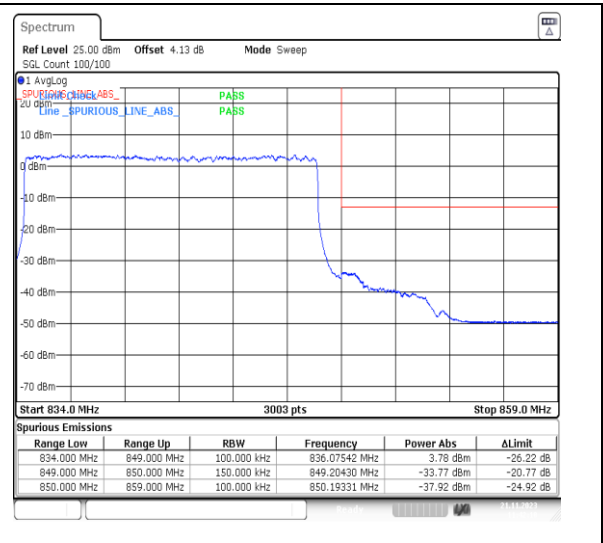
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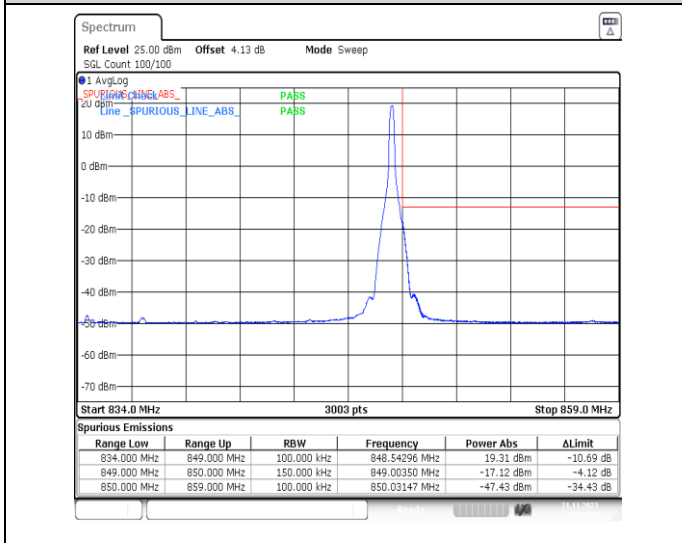
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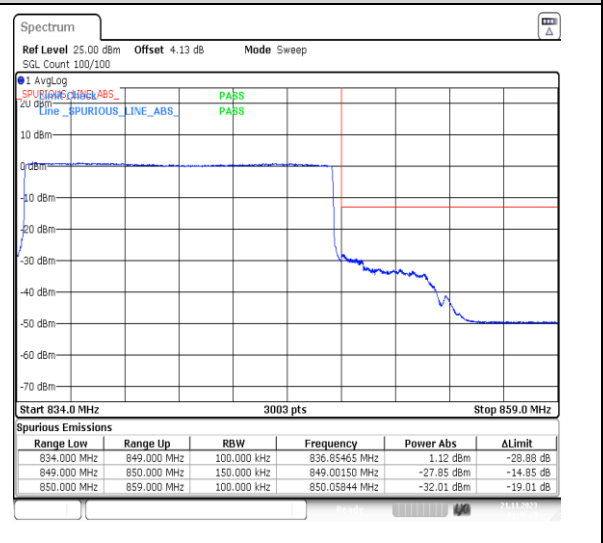
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1-N5-PC3-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant41-1--PASS-see graph



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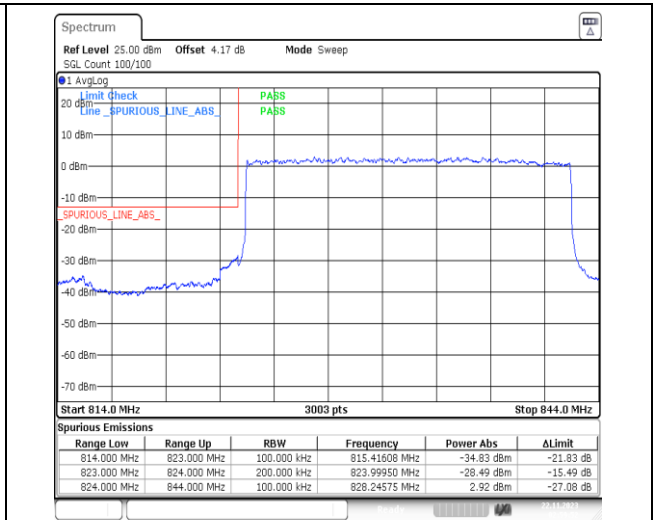
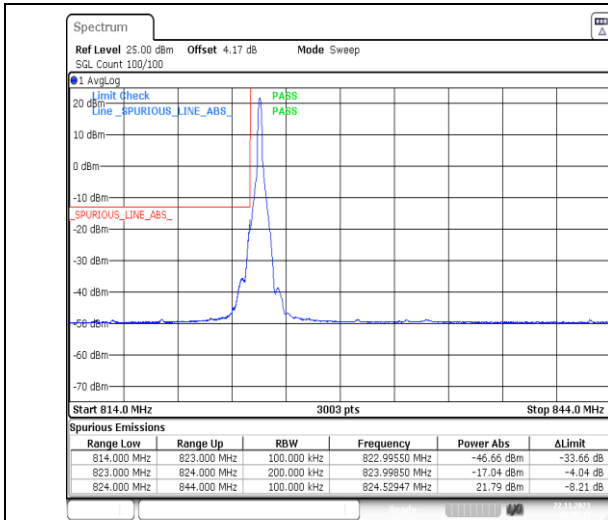
1-N5-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant41-1--PASS-see graph



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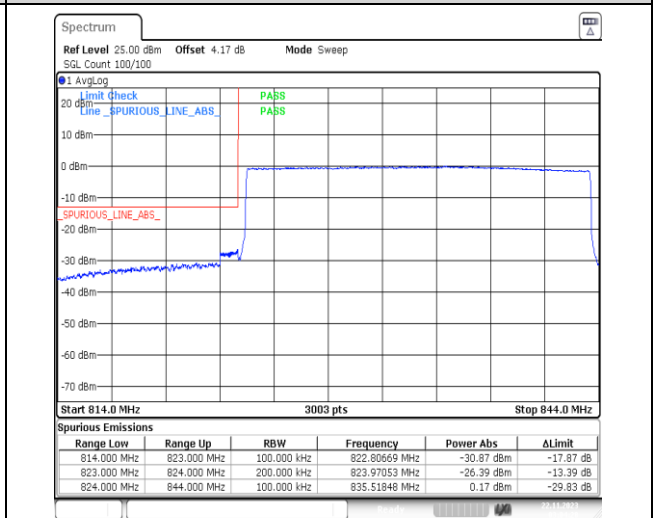
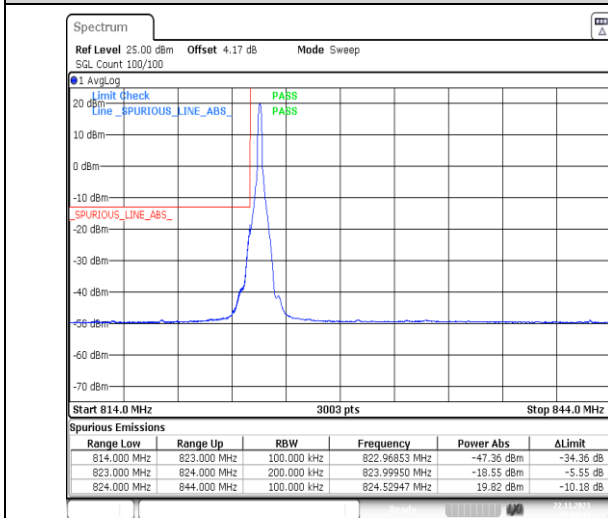
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1-N5-PC3-15-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant41-1--PASS-see graph

1-N5-PC3-15-20-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant41-1--PASS-see graph



1-N5-PC3-15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant41-1--PASS-see graph

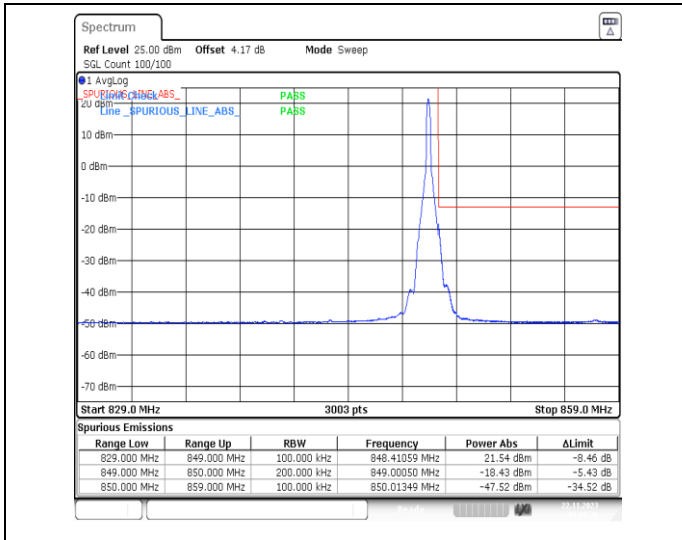
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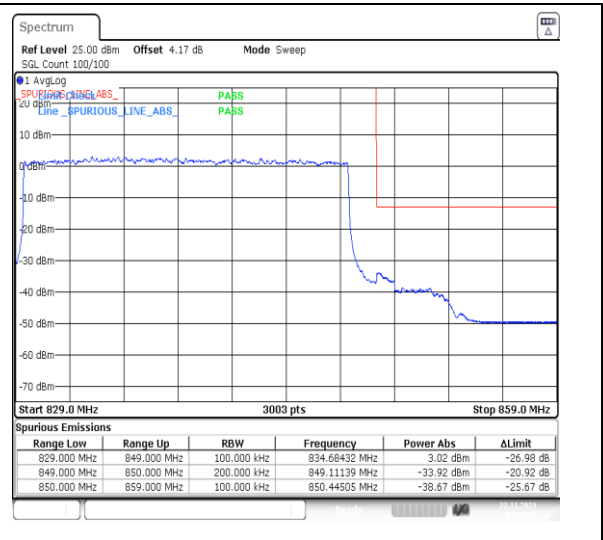
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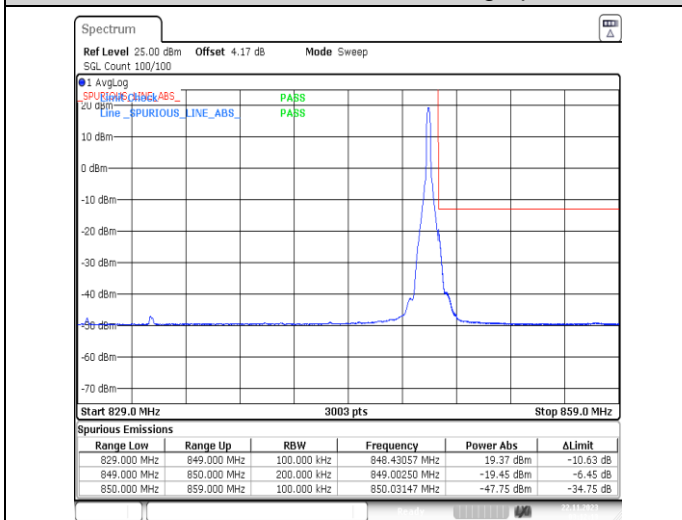
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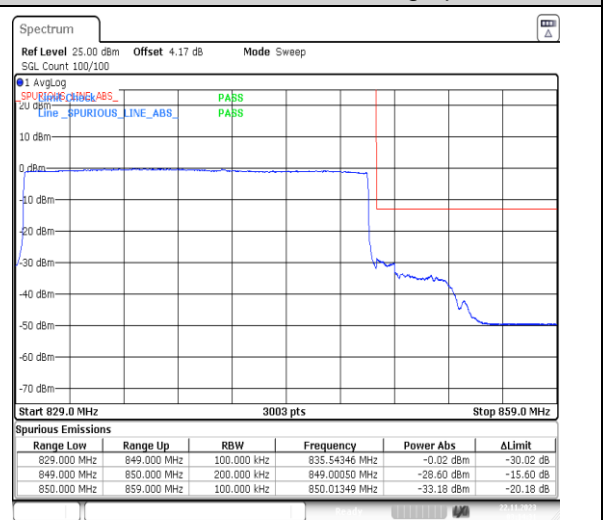
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1-N5-PC3-15-20-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant41-1--PASS-see graph



1-N5-PC3-15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant41-1--PASS-see graph



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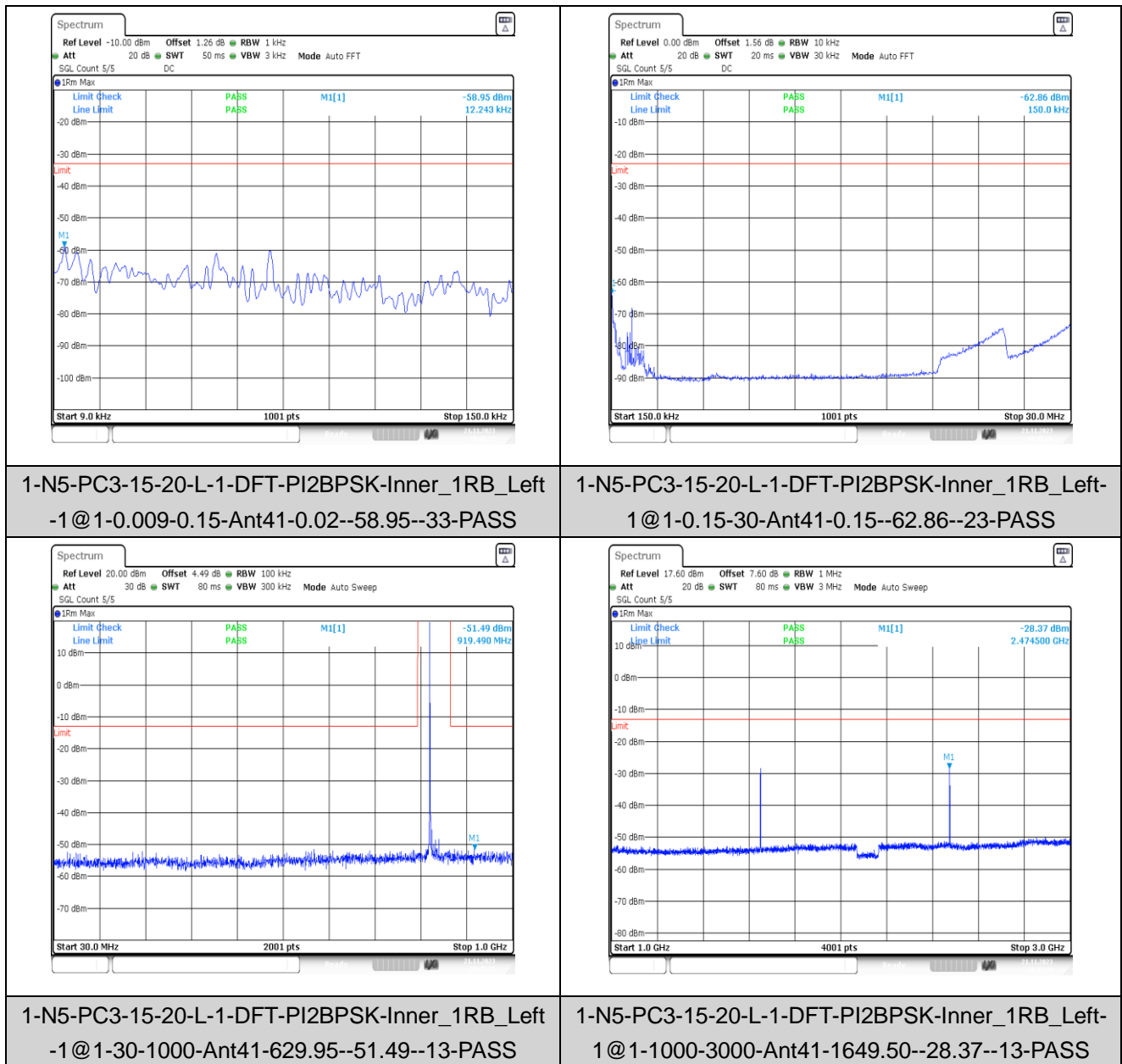
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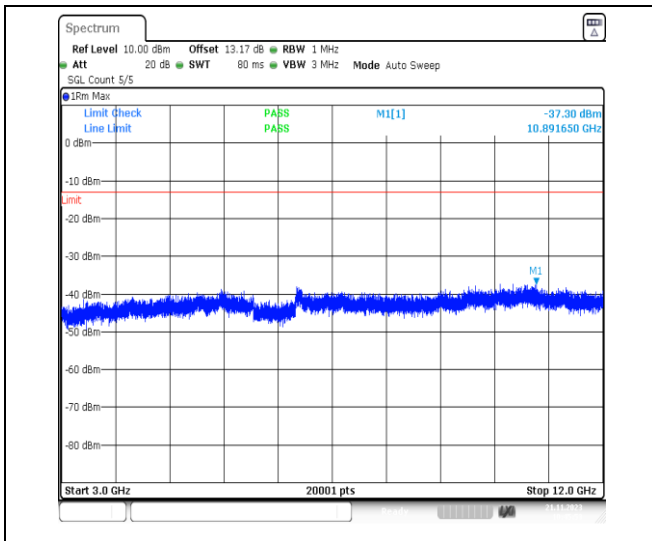
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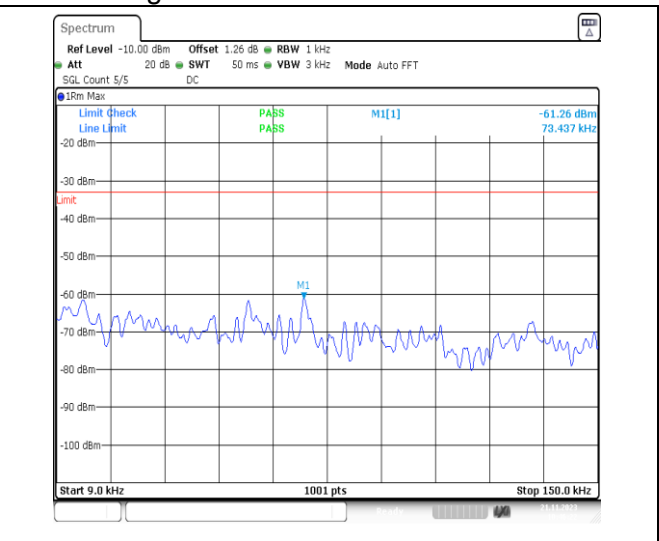
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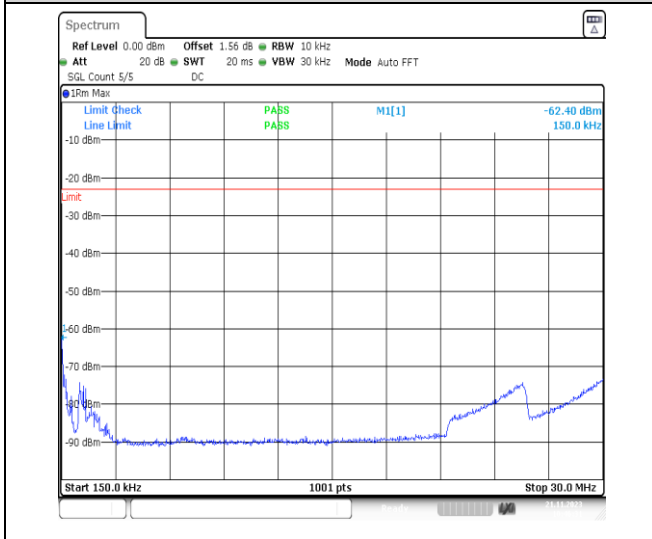
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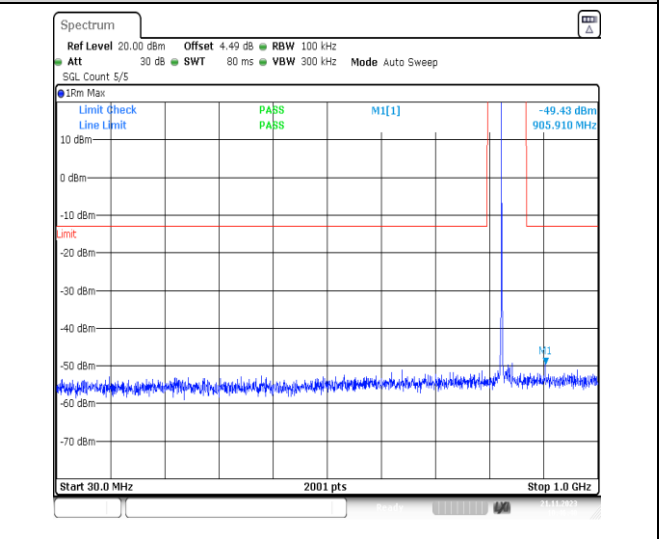
1-N5-PC3-15-20-L-1-DFT-PI2BPSK-Inner_1RB_Left
-1 @ 1-3000-12000-Ant41-6994.20--37.30--13-PASS



1-N5-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left
-1 @ 1-0.009-0.15-Ant41-0.02--61.26--33-PASS



1-N5-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left
t-1 @ 1-0.15-30-Ant41-0.15--62.40--23-PASS



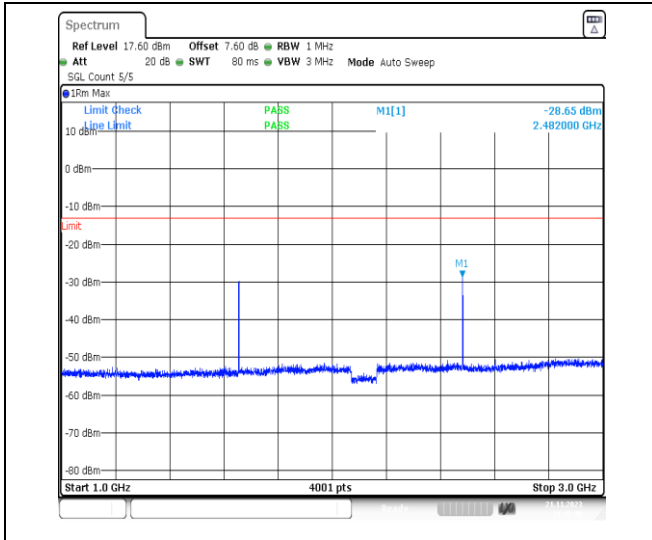
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-1 @ 1-30-1000-Ant41-975.75--49.43--13-PASS



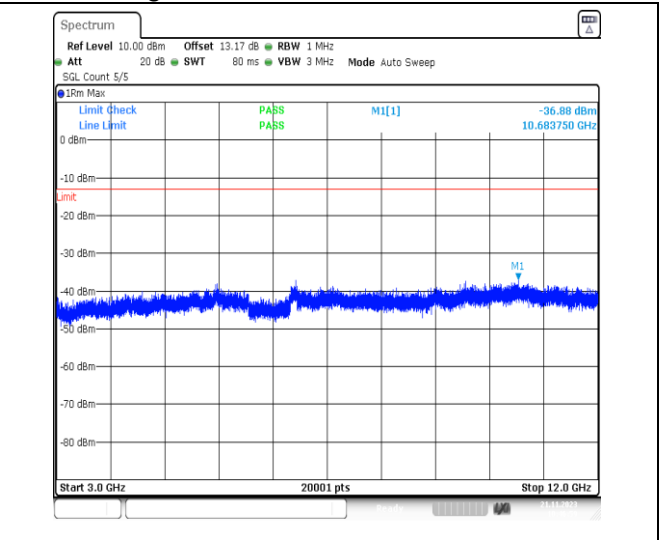
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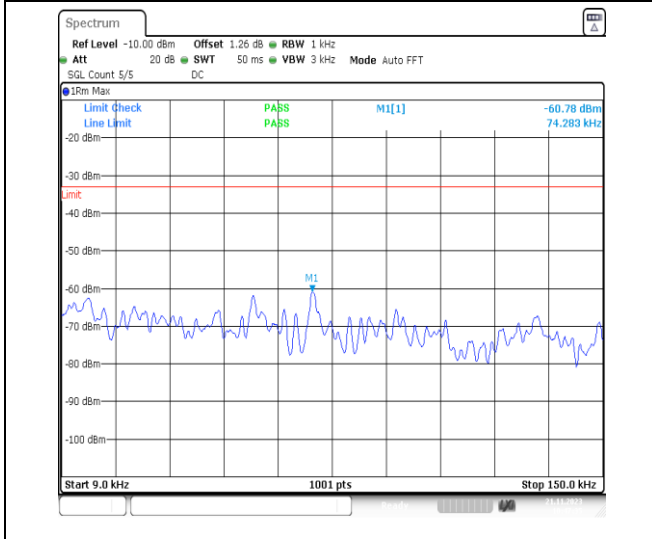
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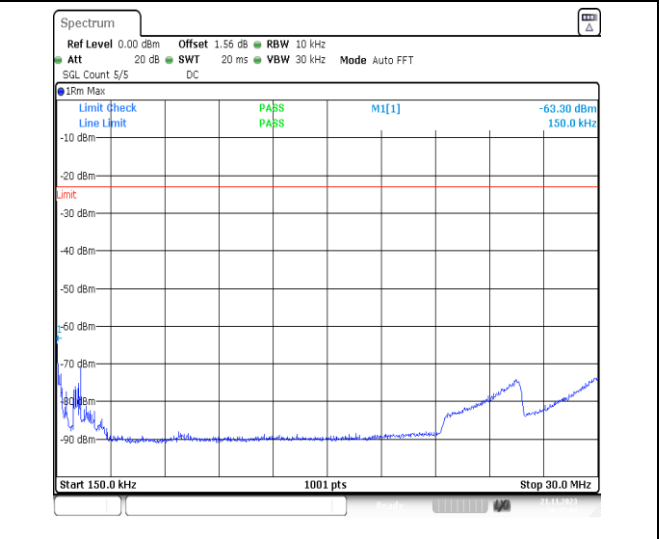
1-N5-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-1000-3000-Ant41-2481.50--28.65--13-PASS



1-N5-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left -1@1-3000-12000-Ant41-10694.10--36.88--13-PASS



1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left -1@1-0.009-0.15-Ant41-0.01--60.78--33-PASS



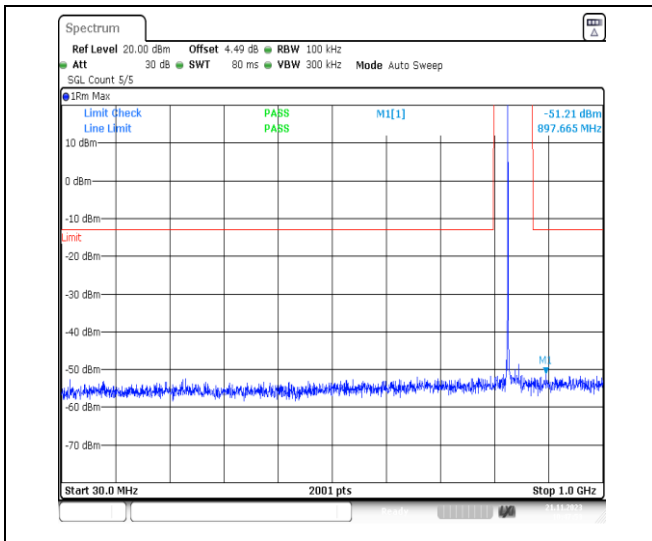
1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left- 1@1-0.15-30-Ant41-0.15--63.30--23-PASS



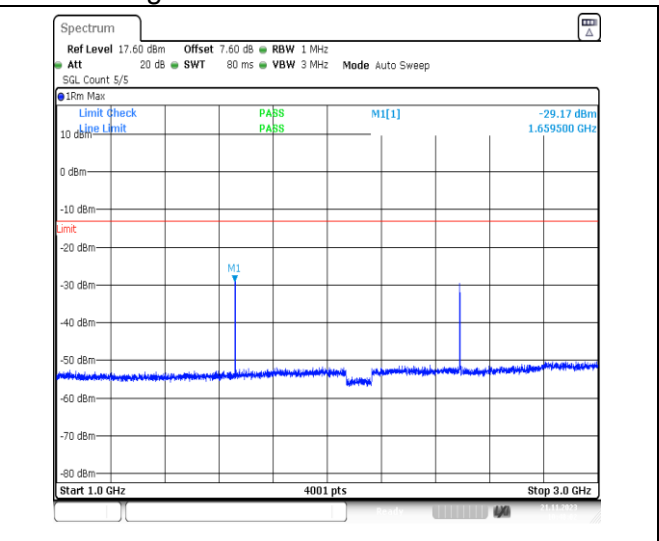
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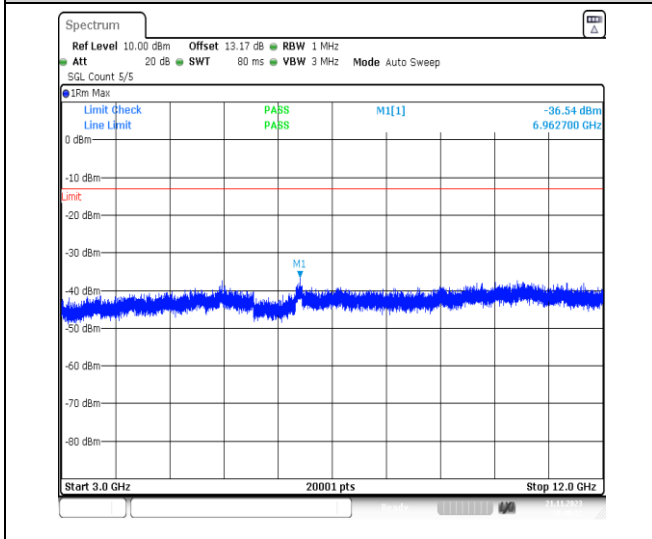
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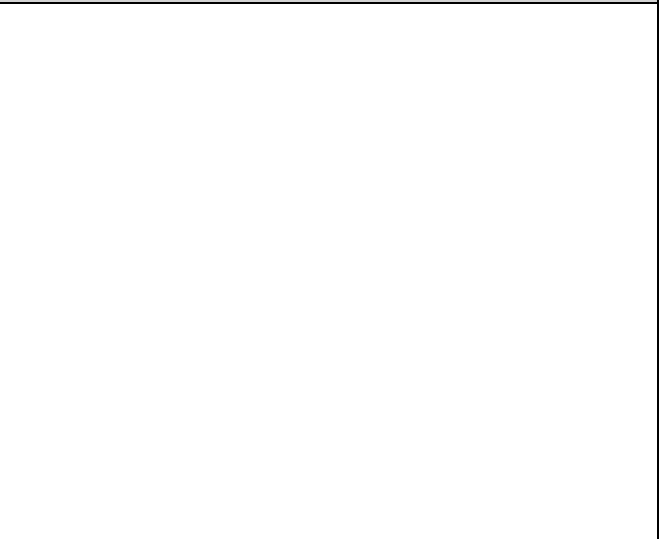
1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1 @ 1-30-1000-Ant41-888.45--51.21--13-PASS



1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1 @ 1-1000-3000-Ant41-1659.50--29.17--13-PASS



1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1 @ 1-3000-12000-Ant41-6946.50--36.54--13-PASS



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Report No.: SEWM2311000447RG02

Rev.: 01

Page: 30 of 37

Field Strength of Spurious Radiation

Test Band = SA Band5_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.1800	41.69	-48.22	25.28	-76.51	-13.00	63.51	Horizontal
2	2475.2700	38.94	-47.31	27.23	-76.40	-13.00	63.40	Horizontal
3	3300.3600	41.01	-46.68	28.48	-72.45	-13.00	59.45	Horizontal
4	4125.4500	40.12	-45.92	29.40	-71.65	-13.00	58.65	Horizontal
5	4950.5400	40.34	-45.70	31.29	-69.33	-13.00	56.33	Horizontal
6	5775.6300	38.36	-44.64	32.66	-68.88	-13.00	55.88	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.1800	43.28	-48.22	25.28	-74.92	-13.00	61.92	Vertical
2	2475.2700	42.09	-47.31	27.23	-73.25	-13.00	60.25	Vertical
3	3300.3600	42.51	-46.68	28.48	-70.95	-13.00	57.95	Vertical
4	4125.4500	40.42	-45.92	29.40	-71.35	-13.00	58.35	Vertical
5	4950.5400	41.39	-45.70	31.29	-68.28	-13.00	55.28	Vertical
6	5775.6300	39.29	-44.64	32.66	-67.95	-13.00	54.95	Vertical



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Member of the SGS Group (SGS SA)

Test Band = SA Band5_ 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	1655.1800	41.93	-48.21	25.28	-76.26	-13.00	63.26	Horizontal
2	2482.7700	39.37	-47.30	27.25	-75.94	-13.00	62.94	Horizontal
3	3310.3600	40.91	-46.66	28.49	-72.53	-13.00	59.53	Horizontal
4	4137.9500	40.39	-45.92	29.43	-71.36	-13.00	58.36	Horizontal
5	4965.5400	40.02	-45.73	31.32	-69.65	-13.00	56.65	Horizontal
6	5793.1300	38.83	-44.65	32.66	-68.43	-13.00	55.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.1800	43.46	-48.21	25.28	-74.73	-13.00	61.73	Vertical
2	2482.7700	42.19	-47.30	27.25	-73.12	-13.00	60.12	Vertical
3	3310.3600	41.99	-46.66	28.49	-71.45	-13.00	58.45	Vertical
4	4137.9500	40.40	-45.92	29.43	-71.35	-13.00	58.35	Vertical
5	4965.5400	40.16	-45.73	31.32	-69.51	-13.00	56.51	Vertical
6	5793.1300	38.94	-44.65	32.66	-68.32	-13.00	55.32	Vertical



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Test Band = SA Band5_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.1800	48.90	-48.21	25.29	-69.28	-13.00	56.28	Horizontal
2	2490.2700	39.36	-47.29	27.27	-75.91	-13.00	62.91	Horizontal
3	3320.3600	41.17	-46.65	28.49	-72.25	-13.00	59.25	Horizontal
4	4150.4500	40.39	-45.93	29.46	-71.34	-13.00	58.34	Horizontal
5	4980.5400	39.82	-45.77	31.36	-69.85	-13.00	56.85	Horizontal
6	5810.6300	38.73	-44.69	32.66	-68.56	-13.00	55.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.1800	43.35	-48.21	25.29	-74.83	-13.00	61.83	Vertical
2	2490.2700	42.19	-47.29	27.27	-73.08	-13.00	60.08	Vertical
3	3320.3600	43.00	-46.65	28.49	-70.42	-13.00	57.42	Vertical
4	4150.4500	41.16	-45.93	29.46	-70.57	-13.00	57.57	Vertical
5	4980.5400	40.82	-45.77	31.36	-68.85	-13.00	55.85	Vertical
6	5810.6300	38.84	-44.69	32.66	-68.45	-13.00	55.45	Vertical



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Test Band = NSA 7A_N5A_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.1800	43.86	-48.22	25.28	-74.34	-13.00	61.34	Horizontal
2	2475.2700	43.08	-47.31	27.23	-72.26	-13.00	59.26	Horizontal
3	3300.3600	41.96	-46.68	28.48	-71.50	-13.00	58.50	Horizontal
4	4125.4500	41.09	-45.92	29.40	-70.68	-13.00	57.68	Horizontal
5	4950.5400	41.48	-45.70	31.29	-68.19	-13.00	55.19	Horizontal
6	5775.6300	40.44	-44.64	32.66	-66.80	-13.00	53.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.1800	44.42	-48.22	25.28	-73.78	-13.00	60.78	Vertical
2	2475.2700	43.14	-47.31	27.23	-72.20	-13.00	59.20	Vertical
3	3300.3600	42.97	-46.68	28.48	-70.49	-13.00	57.49	Vertical
4	4125.4500	41.28	-45.92	29.40	-70.49	-13.00	57.49	Vertical
5	4950.5400	42.38	-45.70	31.29	-67.29	-13.00	54.29	Vertical
6	5775.6300	40.72	-44.64	32.66	-66.52	-13.00	53.52	Vertical



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Test Band = NSA 7A_N5A_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	1655.1800	43.74	-48.21	25.28	-74.45	-13.00	61.45	Horizontal
2	2482.7700	42.66	-47.30	27.25	-72.65	-13.00	59.65	Horizontal
3	3310.3600	42.85	-46.66	28.49	-70.59	-13.00	57.59	Horizontal
4	4137.9500	41.63	-45.92	29.43	-70.12	-13.00	57.12	Horizontal
5	4965.5400	41.56	-45.73	31.32	-68.11	-13.00	55.11	Horizontal
6	5793.1300	40.87	-44.65	32.66	-66.39	-13.00	53.39	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.1800	43.80	-48.21	25.28	-74.39	-13.00	61.39	Vertical
2	2482.7700	42.75	-47.30	27.25	-72.56	-13.00	59.56	Vertical
3	3310.3600	42.91	-46.66	28.49	-70.53	-13.00	57.53	Vertical
4	4137.9500	41.55	-45.92	29.43	-70.20	-13.00	57.20	Vertical
5	4965.5400	41.25	-45.73	31.32	-68.42	-13.00	55.42	Vertical
6	5793.1300	40.46	-44.65	32.66	-66.80	-13.00	53.80	Vertical



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Test Band = NSA 7A_N5A_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.1800	43.70	-48.21	25.29	-74.48	-13.00	61.48	Horizontal
2	2490.2700	42.73	-47.29	27.27	-72.54	-13.00	59.54	Horizontal
3	3320.3600	42.82	-46.65	28.49	-70.60	-13.00	57.60	Horizontal
4	4150.4500	41.28	-45.93	29.46	-70.45	-13.00	57.45	Horizontal
5	4980.5400	41.07	-45.77	31.36	-68.60	-13.00	55.60	Horizontal
6	5810.6300	40.84	-44.69	32.66	-66.45	-13.00	53.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.1800	43.83	-48.21	25.29	-74.35	-13.00	61.35	Vertical
2	2490.2700	42.42	-47.29	27.27	-72.85	-13.00	59.85	Vertical
3	3320.3600	43.16	-46.65	28.49	-70.26	-13.00	57.26	Vertical
4	4150.4500	41.67	-45.93	29.46	-70.06	-13.00	57.06	Vertical
5	4980.5400	41.40	-45.77	31.36	-68.27	-13.00	55.27	Vertical
6	5810.6300	40.38	-44.69	32.66	-66.91	-13.00	53.91	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)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-5.700000	-0.006814	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-8.600000	-0.010281	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-7.500000	-0.008966	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	-0.400000	-0.000478	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	-1.900000	-0.002271	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	-5.200000	-0.006216	±2.5	PASS



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Frequency Error VS. Temperature

Temperature											
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.600000	-0.005499	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-8.600000	-0.010281	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.800000	-0.005738	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-7.500000	-0.008966	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.700000	-0.004423	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-7.900000	-0.009444	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.900000	-0.008249	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.900000	-0.007053	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-7.500000	-0.008966	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	-2.600000	-0.003108	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	-2.800000	-0.003347	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	-2.200000	-0.002630	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	-2.600000	-0.003108	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	0.600000	0.000717	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	-5.300000	-0.006336	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	-0.500000	-0.000598	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	0.100000	0.000120	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	-4.900000	-0.005858	±2.5	PASS

---End of Attachment---



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 Wireless Laboratory

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