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# Appendix B.19

## NR Band n25



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

Ant3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N25	15	5	DFT-QPSK	L	Inner_1RB_Left	23.20	24.15	33.00	PASS
N25	15	5	DFT-16QAM	L	Inner_1RB_Left	22.34	23.29	33.00	PASS
N25	15	5	DFT-QPSK	M	Inner_1RB_Left	23.19	24.14	33.00	PASS
N25	15	5	DFT-16QAM	M	Inner_1RB_Left	22.29	23.24	33.00	PASS
N25	15	5	DFT-QPSK	H	Inner_1RB_Left	23.15	24.10	33.00	PASS
N25	15	5	DFT-16QAM	H	Inner_1RB_Left	22.51	23.46	33.00	PASS
N25	15	10	DFT-QPSK	L	Inner_1RB_Left	23.16	24.11	33.00	PASS
N25	15	10	DFT-16QAM	L	Inner_1RB_Left	22.37	23.32	33.00	PASS
N25	15	10	DFT-QPSK	M	Inner_1RB_Left	23.18	24.13	33.00	PASS
N25	15	10	DFT-16QAM	M	Inner_1RB_Left	22.31	23.26	33.00	PASS
N25	15	10	DFT-QPSK	H	Inner_1RB_Left	23.38	24.33	33.00	PASS
N25	15	10	DFT-16QAM	H	Inner_1RB_Left	22.31	23.26	33.00	PASS
N25	15	15	DFT-QPSK	L	Inner_1RB_Left	23.16	24.11	33.00	PASS
N25	15	15	DFT-16QAM	L	Inner_1RB_Left	22.32	23.27	33.00	PASS
N25	15	15	DFT-QPSK	M	Inner_1RB_Left	23.18	24.13	33.00	PASS
N25	15	15	DFT-16QAM	M	Inner_1RB_Left	22.37	23.32	33.00	PASS
N25	15	15	DFT-QPSK	H	Inner_1RB_Left	23.19	24.14	33.00	PASS
N25	15	15	DFT-16QAM	H	Inner_1RB_Left	22.43	23.38	33.00	PASS
N25	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	23.31	24.26	33.00	PASS
N25	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.31	24.26	33.00	PASS
N25	15	20	DFT-PI2BPSK	L	Outer_Full	22.87	23.82	33.00	PASS
N25	15	20	DFT-QPSK	L	Inner_1RB_Left	23.30	24.25	33.00	PASS
N25	15	20	DFT-QPSK	L	Inner_1RB_Right	23.26	24.21	33.00	PASS
N25	15	20	DFT-QPSK	L	Outer_Full	22.40	23.35	33.00	PASS
N25	15	20	DFT-16QAM	L	Inner_1RB_Left	22.38	23.33	33.00	PASS
N25	15	20	DFT-16QAM	L	Inner_1RB_Right	22.60	23.55	33.00	PASS
N25	15	20	DFT-16QAM	L	Outer_Full	21.37	22.32	33.00	PASS
N25	15	20	DFT-64QAM	L	Inner_1RB_Left	21.05	22.00	33.00	PASS
N25	15	20	DFT-64QAM	L	Inner_1RB_Right	21.20	22.15	33.00	PASS
N25	15	20	DFT-64QAM	L	Outer_Full	20.90	21.85	33.00	PASS



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N25	15	20	DFT-256QAM	L	Inner_1RB_Left	18.80	19.75	33.00	PASS
N25	15	20	DFT-256QAM	L	Inner_1RB_Right	18.87	19.82	33.00	PASS
N25	15	20	DFT-256QAM	L	Outer_Full	18.90	19.85	33.00	PASS
N25	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	23.22	24.17	33.00	PASS
N25	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	23.27	24.22	33.00	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	22.85	23.80	33.00	PASS
N25	15	20	DFT-QPSK	M	Inner_1RB_Left	23.19	24.14	33.00	PASS
N25	15	20	DFT-QPSK	M	Inner_1RB_Right	23.23	24.18	33.00	PASS
N25	15	20	DFT-QPSK	M	Outer_Full	22.30	23.25	33.00	PASS
N25	15	20	DFT-16QAM	M	Inner_1RB_Left	22.49	23.44	33.00	PASS
N25	15	20	DFT-16QAM	M	Inner_1RB_Right	22.58	23.53	33.00	PASS
N25	15	20	DFT-16QAM	M	Outer_Full	21.26	22.21	33.00	PASS
N25	15	20	DFT-64QAM	M	Inner_1RB_Left	21.07	22.02	33.00	PASS
N25	15	20	DFT-64QAM	M	Inner_1RB_Right	21.16	22.11	33.00	PASS
N25	15	20	DFT-64QAM	M	Outer_Full	20.88	21.83	33.00	PASS
N25	15	20	DFT-256QAM	M	Inner_1RB_Left	18.78	19.73	33.00	PASS
N25	15	20	DFT-256QAM	M	Inner_1RB_Right	18.89	19.84	33.00	PASS
N25	15	20	DFT-256QAM	M	Outer_Full	18.88	19.83	33.00	PASS
N25	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.25	24.20	33.00	PASS
N25	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	23.38	24.33	33.00	PASS
N25	15	20	DFT-PI2BPSK	H	Outer_Full	22.85	23.80	33.00	PASS
N25	15	20	DFT-QPSK	H	Inner_1RB_Left	23.26	24.21	33.00	PASS
N25	15	20	DFT-QPSK	H	Inner_1RB_Right	23.48	24.43	33.00	PASS
N25	15	20	DFT-QPSK	H	Outer_Full	23.06	24.01	33.00	PASS
N25	15	20	DFT-16QAM	H	Inner_1RB_Left	22.26	23.21	33.00	PASS
N25	15	20	DFT-16QAM	H	Inner_1RB_Right	22.32	23.27	33.00	PASS
N25	15	20	DFT-16QAM	H	Outer_Full	22.16	23.11	33.00	PASS
N25	15	20	DFT-64QAM	H	Inner_1RB_Left	21.25	22.20	33.00	PASS
N25	15	20	DFT-64QAM	H	Inner_1RB_Right	21.36	22.31	33.00	PASS
N25	15	20	DFT-64QAM	H	Outer_Full	21.19	22.14	33.00	PASS
N25	15	20	DFT-256QAM	H	Inner_1RB_Left	18.83	19.78	33.00	PASS
N25	15	20	DFT-256QAM	H	Inner_1RB_Right	18.89	19.84	33.00	PASS
N25	15	20	DFT-256QAM	H	Outer_Full	18.88	19.83	33.00	PASS



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## Peak-to-Average Ratio for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N25	15	20	DFT-256QAM	L	Outer_Full	6.15	13	PASS
N25	15	20	CP-256QAM	L	Outer_Full	6.63	13	PASS
N25	15	20	DFT-256QAM	M	Outer_Full	6.42	13	PASS
N25	15	20	CP-256QAM	M	Outer_Full	6.82	13	PASS
N25	15	20	DFT-256QAM	H	Outer_Full	6.39	13	PASS
N25	15	20	CP-256QAM	H	Outer_Full	6.75	13	PASS

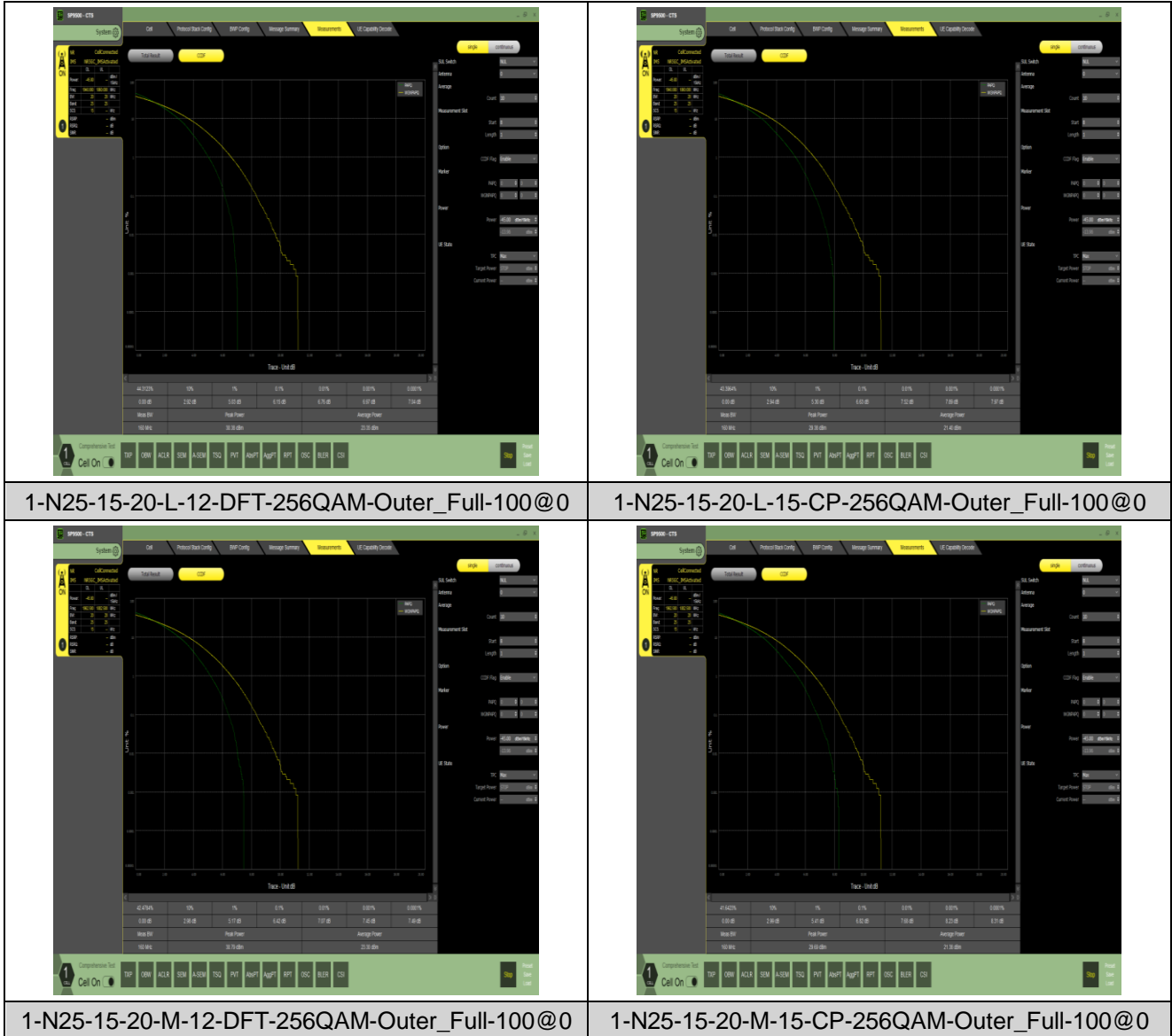


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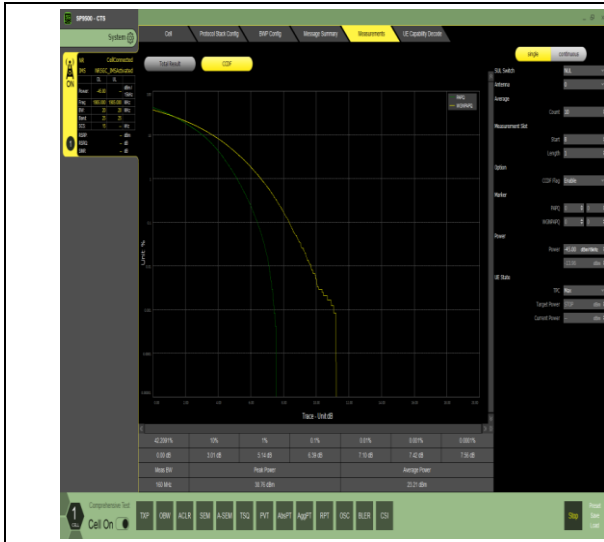
Test Graphs



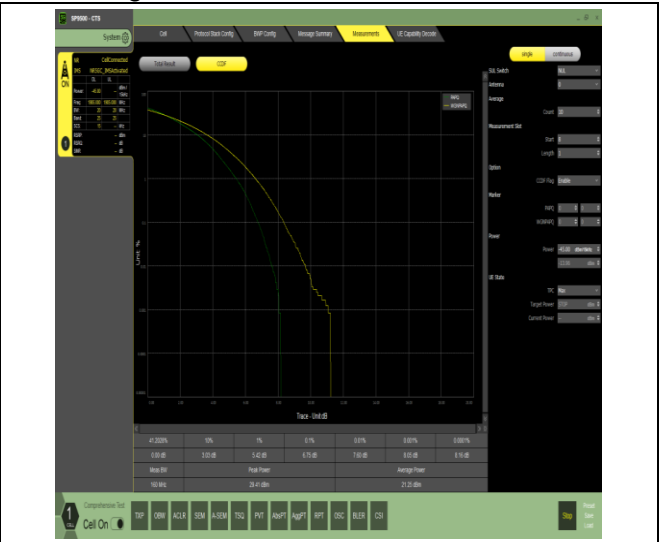
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1-N25-15-20-H-12-DFT-256QAM-Outer\_Full-100@0



1-N25-15-20-H-15-CP-256QAM-Outer\_Full-100@0



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## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N25	15	5	DFT-QPSK	M	Outer_Full	4.509	4.930	PASS
N25	15	5	DFT-PI2BPSK	M	Outer_Full	4.512	4.950	PASS
N25	15	5	DFT-16QAM	M	Outer_Full	4.5	4.950	PASS
N25	15	5	DFT-64QAM	M	Outer_Full	4.512	4.970	PASS
N25	15	5	DFT-256QAM	M	Outer_Full	4.501	4.910	PASS
N25	15	5	CP-QPSK	M	Outer_Full	4.495	4.940	PASS
N25	15	5	CP-16QAM	M	Outer_Full	4.502	4.950	PASS
N25	15	5	CP-64QAM	M	Outer_Full	4.505	4.950	PASS
N25	15	5	CP-256QAM	M	Outer_Full	4.482	4.960	PASS
N25	15	10	DFT-QPSK	M	Outer_Full	8.912	9.440	PASS
N25	15	10	DFT-PI2BPSK	M	Outer_Full	8.948	9.460	PASS
N25	15	10	DFT-16QAM	M	Outer_Full	8.927	9.420	PASS
N25	15	10	DFT-64QAM	M	Outer_Full	8.937	9.440	PASS
N25	15	10	DFT-256QAM	M	Outer_Full	8.922	9.420	PASS
N25	15	10	CP-QPSK	M	Outer_Full	9.282	9.800	PASS
N25	15	10	CP-16QAM	M	Outer_Full	9.299	9.820	PASS
N25	15	10	CP-64QAM	M	Outer_Full	9.294	9.780	PASS
N25	15	10	CP-256QAM	M	Outer_Full	9.276	9.800	PASS
N25	15	15	DFT-QPSK	M	Outer_Full	13.468	14.370	PASS
N25	15	15	DFT-PI2BPSK	M	Outer_Full	13.483	14.340	PASS
N25	15	15	DFT-16QAM	M	Outer_Full	13.499	14.310	PASS
N25	15	15	DFT-64QAM	M	Outer_Full	13.485	14.340	PASS
N25	15	15	DFT-256QAM	M	Outer_Full	13.467	14.370	PASS
N25	15	15	CP-QPSK	M	Outer_Full	14.183	15.360	PASS
N25	15	15	CP-16QAM	M	Outer_Full	14.184	15.060	PASS
N25	15	15	CP-64QAM	M	Outer_Full	14.179	15.030	PASS
N25	15	15	CP-256QAM	M	Outer_Full	14.165	15.060	PASS
N25	15	20	DFT-QPSK	M	Outer_Full	17.886	18.920	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	17.953	18.920	PASS
N25	15	20	DFT-16QAM	M	Outer_Full	17.894	18.840	PASS



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N25	15	20	DFT-64QAM	M	Outer_Full	17.93	18.960	PASS
N25	15	20	DFT-256QAM	M	Outer_Full	17.88	18.840	PASS
N25	15	20	CP-QPSK	M	Outer_Full	18.983	20.000	PASS
N25	15	20	CP-16QAM	M	Outer_Full	18.945	20.000	PASS
N25	15	20	CP-64QAM	M	Outer_Full	19.003	19.960	PASS
N25	15	20	CP-256QAM	M	Outer_Full	18.931	20.000	PASS



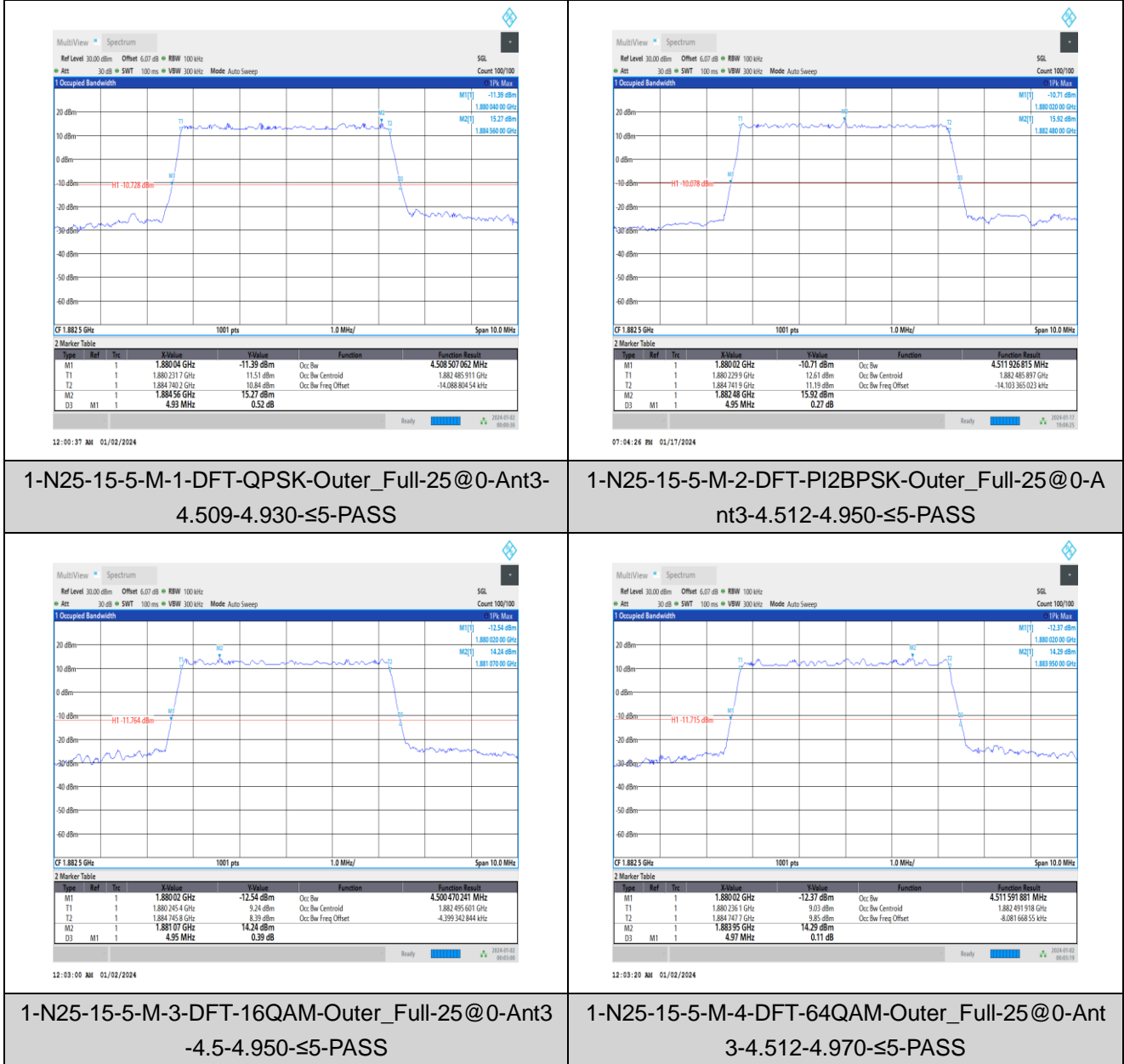
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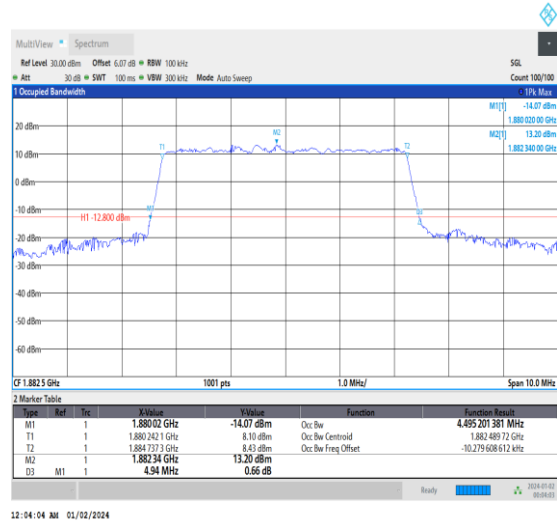
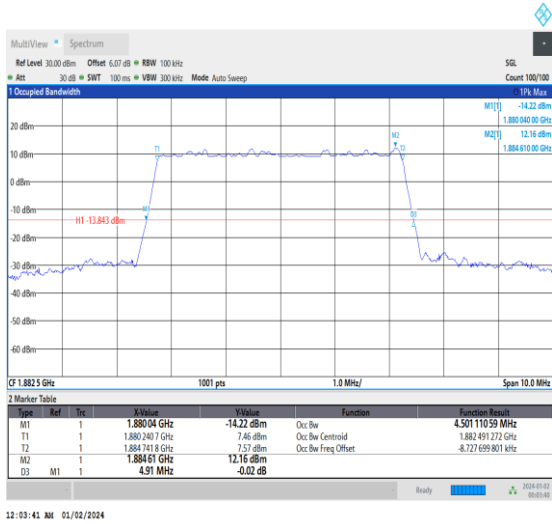
Test Graphs



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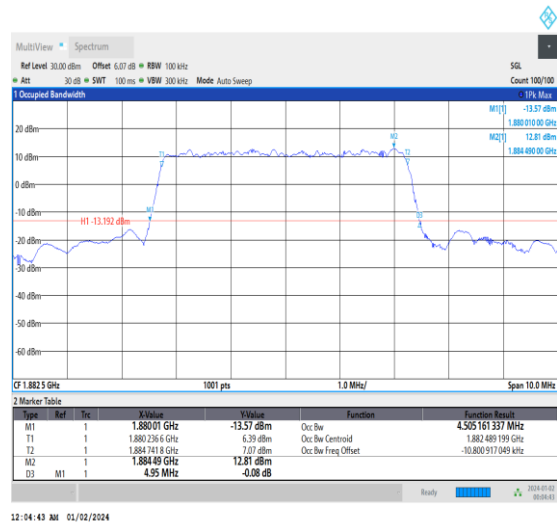
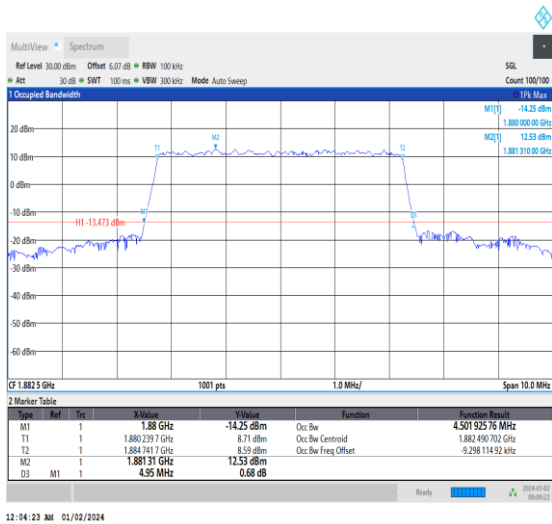
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1-N25-15-5-M-5-DFT-256QAM-Outer\_Full-25@0-Ant  
3-4.501-4.910-≤5-PASS

1-N25-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant3-4  
.495-4.940-≤5-PASS



1-N25-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant3-  
4.502-4.950-≤5-PASS

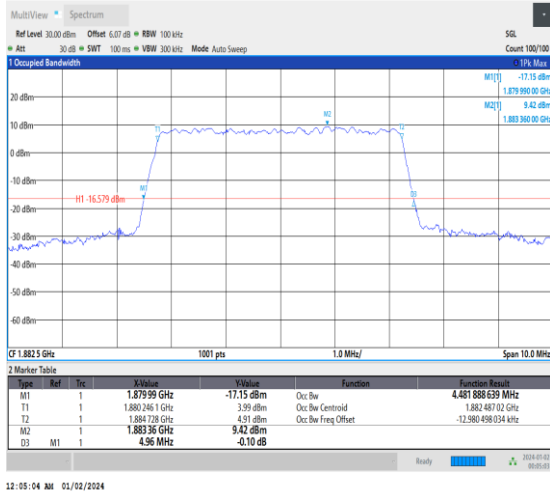
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4.505-4.950-≤5-PASS



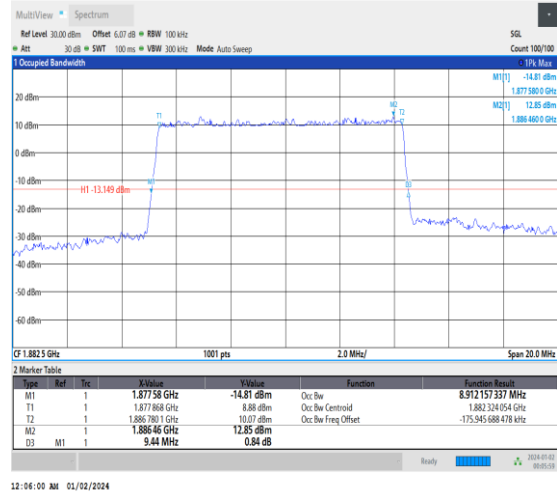
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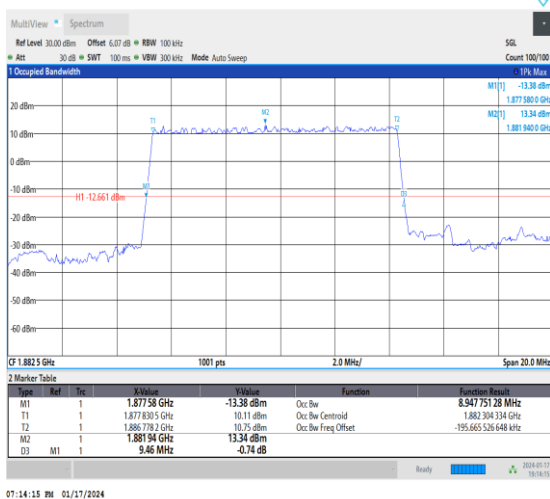
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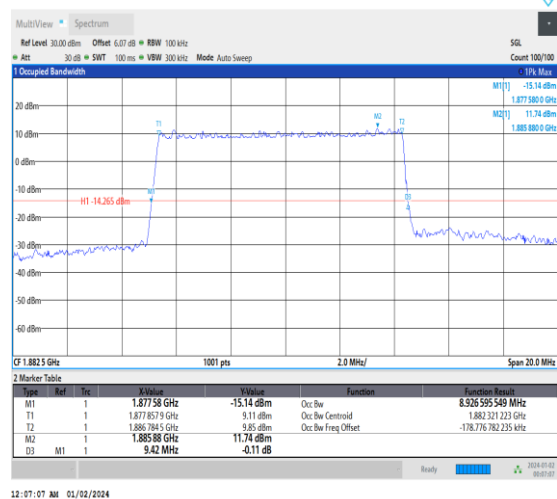
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-4.482-4.960-≤5-PASS



1-N25-15-10-M-1-DFT-QPSK-Outer\_Full-50@0-Ant  
3-8.912-9.440-≤10-PASS



1-N25-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant3  
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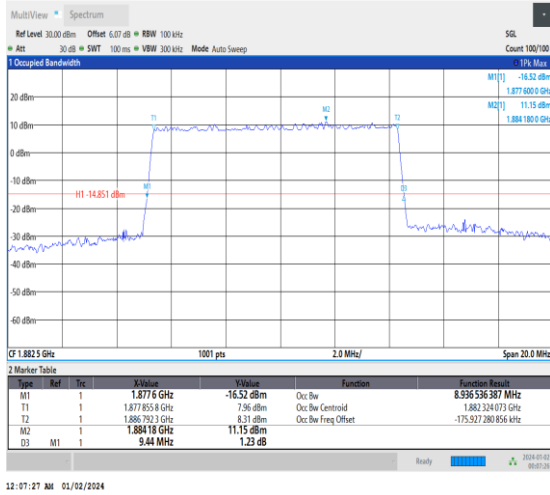
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t3-8.927-9.420-≤10-PASS



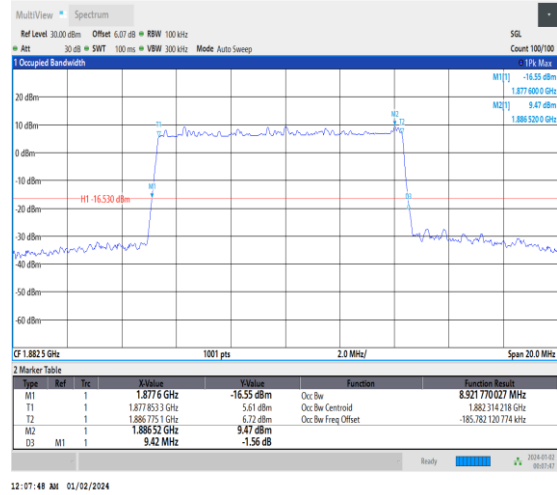
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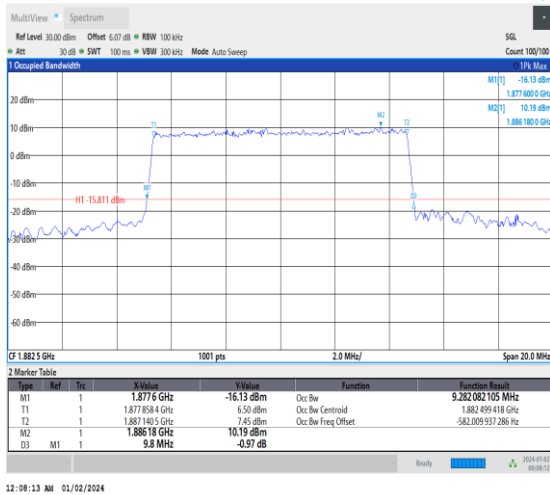
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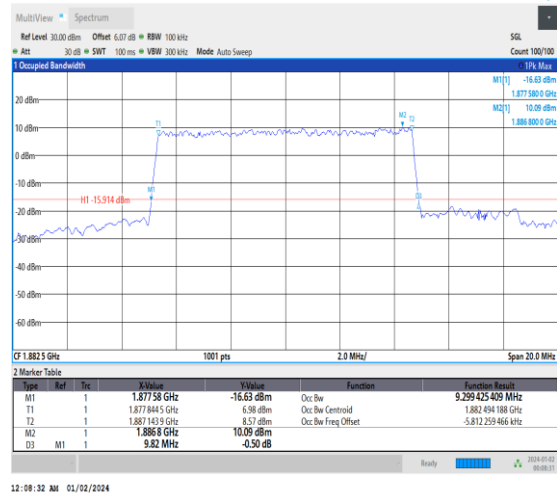
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3-8.937-9.440-≤10-PASS



1-N25-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-A  
nt3-8.922-9.420-≤10-PASS



1-N25-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant3-  
9.282-9.800-≤10-PASS



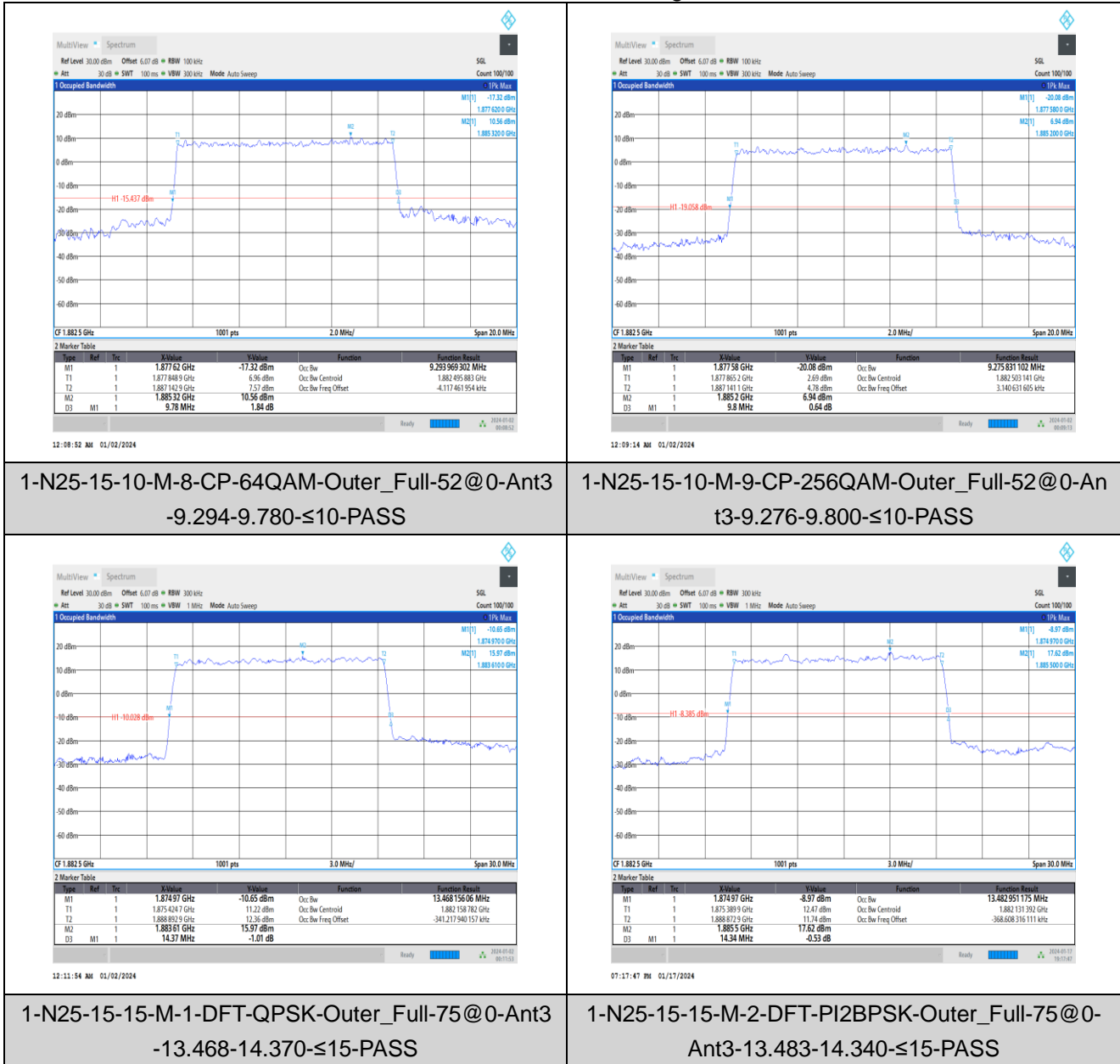
1-N25-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant  
3-9.299-9.820-≤10-PASS



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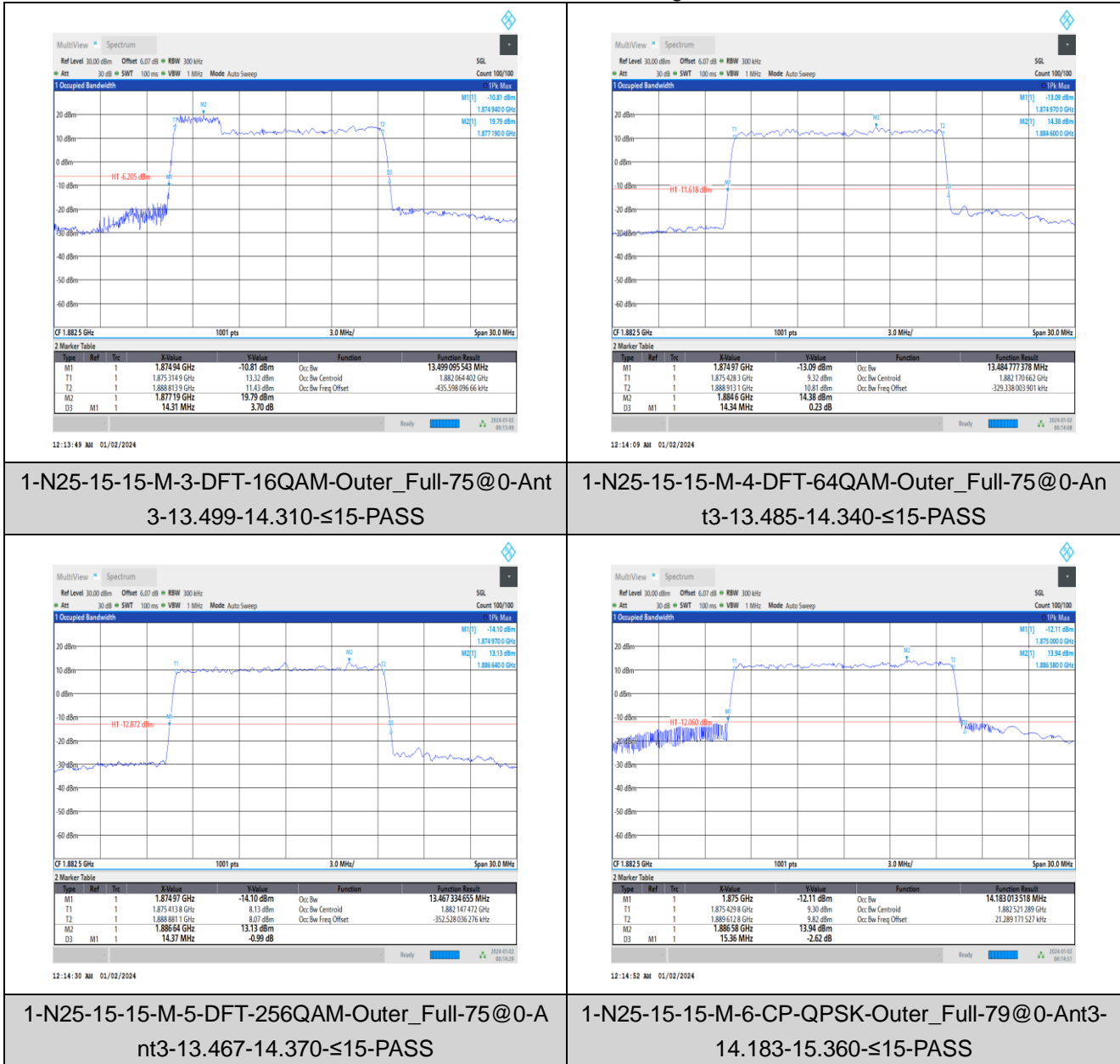
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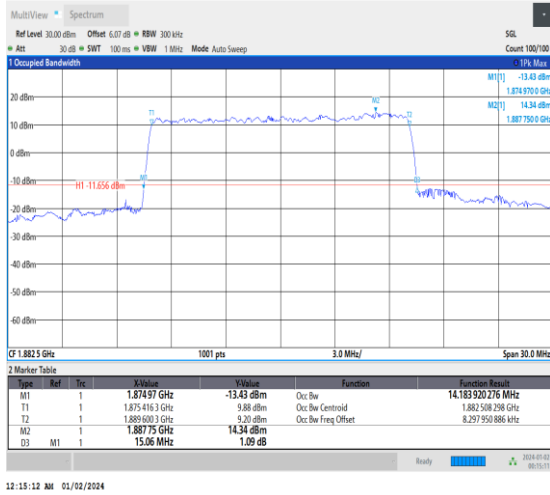
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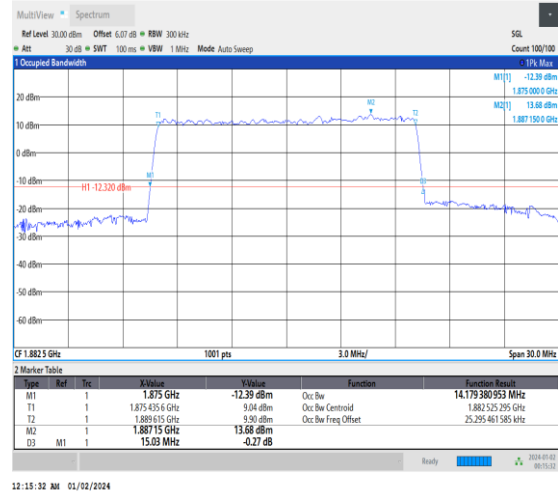
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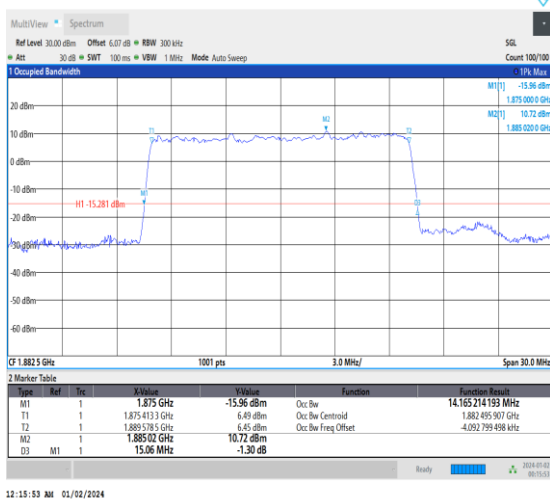
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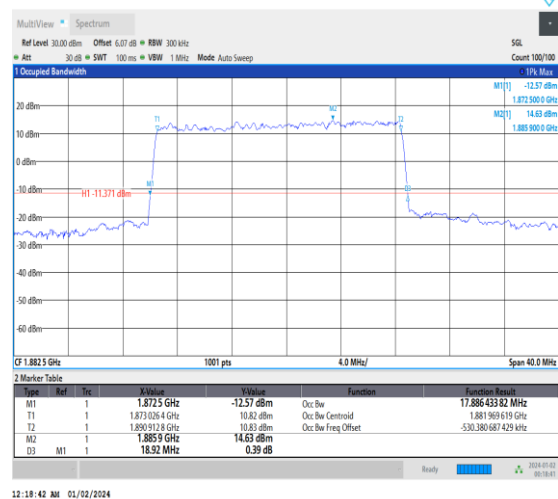
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-14.184-15.060-≤15-PASS



1-N25-15-15-M-8-CP-64QAM-Outer\_Full-79@0-Ant  
3-14.179-15.030-≤15-PASS



1-N25-15-15-M-9-CP-256QAM-Outer\_Full-79@0-Ant  
3-14.165-15.060-≤15-PASS



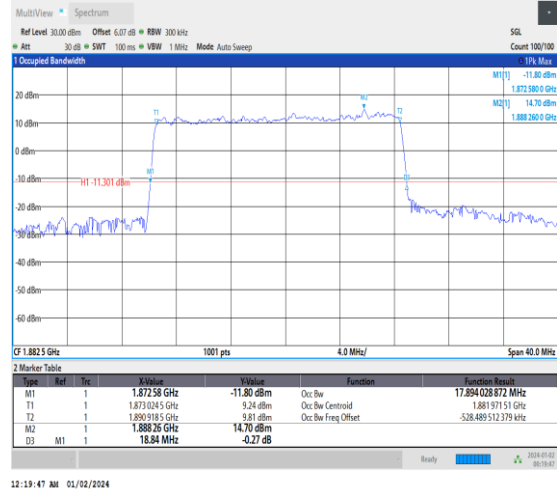
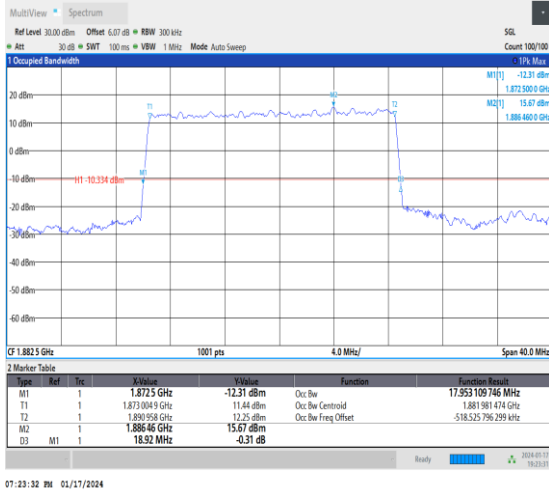
1-N25-15-20-M-1-DFT-QPSK-Outer\_Full-100@0-An  
t3-17.886-18.920-≤20-PASS



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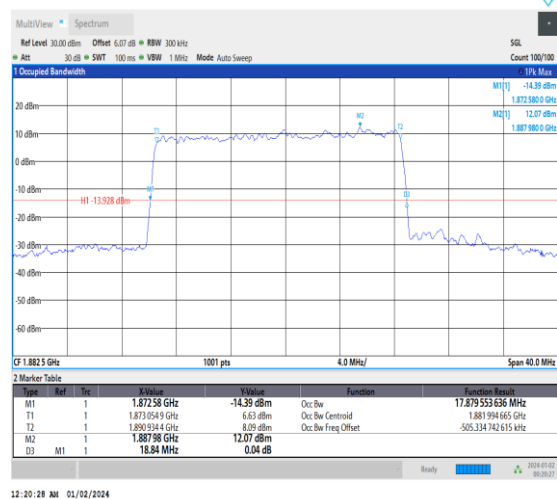
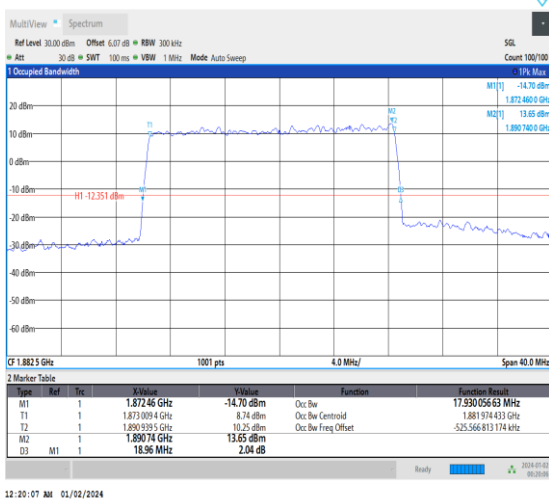
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1-N25-15-20-M-2-DFT-PI2BPSK-Outer\_Full-100@0-Ant3-17.953-18.920-≤20-PASS

1-N25-15-20-M-3-DFT-16QAM-Outer\_Full-100@0-Ant3-17.894-18.840-≤20-PASS



1-N25-15-20-M-4-DFT-64QAM-Outer\_Full-100@0-Ant3-17.93-18.960-≤20-PASS

1-N25-15-20-M-5-DFT-256QAM-Outer\_Full-100@0-Ant3-17.88-18.840-≤20-PASS

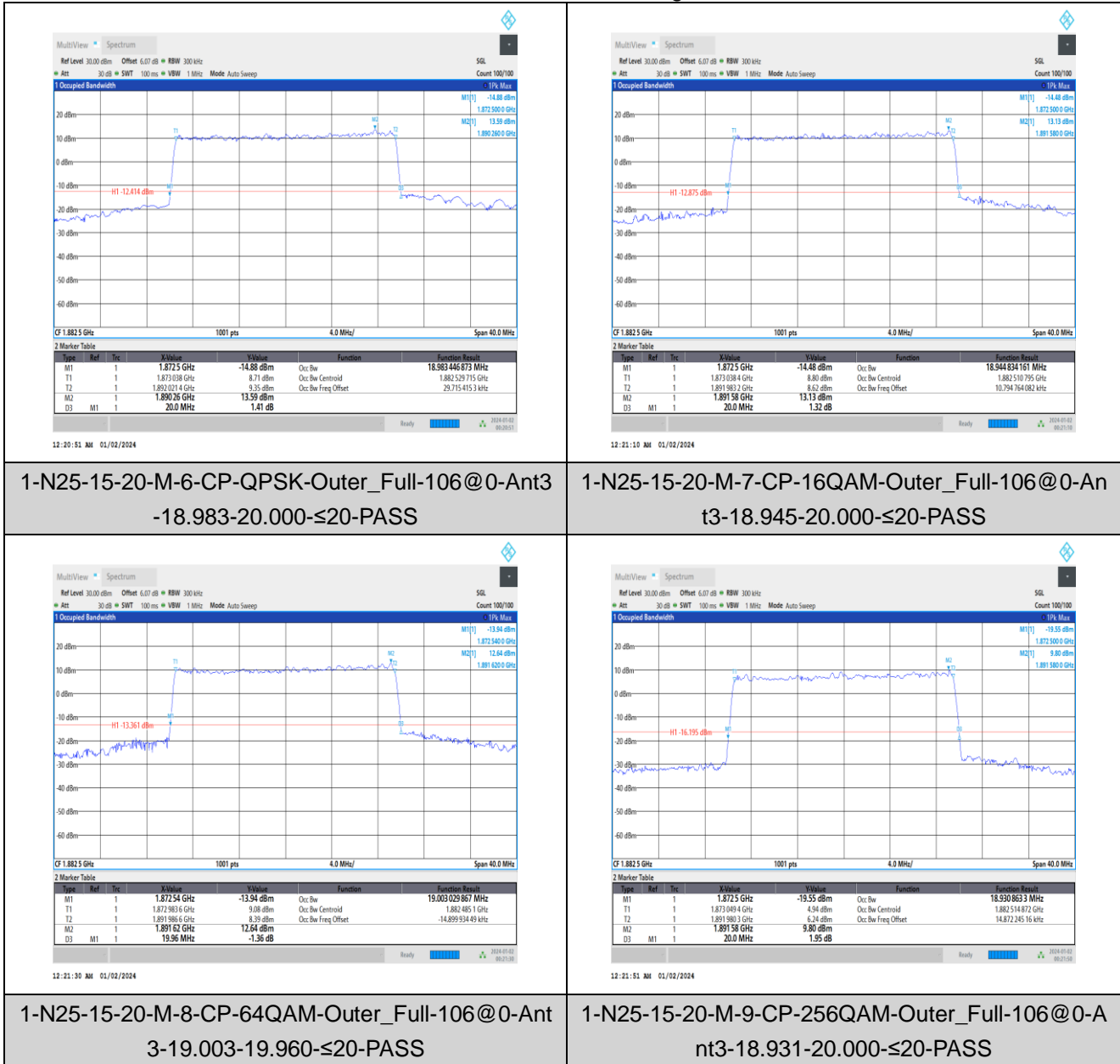


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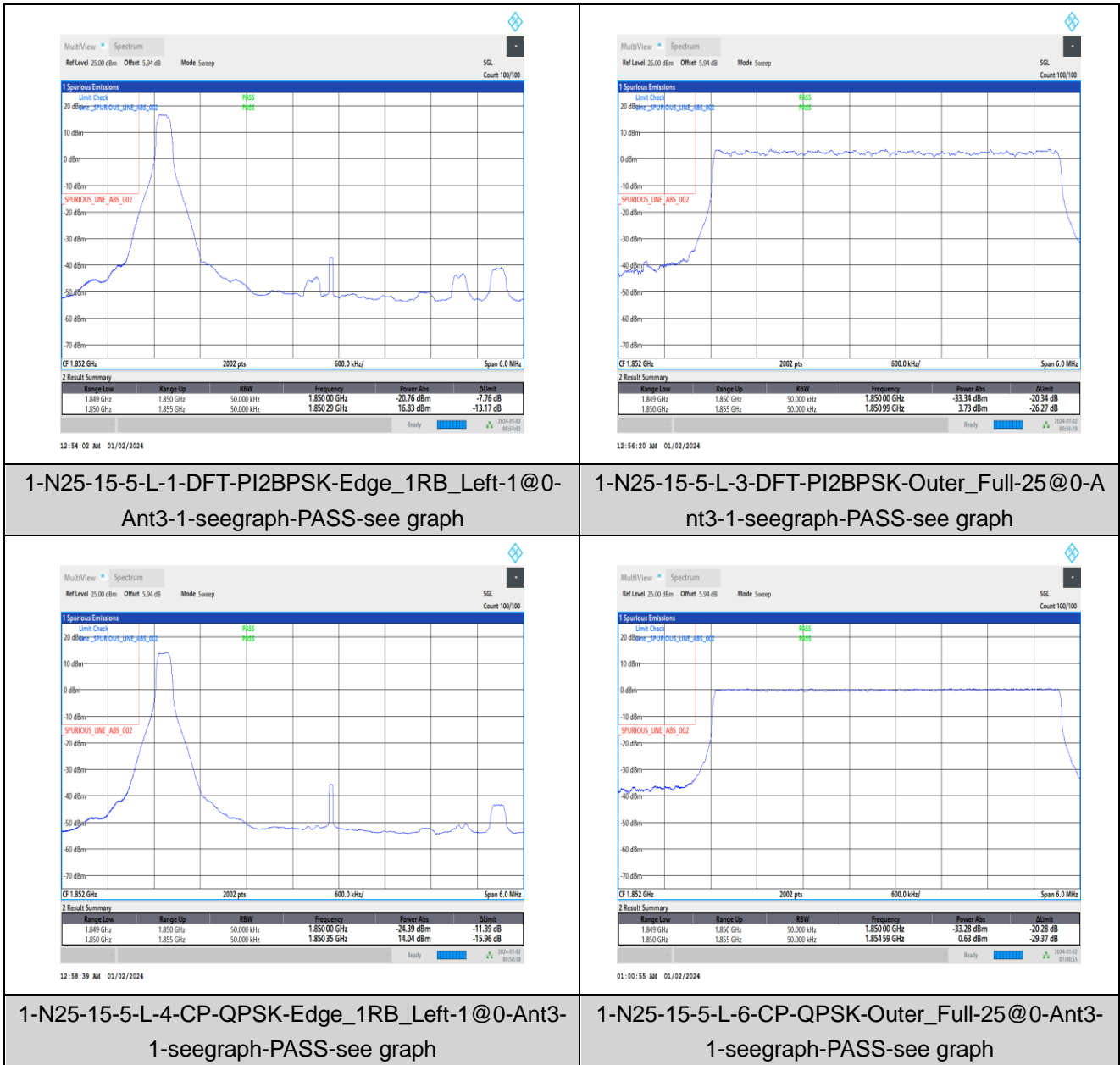
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## Band Edge for SA

### Test Graphs

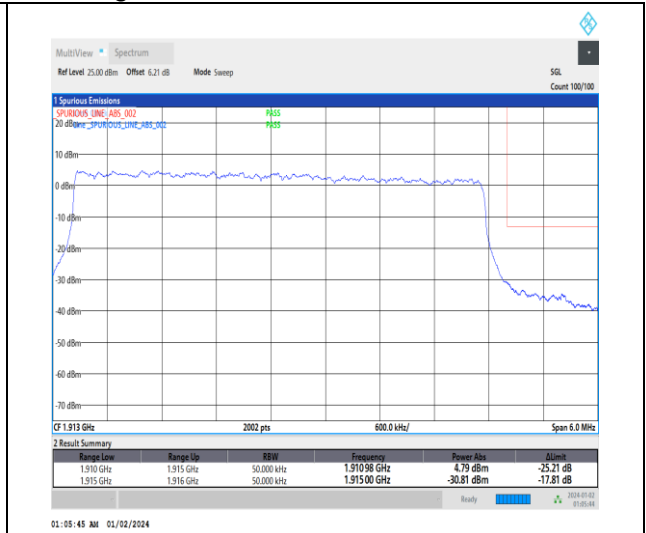
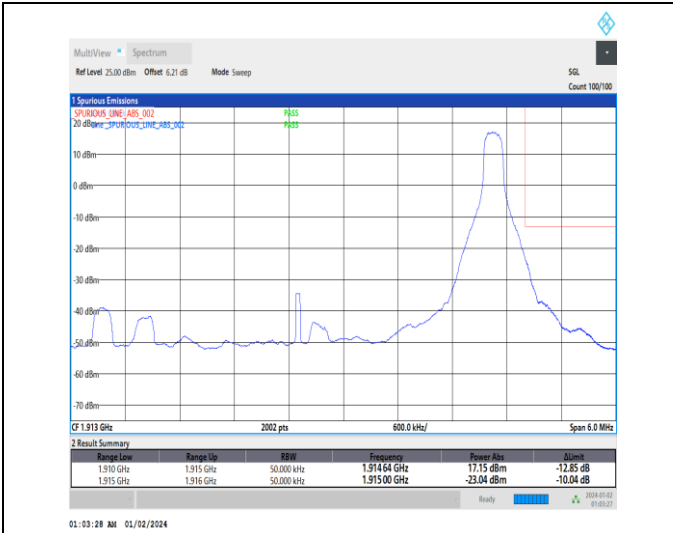


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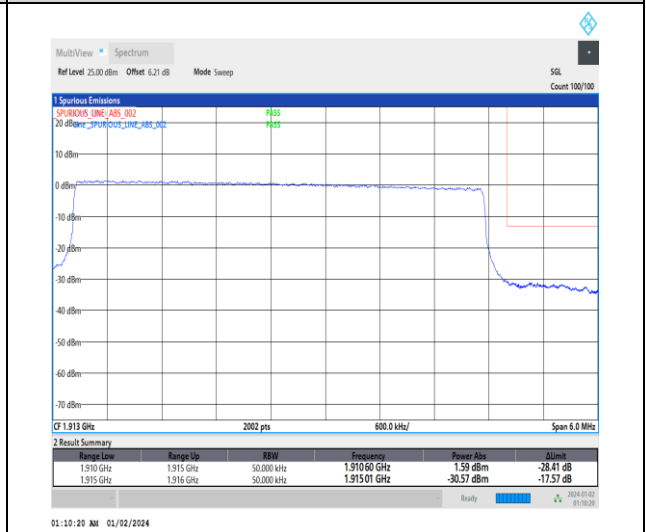
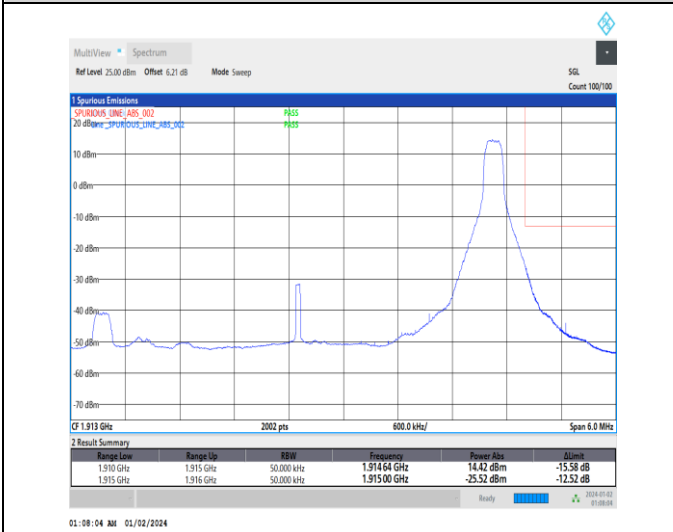
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1-N25-15-5-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@2  
4-Ant3-1-seegraph-PASS-see graph

1-N25-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-A  
nt3-1-seegraph-PASS-see graph



1-N25-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-A  
nt3-1-seegraph-PASS-see graph

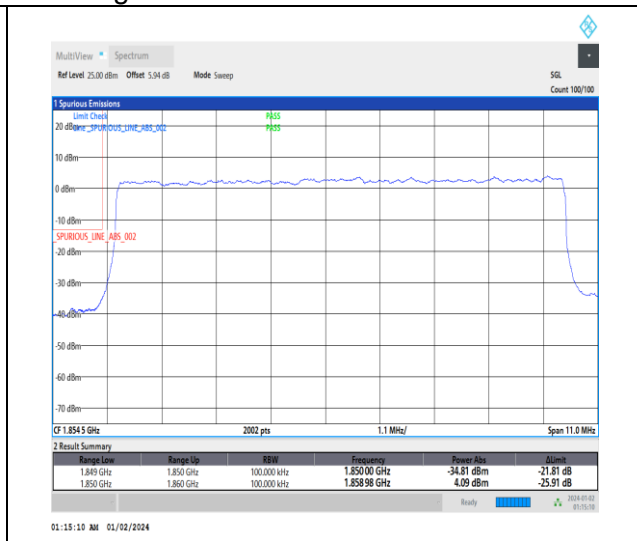
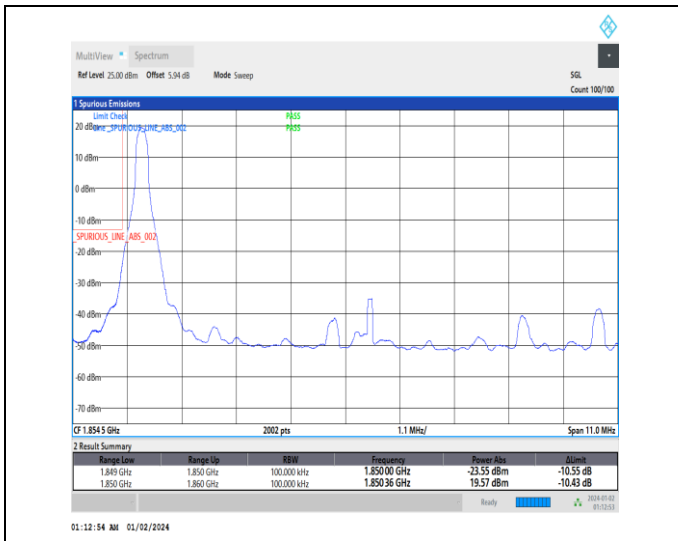
1-N25-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant3-1-seegraph-PASS-see graph



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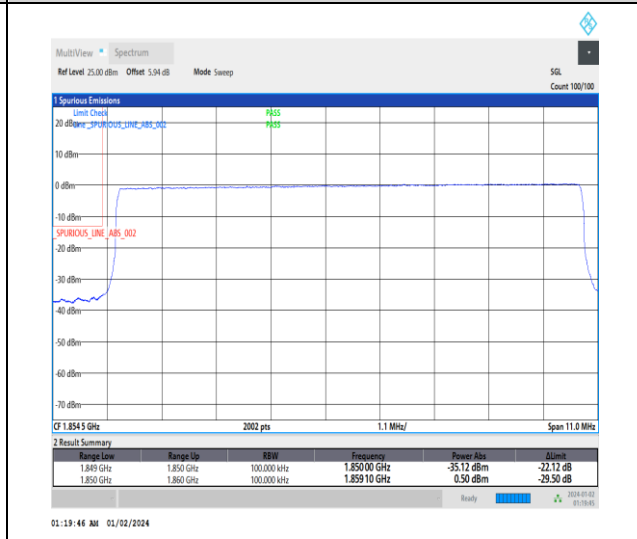
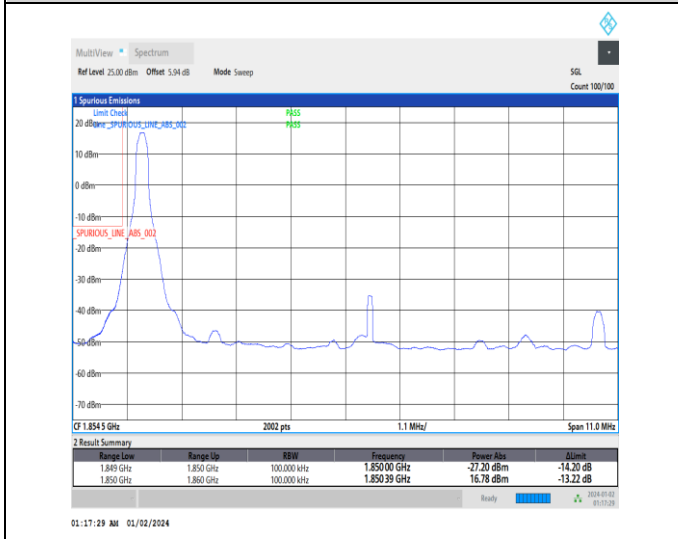
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1-N25-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant3-1-seegraph-PASS-see graph

1-N25-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant3-1-seegraph-PASS-see graph



1-N25-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant3-1-seegraph-PASS-see graph

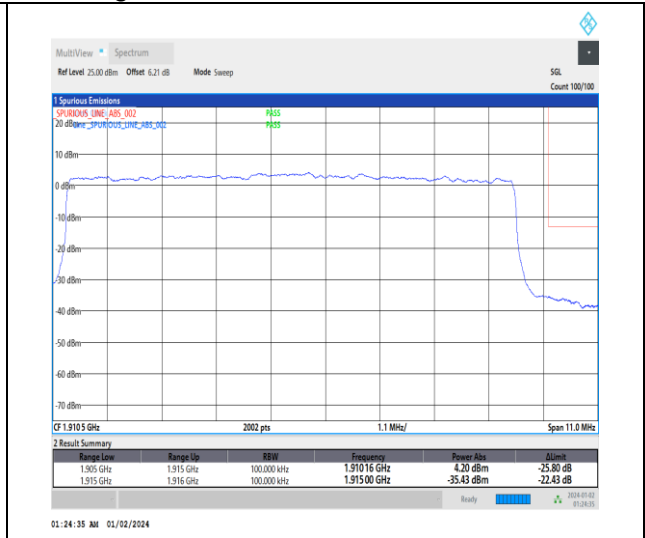
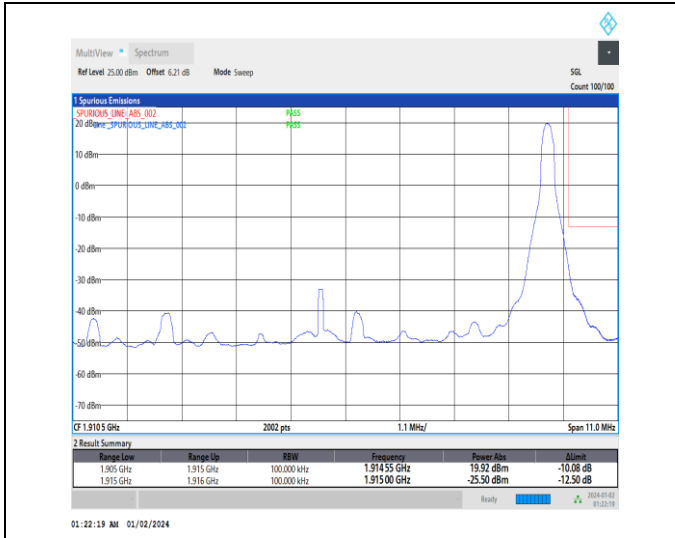
1-N25-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant3-1-seegraph-PASS-see graph



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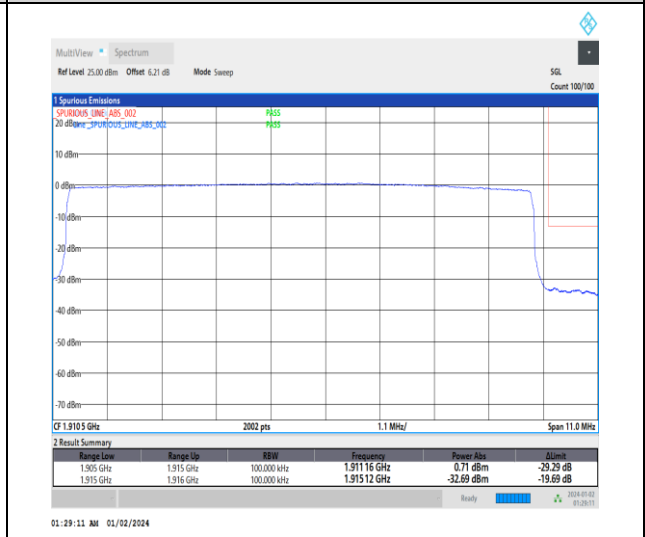
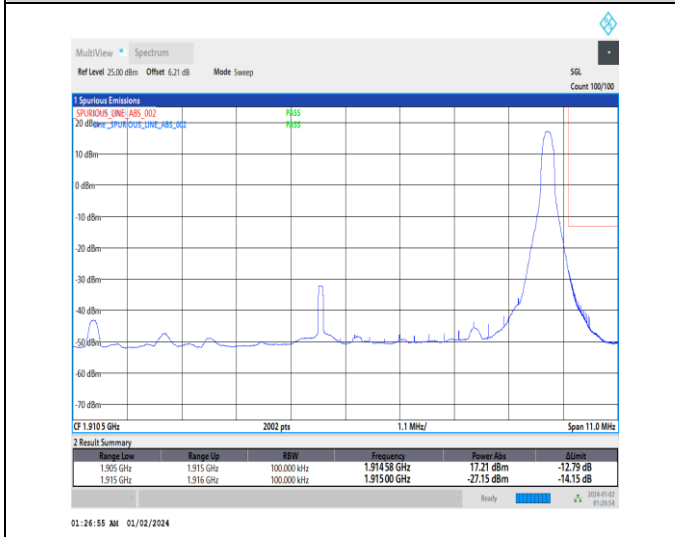
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1-N25-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@51-Ant3-1-seegraph-PASS-see graph

1-N25-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant3-1-seegraph-PASS-see graph



1-N25-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant3-1-seegraph-PASS-see graph

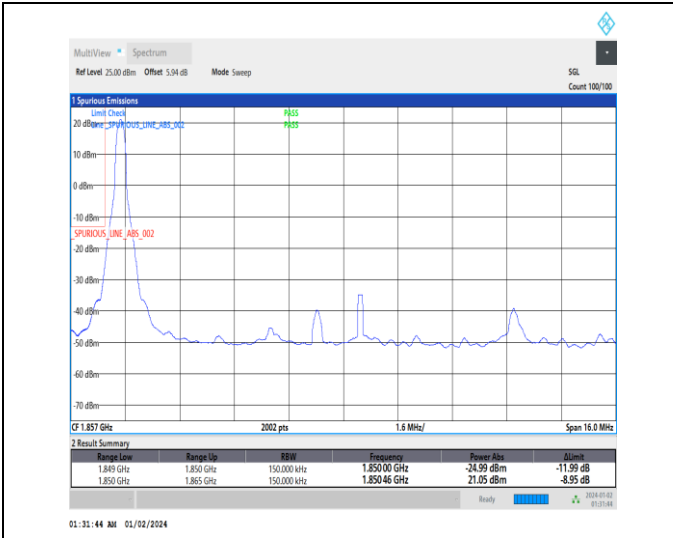
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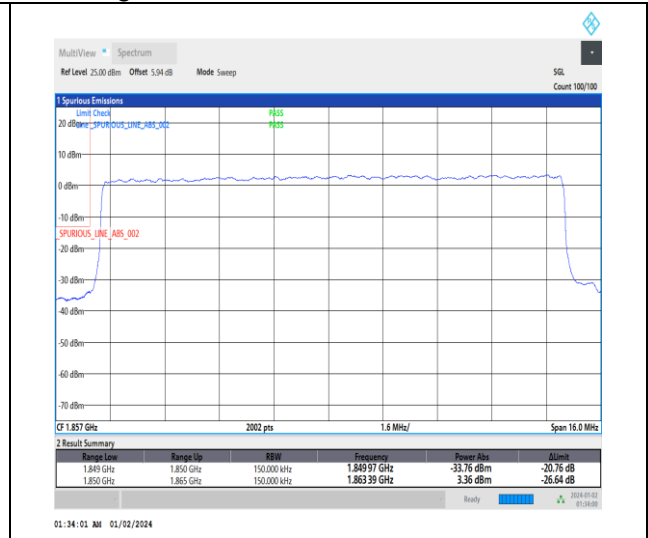
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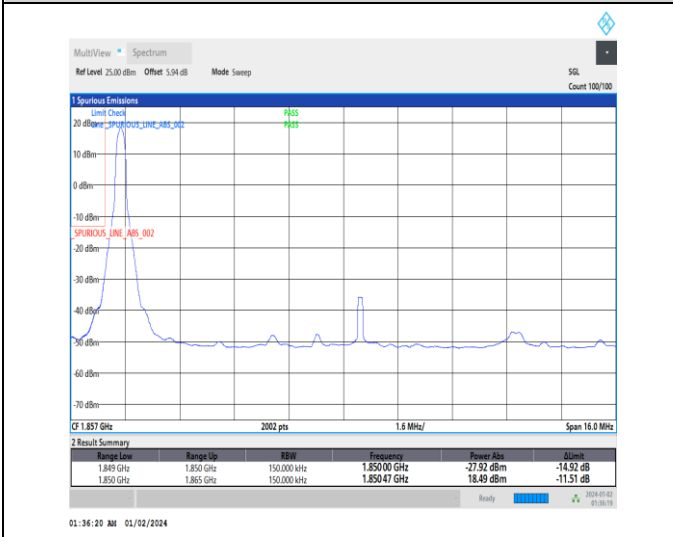
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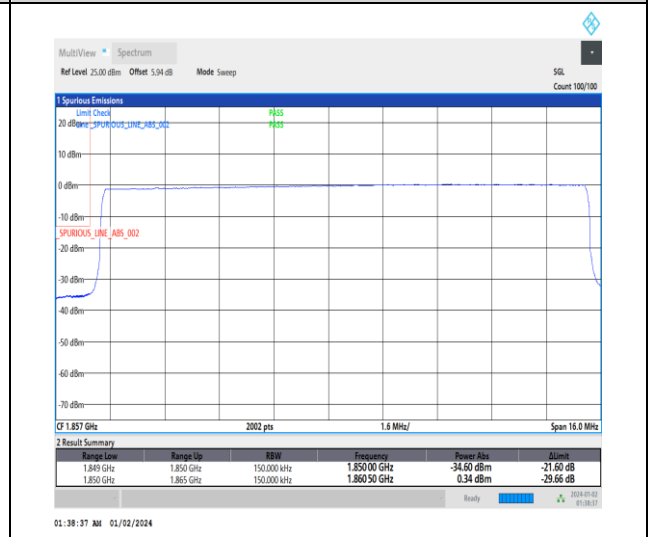
1-N25-15-15-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant3-1-seegraph-PASS-see graph



1-N25-15-15-L-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant3-1-seegraph-PASS-see graph



1-N25-15-15-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant3-1-seegraph-PASS-see graph



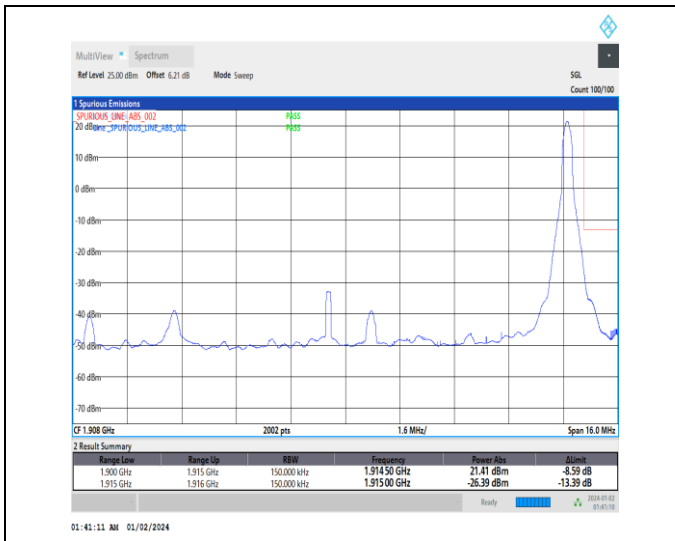
1-N25-15-15-L-6-CP-QPSK-Outer\_Full-79@0-Ant3-1-seegraph-PASS-see graph



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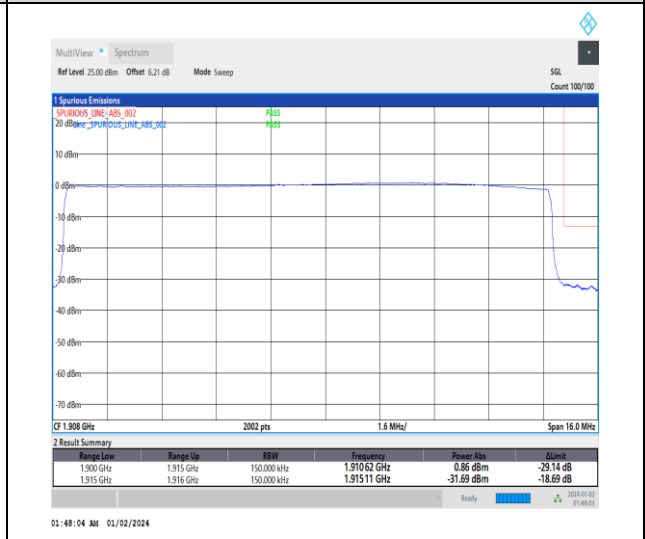
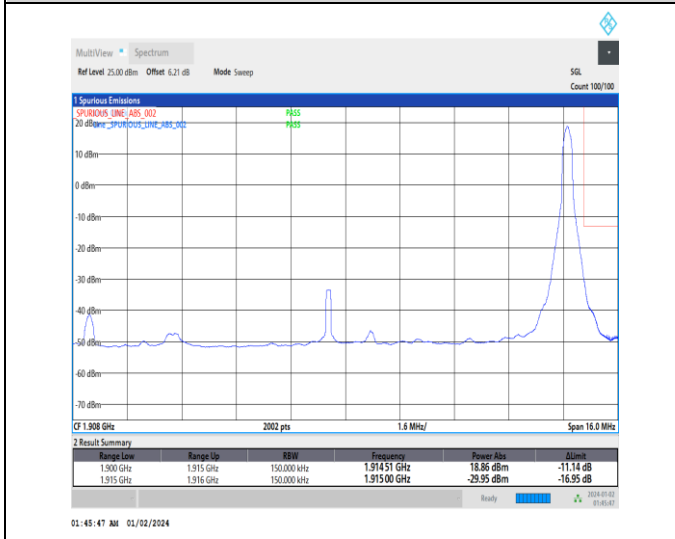
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1-N25-15-15-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@78-Ant3-1-seegraph-PASS-see graph

1-N25-15-15-H-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant3-1-seegraph-PASS-see graph



1-N25-15-15-H-5-CP-QPSK-Edge\_1RB\_Right-1@78-Ant3-1-seegraph-PASS-see graph

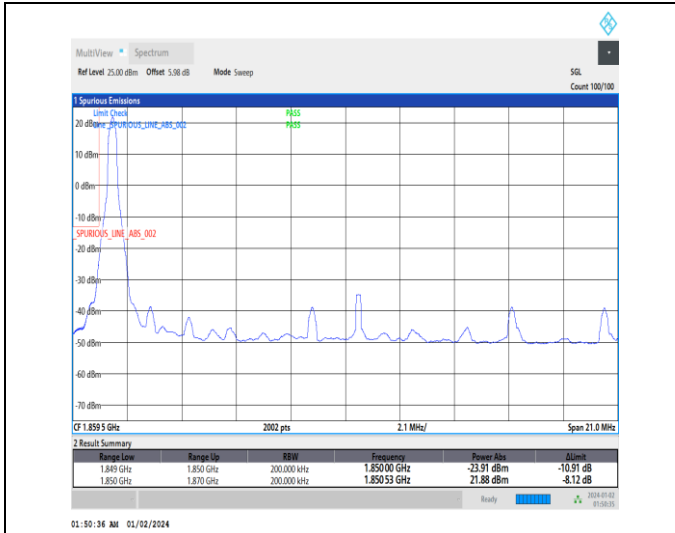
1-N25-15-15-H-6-CP-QPSK-Outer\_Full-79@0-Ant3-1-seegraph-PASS-see graph



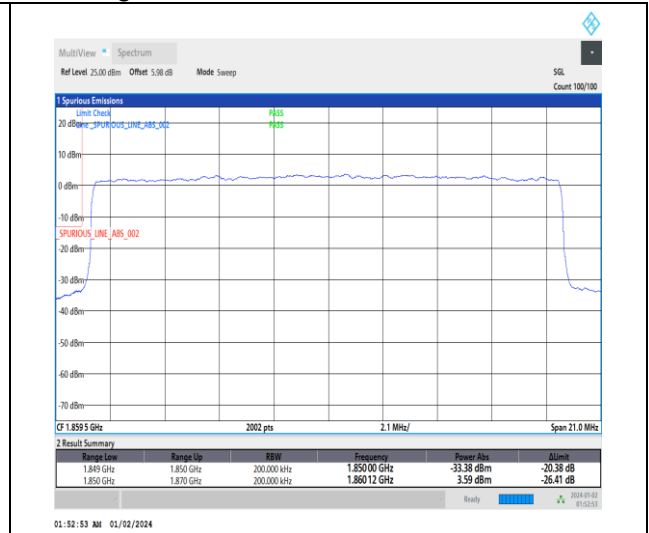
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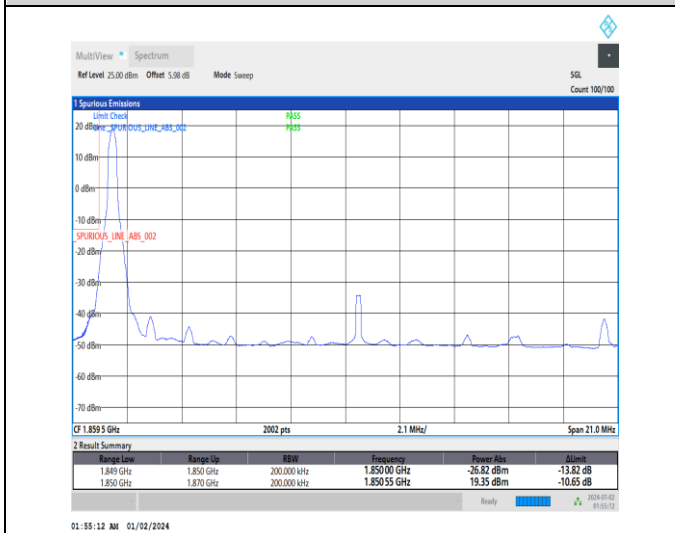
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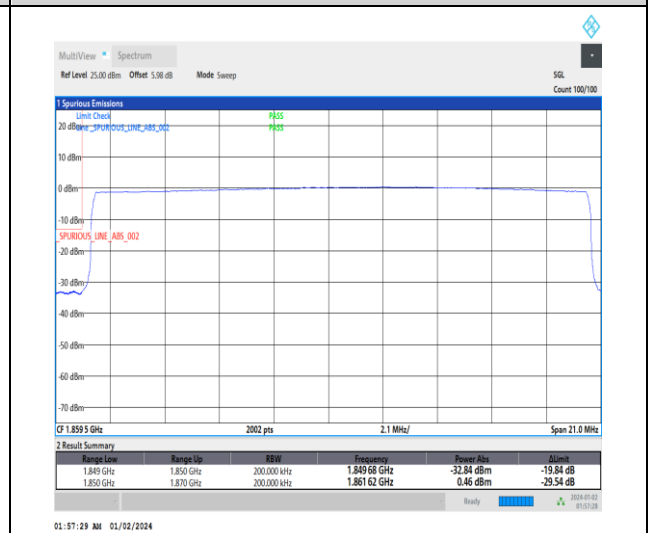
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1-N25-15-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant3-1-seegraph-PASS-see graph



1-N25-15-20-L-6-CP-QPSK-Outer\_Full-106@0-Ant3-1-seegraph-PASS-see graph

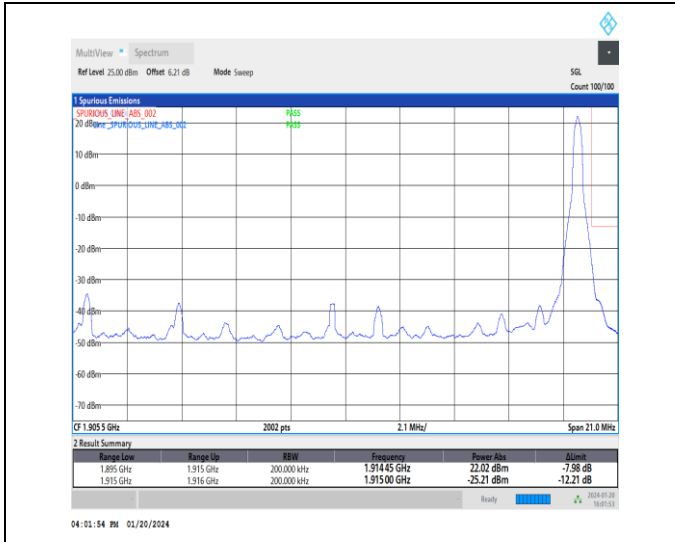


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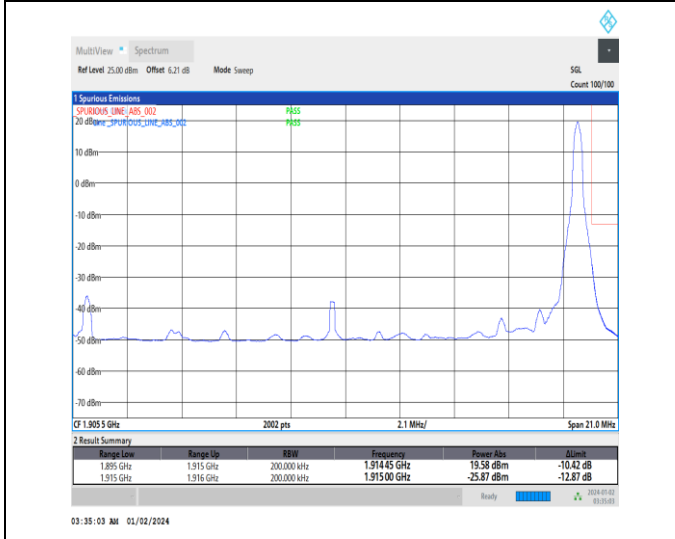




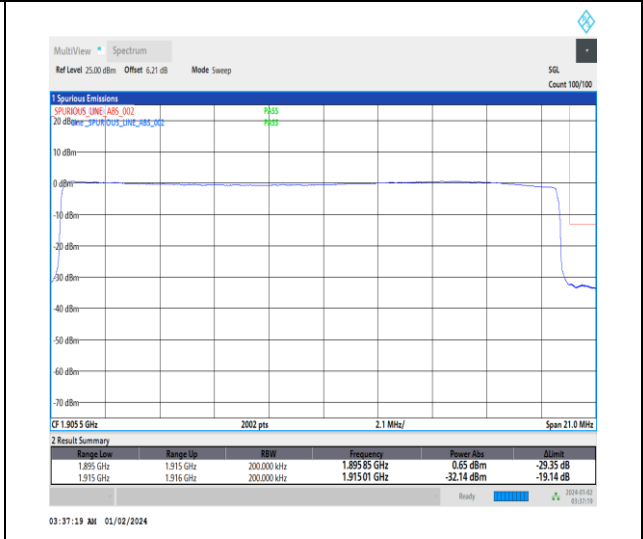
1-N25-15-20-H-3-DFT-PI2BPSK-Outer\_Full-1105@0-Ant3-1-seegraph-PASS-see graph



1-N25-15-20-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant3-1-seegraph-PASS-see graph



1-N25-15-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant3-1-seegraph-PASS-see graph



1-N25-15-20-H-6-CP-QPSK-Outer\_Full-106@0-Ant3-1-seegraph-PASS-see graph



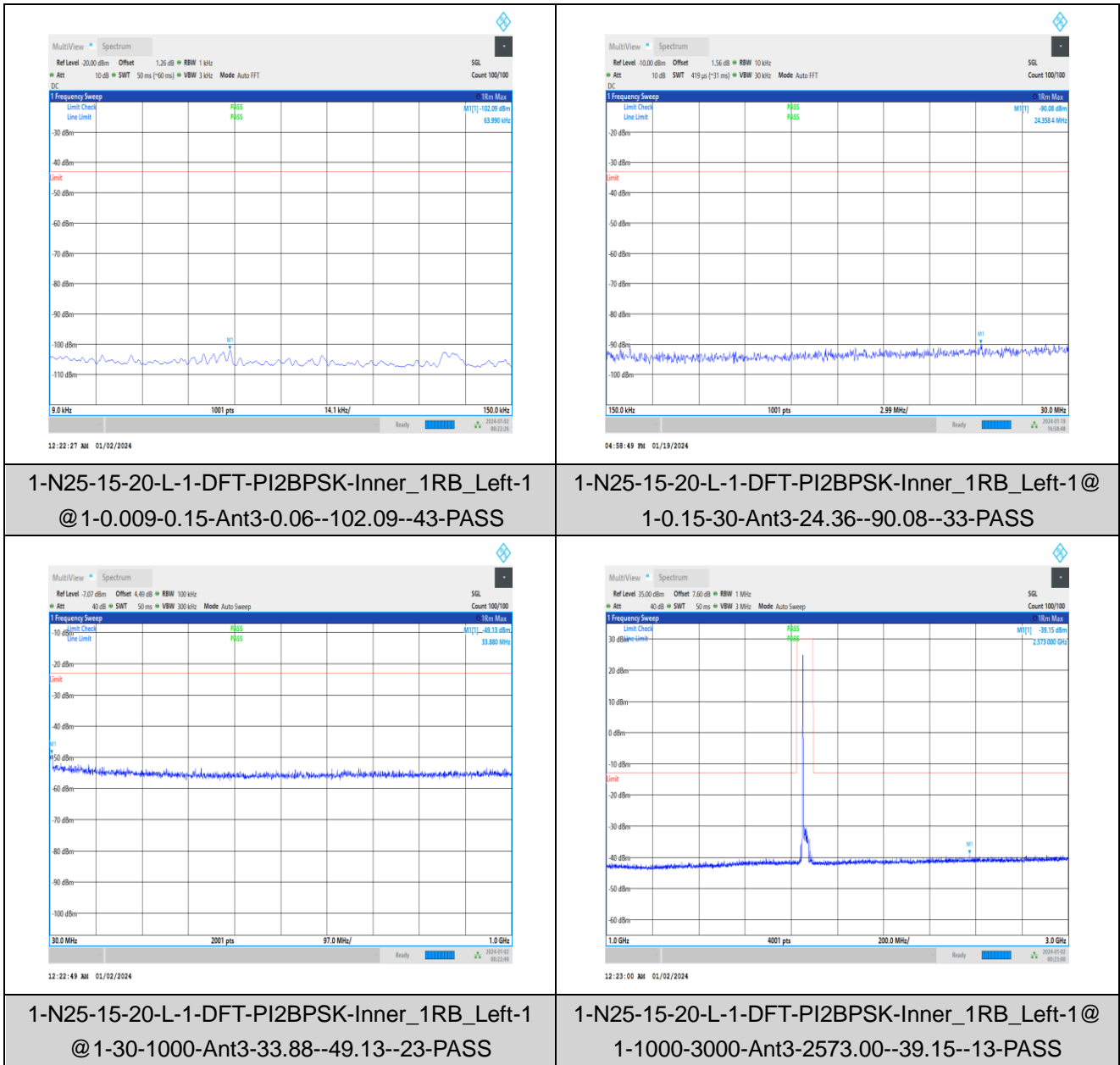
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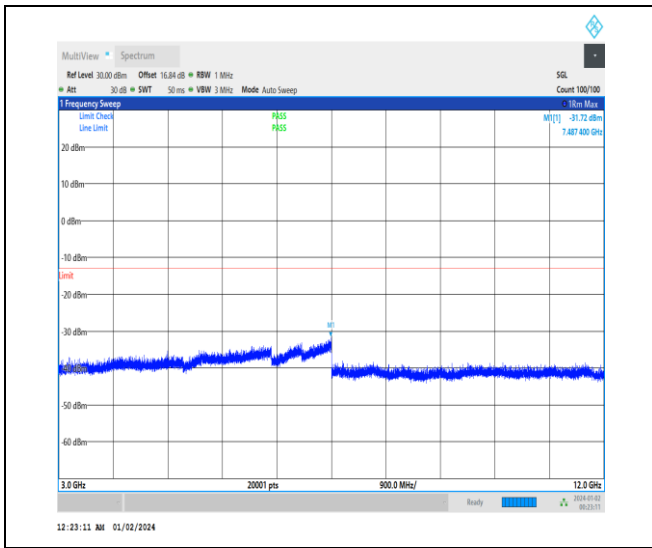
### Test Graphs



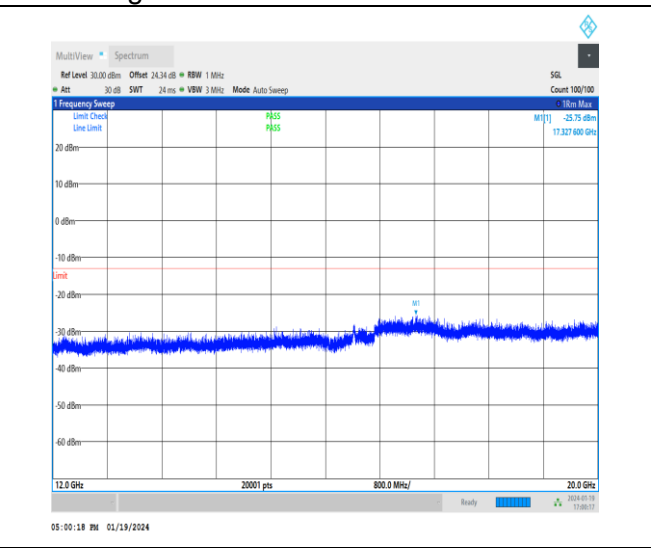
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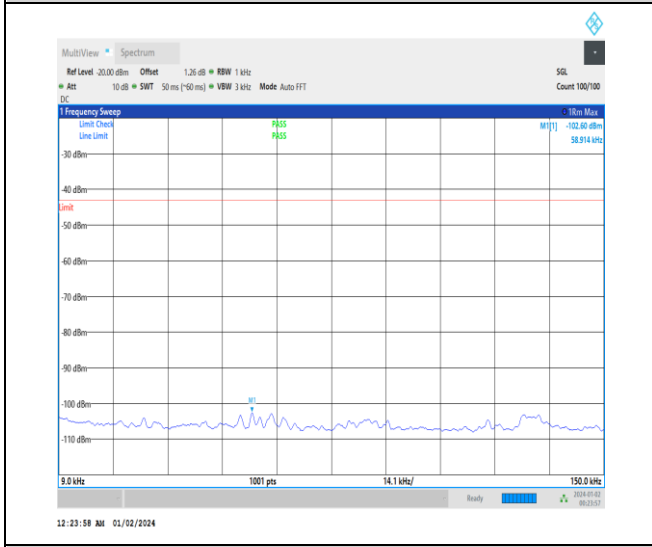
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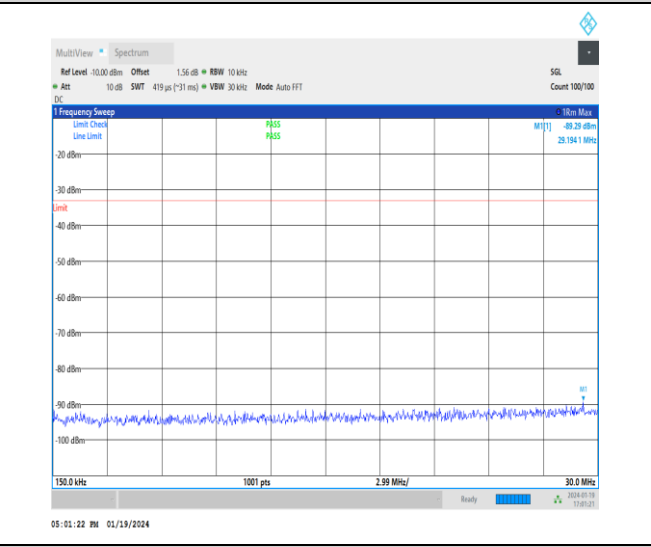
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1-N25-15-20-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant3-17327.60--25.75--13-PASS



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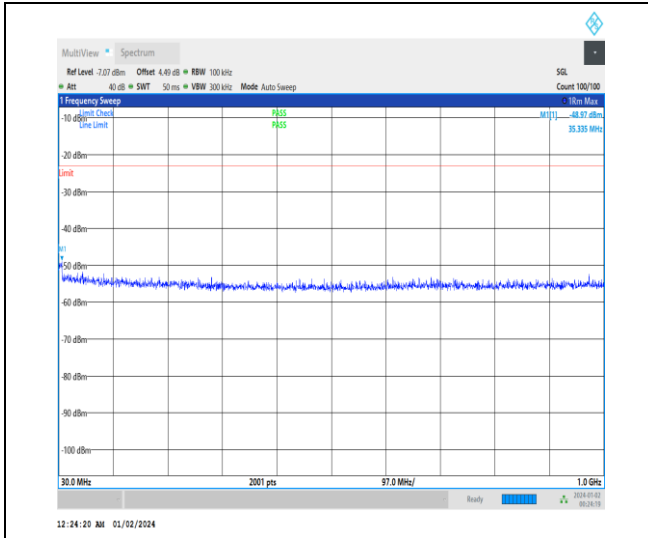
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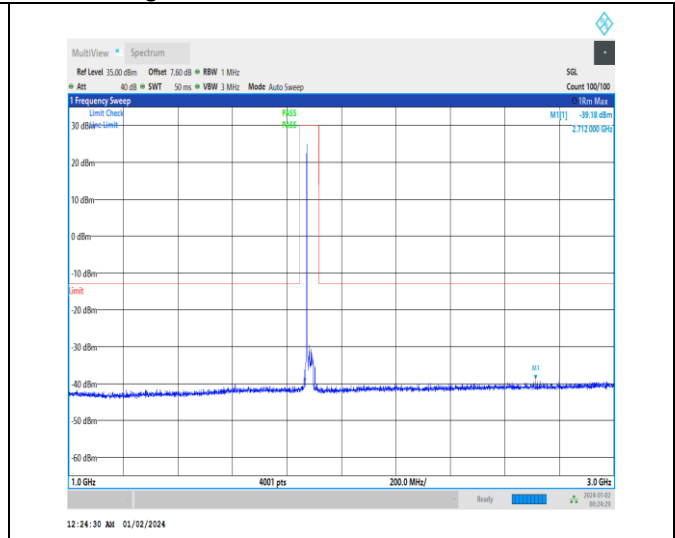
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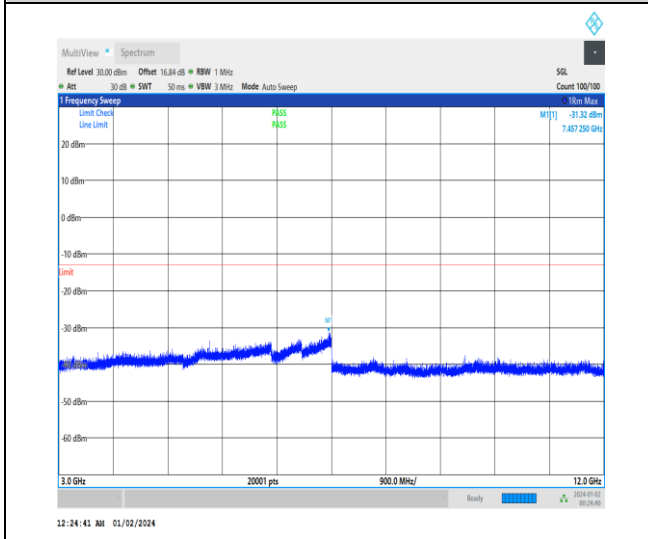
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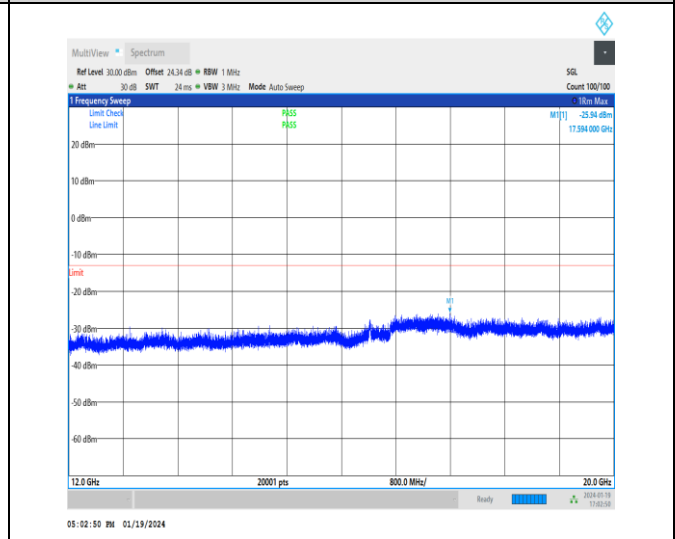
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1-N25-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-3000-Ant3-2712.00--39.18--13-PASS



1-N25-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant3-7457.25--31.32--13-PASS



1-N25-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant3-17594--25.94



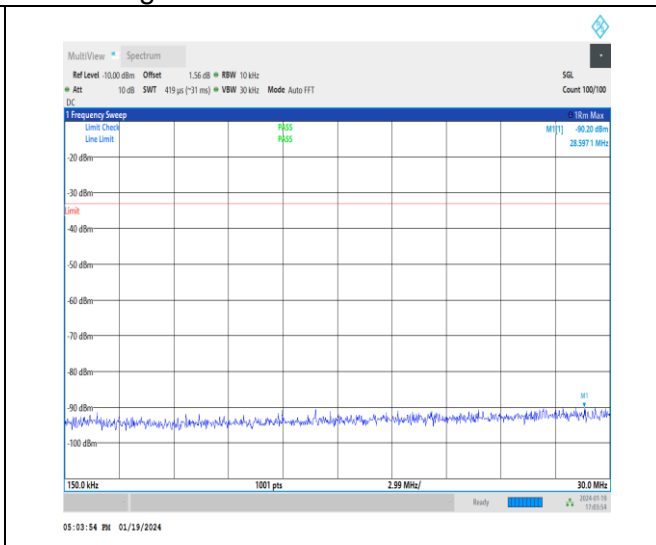
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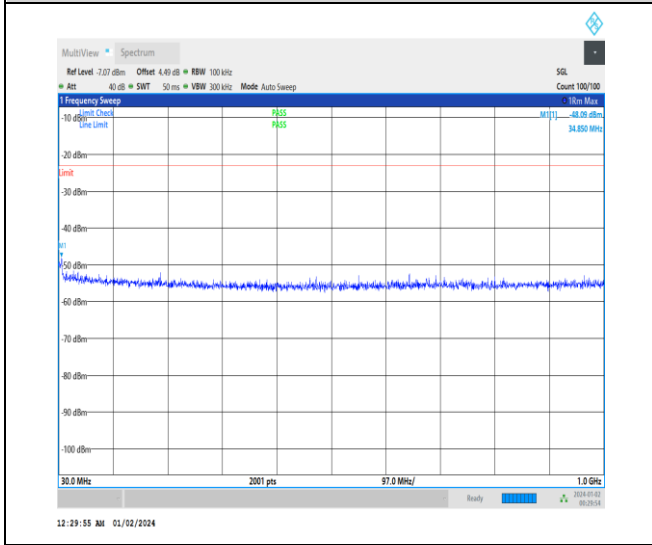
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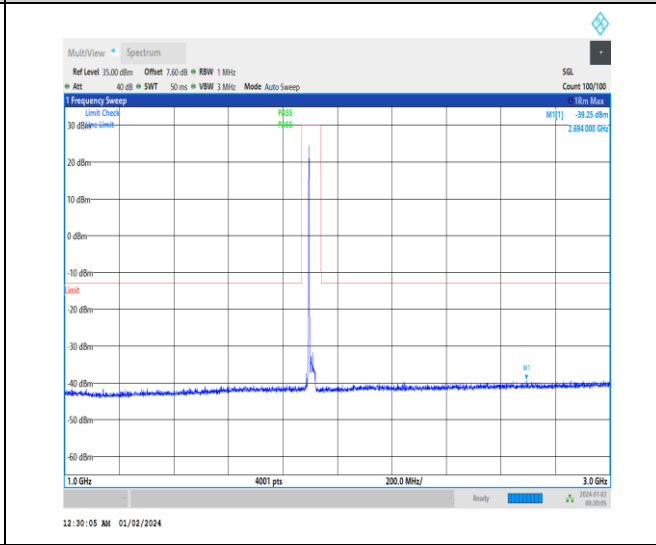
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1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant3-28.59--90.20--33-PASS



1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant3-34.85--48.09--23-PASS



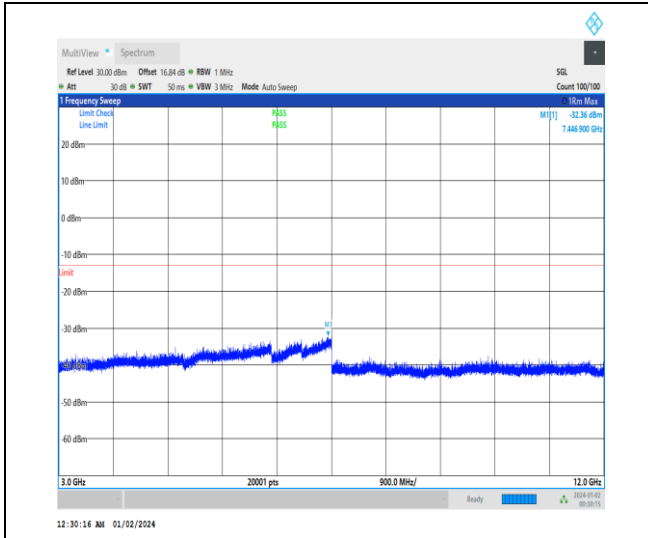
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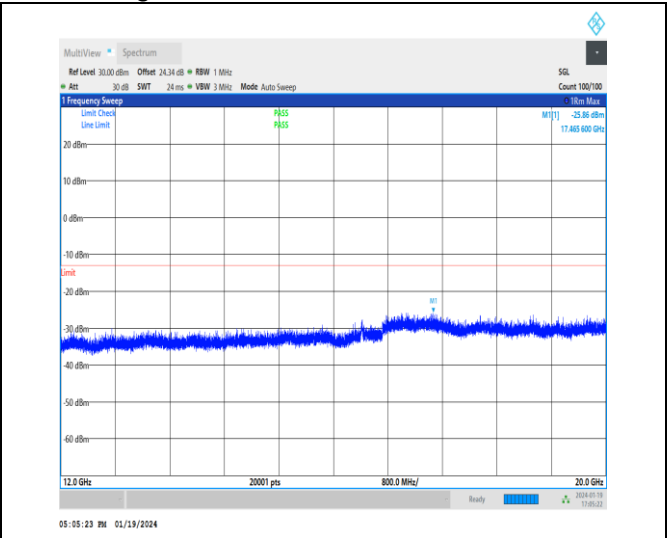
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1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant3-7446.90--32.36--13-PASS



1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant3-17465.60--25.86--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band25\_ 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	3704.1800	43.31	-45.52	28.80	-68.66	-13.00	55.66	Horizontal
2	5556.2700	39.43	-45.14	32.61	-68.36	-13.00	55.36	Horizontal
3	7408.3600	37.51	-43.39	36.34	-64.79	-13.00	51.79	Horizontal
4	9260.4500	31.68	-40.23	36.80	-67.02	-13.00	54.02	Horizontal
5	11112.5400	26.80	-37.90	38.71	-67.64	-13.00	54.64	Horizontal
6	12964.6300	25.00	-37.25	39.09	-68.42	-13.00	55.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.1800	40.14	-45.52	28.80	-71.83	-13.00	58.83	Vertical
2	5556.2700	39.59	-45.14	32.61	-68.20	-13.00	55.20	Vertical
3	7408.3600	36.30	-43.39	36.34	-66.00	-13.00	53.00	Vertical
4	9260.4500	31.72	-40.23	36.80	-66.98	-13.00	53.98	Vertical
5	11112.5400	25.67	-37.90	38.71	-68.77	-13.00	55.77	Vertical
6	12964.6300	24.78	-37.25	39.09	-68.64	-13.00	55.64	Vertical



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Test Band = SA Band25\_ 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	3729.1800	39.68	-45.62	28.83	-72.38	-13.00	59.38	Horizontal
2	5593.7700	38.27	-45.08	32.62	-69.45	-13.00	56.45	Horizontal
3	7458.3600	36.48	-43.25	36.48	-65.55	-13.00	52.55	Horizontal
4	9322.9500	31.78	-40.13	36.91	-66.70	-13.00	53.70	Horizontal
5	11187.5400	28.24	-37.46	38.72	-65.76	-13.00	52.76	Horizontal
6	13052.1300	23.93	-37.16	39.19	-69.29	-13.00	56.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3729.1800	39.16	-45.62	28.83	-72.90	-13.00	59.90	Vertical
2	5593.7700	38.12	-45.08	32.62	-69.60	-13.00	56.60	Vertical
3	7458.3600	36.12	-43.25	36.48	-65.91	-13.00	52.91	Vertical
4	9322.9500	31.38	-40.13	36.91	-67.10	-13.00	54.10	Vertical
5	11187.5400	27.70	-37.46	38.72	-66.30	-13.00	53.30	Vertical
6	13052.1300	24.14	-37.16	39.19	-69.08	-13.00	56.08	Vertical



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Test Band = SA Band25\_ 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	3754.1800	39.49	-45.73	28.85	-72.64	-13.00	59.64	Horizontal
2	5631.2700	38.49	-45.00	32.63	-69.14	-13.00	56.14	Horizontal
3	7508.3600	36.54	-43.12	36.60	-65.24	-13.00	52.24	Horizontal
4	9385.4500	32.85	-39.89	37.03	-65.26	-13.00	52.26	Horizontal
5	11262.5400	27.47	-37.41	38.73	-66.47	-13.00	53.47	Horizontal
6	13139.6300	24.41	-37.08	39.35	-68.58	-13.00	55.58	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3754.1800	38.85	-45.73	28.85	-73.28	-13.00	60.28	Vertical
2	5631.2700	37.36	-45.00	32.63	-70.27	-13.00	57.27	Vertical
3	7508.3600	35.72	-43.12	36.60	-66.06	-13.00	53.06	Vertical
4	9385.4500	31.45	-39.89	37.03	-66.66	-13.00	53.66	Vertical
5	11262.5400	26.46	-37.41	38.73	-67.48	-13.00	54.48	Vertical
6	13139.6300	23.89	-37.08	39.35	-69.10	-13.00	56.10	Vertical



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Test Band = NSA 12A\_N25A\_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	3704.1800	45.26	-45.52	28.80	-66.71	-13.00	53.71	Horizontal
2	5556.2700	39.64	-45.14	32.61	-68.15	-13.00	55.15	Horizontal
3	7408.3600	37.91	-43.39	36.34	-64.39	-13.00	51.39	Horizontal
4	9260.4500	34.20	-40.23	36.80	-64.50	-13.00	51.50	Horizontal
5	11112.5400	29.42	-37.90	38.71	-65.02	-13.00	52.02	Horizontal
6	12964.6300	28.00	-37.25	39.09	-65.42	-13.00	52.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.1800	40.86	-45.52	28.80	-71.11	-13.00	58.11	Vertical
2	5556.2700	39.47	-45.14	32.61	-68.32	-13.00	55.32	Vertical
3	7408.3600	37.77	-43.39	36.34	-64.53	-13.00	51.53	Vertical
4	9260.4500	34.33	-40.23	36.80	-64.37	-13.00	51.37	Vertical
5	11112.5400	29.57	-37.90	38.71	-64.87	-13.00	51.87	Vertical
6	12964.6300	27.58	-37.25	39.09	-65.84	-13.00	52.84	Vertical



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Test Band = NSA 12A\_N25A\_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	3729.1800	40.47	-45.62	28.83	-71.59	-13.00	58.59	Horizontal
2	5593.7700	40.25	-45.08	32.62	-67.47	-13.00	54.47	Horizontal
3	7458.3600	37.29	-43.25	36.48	-64.74	-13.00	51.74	Horizontal
4	9322.9500	34.87	-40.13	36.91	-63.61	-13.00	50.61	Horizontal
5	11187.5400	29.70	-37.46	38.72	-64.30	-13.00	51.30	Horizontal
6	13052.1300	26.86	-37.16	39.19	-66.36	-13.00	53.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3729.1800	39.98	-45.62	28.83	-72.08	-13.00	59.08	Vertical
2	5593.7700	38.54	-45.08	32.62	-69.18	-13.00	56.18	Vertical
3	7458.3600	37.37	-43.25	36.48	-64.66	-13.00	51.66	Vertical
4	9322.9500	34.01	-40.13	36.91	-64.47	-13.00	51.47	Vertical
5	11187.5400	30.13	-37.46	38.72	-63.87	-13.00	50.87	Vertical
6	13052.1300	27.30	-37.16	39.19	-65.92	-13.00	52.92	Vertical



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Test Band = NSA 12A\_N25A\_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	3754.1800	39.59	-45.73	28.85	-72.54	-13.00	59.54	Horizontal
2	5631.2700	39.41	-45.00	32.63	-68.22	-13.00	55.22	Horizontal
3	7508.3600	38.21	-43.12	36.60	-63.57	-13.00	50.57	Horizontal
4	9385.4500	33.61	-39.89	37.03	-64.50	-13.00	51.50	Horizontal
5	11262.5400	30.39	-37.41	38.73	-63.55	-13.00	50.55	Horizontal
6	13139.6300	27.40	-37.08	39.35	-65.59	-13.00	52.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3754.1800	39.11	-45.73	28.85	-73.02	-13.00	60.02	Vertical
2	5631.2700	39.15	-45.00	32.63	-68.48	-13.00	55.48	Vertical
3	7508.3600	37.00	-43.12	36.60	-64.78	-13.00	51.78	Vertical
4	9385.4500	33.79	-39.89	37.03	-64.32	-13.00	51.32	Vertical
5	11262.5400	30.11	-37.41	38.73	-63.83	-13.00	50.83	Vertical
6	13139.6300	28.05	-37.08	39.35	-64.94	-13.00	51.94	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)	Verdict
N25	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-0.600000	-0.000319	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-0.600000	-0.000319	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.300000	-0.001222	PASS
N25	15	20	CP-QPSK	M	Outer_Full	VH	NT	1.700000	0.000903	PASS
N25	15	20	CP-QPSK	M	Outer_Full	VN	NT	1.300000	0.000691	PASS
N25	15	20	CP-QPSK	M	Outer_Full	VL	NT	1.400000	0.000744	PASS



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**Frequency Error VS. Temperature**

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-0.900000	-0.000478	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	3.900000	0.002072	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.900000	-0.001009	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	2.300000	0.001222	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	1.000000	0.000531	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-0.900000	-0.000478	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-1.500000	-0.000797	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	1.600000	0.000850	PASS
N25	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.700000	-0.000903	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	-30	-3.900000	-0.002072	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	-20	0.900000	0.000478	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	-10	-0.300000	-0.000159	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	0	1.200000	0.000637	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	10	0.400000	0.000212	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	20	-0.800000	-0.000425	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	30	-3.200000	-0.001700	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	40	-4.200000	-0.002231	PASS
N25	15	20	CP-QPSK	M	Outer_Full	NV	50	-0.800000	-0.000425	PASS

---End of Attachment---



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