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Appendix B.18

NR Band n5



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

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Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N5	15	5	DFT-QPSK	L	Inner_1RB_Left	23.96	18.81	38.45	PASS
N5	15	5	DFT-16QAM	L	Inner_1RB_Left	23.48	18.33	38.45	PASS
N5	15	5	DFT-QPSK	M	Inner_1RB_Left	23.85	18.70	38.45	PASS
N5	15	5	DFT-16QAM	M	Inner_1RB_Left	23.12	17.97	38.45	PASS
N5	15	5	DFT-QPSK	H	Inner_1RB_Left	23.81	18.66	38.45	PASS
N5	15	5	DFT-16QAM	H	Inner_1RB_Left	23.25	18.10	38.45	PASS
N5	15	10	DFT-QPSK	L	Inner_1RB_Left	23.99	18.84	38.45	PASS
N5	15	10	DFT-16QAM	L	Inner_1RB_Left	23.45	18.30	38.45	PASS
N5	15	10	DFT-QPSK	M	Inner_1RB_Left	23.82	18.67	38.45	PASS
N5	15	10	DFT-16QAM	M	Inner_1RB_Left	23.28	18.13	38.45	PASS
N5	15	10	DFT-QPSK	H	Inner_1RB_Left	23.80	18.65	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Left	23.18	18.03	38.45	PASS
N5	15	15	DFT-QPSK	L	Inner_1RB_Left	24.01	18.86	38.45	PASS
N5	15	15	DFT-16QAM	L	Inner_1RB_Left	23.47	18.32	38.45	PASS
N5	15	15	DFT-QPSK	M	Inner_1RB_Left	23.84	18.69	38.45	PASS
N5	15	15	DFT-16QAM	M	Inner_1RB_Left	23.42	18.27	38.45	PASS
N5	15	15	DFT-QPSK	H	Inner_1RB_Left	23.87	18.72	38.45	PASS
N5	15	15	DFT-16QAM	H	Inner_1RB_Left	23.12	17.97	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	24.09	18.94	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.95	18.80	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Outer_Full	23.58	18.43	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Left	24.12	18.97	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Right	23.99	18.84	38.45	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	23.42	18.27	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Left	23.36	18.21	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Right	23.42	18.27	38.45	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	23.13	17.98	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Left	21.36	16.21	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Right	21.52	16.37	38.45	PASS
N5	15	20	DFT-64QAM	L	Outer_Full	21.22	16.07	38.45	PASS



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N5	15	20	DFT-256QAM	L	Inner_1RB_Left	19.70	14.55	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Right	19.48	14.33	38.45	PASS
N5	15	20	DFT-256QAM	L	Outer_Full	19.50	14.35	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	23.99	18.84	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.04	18.89	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	23.54	18.39	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Left	23.89	18.74	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Right	24.01	18.86	38.45	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	23.07	17.92	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Left	23.45	18.30	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Right	23.31	18.16	38.45	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	22.01	16.86	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Left	22.02	16.87	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Right	21.83	16.68	38.45	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	21.50	16.35	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Left	19.71	14.56	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Right	19.58	14.43	38.45	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	19.50	14.35	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.95	18.80	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.06	18.91	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Outer_Full	23.54	18.39	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Left	23.89	18.74	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Right	24.07	18.92	38.45	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	23.05	17.90	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Left	23.38	18.23	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Right	23.25	18.10	38.45	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	21.99	16.84	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Left	21.97	16.82	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Right	21.81	16.66	38.45	PASS
N5	15	20	DFT-64QAM	H	Outer_Full	21.51	16.36	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Left	19.65	14.50	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Right	19.55	14.40	38.45	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	19.53	14.38	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	6.56	13	PASS
N5	15	20	CP-256QAM	L	Outer_Full	8.46	13	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	6.52	13	PASS
N5	15	20	CP-256QAM	M	Outer_Full	8.42	13	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	6.44	13	PASS
N5	15	20	CP-256QAM	H	Outer_Full	8.40	13	PASS



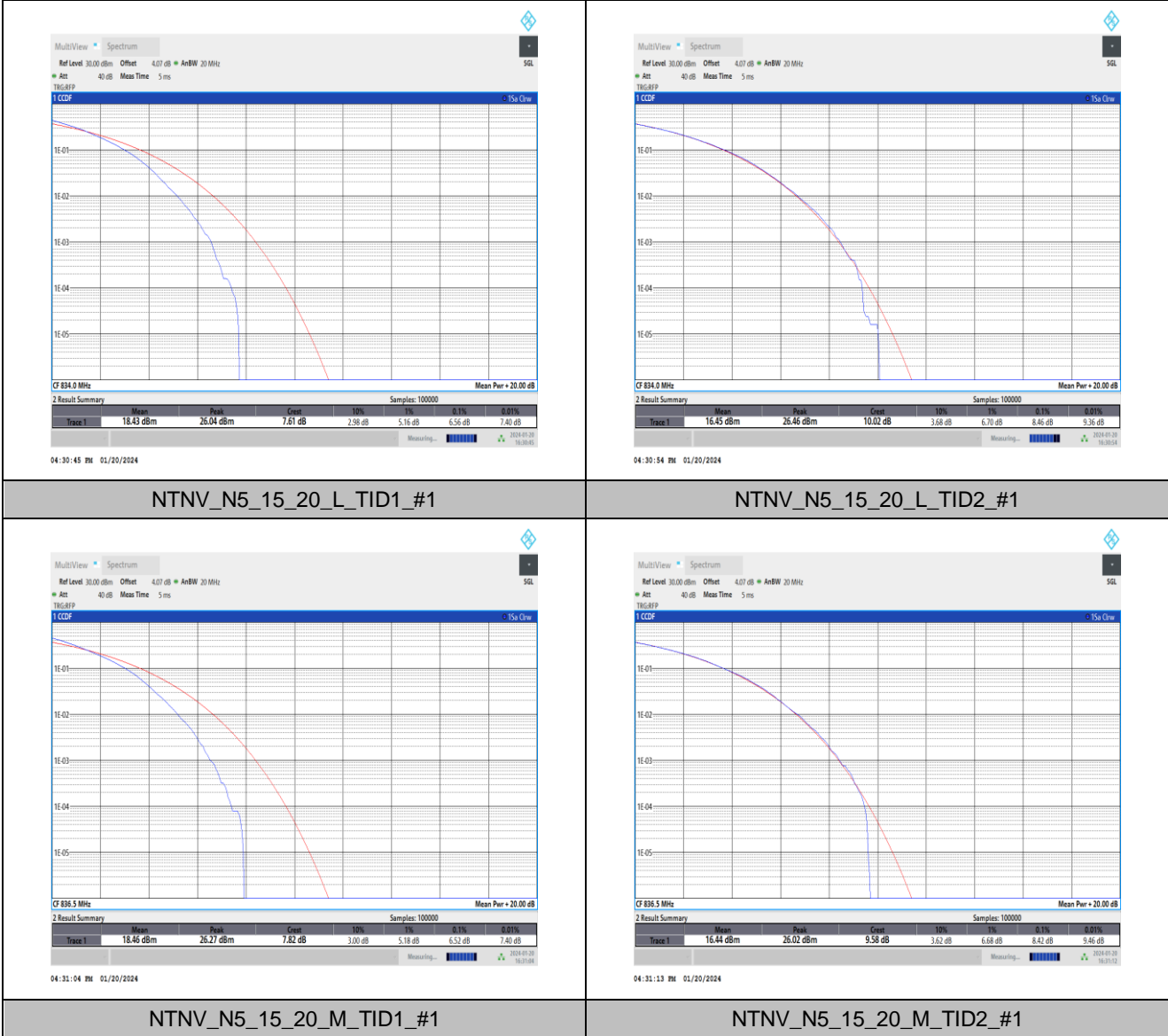
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Test Graphs

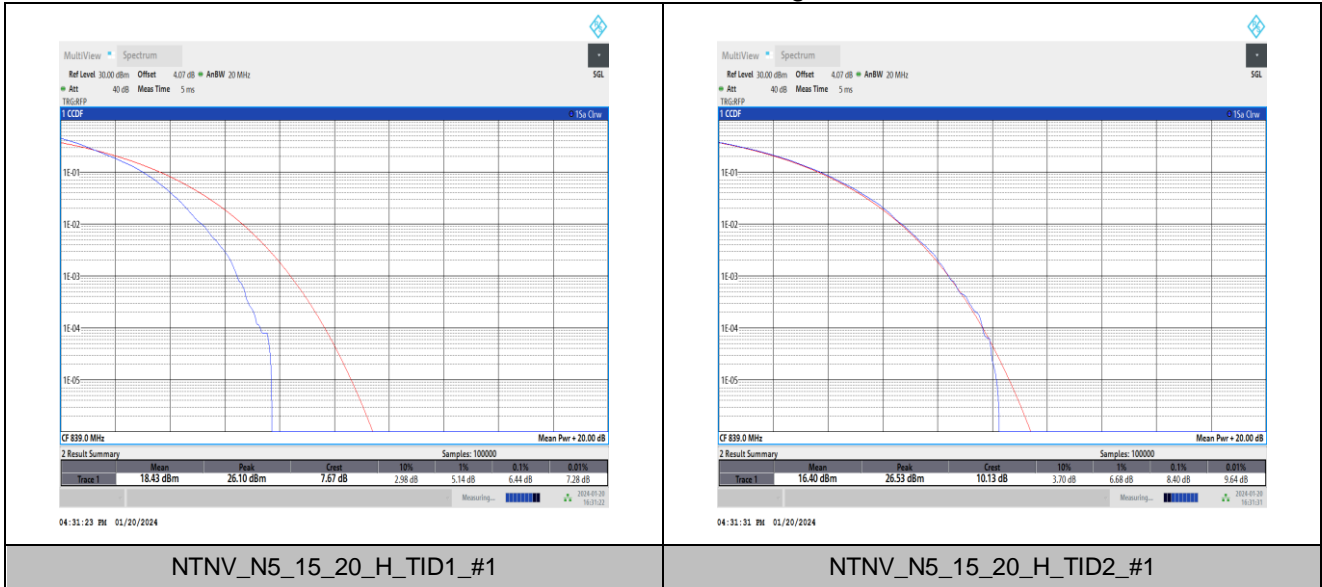


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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N5	15	5	DFT-QPSK	M	Outer_Full	4.524	4.950	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.498	4.940	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.498	4.890	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.516	4.930	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.499	4.920	PASS
N5	15	5	CP-QPSK	M	Outer_Full	4.501	4.960	PASS
N5	15	5	CP-16QAM	M	Outer_Full	4.496	4.930	PASS
N5	15	5	CP-64QAM	M	Outer_Full	4.515	4.970	PASS
N5	15	5	CP-256QAM	M	Outer_Full	4.482	4.980	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.907	9.400	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.945	9.480	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.902	9.380	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	8.928	9.460	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.914	9.420	PASS
N5	15	10	CP-QPSK	M	Outer_Full	9.285	9.800	PASS
N5	15	10	CP-16QAM	M	Outer_Full	9.298	9.880	PASS
N5	15	10	CP-64QAM	M	Outer_Full	9.29	9.820	PASS
N5	15	10	CP-256QAM	M	Outer_Full	9.263	9.780	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.432	14.310	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.464	14.340	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.433	14.340	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.449	14.310	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.436	14.280	PASS
N5	15	15	CP-QPSK	M	Outer_Full	14.138	15.030	PASS
N5	15	15	CP-16QAM	M	Outer_Full	14.173	15.090	PASS
N5	15	15	CP-64QAM	M	Outer_Full	14.155	15.060	PASS
N5	15	15	CP-256QAM	M	Outer_Full	14.134	15.000	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.855	18.880	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.9	18.880	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.856	18.800	PASS



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N5	15	20	DFT-64QAM	M	Outer_Full	17.884	18.880	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	17.841	18.840	PASS
N5	15	20	CP-QPSK	M	Outer_Full	18.967	20.000	PASS
N5	15	20	CP-16QAM	M	Outer_Full	18.937	20.040	PASS
N5	15	20	CP-64QAM	M	Outer_Full	18.983	19.960	PASS
N5	15	20	CP-256QAM	M	Outer_Full	18.899	19.960	PASS

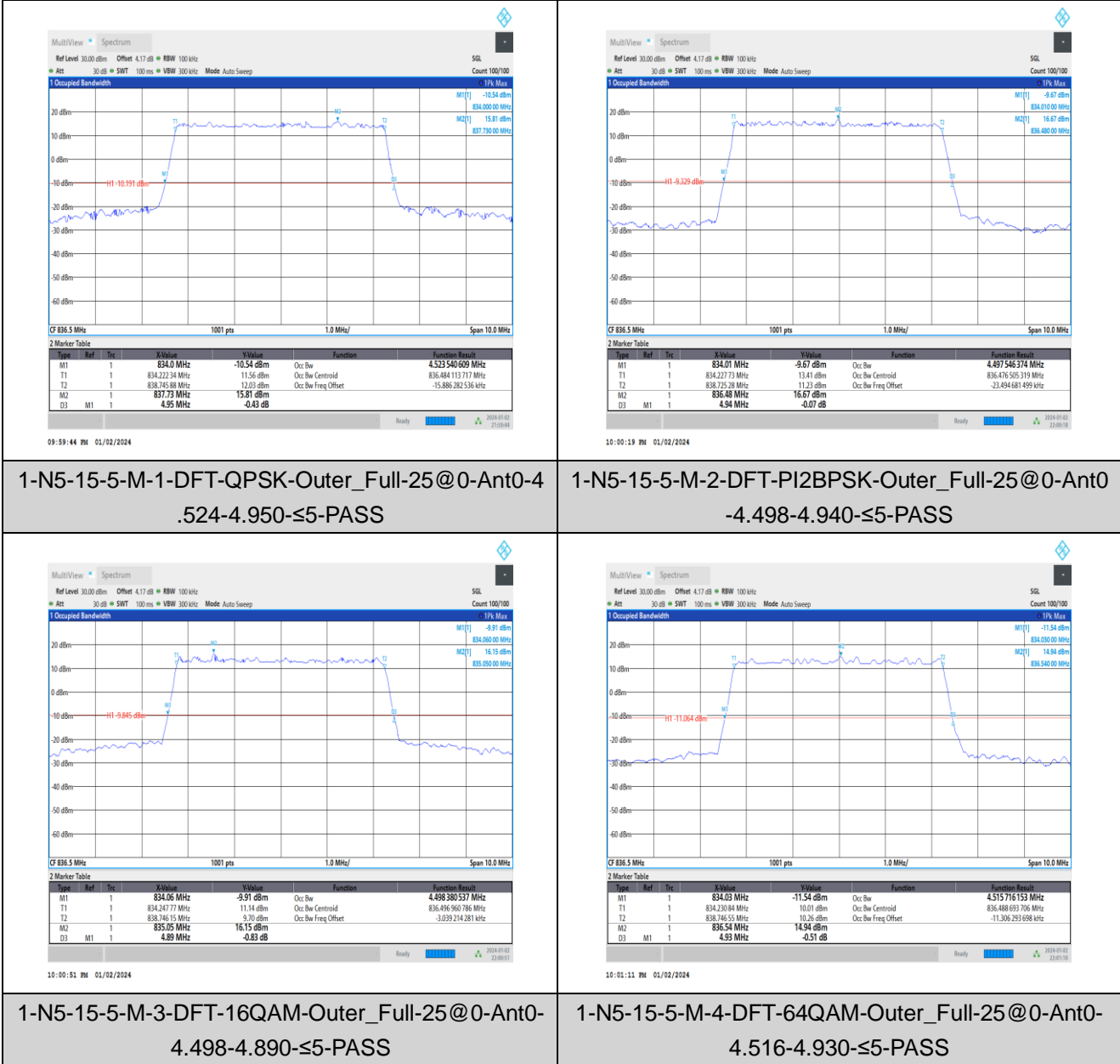


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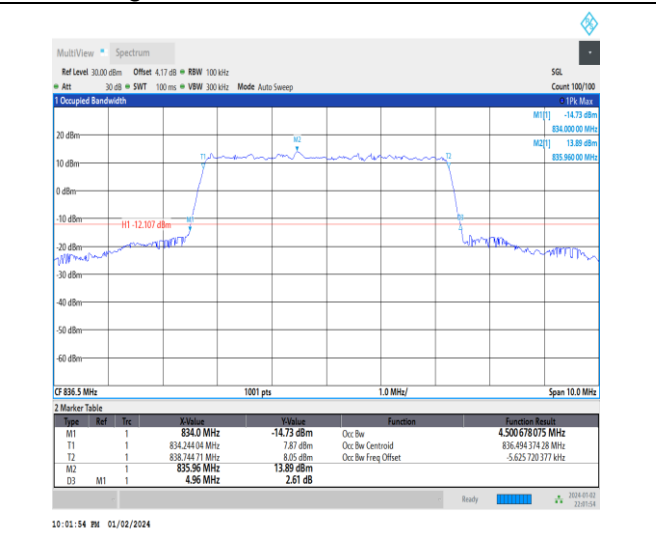
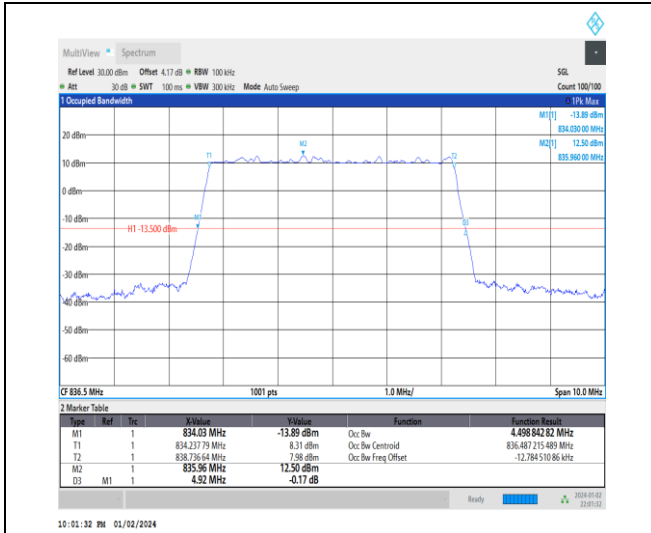
Test Graphs



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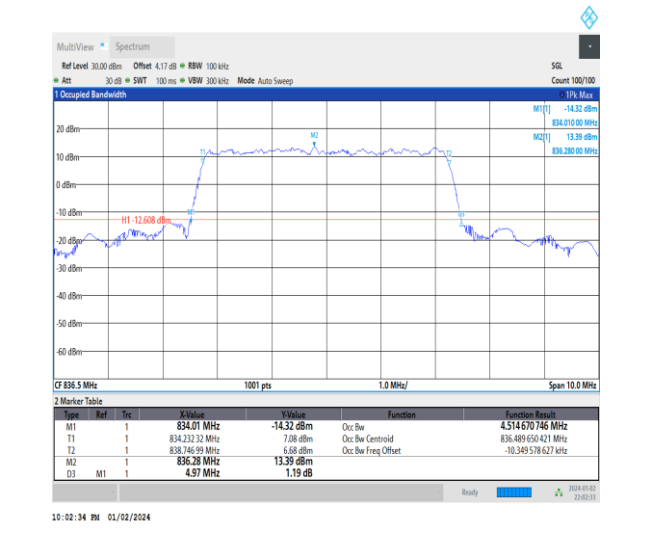
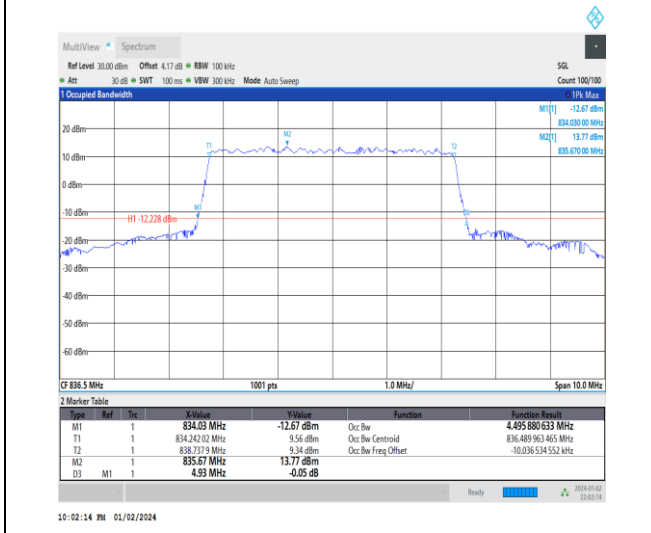
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1-N5-15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant0-4.99-4.920-≤5-PASS

1-N5-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant0-4.5 01-4.960-≤5-PASS



1-N5-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant0-4 .496-4.930-≤5-PASS

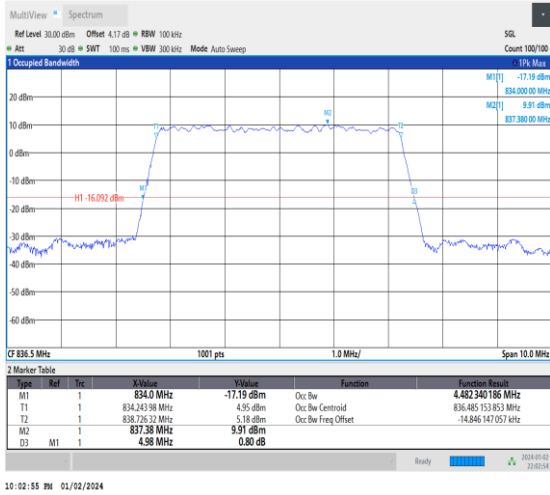
1-N5-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant0-4. 515-4.970-≤5-PASS



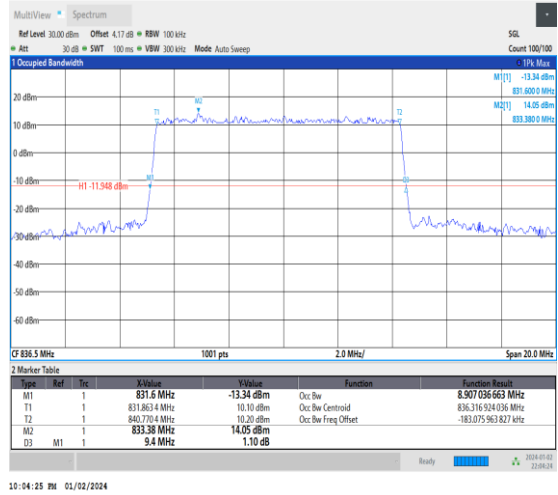
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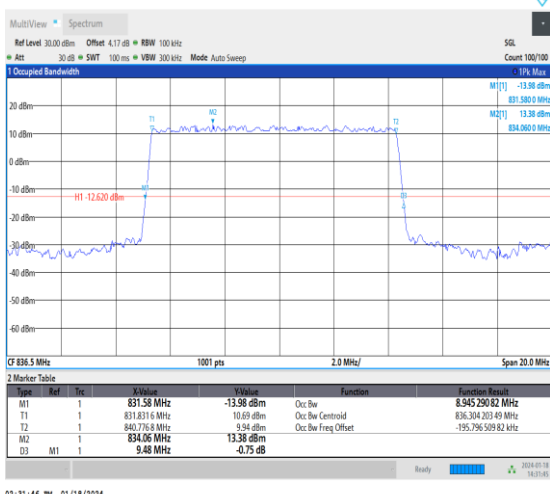
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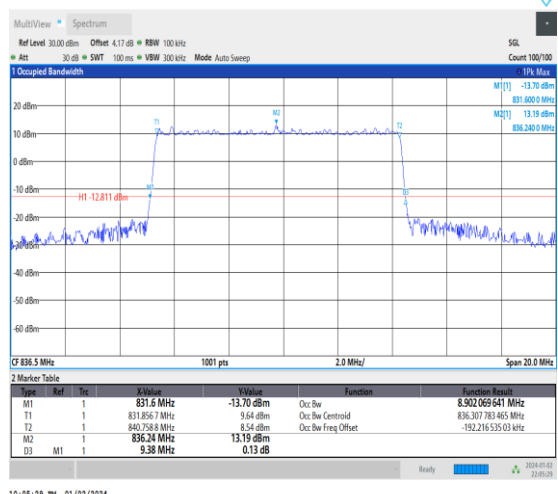
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1-N5-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant0-8.907-9.400-≤10-PASS



1-N5-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant0-8.945-9.480-≤10-PASS



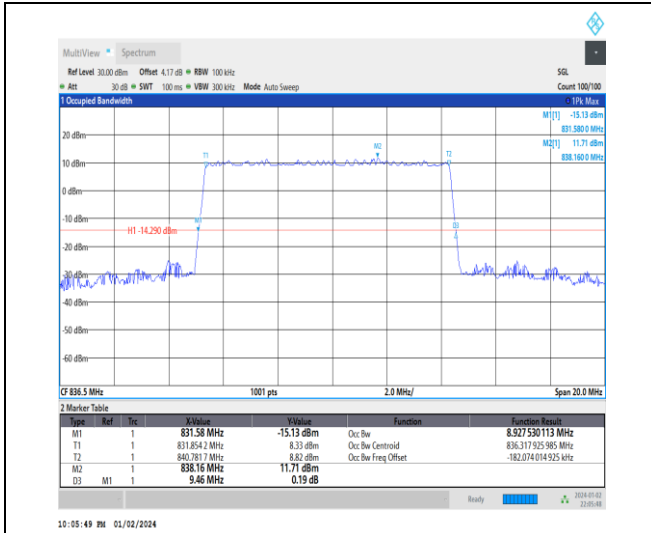
1-N5-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant0-8.902-9.380-≤10-PASS



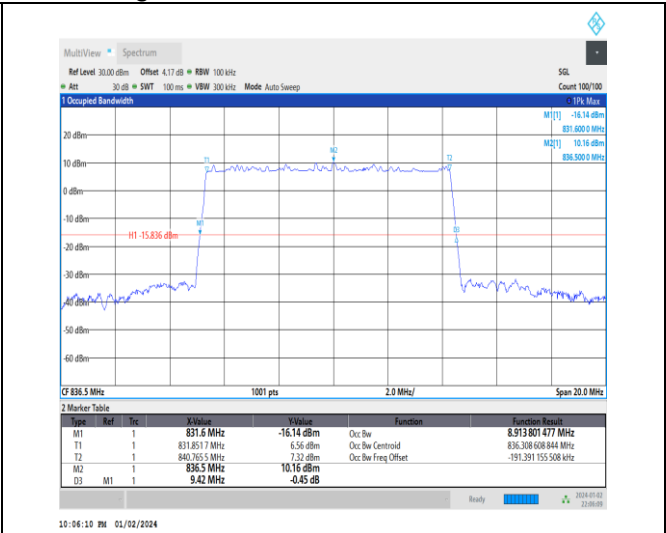
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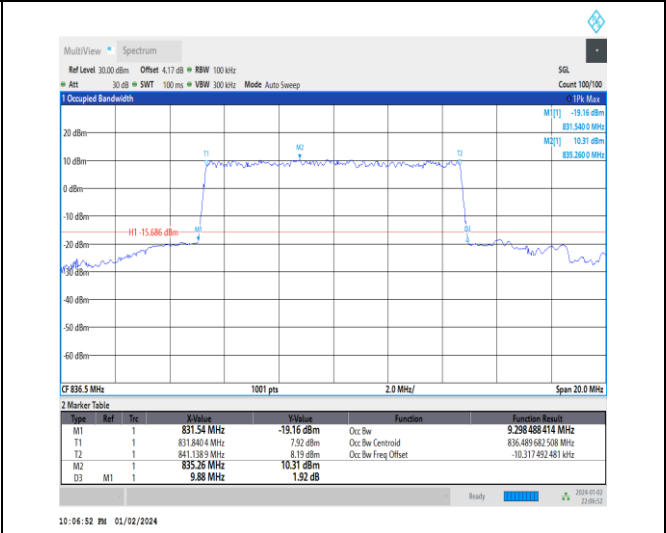
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0-8.928-9.460-≤10-PASS



1-N5-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant
0-8.914-9.420-≤10-PASS



1-N5-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant0-9
.285-9.800-≤10-PASS



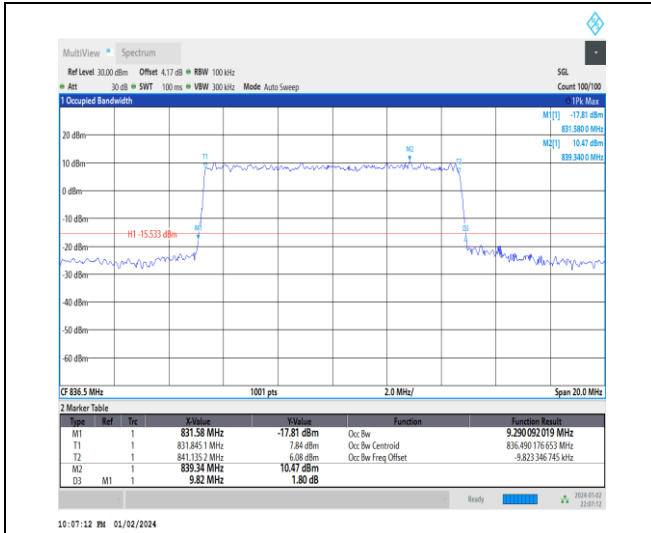
1-N5-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant0-9
9.298-9.880-≤10-PASS



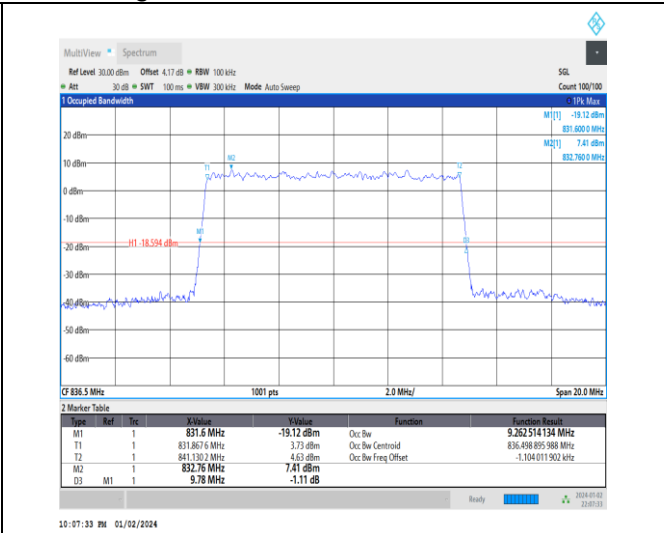
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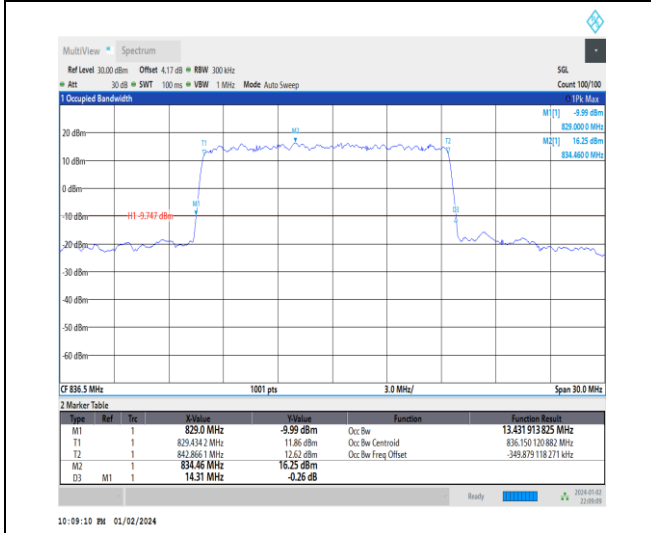
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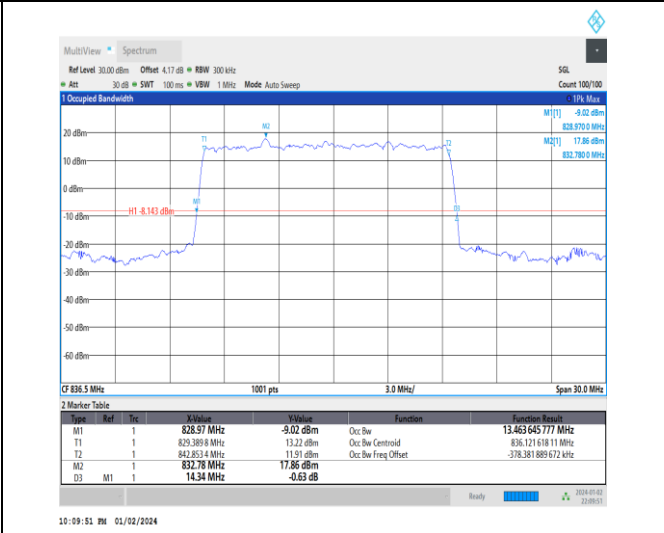
1-N5-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant0-9.29-9.820-≤10-PASS



1-N5-15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant0-9.263-9.780-≤10-PASS



1-N5-15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant0-13.432-14.310-≤15-PASS



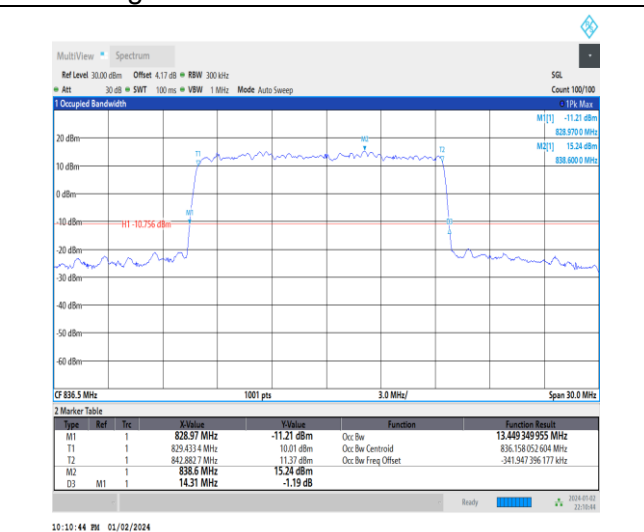
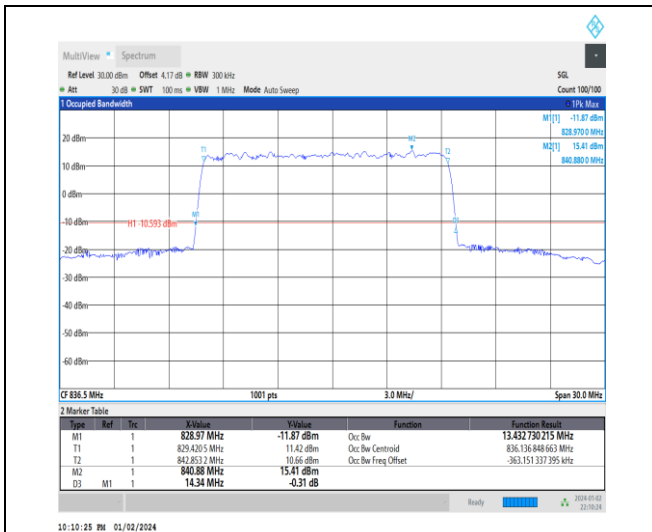
1-N5-15-15-M-2-DFT-PI2BPSK-Outer_Full-75@0-Ant0-13.464-14.340-≤15-PASS



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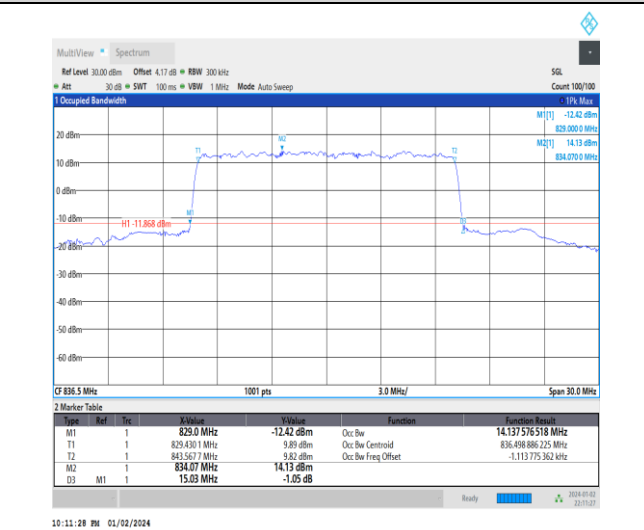
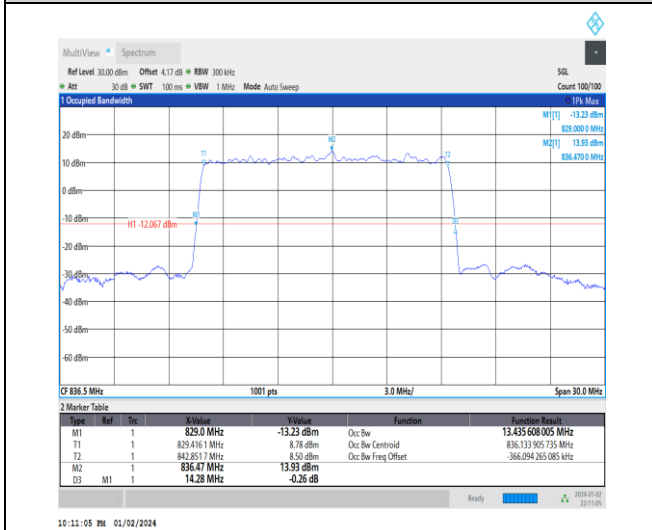
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1-N5-15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant
 0-13.433-14.340-≤15-PASS

1-N5-15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant0
 -13.449-14.310-≤15-PASS



1-N5-15-15-M-5-DFT-256QAM-Outer_Full-75@0-An
 t0-13.436-14.280-≤15-PASS

1-N5-15-15-M-6-CP-QPSK-Outer_Full-79@0-Ant0-1
 4.138-15.030-≤15-PASS



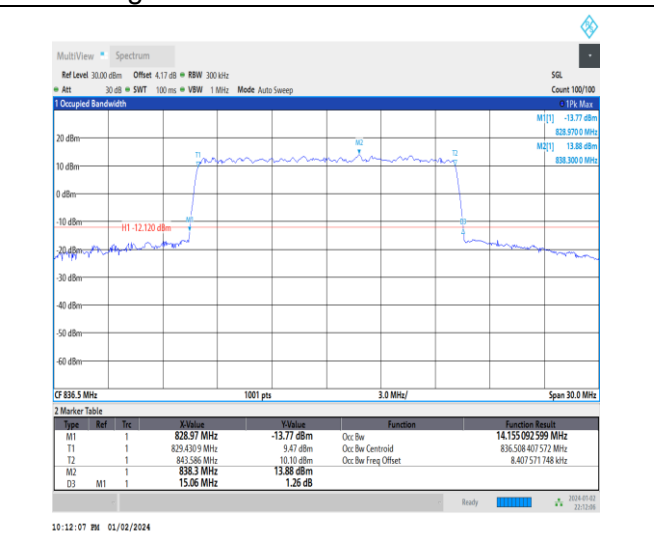
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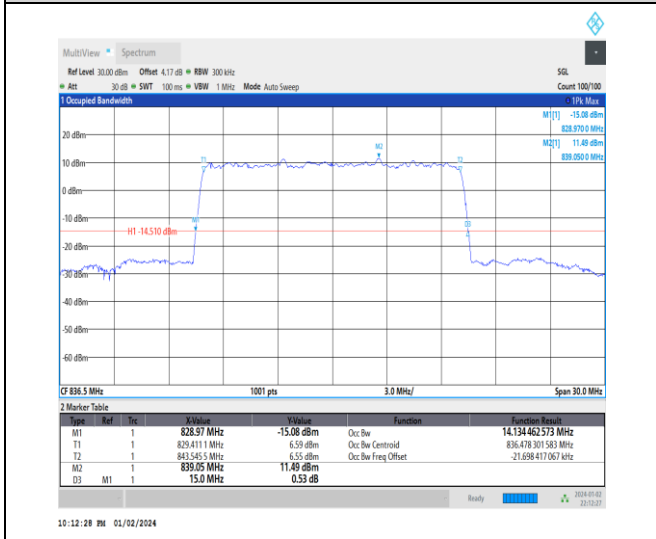
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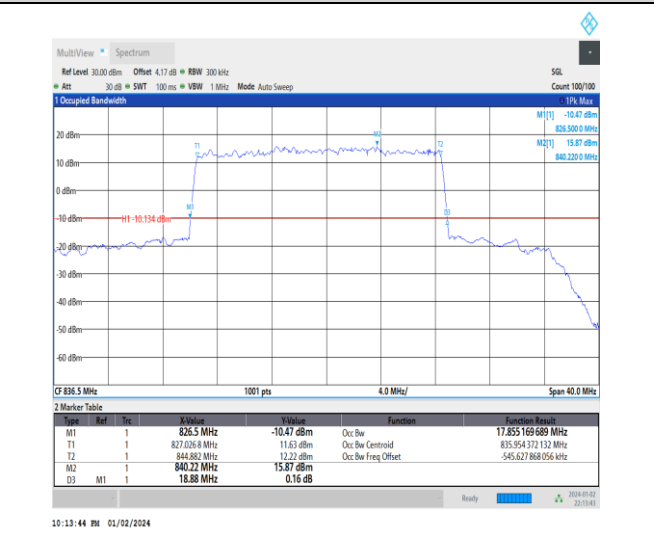
1-N5-15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant0-14.173-15.090-≤15-PASS



1-N5-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant0-14.155-15.060-≤15-PASS



1-N5-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant0-0-14.134-15.000-≤15-PASS



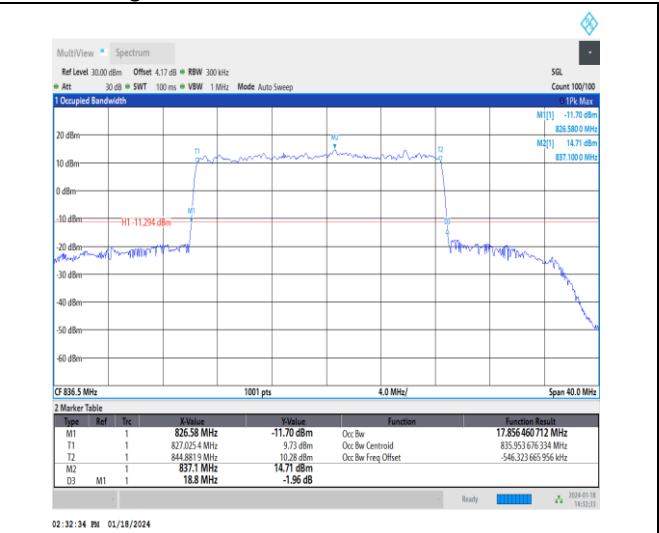
1-N5-15-20-M-1-DFT-QPSK-Outer_Full-100@0-Ant0-17.855-18.880-≤20-PASS



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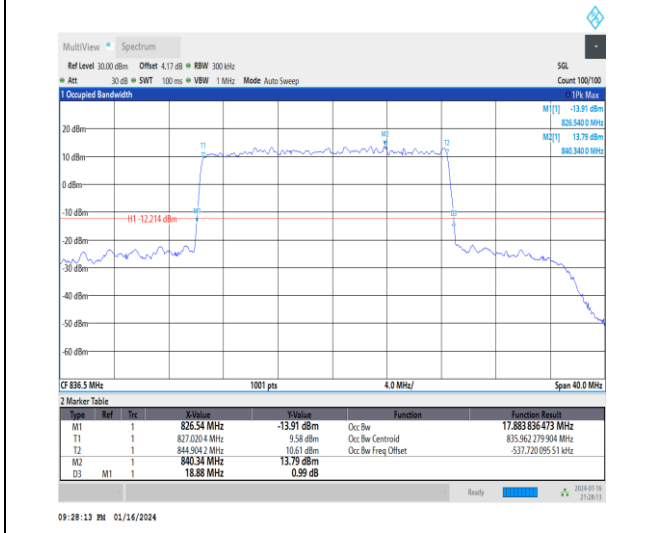
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1-N5-15-20-M-2-DFT-PI2BPSK-Outer_Full-100@0-Ant0-17.9-18.880-≤20-PASS

1-N5-15-20-M-3-DFT-16QAM-Outer_Full-100@0-Ant 0-17.856-18.800-≤20-PASS



1-N5-15-20-M-4-DFT-64QAM-Outer_Full-100@0-Ant 0-17.884-18.880-≤20-PASS

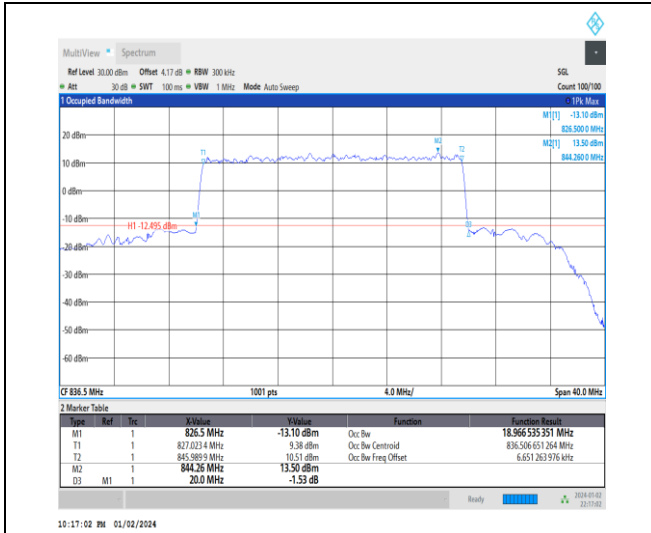
1-N5-15-20-M-5-DFT-256QAM-Outer_Full-100@0-Ant 0-17.841-18.840-≤20-PASS



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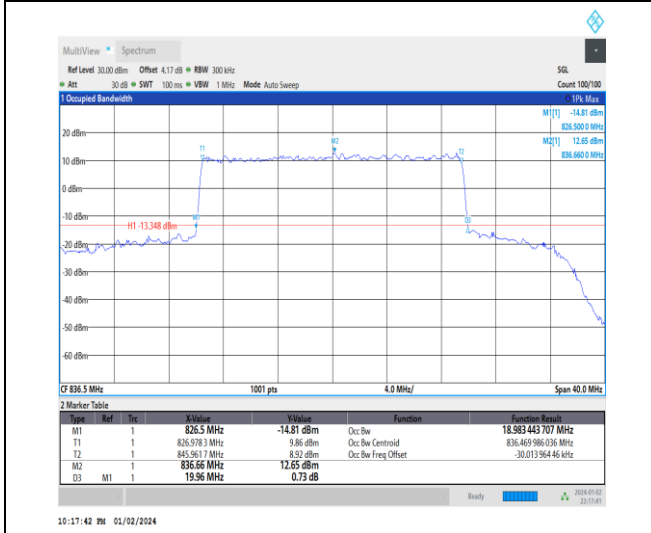
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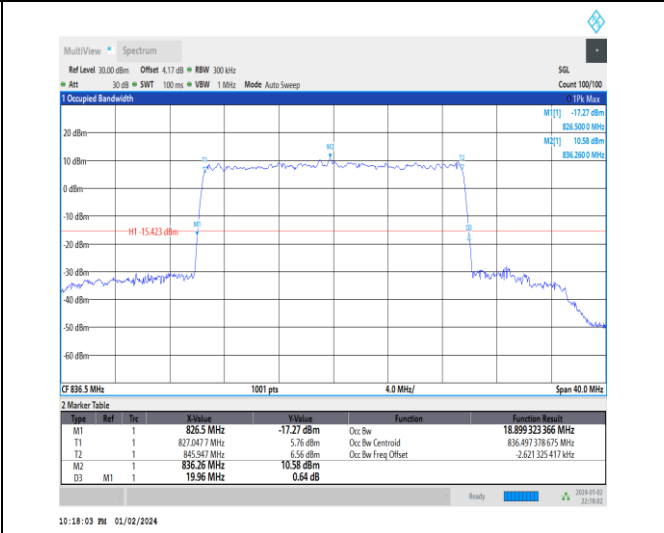
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1-N5-15-20-M-7-CP-16QAM-Outer_Full-106@0-Ant0-18.937-20.040-≤20-PASS



1-N5-15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant0-18.983-19.960-≤20-PASS



1-N5-15-20-M-9-CP-256QAM-Outer_Full-106@0-Ant0-18.899-19.960-≤20-PASS



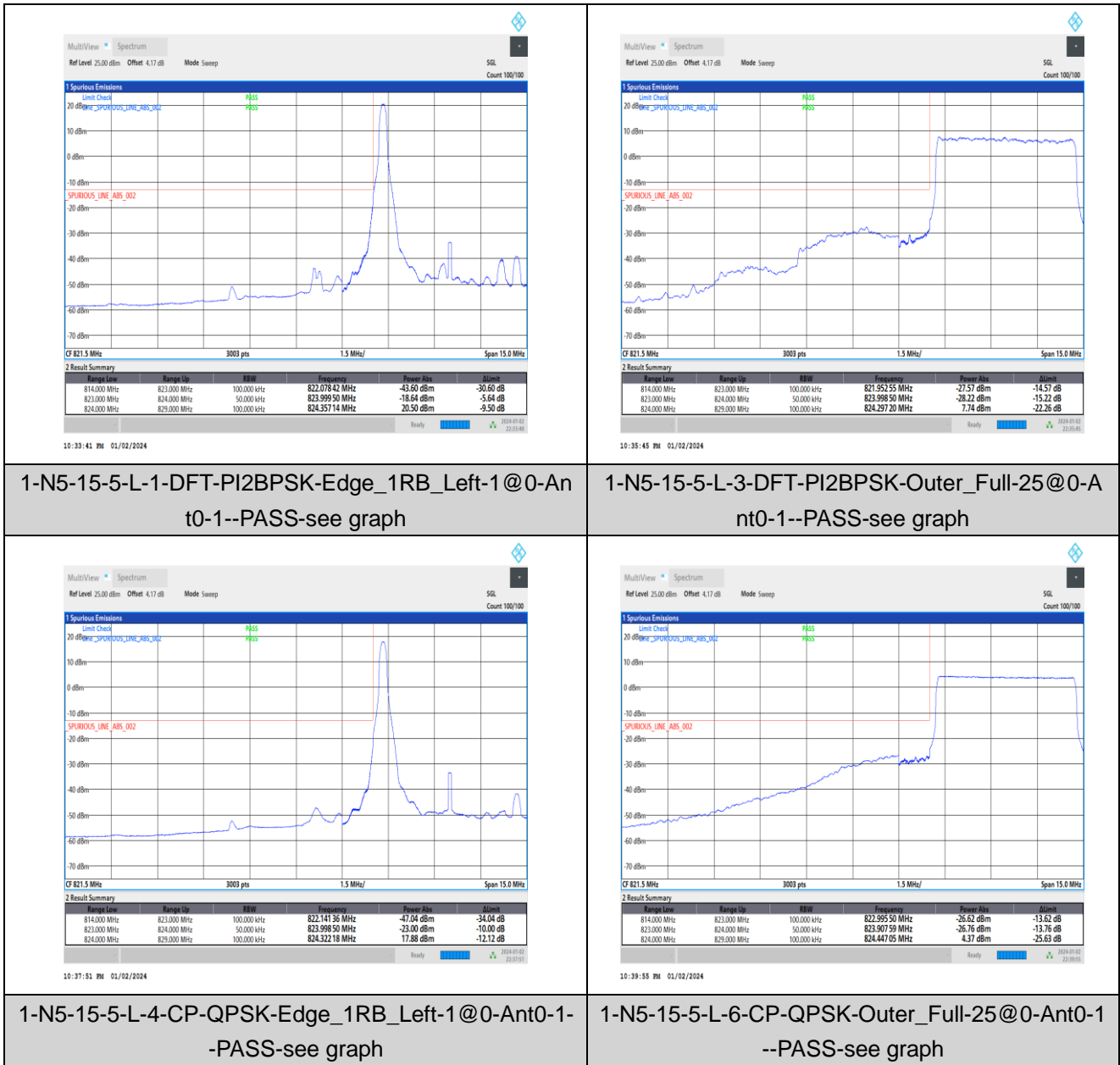
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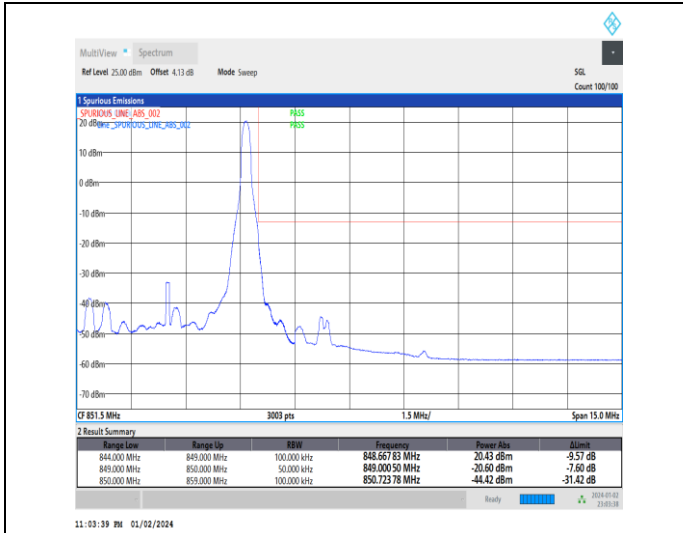
Test Graphs



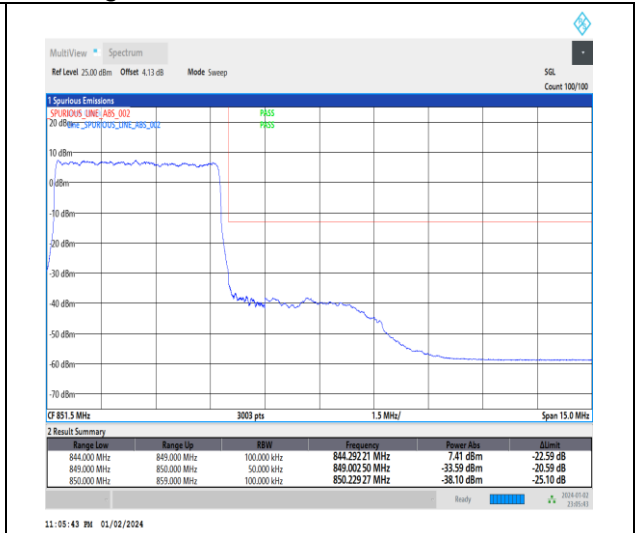
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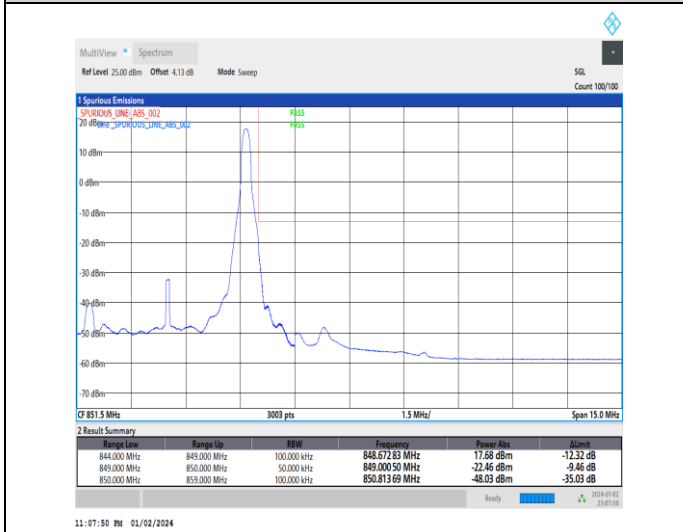
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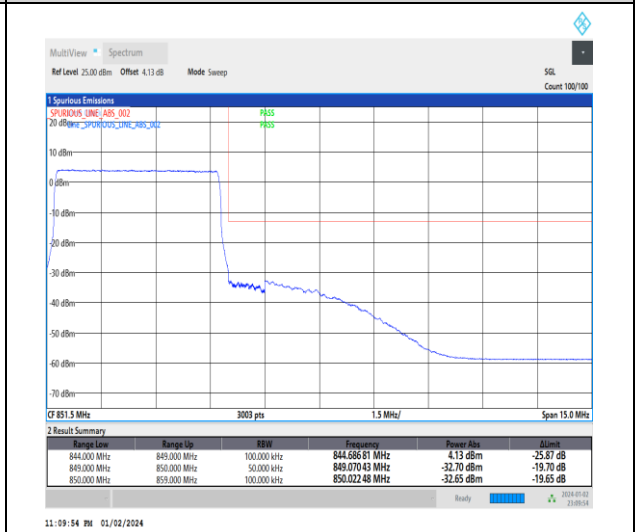
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1-N5-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant0-1--PASS-see graph



1-N5-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant0-1--PASS-see graph



1-N5-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant0-1--PASS-see graph

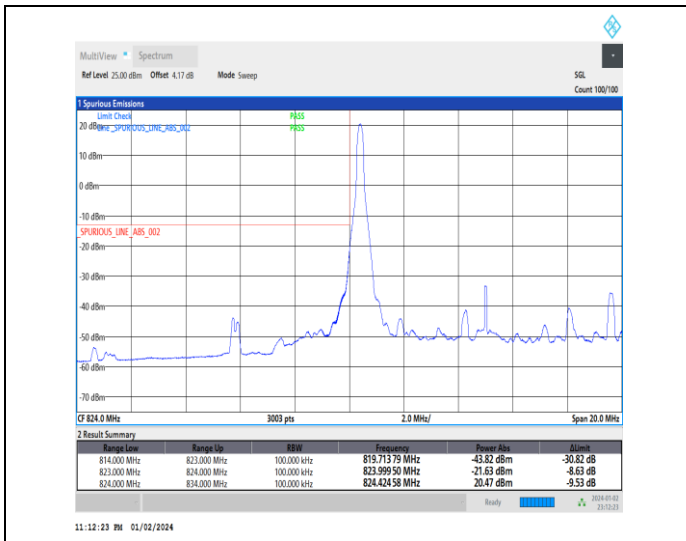


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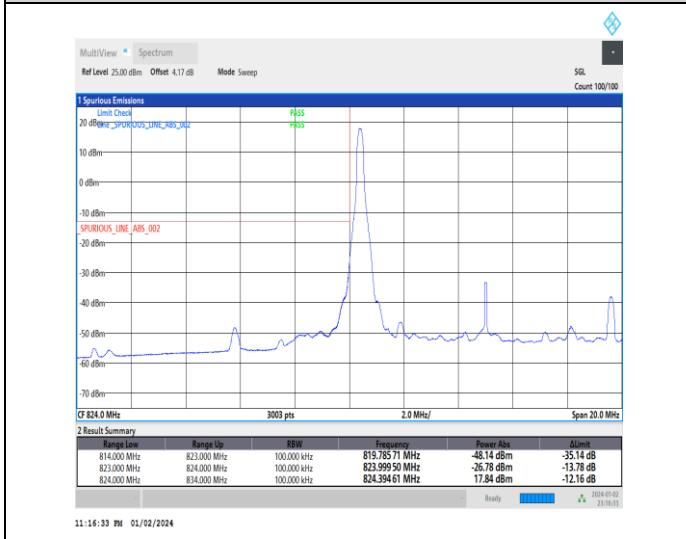
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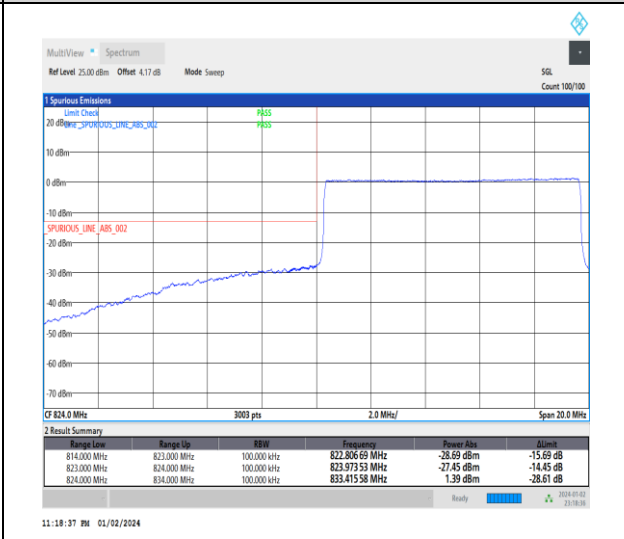
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 nt0-1--PASS-see graph



1-N5-15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-1--PASS-see graph



1-N5-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph



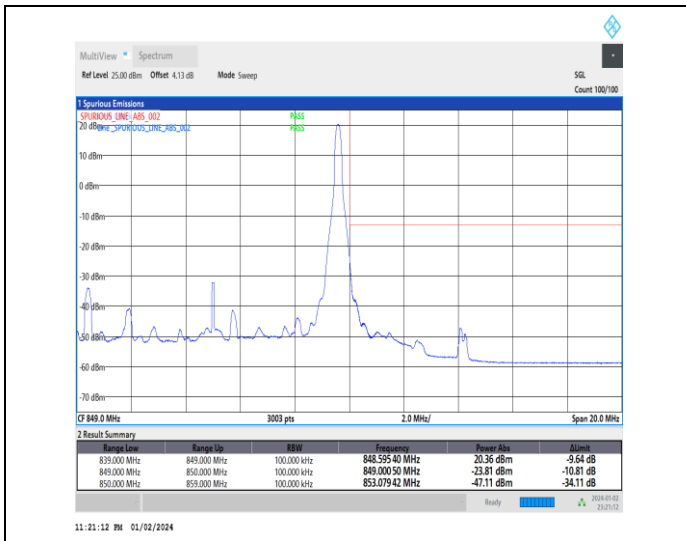
1-N5-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant0-1--PASS-see graph



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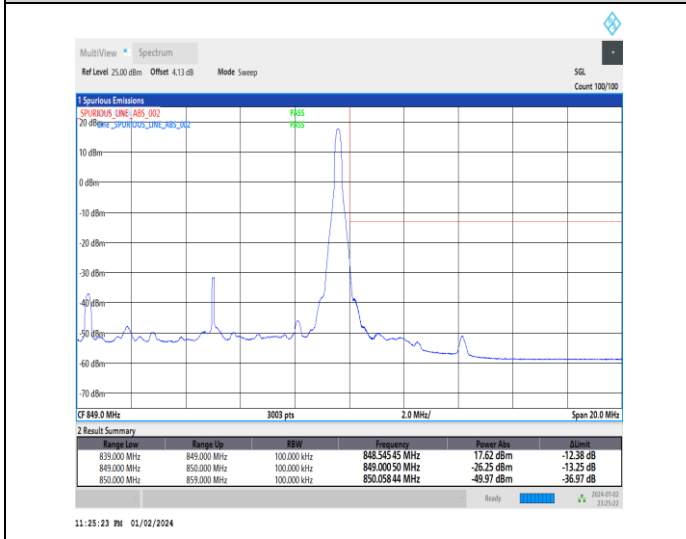
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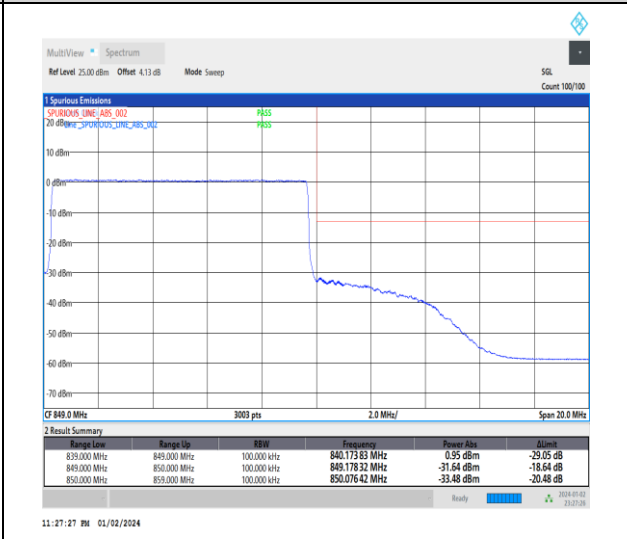
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 1-Ant0-1--PASS-see graph



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 Ant0-1--PASS-see graph



1-N5-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-An
 t0-1--PASS-see graph



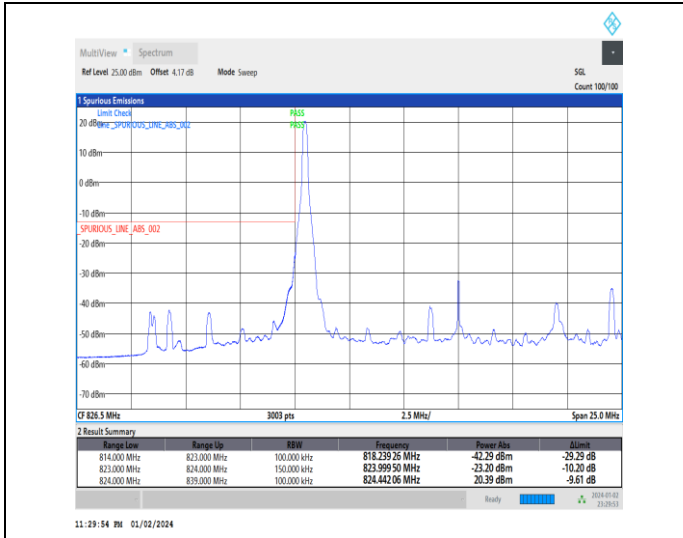
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 -1--PASS-see graph



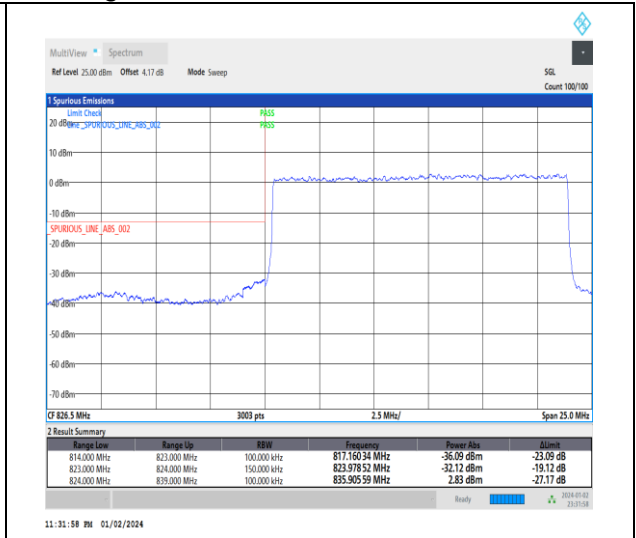
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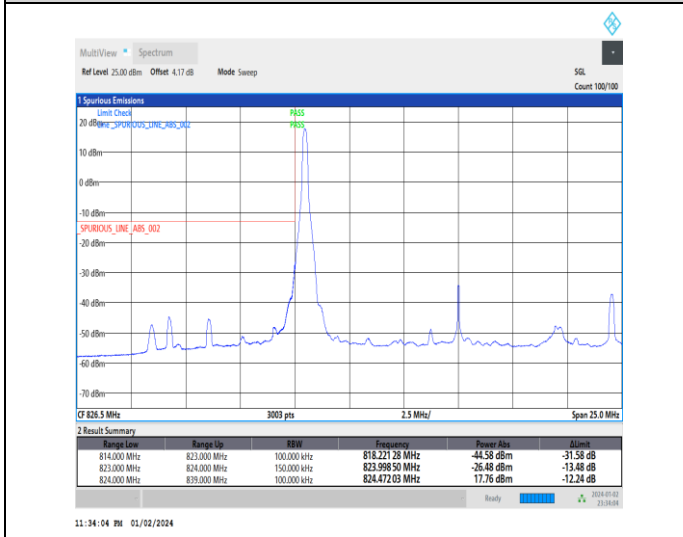
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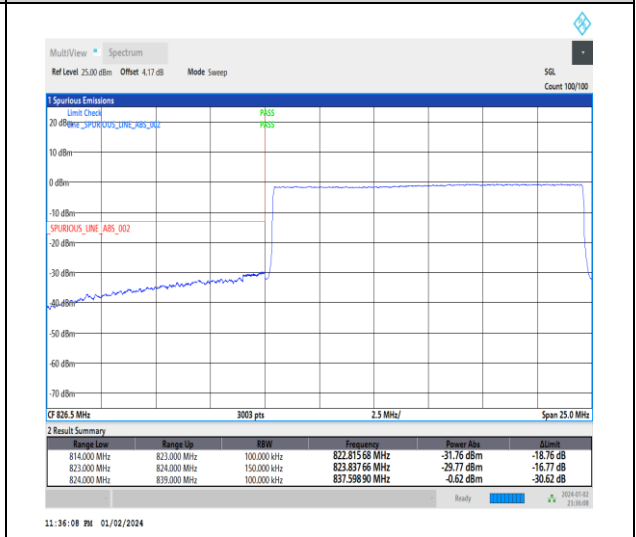
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1-N5-15-15-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1--PASS-see graph



1-N5-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph



1-N5-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant0-1--PASS-see graph

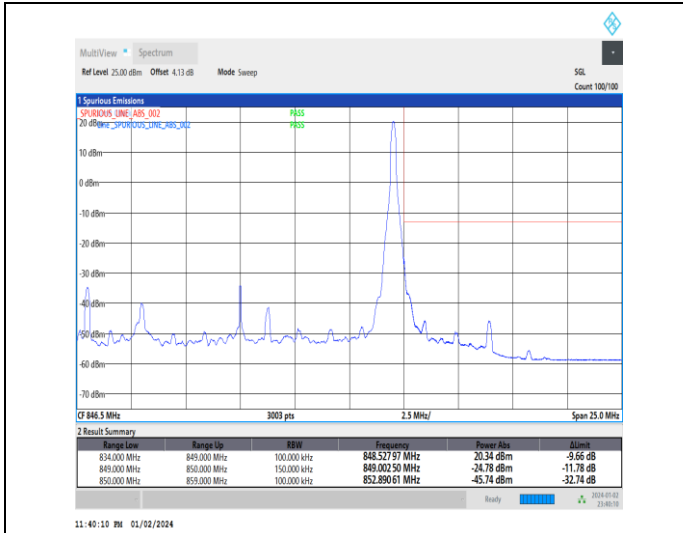


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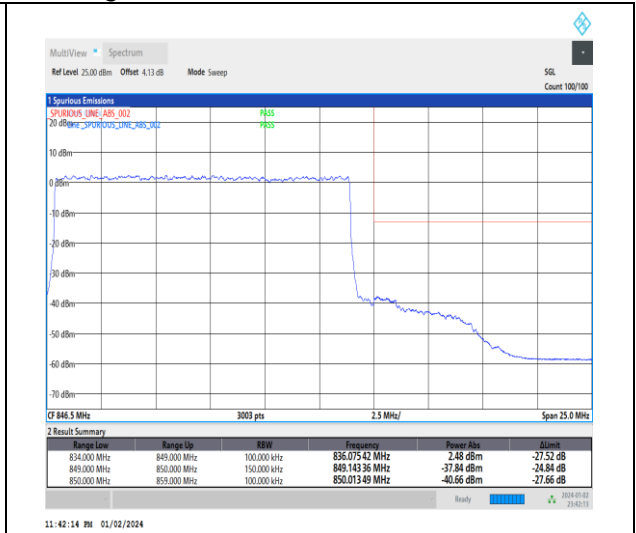
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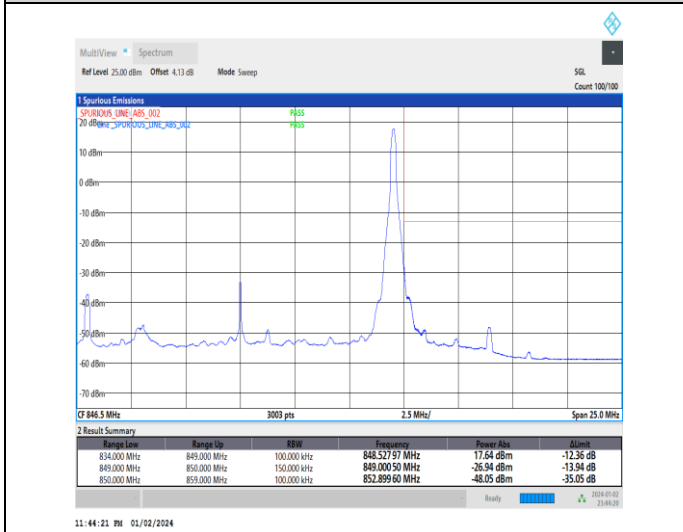
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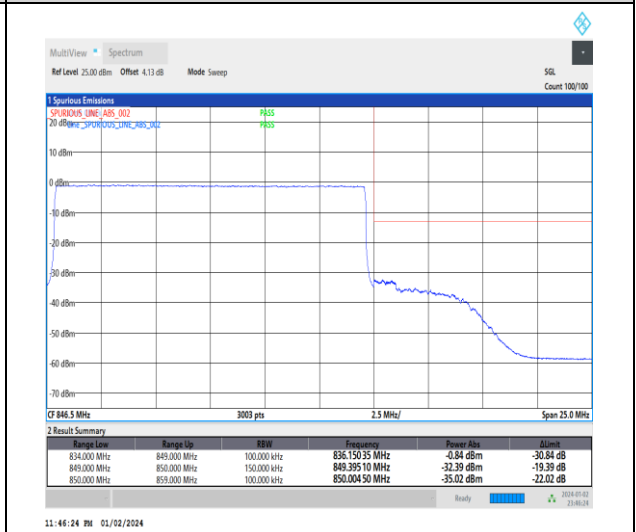
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1-N5-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1--PASS-see graph



1-N5-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant0-1--PASS-see graph



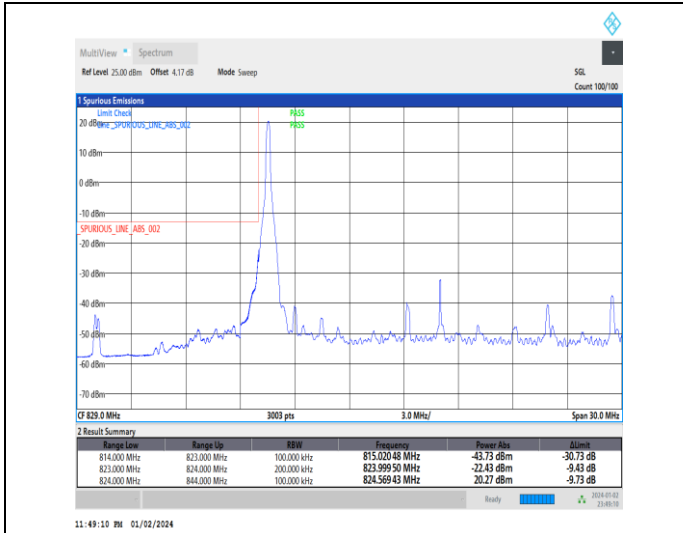
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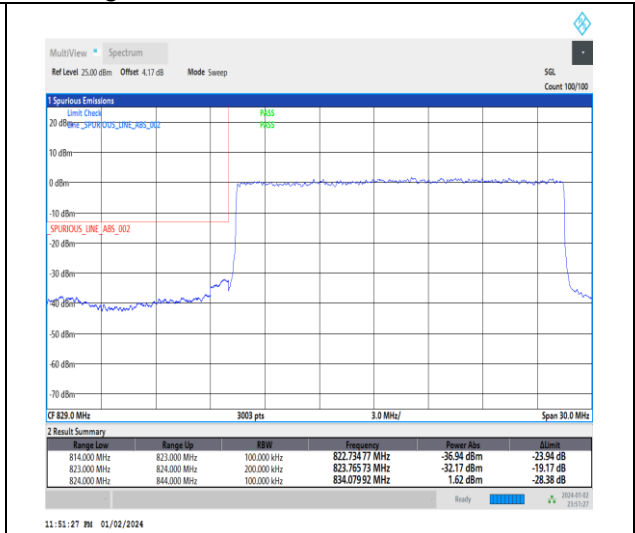
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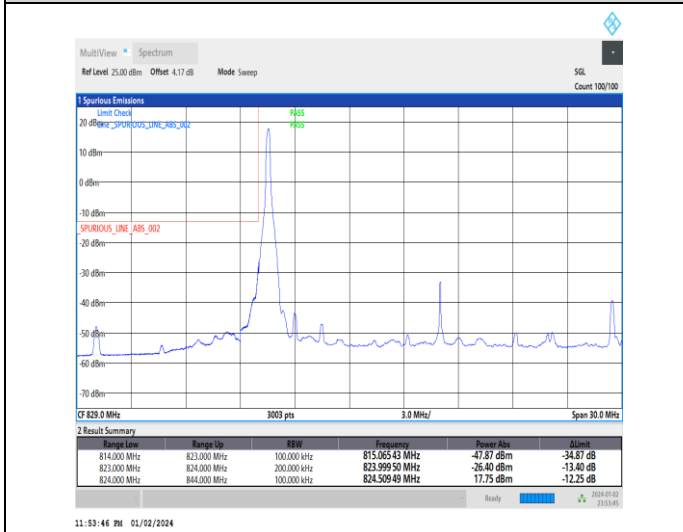
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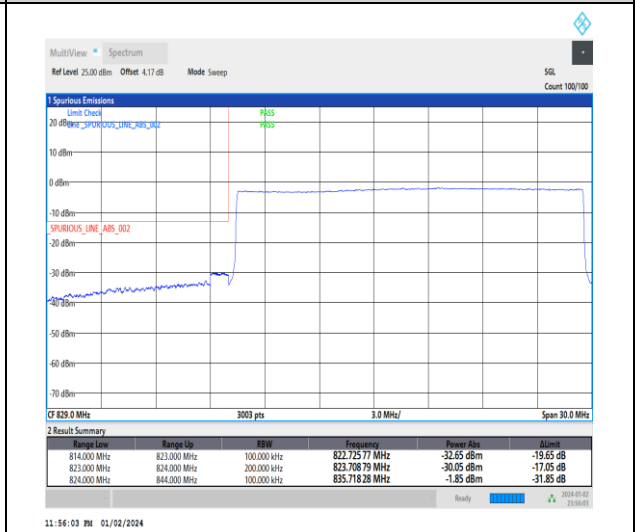
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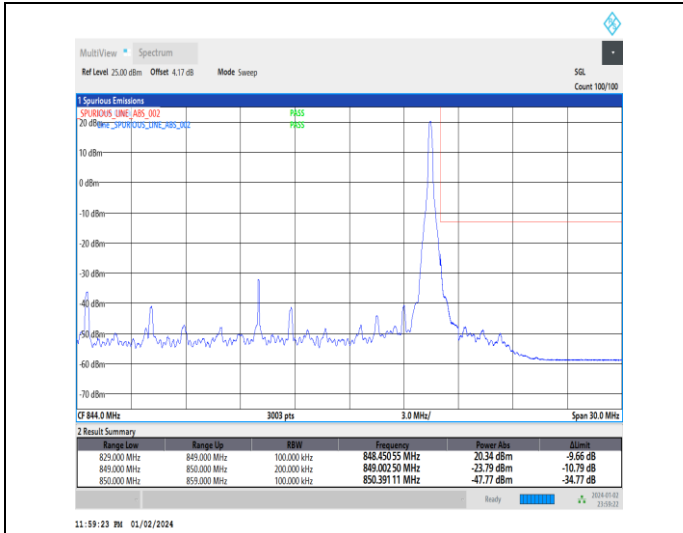
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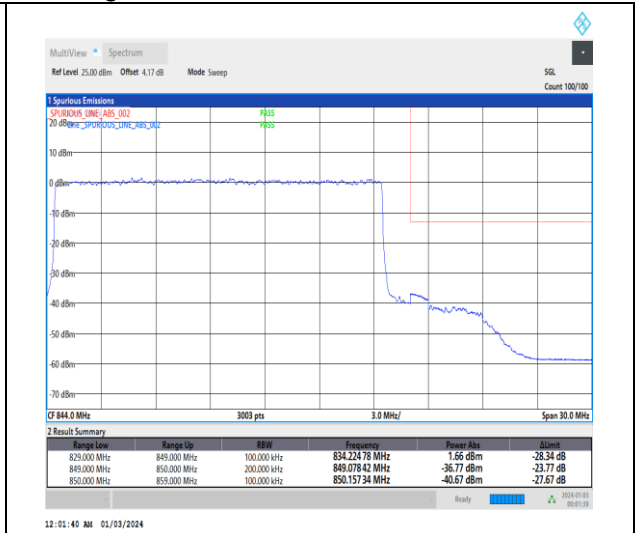
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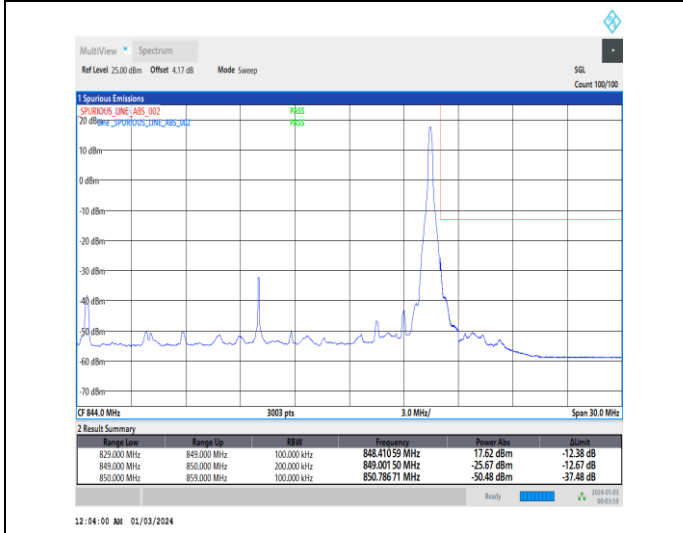
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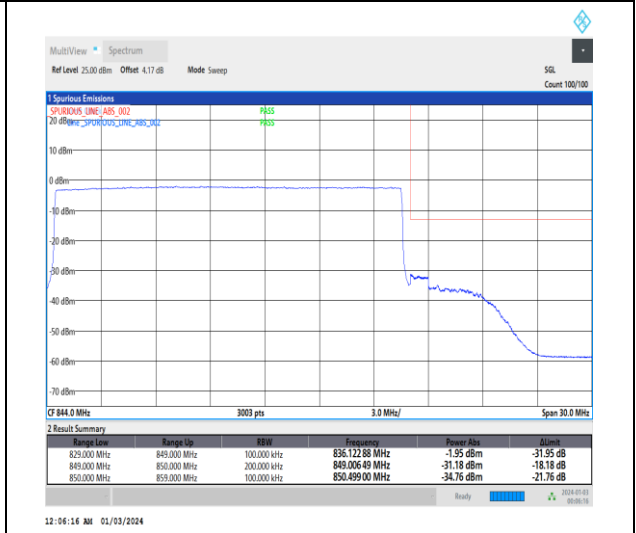
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1-N5-15-20-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant0-1--PASS-see graph



1-N5-15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant0-1--PASS-see graph



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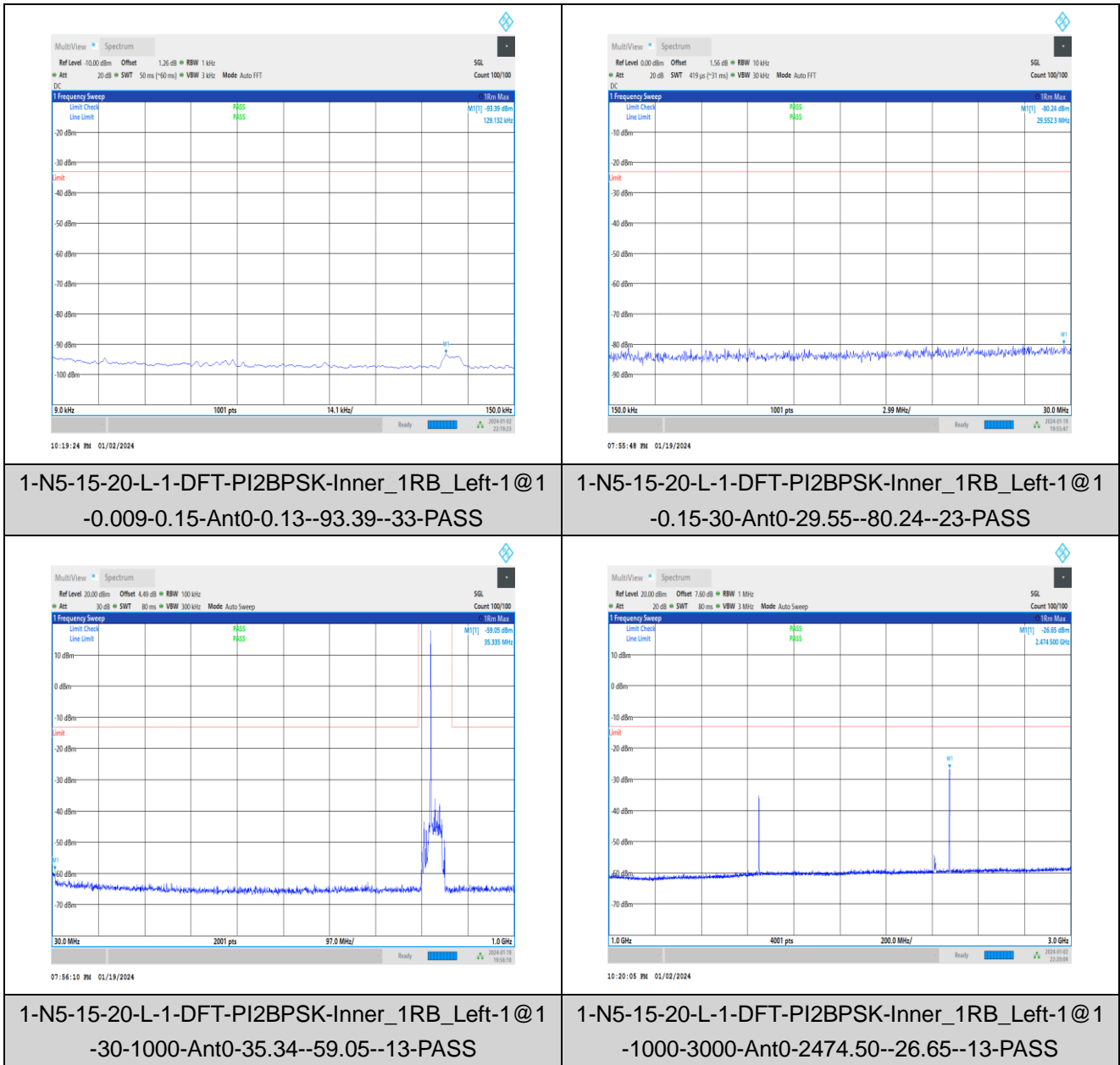
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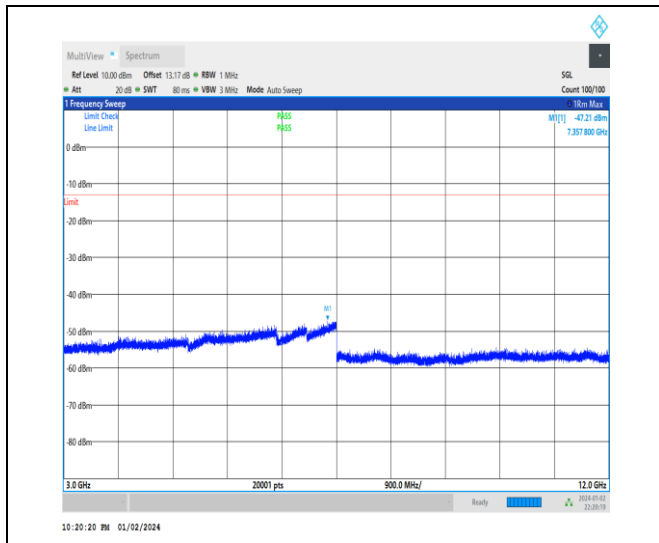


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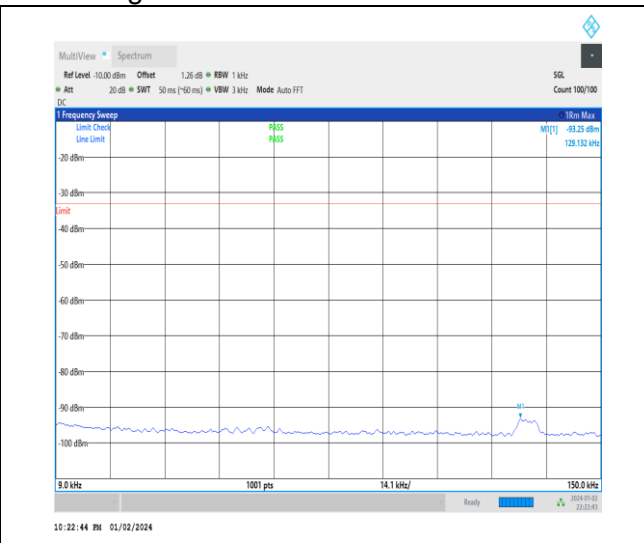
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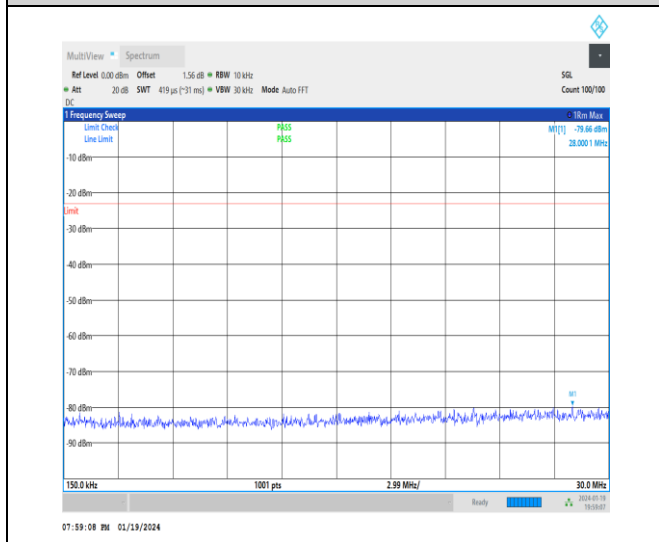
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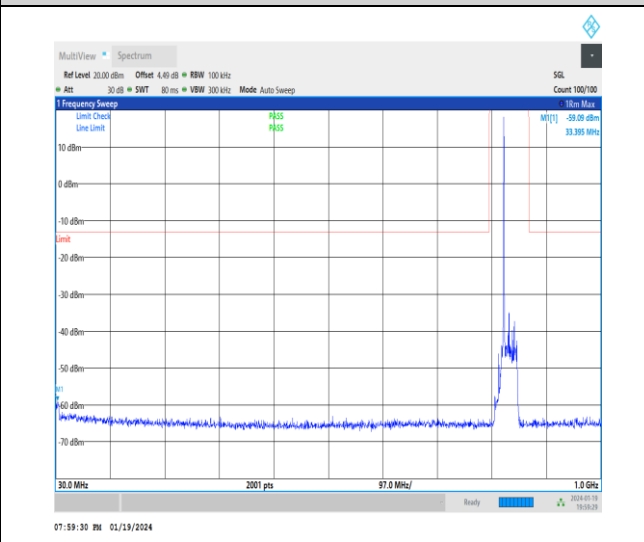
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1-N5-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant0-0.13--93.25--33-PASS



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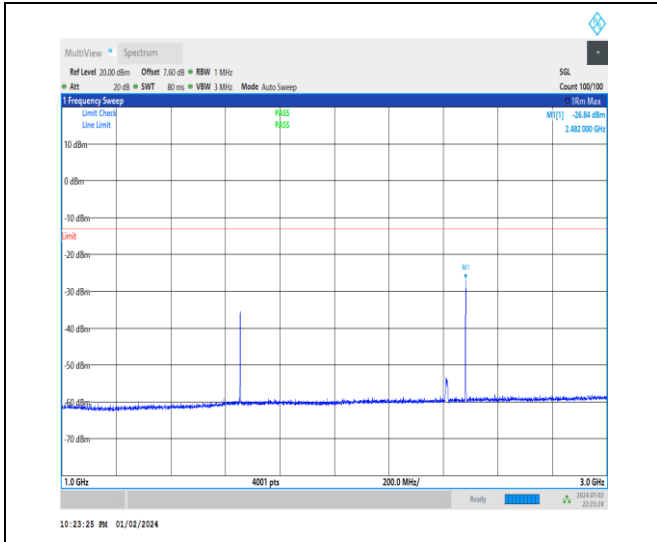
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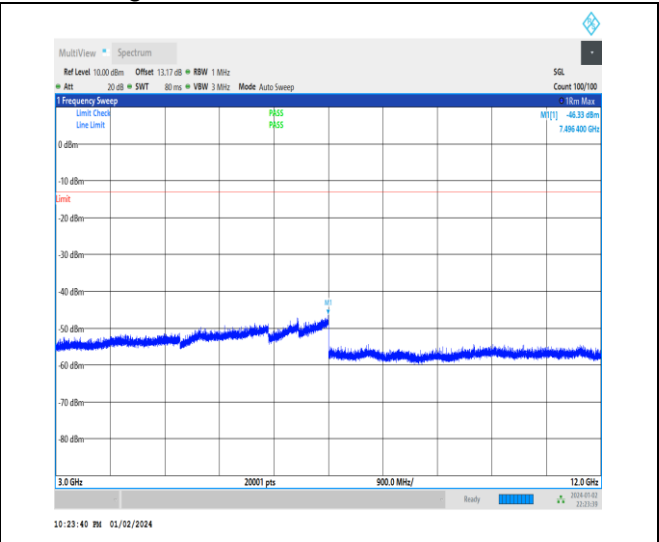
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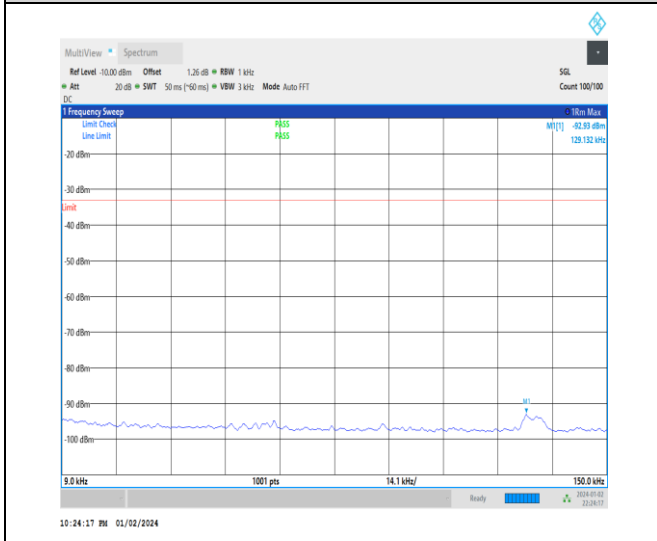
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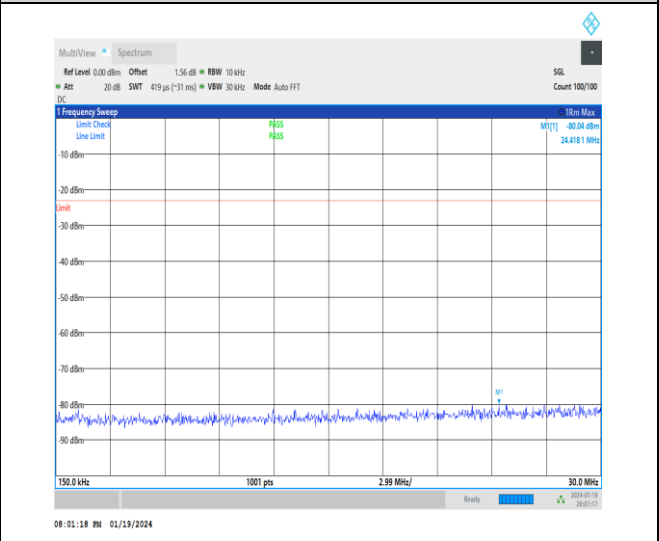
1-N5-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-1000-3000-Ant0-2482.00--26.84--13-PASS



1-N5-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-3000-12000-Ant0-7496.40--46.33--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@ 1
-0.009-0.15-Ant0-0.13--92.93--33-PASS



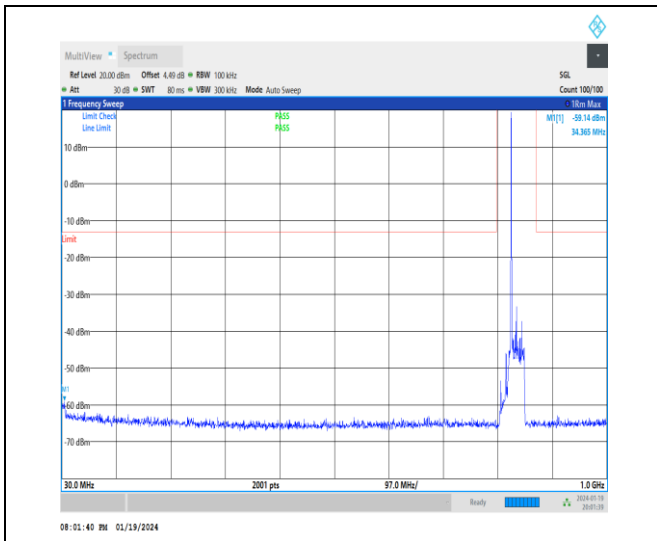
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-0.15-30-Ant0-24.42--80.04--23-PASS



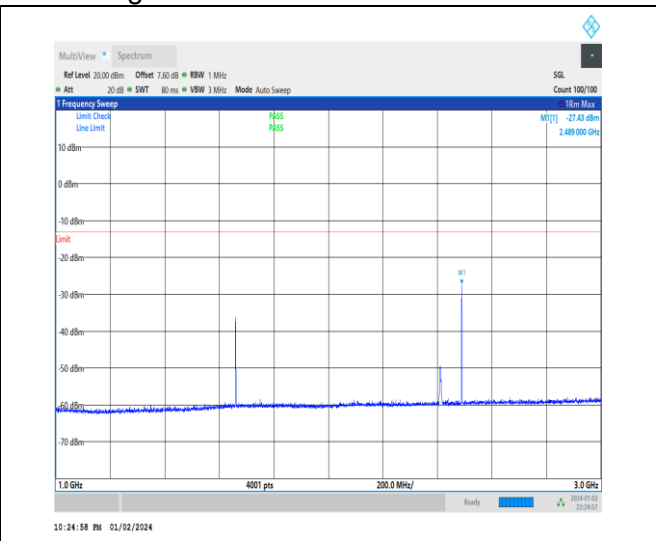
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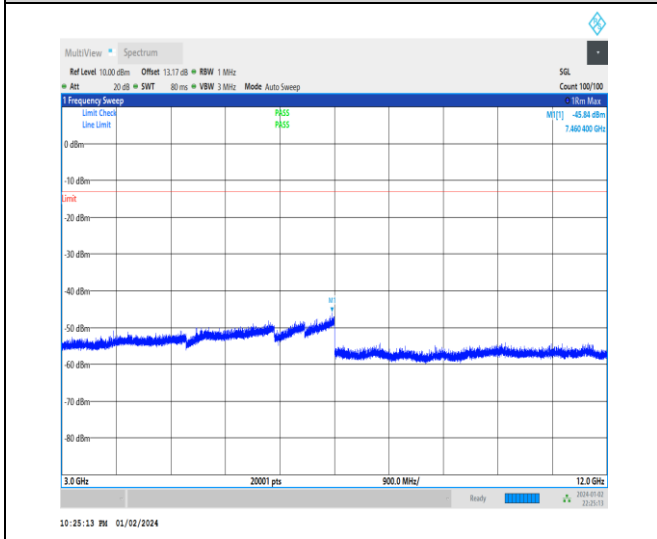
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1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
 -30-1000-Ant0-34.37--59.14--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
 -1000-3000-Ant0-2489.00--27.43--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
 -3000-12000-Ant0-7460.40--45.84--13-PASS



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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	1488.5714	44.22	-48.28	25.14	-74.18	-13.00	61.18	Horizontal
2	2204	44.26	-47.67	26.47	-72.20	-13.00	59.20	Horizontal
3	2830.2857	43.55	-46.81	27.96	-70.56	-13.00	57.56	Horizontal
4	3724	41.72	-46.15	28.82	-70.87	-13.00	57.87	Horizontal
5	4571.4286	41.54	-45.74	30.46	-69.00	-13.00	56.00	Horizontal
6	6054.8571	40.26	-44.57	32.88	-66.70	-13.00	53.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1495.4286	44.27	-48.31	25.15	-74.15	-13.00	61.15	Vertical
2	1937.1429	43.91	-47.99	25.77	-73.57	-13.00	60.57	Vertical
3	2243.4286	43.67	-47.60	26.58	-72.61	-13.00	59.61	Vertical
4	2885.1429	43.00	-46.62	28.07	-70.81	-13.00	57.81	Vertical
5	3769.1429	41.88	-46.16	28.87	-70.67	-13.00	57.67	Vertical
6	4975.4286	41.70	-45.75	31.35	-67.97	-13.00	54.97	Vertical



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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	44.69	-48.21	25.28	-73.50	-13.00	60.50	Horizontal
2	2482.7700	42.19	-47.30	27.25	-73.12	-13.00	60.12	Horizontal
3	3310.3600	41.91	-46.66	28.49	-71.53	-13.00	58.53	Horizontal
4	4137.9500	40.90	-45.92	29.43	-70.85	-13.00	57.85	Horizontal
5	4965.5400	40.65	-45.73	31.32	-69.02	-13.00	56.02	Horizontal
6	5793.1300	39.38	-44.65	32.66	-67.88	-13.00	54.88	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.1800	43.10	-48.21	25.28	-75.09	-13.00	62.09	Vertical
2	2482.7700	41.61	-47.30	27.25	-73.70	-13.00	60.70	Vertical
3	3310.3600	42.07	-46.66	28.49	-71.37	-13.00	58.37	Vertical
4	4137.9500	40.73	-45.92	29.43	-71.02	-13.00	58.02	Vertical
5	4965.5400	40.23	-45.73	31.32	-69.44	-13.00	56.44	Vertical
6	5793.1300	39.85	-44.65	32.66	-67.41	-13.00	54.41	Vertical



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 s (86-512) 62992980 sgs.china@sgs.com

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	43.57	-48.21	25.29	-74.61	-13.00	61.61	Horizontal
2	2490.2700	41.99	-47.29	27.27	-73.28	-13.00	60.28	Horizontal
3	3320.3600	42.14	-46.65	28.49	-71.28	-13.00	58.28	Horizontal
4	4150.4500	40.47	-45.93	29.46	-71.26	-13.00	58.26	Horizontal
5	4980.5400	40.51	-45.77	31.36	-69.16	-13.00	56.16	Horizontal
6	5810.6300	39.23	-44.69	32.66	-68.06	-13.00	55.06	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.1800	41.98	-48.21	25.29	-76.20	-13.00	63.20	Vertical
2	2490.2700	41.22	-47.29	27.27	-74.05	-13.00	61.05	Vertical
3	3320.3600	41.70	-46.65	28.49	-71.72	-13.00	58.72	Vertical
4	4150.4500	40.91	-45.93	29.46	-70.82	-13.00	57.82	Vertical
5	4980.5400	40.13	-45.77	31.36	-69.54	-13.00	56.54	Vertical
6	5810.6300	38.19	-44.69	32.66	-69.10	-13.00	56.10	Vertical



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 sgs.china@sgs.com

Test Band = NSA 66A_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	43.98	-48.22	25.28	-74.22	-13.00	61.22	Horizontal
2	2475.2700	42.39	-47.31	27.23	-72.95	-13.00	59.95	Horizontal
3	3300.3600	41.97	-46.68	28.48	-71.49	-13.00	58.49	Horizontal
4	4125.4500	40.60	-45.92	29.40	-71.17	-13.00	58.17	Horizontal
5	4950.5400	41.66	-45.70	31.29	-68.01	-13.00	55.01	Horizontal
6	5775.6300	39.56	-44.64	32.66	-67.68	-13.00	54.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.1800	43.61	-48.22	25.28	-74.59	-13.00	61.59	Vertical
2	2475.2700	42.08	-47.31	27.23	-73.26	-13.00	60.26	Vertical
3	3300.3600	41.87	-46.68	28.48	-71.59	-13.00	58.59	Vertical
4	4125.4500	40.09	-45.92	29.40	-71.68	-13.00	58.68	Vertical
5	4950.5400	40.74	-45.70	31.29	-68.93	-13.00	55.93	Vertical
6	5775.6300	39.44	-44.64	32.66	-67.80	-13.00	54.80	Vertical



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Test Band = NSA 66A_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	57.96	-48.21	25.28	-60.23	-13.00	47.23	Horizontal
2	2482.7700	42.90	-47.30	27.25	-72.41	-13.00	59.41	Horizontal
3	3310.3600	42.53	-46.66	28.49	-70.91	-13.00	57.91	Horizontal
4	4137.9500	40.64	-45.92	29.43	-71.11	-13.00	58.11	Horizontal
5	4965.5400	41.29	-45.73	31.32	-68.38	-13.00	55.38	Horizontal
6	5793.1300	40.41	-44.65	32.66	-66.85	-13.00	53.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.1800	47.06	-48.21	25.28	-71.13	-13.00	58.13	Vertical
2	2482.7700	42.52	-47.30	27.25	-72.79	-13.00	59.79	Vertical
3	3310.3600	41.93	-46.66	28.49	-71.51	-13.00	58.51	Vertical
4	4137.9500	40.50	-45.92	29.43	-71.25	-13.00	58.25	Vertical
5	4965.5400	40.75	-45.73	31.32	-68.92	-13.00	55.92	Vertical
6	5793.1300	39.16	-44.65	32.66	-68.10	-13.00	55.10	Vertical



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Test Band = NSA 66A_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	57.19	-48.21	25.29	-60.99	-13.00	47.99	Horizontal
2	2490.2700	42.61	-47.29	27.27	-72.66	-13.00	59.66	Horizontal
3	3320.3600	42.64	-46.65	28.49	-70.78	-13.00	57.78	Horizontal
4	4150.4500	40.87	-45.93	29.46	-70.86	-13.00	57.86	Horizontal
5	4980.5400	40.98	-45.77	31.36	-68.69	-13.00	55.69	Horizontal
6	5810.6300	39.60	-44.69	32.66	-67.69	-13.00	54.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.1800	45.57	-48.21	25.29	-72.61	-13.00	59.61	Vertical
2	2490.2700	41.61	-47.29	27.27	-73.66	-13.00	60.66	Vertical
3	3320.3600	42.58	-46.65	28.49	-70.84	-13.00	57.84	Vertical
4	4150.4500	40.17	-45.93	29.46	-71.56	-13.00	58.56	Vertical
5	4980.5400	39.88	-45.77	31.36	-69.79	-13.00	56.79	Vertical
6	5810.6300	38.58	-44.69	32.66	-68.71	-13.00	55.71	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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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage											
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-6.300000	-0.007531	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-7.500000	-0.008966	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-6.000000	-0.007173	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	-4.400000	-0.005260	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	-4.400000	-0.005260	±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	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.700000	-0.004423	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.700000	-0.006814	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.000000	-0.004782	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.500000	-0.006575	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.800000	-0.004543	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.700000	-0.004423	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.000000	-0.007173	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.100000	-0.006097	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.500000	-0.005380	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	-2.400000	-0.002869	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	-6.400000	-0.007651	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	-6.500000	-0.007770	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	-4.200000	-0.005021	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	-4.900000	-0.005858	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	-6.600000	-0.007890	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	-5.500000	-0.006575	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	-5.500000	-0.006575	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	-6.600000	-0.007890	±2.5	PASS

---End of Attachment---



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