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Appendix B.20

NR Band n5



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N5	15	5	DFT-QPSK	L	Inner_1RB_Left	24.43	17.68	38.45	PASS
N5	15	5	DFT-16QAM	L	Inner_1RB_Left	23.40	16.65	38.45	PASS
N5	15	5	DFT-QPSK	M	Inner_1RB_Left	24.67	17.92	38.45	PASS
N5	15	5	DFT-16QAM	M	Inner_1RB_Left	23.52	16.77	38.45	PASS
N5	15	5	DFT-QPSK	H	Inner_1RB_Left	24.60	17.85	38.45	PASS
N5	15	5	DFT-16QAM	H	Inner_1RB_Left	23.51	16.76	38.45	PASS
N5	15	10	DFT-QPSK	L	Inner_1RB_Left	24.37	17.62	38.45	PASS
N5	15	10	DFT-16QAM	L	Inner_1RB_Left	23.37	16.62	38.45	PASS
N5	15	10	DFT-QPSK	M	Inner_1RB_Left	24.50	17.75	38.45	PASS
N5	15	10	DFT-16QAM	M	Inner_1RB_Left	23.42	16.67	38.45	PASS
N5	15	10	DFT-QPSK	H	Inner_1RB_Left	24.52	17.77	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Left	23.46	16.71	38.45	PASS
N5	15	15	DFT-QPSK	L	Inner_1RB_Left	24.56	17.81	38.45	PASS
N5	15	15	DFT-16QAM	L	Inner_1RB_Left	23.49	16.74	38.45	PASS
N5	15	15	DFT-QPSK	M	Inner_1RB_Left	24.66	17.91	38.45	PASS
N5	15	15	DFT-16QAM	M	Inner_1RB_Left	23.64	16.89	38.45	PASS
N5	15	15	DFT-QPSK	H	Inner_1RB_Left	24.68	17.93	38.45	PASS
N5	15	15	DFT-16QAM	H	Inner_1RB_Left	23.64	16.89	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	24.59	17.84	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	24.62	17.87	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Outer_Full	24.10	17.35	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Left	24.38	17.63	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Right	24.55	17.80	38.45	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	23.65	16.90	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Left	23.44	16.69	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Right	23.52	16.77	38.45	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	22.59	15.84	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Left	22.10	15.35	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Right	22.21	15.46	38.45	PASS



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N5	15	20	DFT-64QAM	L	Outer_Full	22.18	15.43	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Left	19.59	12.84	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Right	19.57	12.82	38.45	PASS
N5	15	20	DFT-256QAM	L	Outer_Full	20.17	13.42	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	24.55	17.80	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.49	17.74	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	24.22	17.47	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Left	24.46	17.71	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Right	24.45	17.70	38.45	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	23.77	17.02	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Left	23.48	16.73	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Right	23.52	16.77	38.45	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	22.63	15.88	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Left	22.13	15.38	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Right	22.26	15.51	38.45	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	22.18	15.43	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Left	19.53	12.78	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Right	19.64	12.89	38.45	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	20.11	13.36	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	24.57	17.82	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.49	17.74	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Outer_Full	24.18	17.43	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Left	24.44	17.69	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Right	24.35	17.60	38.45	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	23.72	16.97	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Left	23.43	16.68	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Right	23.45	16.70	38.45	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	22.56	15.81	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Left	22.12	15.37	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Right	22.19	15.44	38.45	PASS
N5	15	20	DFT-64QAM	H	Outer_Full	22.14	15.39	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Left	19.56	12.81	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Right	19.59	12.84	38.45	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	20.13	13.38	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	6.34	≤13	PASS
N5	15	20	CP-256QAM	L	Outer_Full	6.34	≤13	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	6.32	≤13	PASS
N5	15	20	CP-256QAM	M	Outer_Full	6.32	≤13	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	6.32	≤13	PASS
N5	15	20	CP-256QAM	H	Outer_Full	6.32	≤13	PASS



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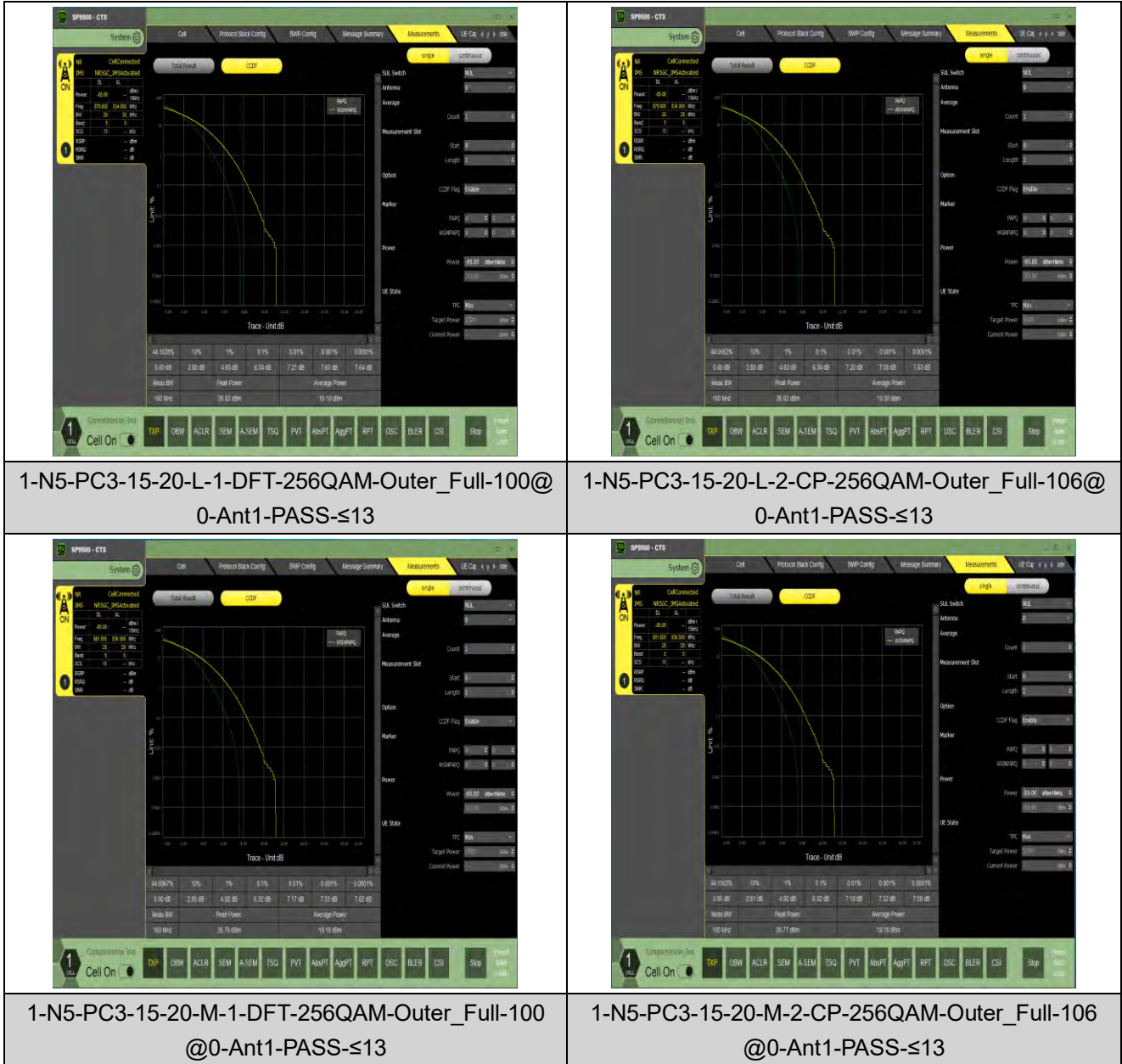
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Test Graphs



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1-N5-PC3-15-20-H-1-DFT-256QAM-Outer_Full-100
@0-Ant1-PASS≤13

1-N5-PC3-15-20-H-2-CP-256QAM-Outer_Full-106@
0-Ant1-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	4.499	5.180	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.507	5.150	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.51	5.170	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.5	5.200	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.526	5.250	PASS
N5	15	5	CP-QPSK	M	Outer_Full	4.512	5.330	PASS
N5	15	5	CP-16QAM	M	Outer_Full	4.578	5.370	PASS
N5	15	5	CP-64QAM	M	Outer_Full	4.531	5.290	PASS
N5	15	5	CP-256QAM	M	Outer_Full	4.533	5.340	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.925	9.760	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.907	9.600	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.96	9.740	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	8.936	9.680	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.917	9.660	PASS
N5	15	10	CP-QPSK	M	Outer_Full	9.287	10.180	PASS
N5	15	10	CP-16QAM	M	Outer_Full	9.273	10.240	PASS
N5	15	10	CP-64QAM	M	Outer_Full	9.272	10.040	PASS
N5	15	10	CP-256QAM	M	Outer_Full	9.295	10.180	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.458	14.730	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.429	14.520	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.496	14.610	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.416	14.610	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.468	14.550	PASS
N5	15	15	CP-QPSK	M	Outer_Full	14.145	15.390	PASS
N5	15	15	CP-16QAM	M	Outer_Full	14.157	15.420	PASS
N5	15	15	CP-64QAM	M	Outer_Full	14.18	15.450	PASS
N5	15	15	CP-256QAM	M	Outer_Full	14.12	15.330	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.834	19.120	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.855	19.080	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.824	19.080	PASS



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N5	15	20	DFT-64QAM	M	Outer_Full	17.849	19.080	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	17.837	19.000	PASS
N5	15	20	CP-QPSK	M	Outer_Full	18.908	20.240	PASS
N5	15	20	CP-16QAM	M	Outer_Full	18.949	20.200	PASS
N5	15	20	CP-64QAM	M	Outer_Full	18.898	20.240	PASS
N5	15	20	CP-256QAM	M	Outer_Full	18.946	20.160	PASS

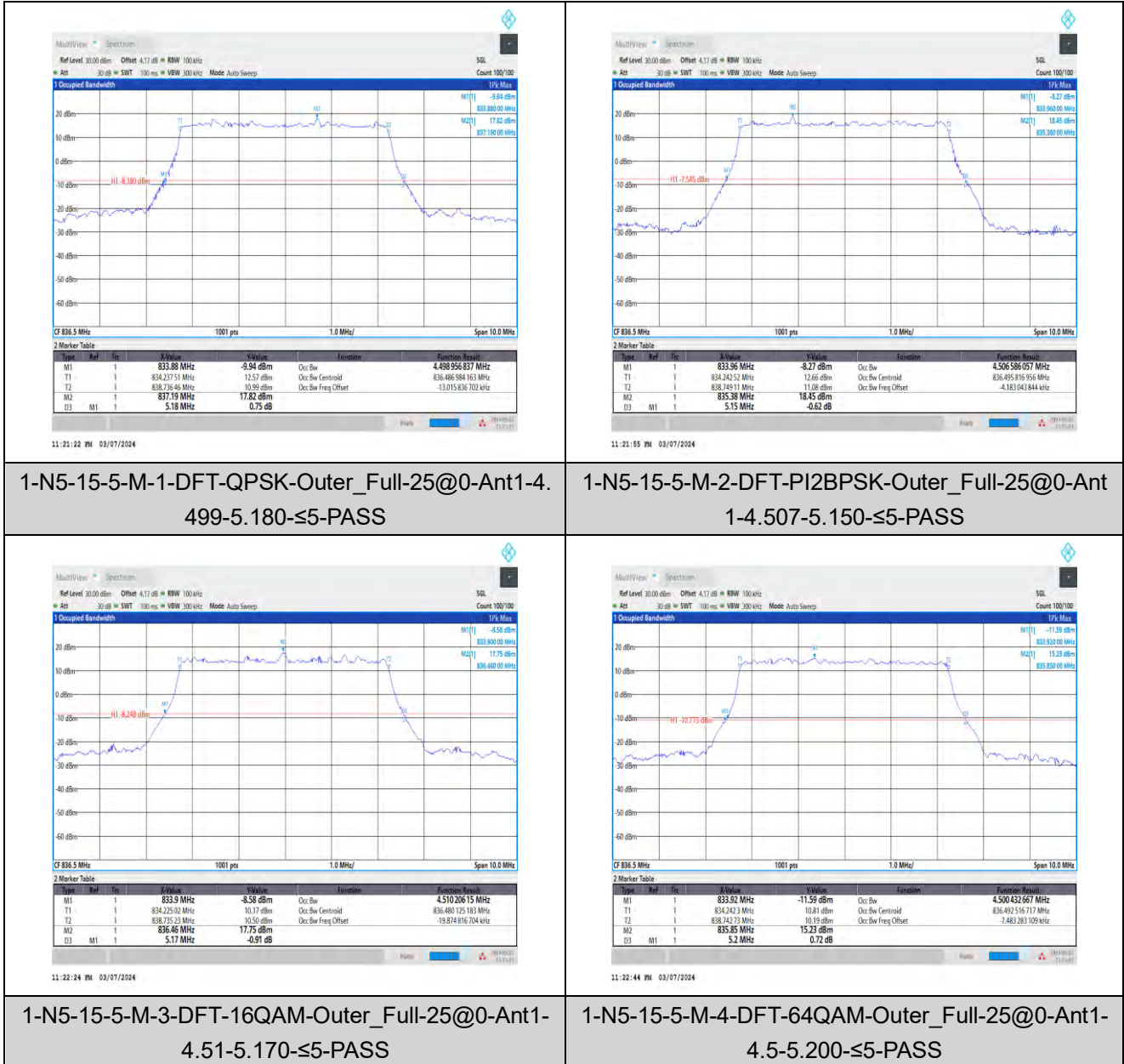


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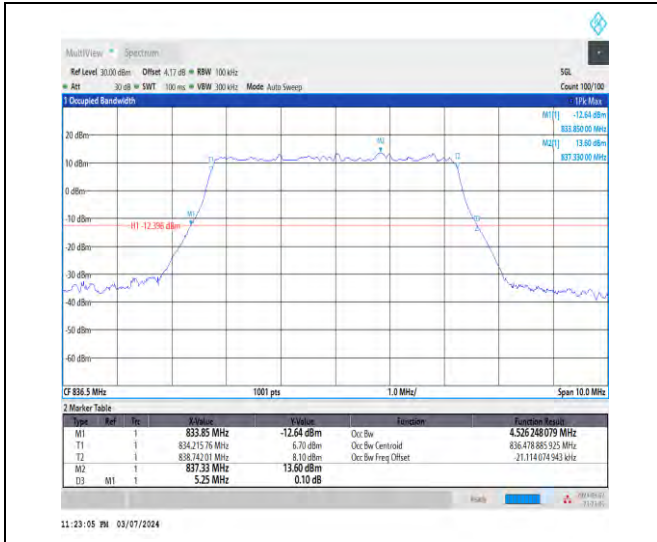
Test Graphs



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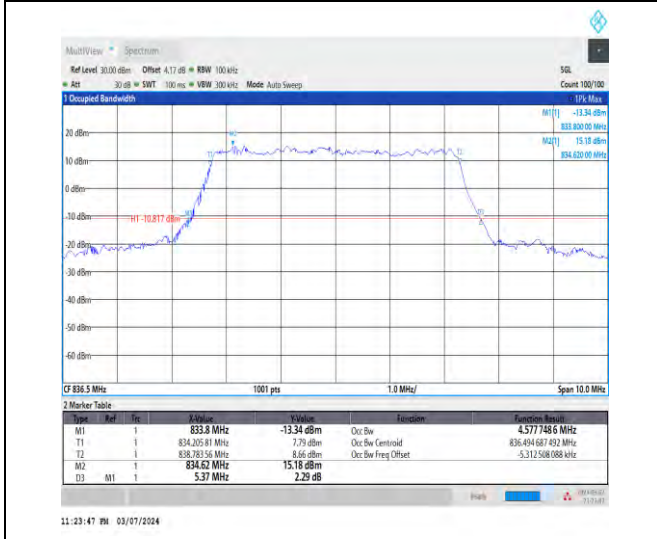
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1-N5-15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant1
-4.526-5.250-≤5-PASS



1-N5-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant1-4.
512-5.330-≤5-PASS



1-N5-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant1-4.
578-5.370-≤5-PASS



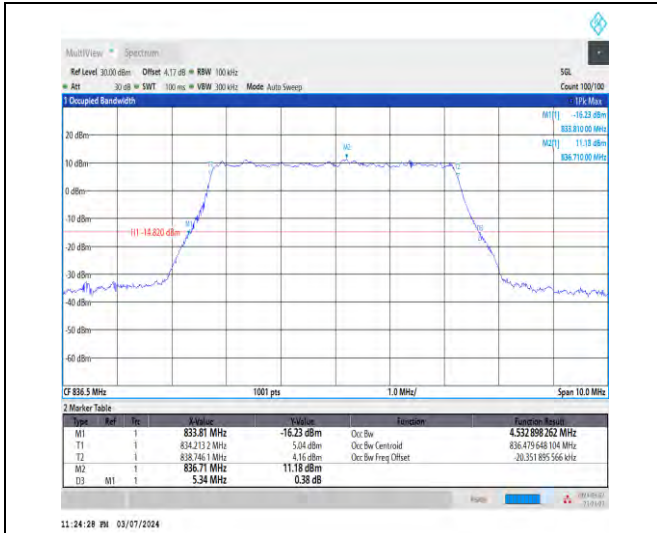
1-N5-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant1-4
.531-5.290-≤5-PASS



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1-N5-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant1-4.533-5.340-≤5-PASS



1-N5-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.925-9.760-≤10-PASS



1-N5-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.907-9.600-≤10-PASS



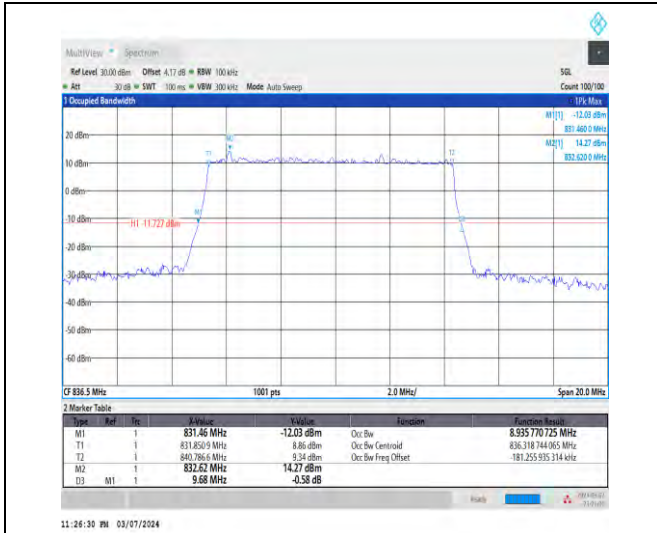
1-N5-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.96-9.740-≤10-PASS



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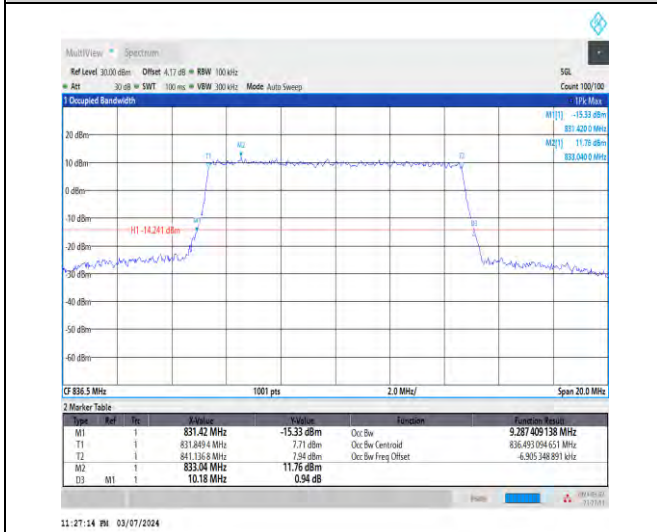
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1-N5-15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant1
-8.936-9.680-≤10-PASS



1-N5-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant
1-8.917-9.660-≤10-PASS



1-N5-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-9.
287-10.180-≤10-PASS



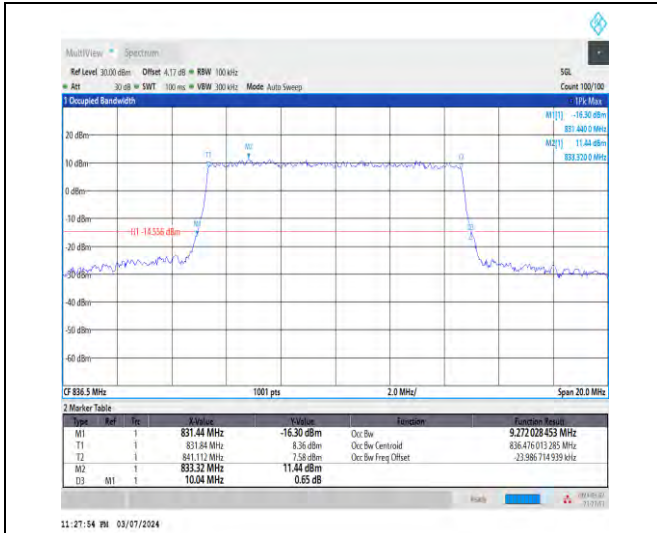
1-N5-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-
9.273-10.240-≤10-PASS



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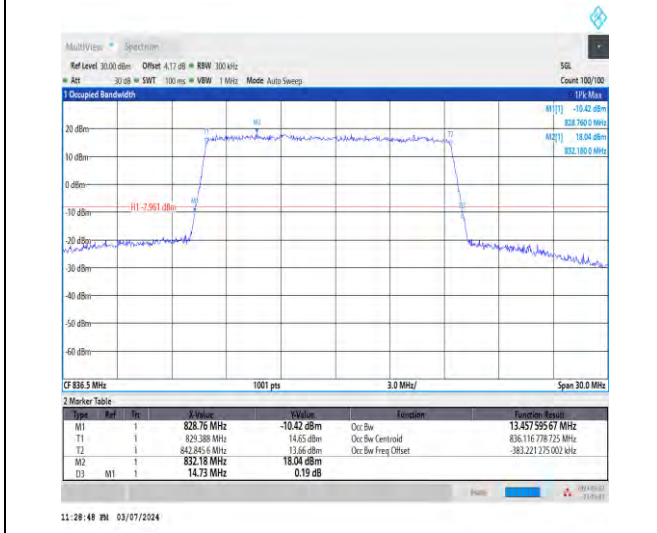
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1-N5-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.272-10.040-≤10-PASS

1-N5-15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant1-9.295-10.180-≤10-PASS



1-N5-15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.458-14.730-≤15-PASS

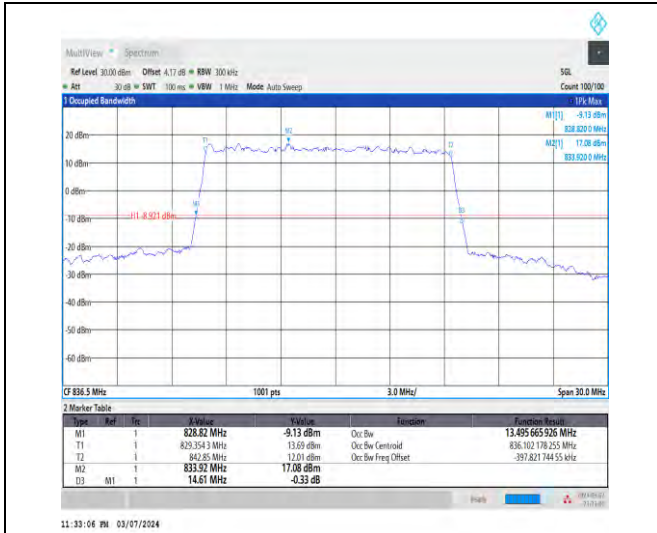
1-N5-15-15-M-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.429-14.520-≤15-PASS



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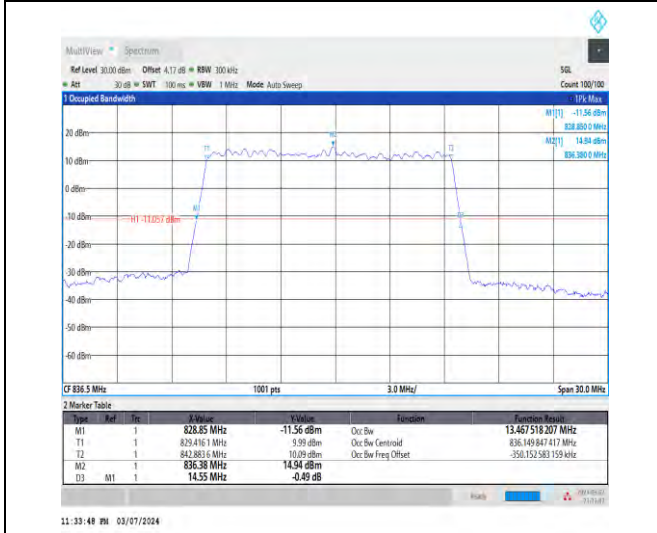
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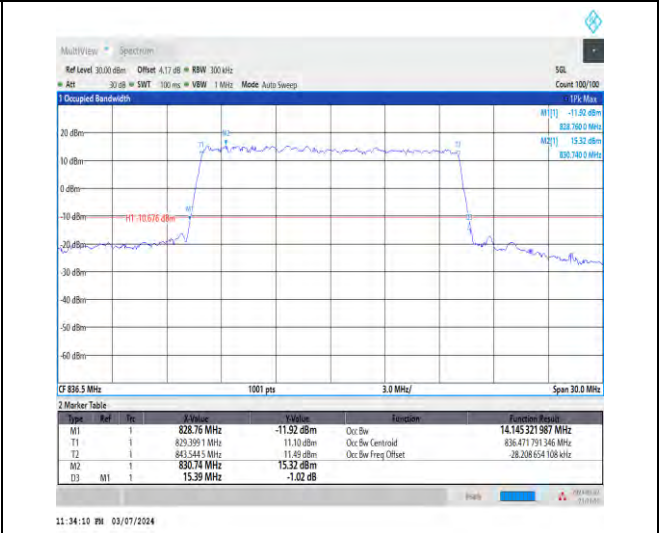
1-N5-15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant1
-13.496-14.610-≤15-PASS



1-N5-15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant1
-13.416-14.610-≤15-PASS



1-N5-15-15-M-5-DFT-256QAM-Outer_Full-75@0-Ant
1-13.468-14.550-≤15-PASS



1-N5-15-15-M-6-CP-QPSK-Outer_Full-79@0-Ant1-1
4.145-15.390-≤15-PASS



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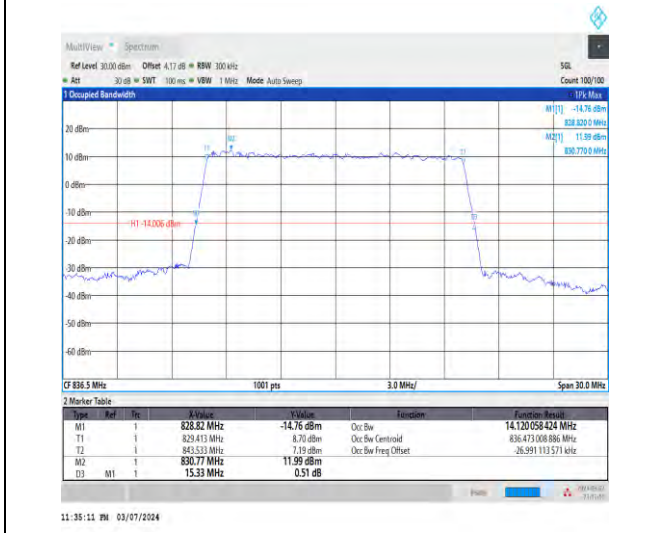
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1-N5-15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant1-14.157-15.420-≤15-PASS

1-N5-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant1-14.18-15.450-≤15-PASS



1-N5-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant1-14.12-15.330-≤15-PASS

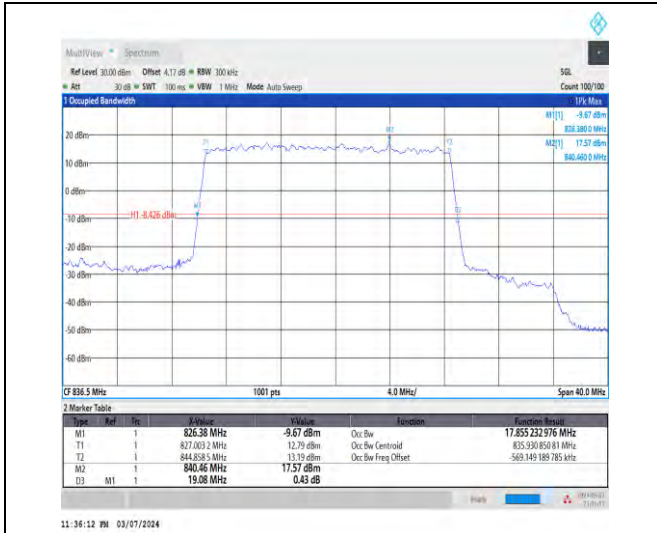
1-N5-15-20-M-1-DFT-QPSK-Outer_Full-100@0-Ant1-17.834-19.120-≤20-PASS



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1-N5-15-20-M-2-DFT-PI2BPSK-Outer_Full-100@0-A
nt1-17.855-19.080-≤20-PASS

1-N5-15-20-M-3-DFT-16QAM-Outer_Full-100@0-Ant
1-17.824-19.080-≤20-PASS



1-N5-15-20-M-4-DFT-64QAM-Outer_Full-100@0-Ant
1-17.849-19.080-≤20-PASS

1-N5-15-20-M-5-DFT-256QAM-Outer_Full-100@0-A
nt1-17.837-19.000-≤20-PASS



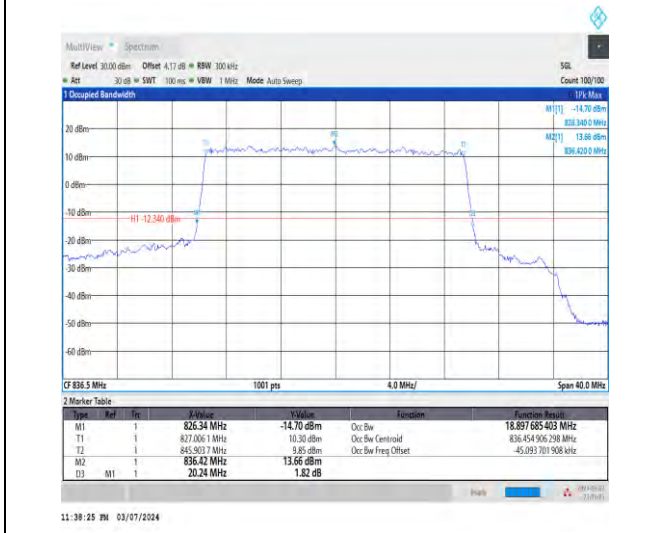
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1-N5-15-20-M-6-CP-QPSK-Outer_Full-106@0-Ant1-18.908-20.240-≤20-PASS

1-N5-15-20-M-7-CP-16QAM-Outer_Full-106@0-Ant 1-18.949-20.200-≤20-PASS



1-N5-15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant1-18.898-20.240-≤20-PASS

1-N5-15-20-M-9-CP-256QAM-Outer_Full-106@0-An t1-18.946-20.160-≤20-PASS



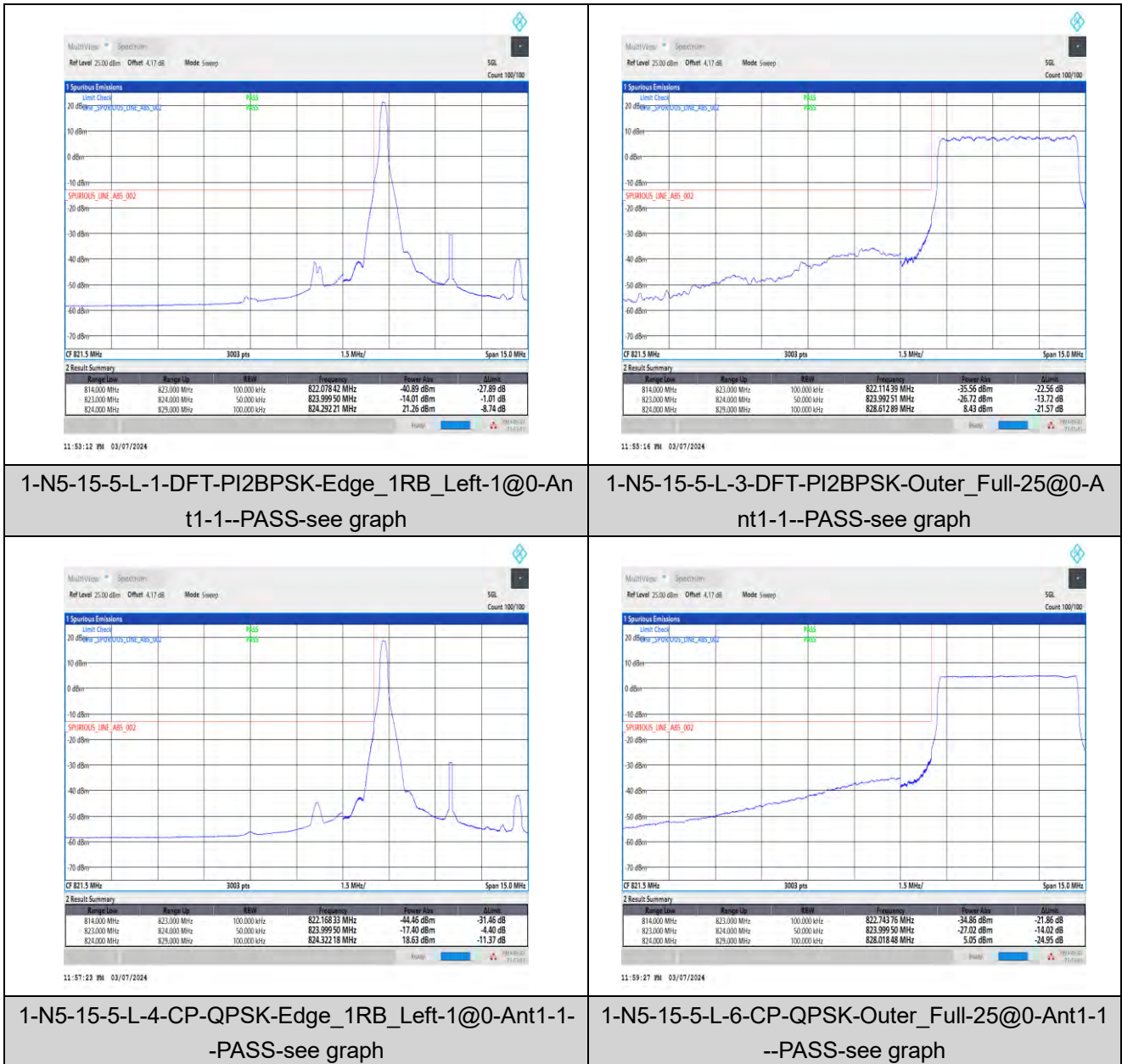
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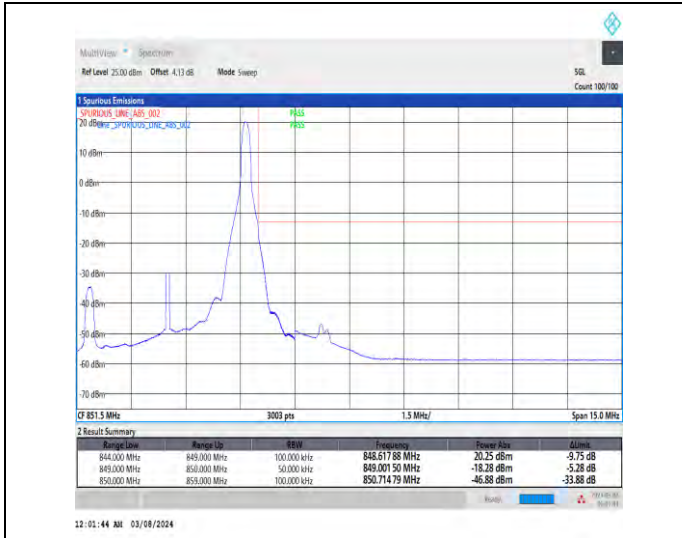
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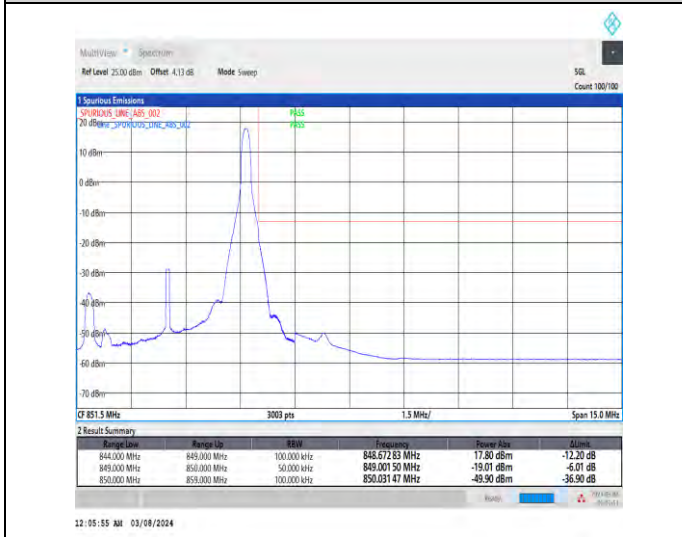
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1-N5-15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant1-1--PASS-see graph



1-N5-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-1--PASS-see graph



1-N5-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant1-1--PASS-see graph



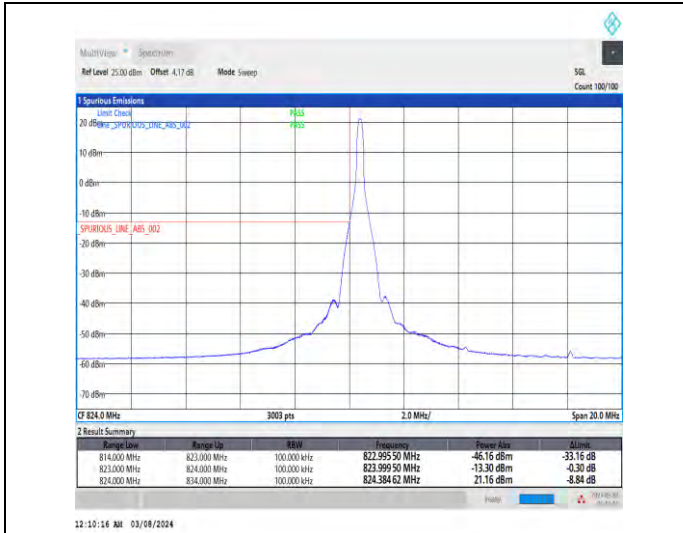
1-N5-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-1--PASS-see graph



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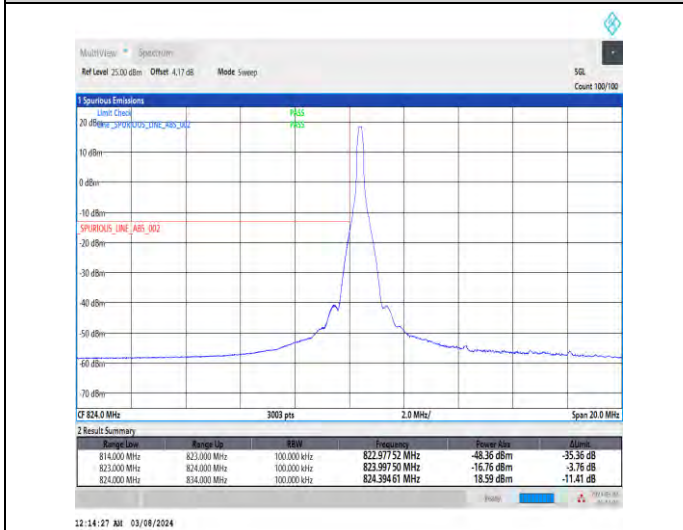
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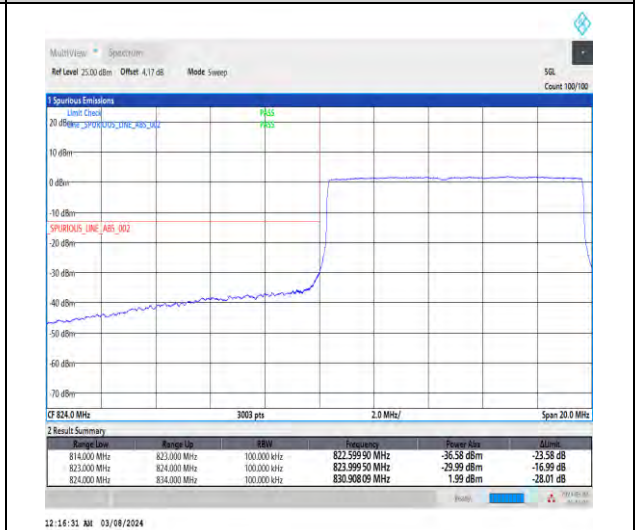
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1-N5-15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N5-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



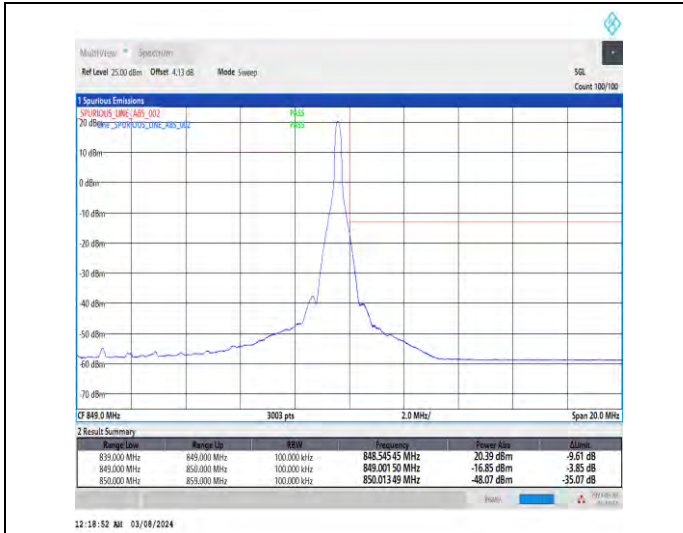
1-N5-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-1--PASS-see graph



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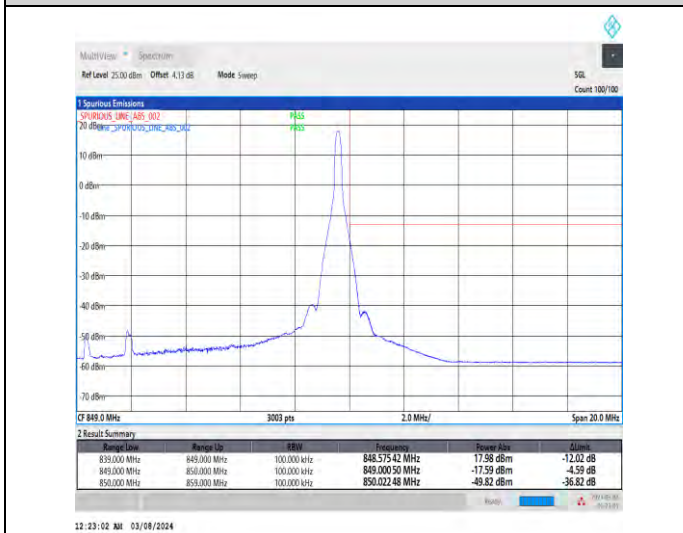
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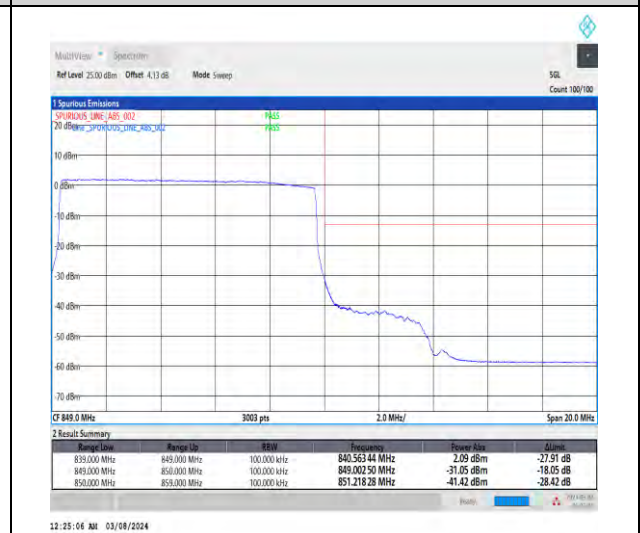
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1-Ant1-1--PASS-see graph



1-N5-15-10-H-3-DFT-PI2BPSK-Outer_Full-50@0-
Ant1-1--PASS-see graph



1-N5-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-An
t1-1--PASS-see graph



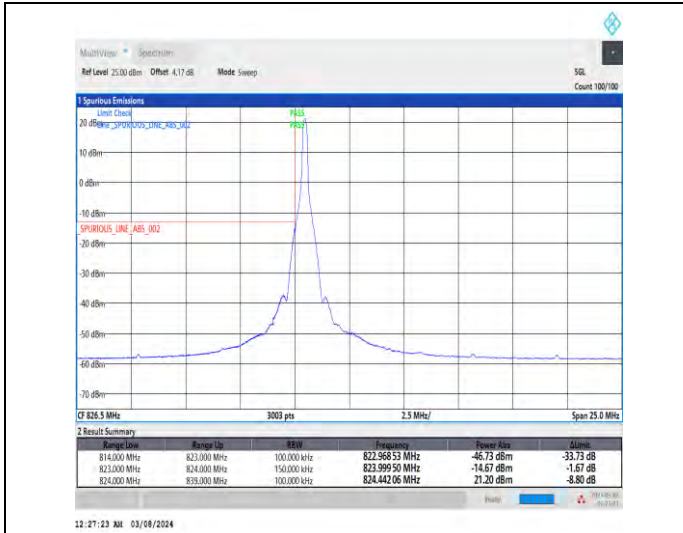
1-N5-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1
-1--PASS-see graph



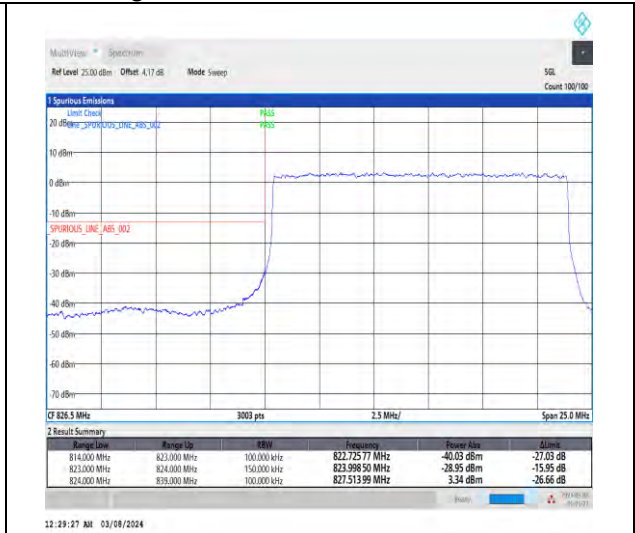
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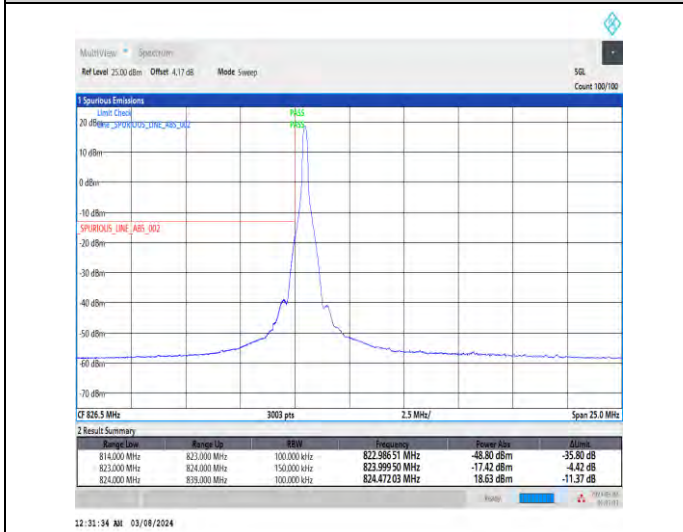
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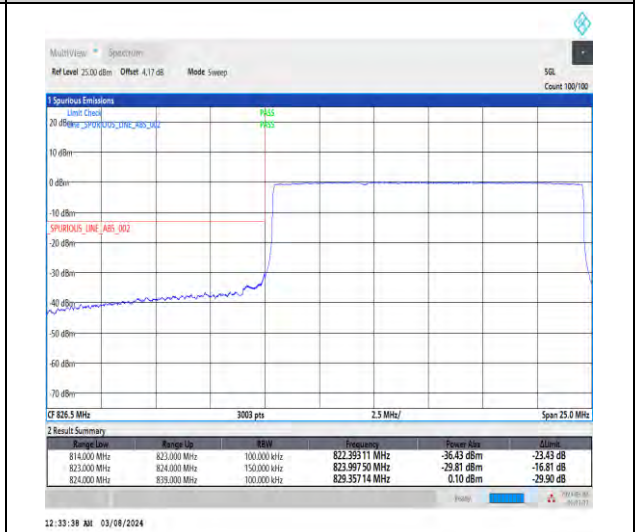
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1-N5-15-15-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N5-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



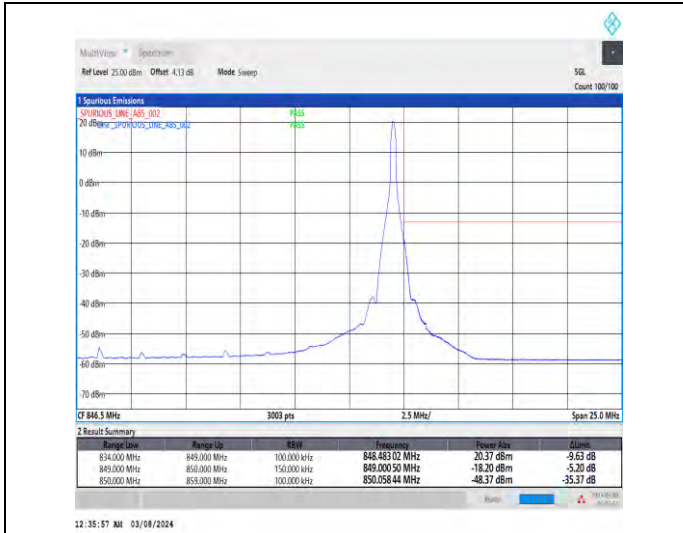
1-N5-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-1--PASS-see graph



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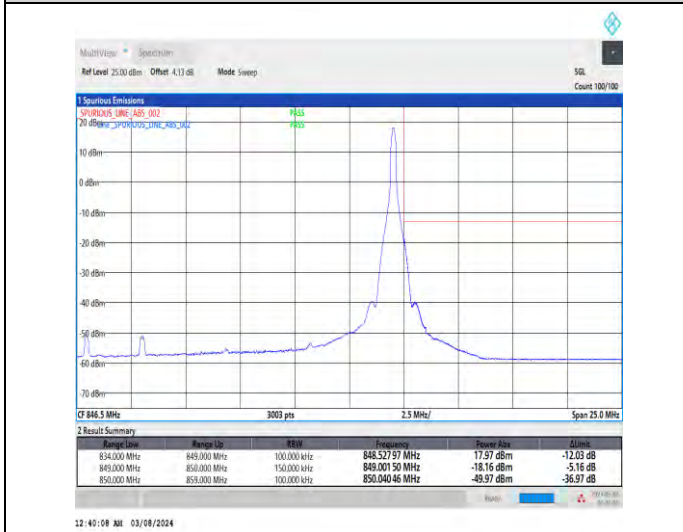
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1-N5-15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@78-Ant1-1--PASS-see graph



1-N5-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N5-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant1-1--PASS-see graph



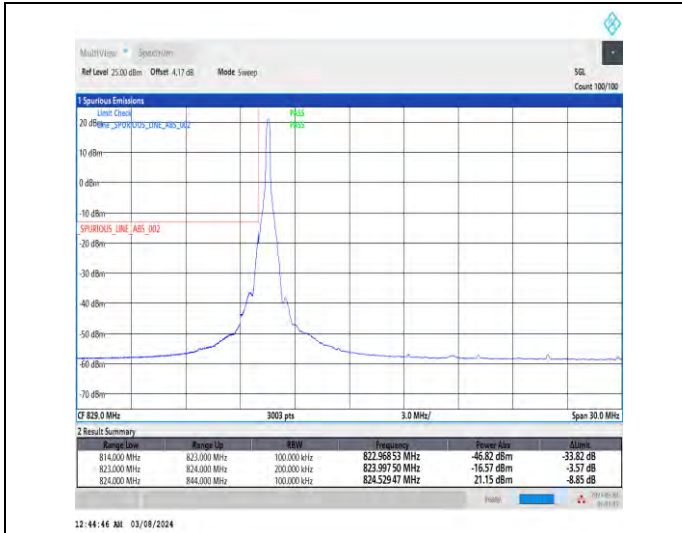
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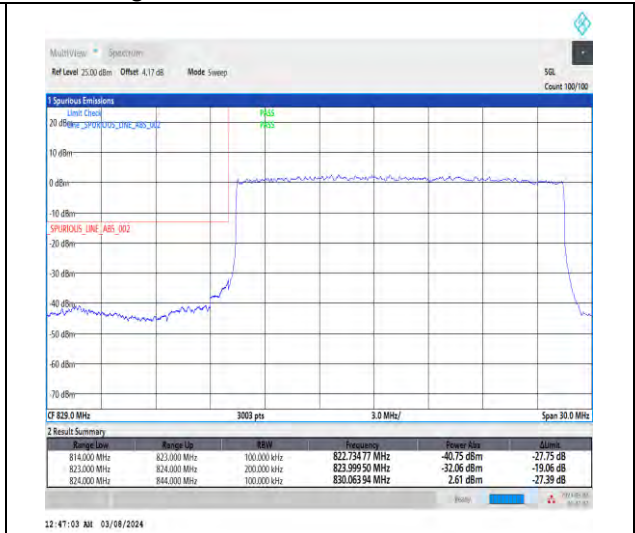
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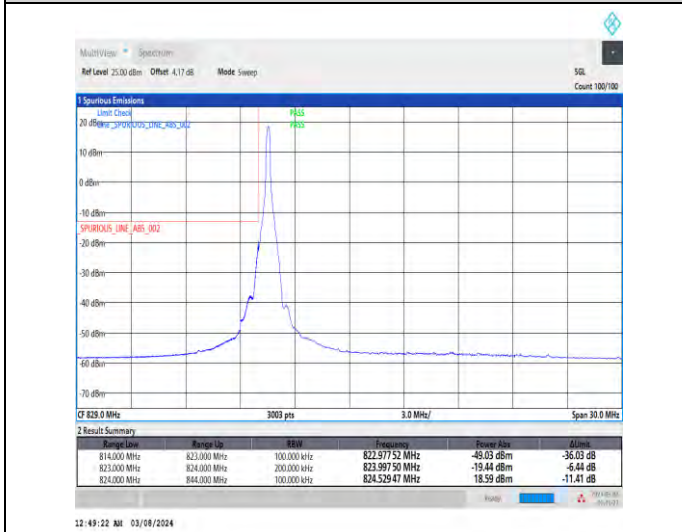
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1-N5-15-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N5-15-20-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N5-15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



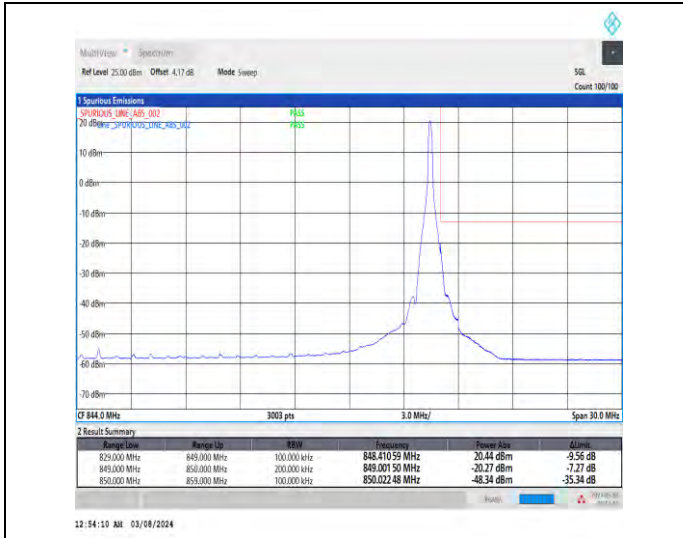
1-N5-15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant1-1--PASS-see graph



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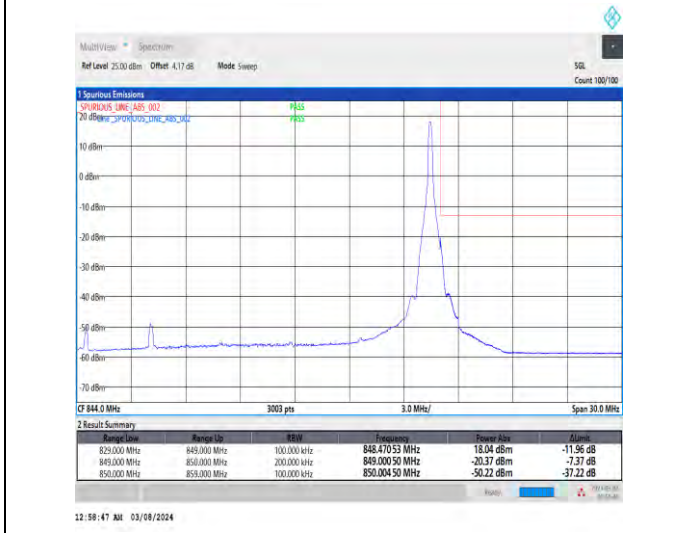
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1-N5-15-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph



1-N5-15-20-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N5-15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph



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



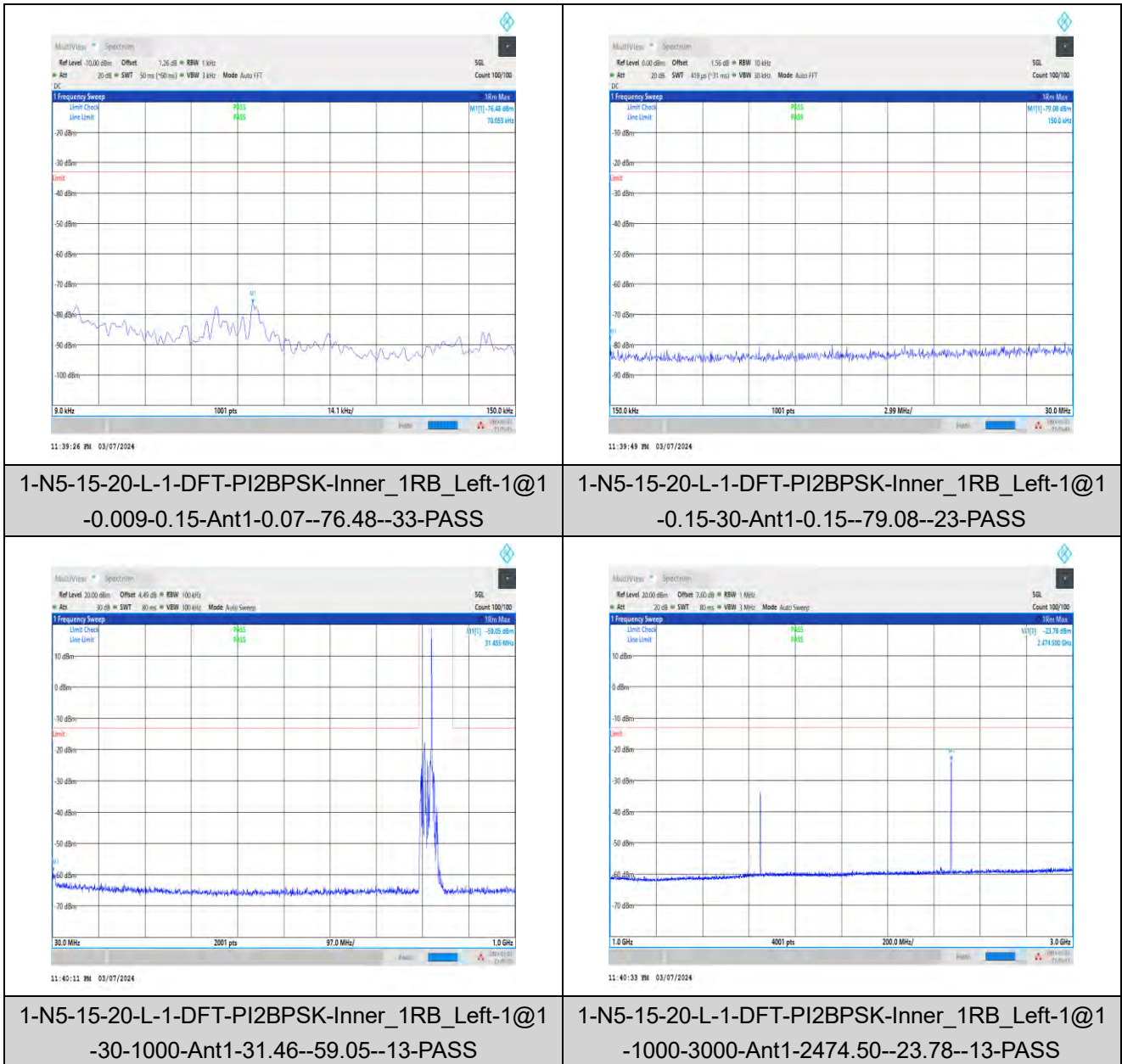
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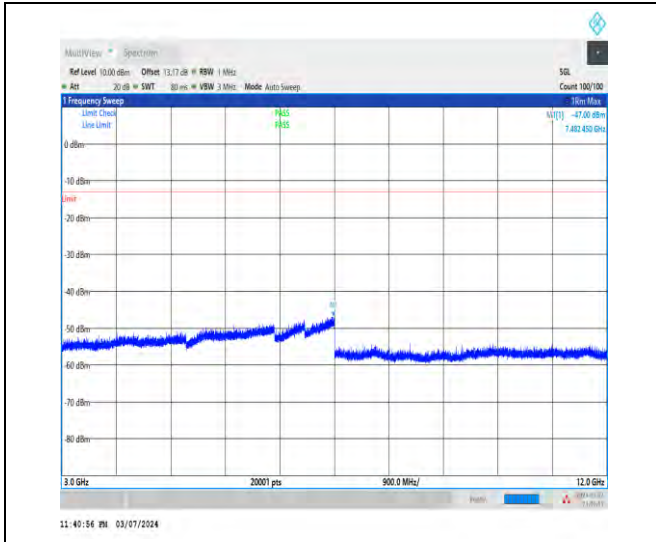
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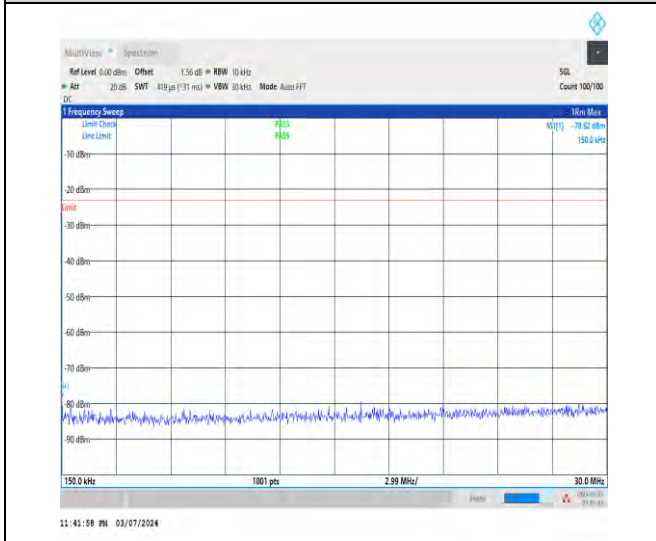
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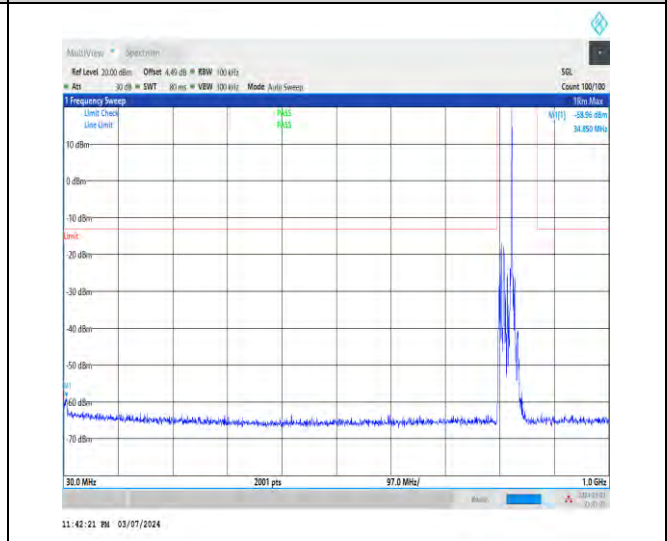
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-3000-12000-Ant1-7482.45--47.00--13-PASS



1-N5-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-0.009-0.15-Ant1-0.02--76.46--33-PASS



1-N5-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-0.15-30-Ant1-0.15--78.62--23-PASS



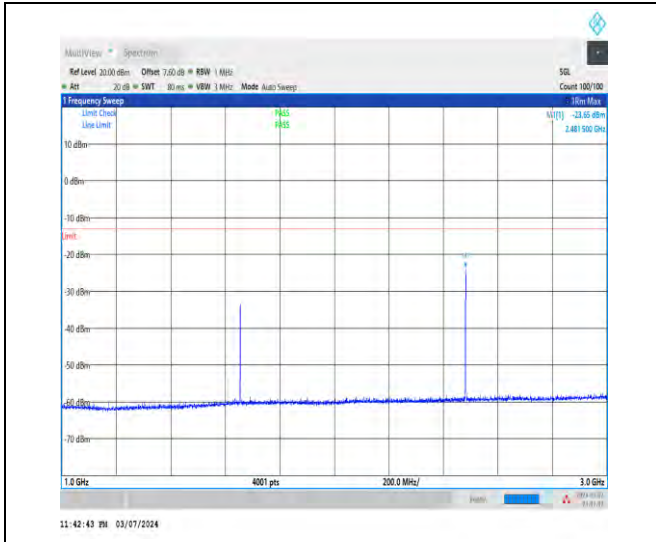
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1-30-1000-Ant1-34.85--58.96--13-PASS



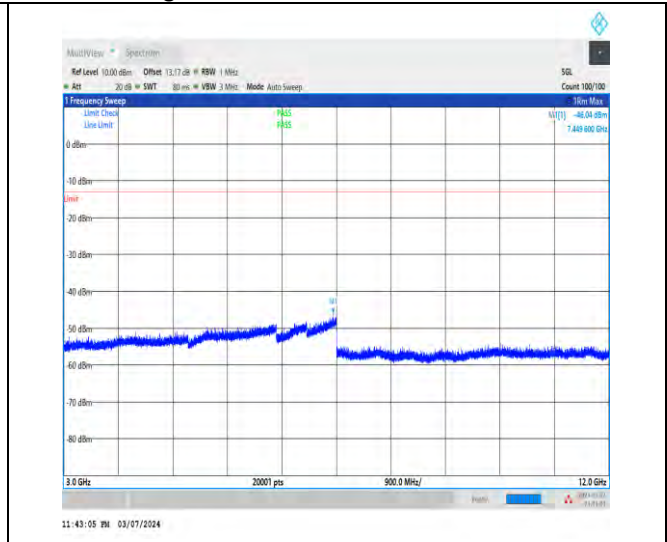
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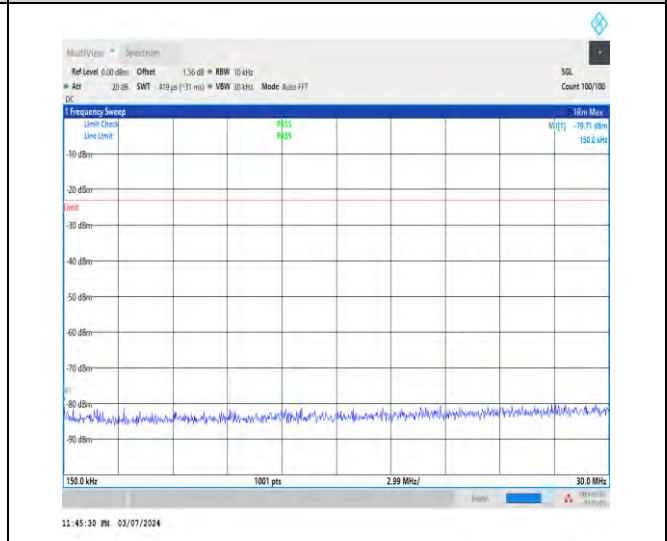
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1-1000-3000-Ant1-2481.50--23.65--13-PASS



1-N5-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-3000-12000-Ant1-7449.60--46.04--13-PASS



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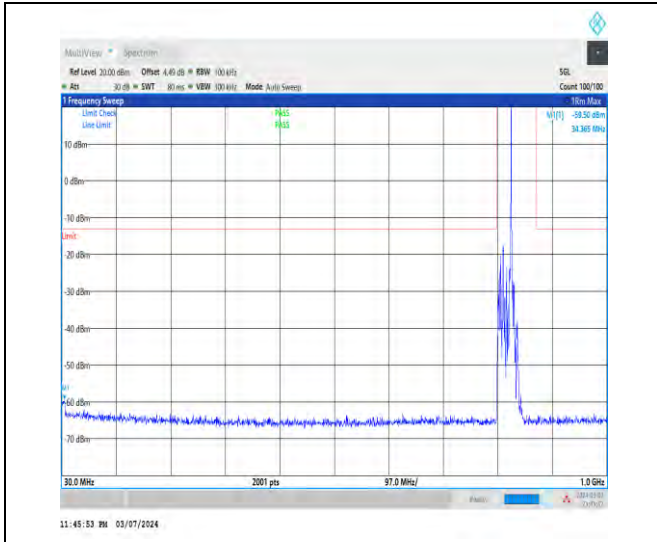
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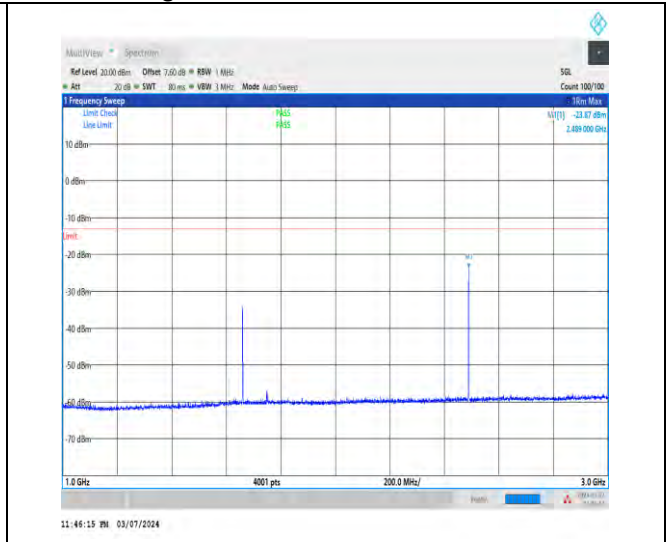
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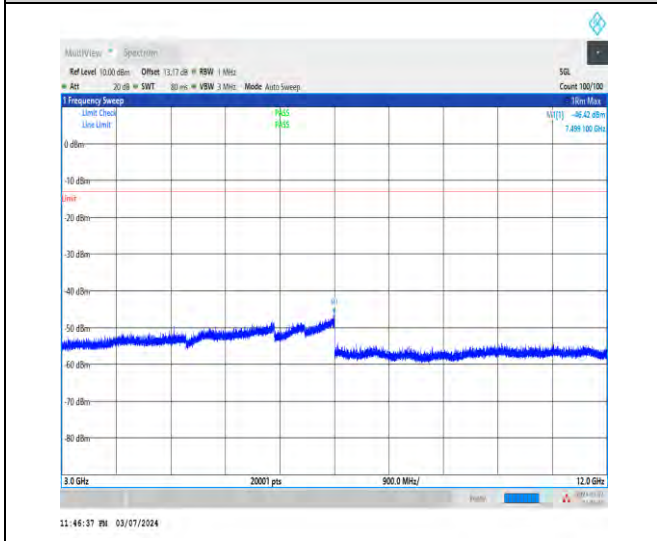
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1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
-30-1000-Ant1-34.37--59.50--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
-1000-3000-Ant1-2489.00--23.87--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
-3000-12000-Ant1-7499.10--46.42--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 5_ TM1

Test Channel = Low Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	48.52	-49.82	25.30	-71.26	-13.00	58.26	Horizontal
2	2475.27	45.89	-49.04	27.27	-71.14	-13.00	58.14	Horizontal
3	3300.36	44.31	-48.63	28.62	-70.96	-13.00	57.96	Horizontal
4	4125.45	42.88	-48.29	29.63	-71.04	-13.00	58.04	Horizontal
5	4950.54	42.76	-48.06	31.38	-69.18	-13.00	56.18	Horizontal
6	5775.63	42.70	-47.67	32.76	-67.47	-13.00	54.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	45.59	-49.82	25.30	-74.19	-13.00	61.19	Vertical
2	2475.27	50.96	-49.04	27.27	-66.07	-13.00	53.07	Vertical
3	3300.36	44.48	-48.63	28.62	-70.79	-13.00	57.79	Vertical
4	4125.45	43.79	-48.29	29.63	-70.13	-13.00	57.13	Vertical
5	4950.54	43.10	-48.06	31.38	-68.84	-13.00	55.84	Vertical
6	5775.63	43.60	-47.67	32.76	-66.57	-13.00	53.57	Vertical



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Test Band = SA Band 5_ TM1

Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	45.58	-49.81	25.32	-74.17	-13.00	61.17	Horizontal
2	2482.77	43.84	-49.00	27.28	-73.14	-13.00	60.14	Horizontal
3	3310.36	44.40	-48.64	28.62	-70.87	-13.00	57.87	Horizontal
4	4137.95	43.52	-48.30	29.65	-70.39	-13.00	57.39	Horizontal
5	4965.54	42.83	-48.03	31.42	-69.04	-13.00	56.04	Horizontal
6	5793.13	42.80	-47.71	32.76	-67.41	-13.00	54.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	45.15	-49.81	25.32	-74.60	-13.00	61.60	Vertical
2	2482.77	43.73	-49.00	27.28	-73.25	-13.00	60.25	Vertical
3	3310.36	44.93	-48.64	28.62	-70.34	-13.00	57.34	Vertical
4	4137.95	43.14	-48.30	29.65	-70.77	-13.00	57.77	Vertical
5	4965.54	42.70	-48.03	31.42	-69.17	-13.00	56.17	Vertical
6	5793.13	42.66	-47.71	32.76	-67.55	-13.00	54.55	Vertical



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

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	44.89	-49.80	25.34	-74.83	-13.00	61.83	Horizontal
2	2490.27	44.53	-48.95	27.29	-72.40	-13.00	59.40	Horizontal
3	3320.36	43.91	-48.64	28.63	-71.36	-13.00	58.36	Horizontal
4	4150.45	43.49	-48.31	29.67	-70.41	-13.00	57.41	Horizontal
5	4980.54	43.51	-48.00	31.45	-68.30	-13.00	55.30	Horizontal
6	5810.63	43.13	-47.65	32.76	-67.01	-13.00	54.01	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	45.37	-49.80	25.34	-74.35	-13.00	61.35	Vertical
2	2490.27	44.42	-48.95	27.29	-72.51	-13.00	59.51	Vertical
3	3320.36	45.25	-48.64	28.63	-70.02	-13.00	57.02	Vertical
4	4150.45	43.08	-48.31	29.67	-70.82	-13.00	57.82	Vertical
5	4980.54	42.98	-48.00	31.45	-68.83	-13.00	55.83	Vertical
6	5810.63	43.33	-47.65	32.76	-66.81	-13.00	53.81	Vertical



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Test Band = ENDC 7A-N5A_ TM1

Test Channel = Low Channel_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	73.15	-49.82	25.30	-46.63	-13.00	60.63	Horizontal
2	2475.27	73.09	-49.04	27.27	-43.94	-13.00	57.94	Horizontal
3	3300.36	44.67	-48.63	28.62	-70.60	-13.00	57.60	Horizontal
4	4125.45	49.63	-48.29	29.63	-64.29	-13.00	57.29	Horizontal
5	4950.54	51.84	-48.06	31.38	-60.10	-13.00	55.10	Horizontal
6	5775.63	49.43	-47.67	32.76	-60.74	-13.00	52.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	74.25	-49.82	25.30	-45.53	-13.00	60.53	Vertical
2	2475.27	71.66	-49.04	27.27	-45.37	-13.00	57.99	Vertical
3	3300.36	45.65	-48.63	28.62	-69.62	-13.00	56.62	Vertical
4	4125.45	50.65	-48.29	29.63	-63.27	-13.00	56.27	Vertical
5	4950.54	53.83	-48.06	31.38	-58.11	-13.00	55.11	Vertical
6	5775.63	49.47	-47.67	32.76	-60.70	-13.00	52.70	Vertical



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Test Band = ENDC 7A-N5A_ TM1
Test Channel = Mid Channel_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	75.64	-49.81	25.32	-44.11	-13.00	59.90	Horizontal
2	2482.77	70.84	-49.00	27.28	-46.14	-13.00	58.14	Horizontal
3	3310.36	45.06	-48.64	28.62	-70.21	-13.00	57.21	Horizontal
4	4137.95	51.38	-48.30	29.65	-62.53	-13.00	56.53	Horizontal
5	4965.54	51.51	-48.03	31.42	-60.36	-13.00	54.36	Horizontal
6	5793.13	51.42	-47.71	32.76	-58.79	-13.00	52.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	75.20	-49.81	25.32	-44.55	-13.00	60.55	Vertical
2	2482.77	70.64	-49.00	27.28	-46.34	-13.00	58.34	Vertical
3	3310.36	45.07	-48.64	28.62	-70.20	-13.00	57.20	Vertical
4	4137.95	50.78	-48.30	29.65	-63.13	-13.00	57.13	Vertical
5	4965.54	51.50	-48.03	31.42	-60.37	-13.00	54.37	Vertical
6	5793.13	51.81	-47.71	32.76	-58.40	-13.00	52.40	Vertical



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Test Band = ENDC 7A-N5A_ TM1
Test Channel = High Channel_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	73.30	-49.80	25.34	-46.42	-13.00	60.42	Horizontal
2	2490.27	69.56	-48.95	27.29	-47.37	-13.00	57.37	Horizontal
3	3320.36	44.59	-48.64	28.63	-70.68	-13.00	57.68	Horizontal
4	4150.45	50.73	-48.31	29.67	-63.17	-13.00	57.17	Horizontal
5	4980.54	50.77	-48.00	31.45	-61.04	-13.00	55.04	Horizontal
6	5810.63	51.35	-47.65	32.76	-58.79	-13.00	52.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	74.46	-49.80	25.34	-45.26	-13.00	60.26	Vertical
2	2490.27	70.65	-48.95	27.29	-46.28	-13.00	57.28	Vertical
3	3320.36	44.57	-48.64	28.63	-70.70	-13.00	57.70	Vertical
4	4150.45	51.42	-48.31	29.67	-62.48	-13.00	56.48	Vertical
5	4980.54	51.31	-48.00	31.45	-60.50	-13.00	54.50	Vertical
6	5810.63	51.63	-47.65	32.76	-58.51	-13.00	52.51	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	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-8.200000	-0.009803	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.800000	-0.006934	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-7.000000	-0.008368	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	-2.300000	-0.002750	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	-0.600000	-0.000717	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	1.300000	0.001554	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.900000	-0.005858	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-4.300000	-0.005140	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-9.600000	-0.011476	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-6.400000	-0.007651	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-7.100000	-0.008488	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-6.000000	-0.007173	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	-6.100000	-0.007292	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-6.900000	-0.008249	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	-2.400000	-0.002869	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	-0.700000	-0.000837	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	-1.000000	-0.001195	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	-1.300000	-0.001554	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	-0.700000	-0.000837	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	-1.900000	-0.002271	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	-0.600000	-0.000717	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	1.200000	0.001435	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	-0.100000	-0.000120	PASS

---End of Attachment---



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