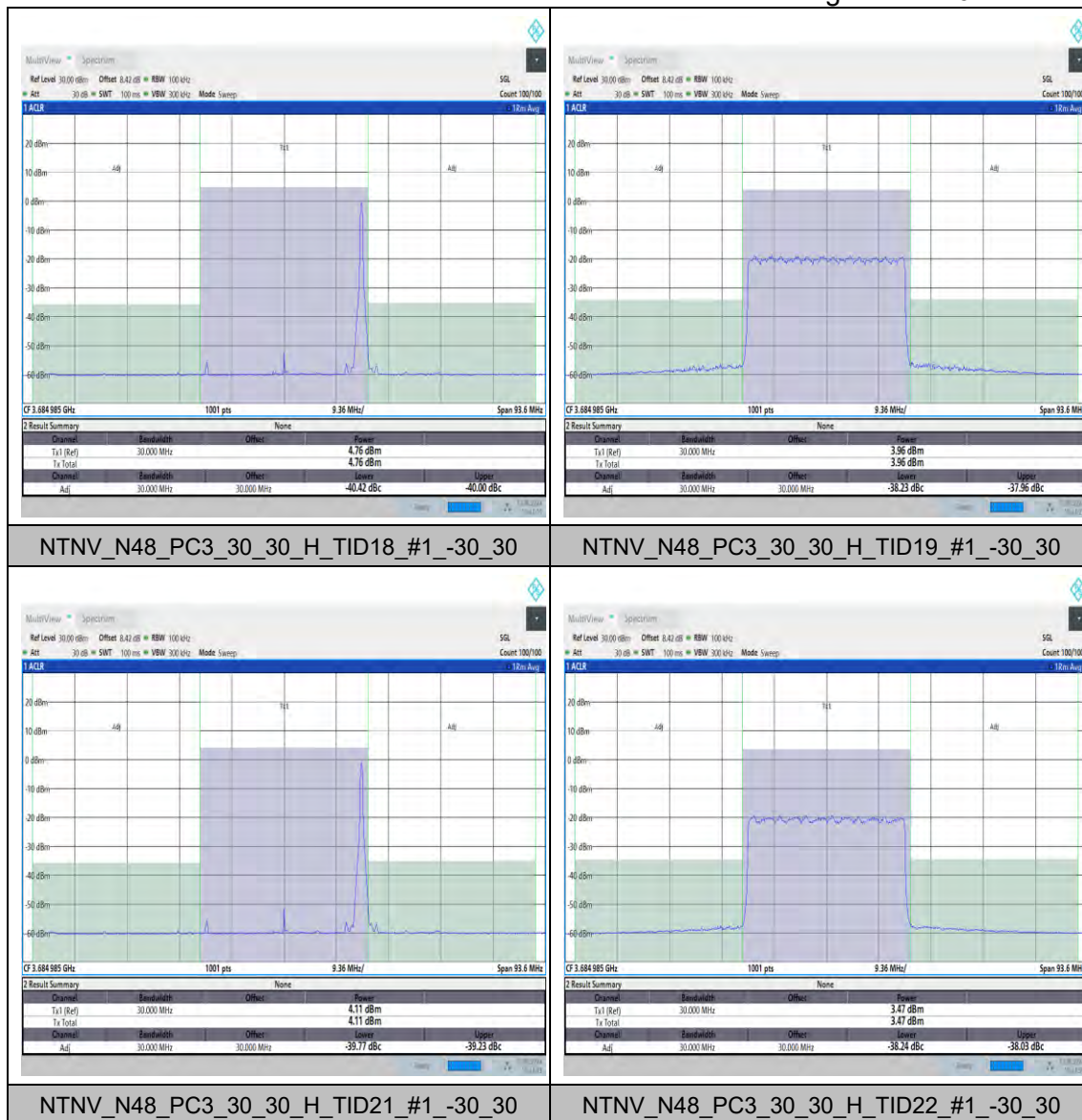




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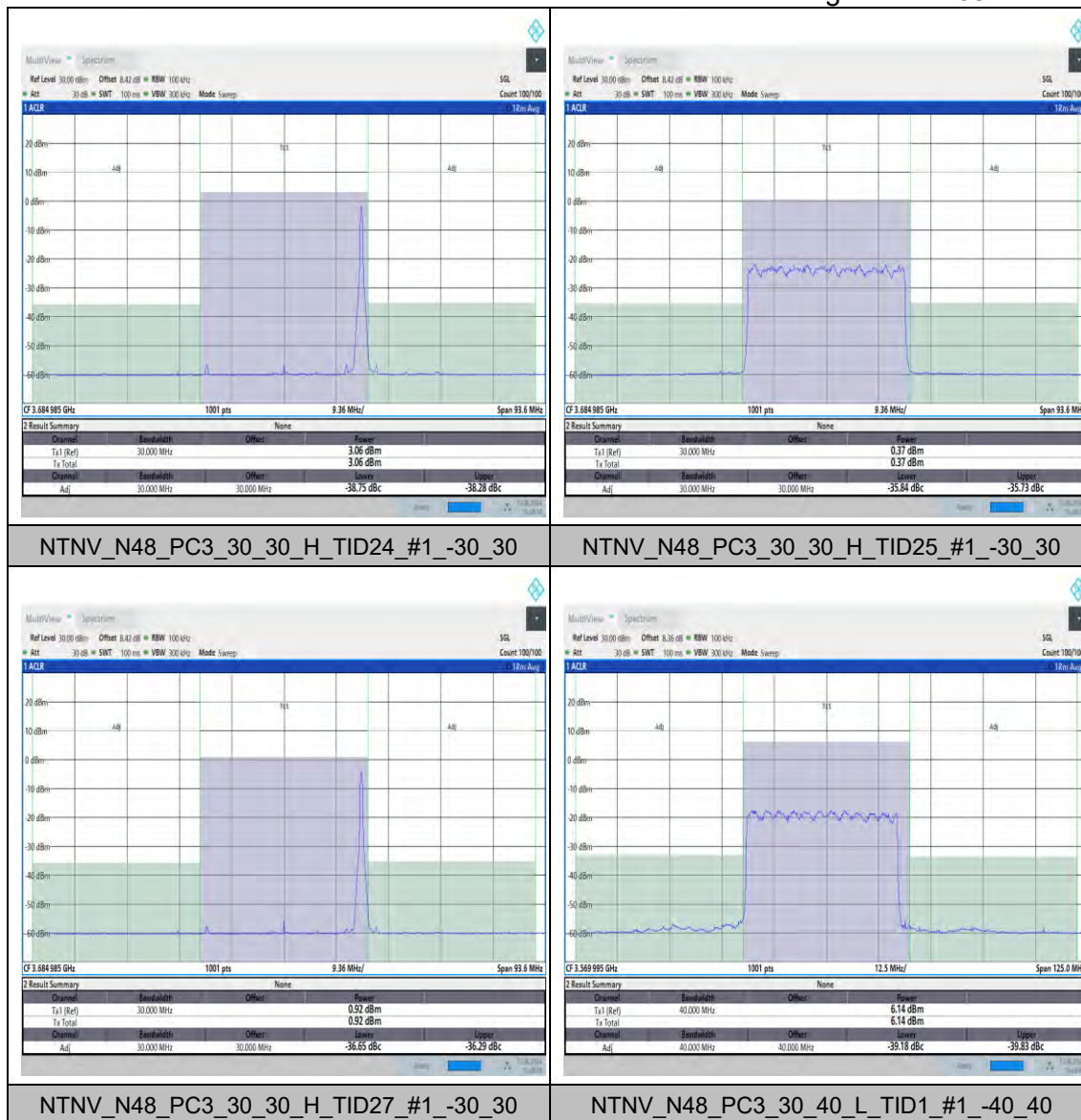
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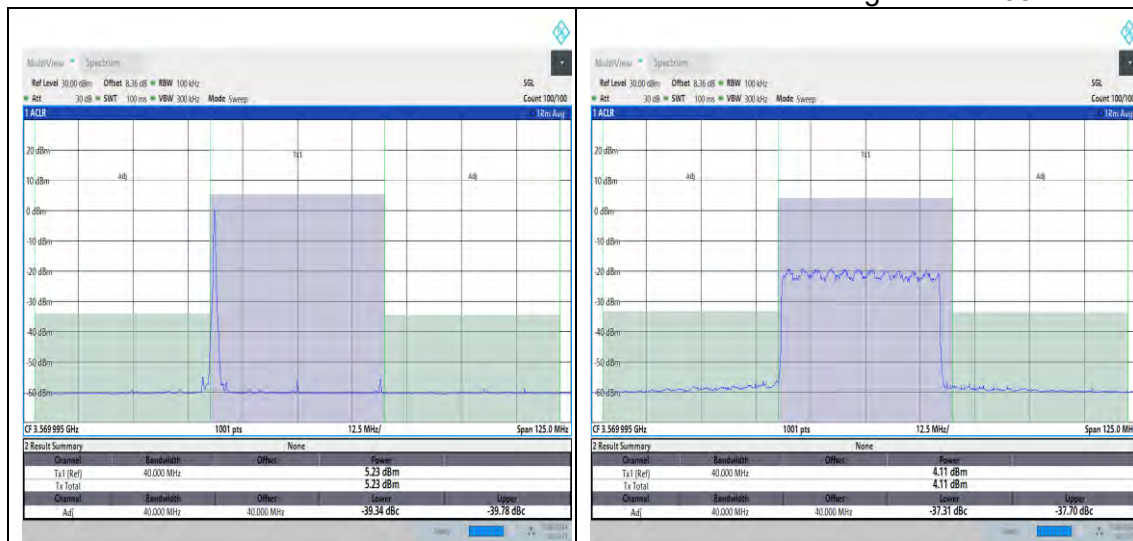
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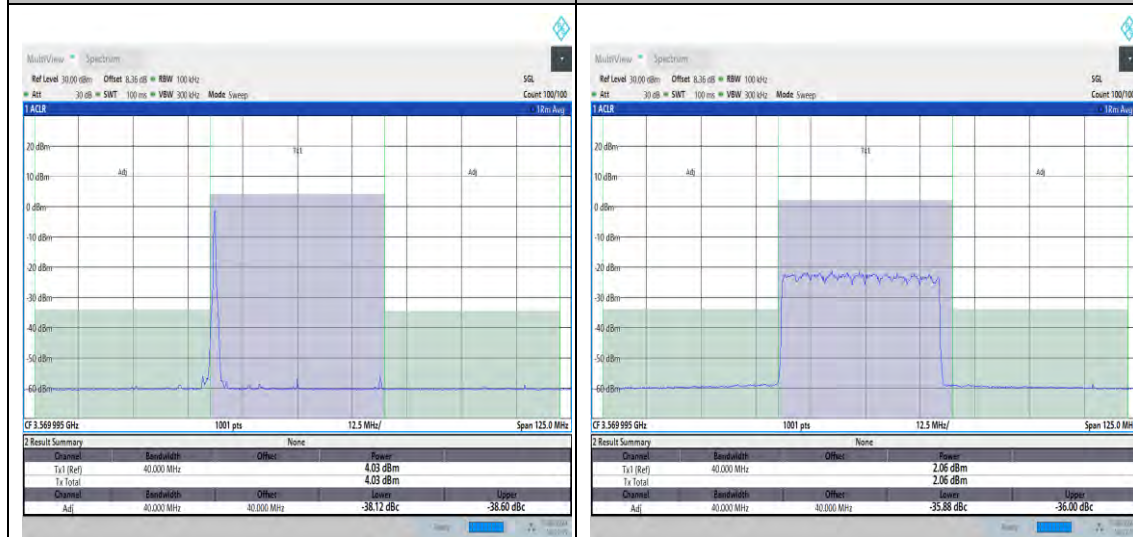
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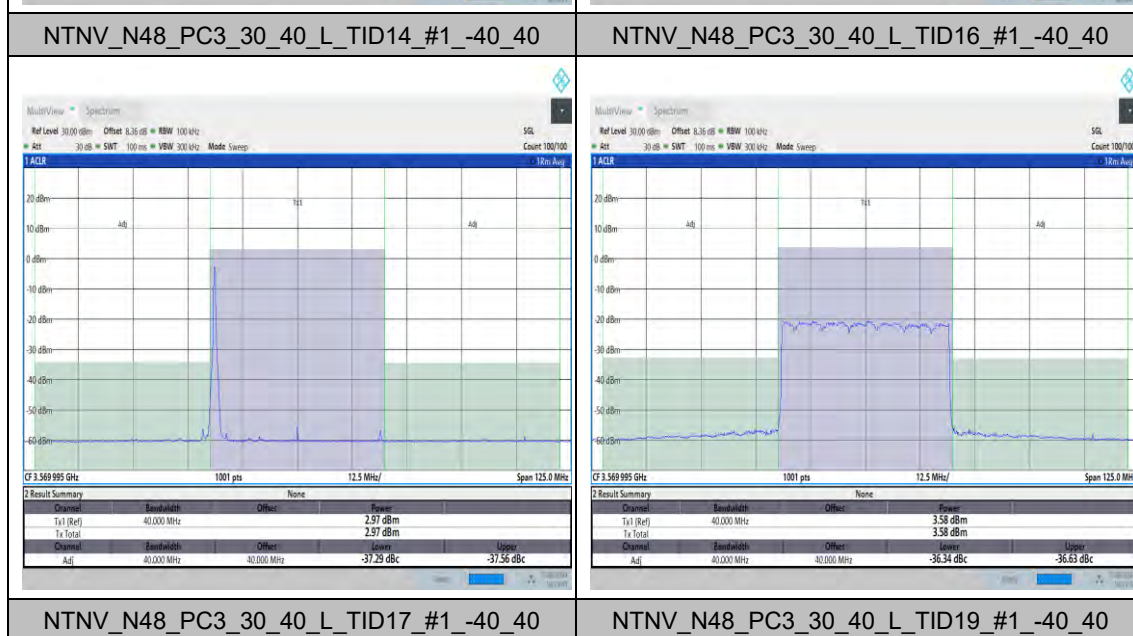
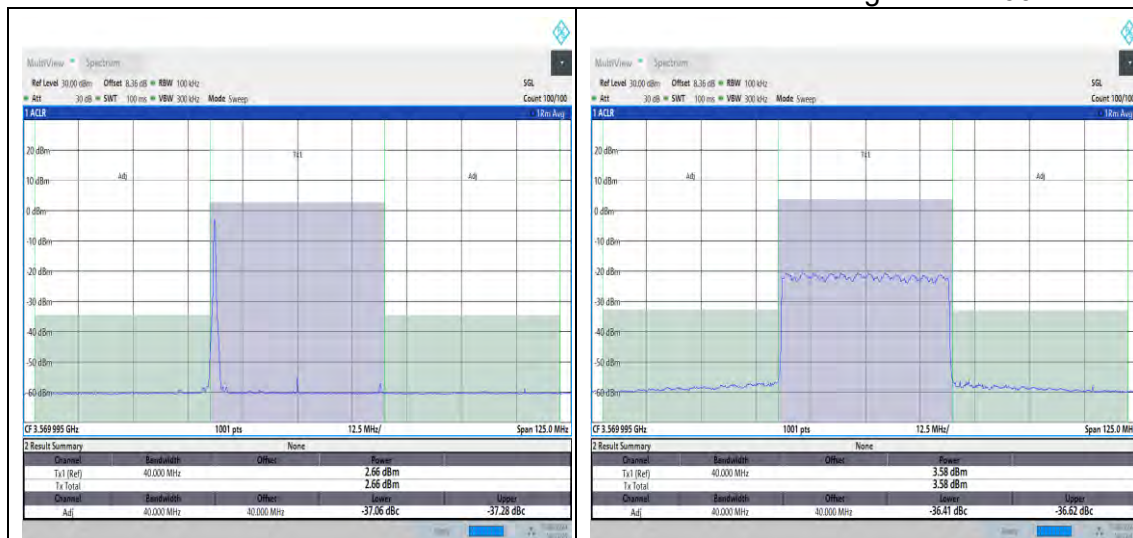
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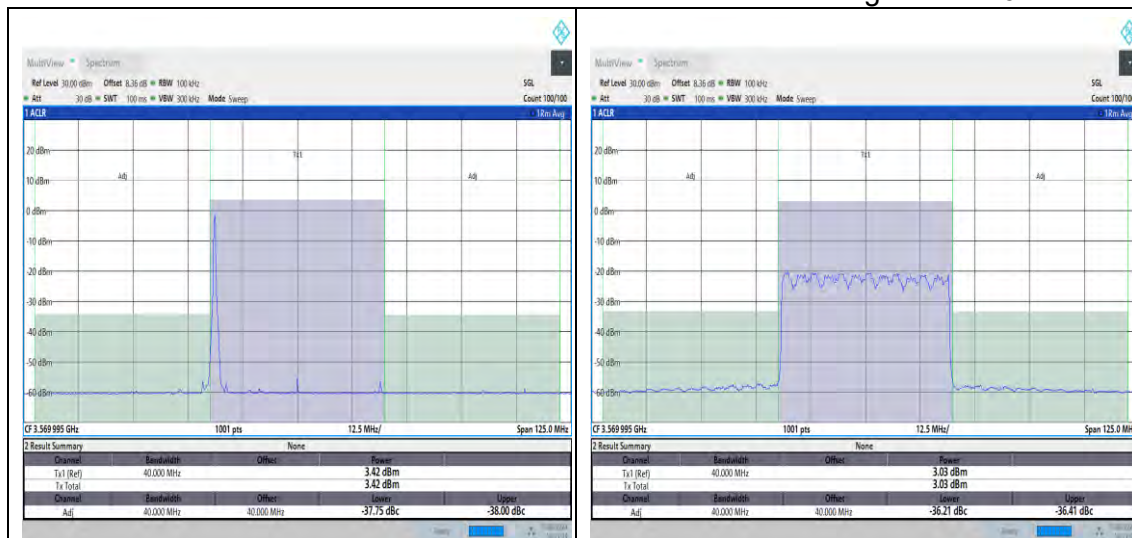
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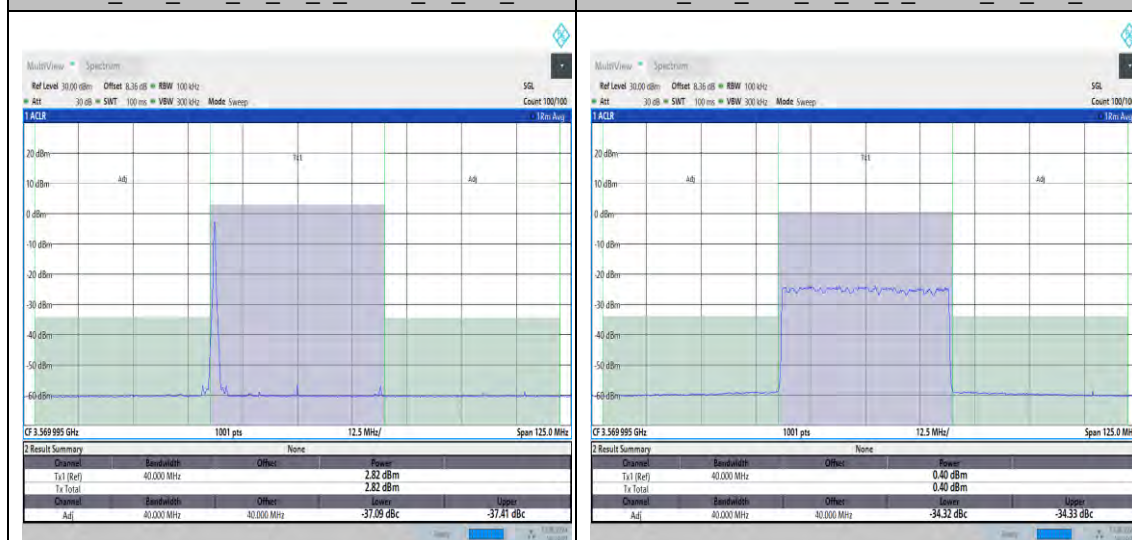
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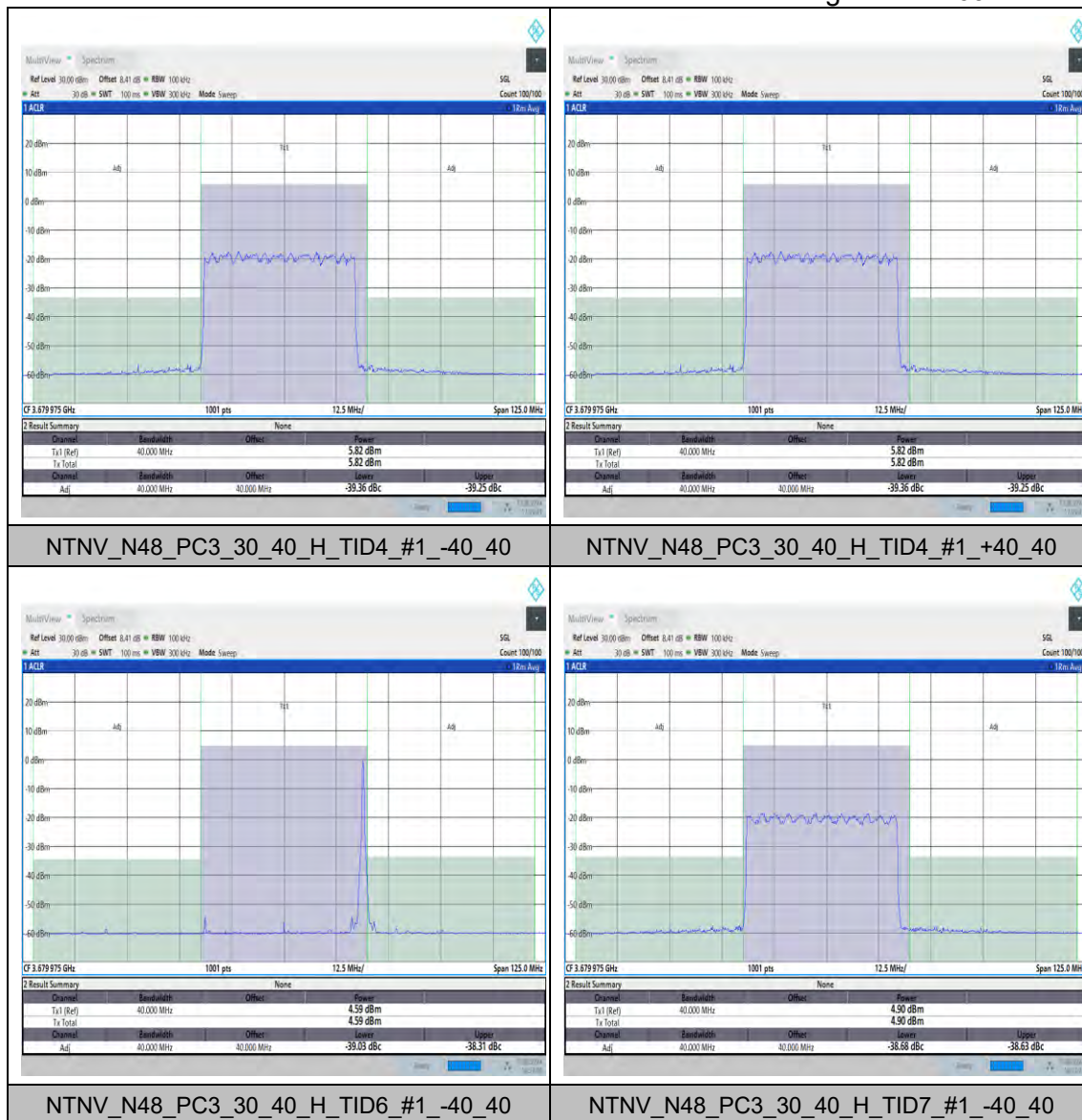
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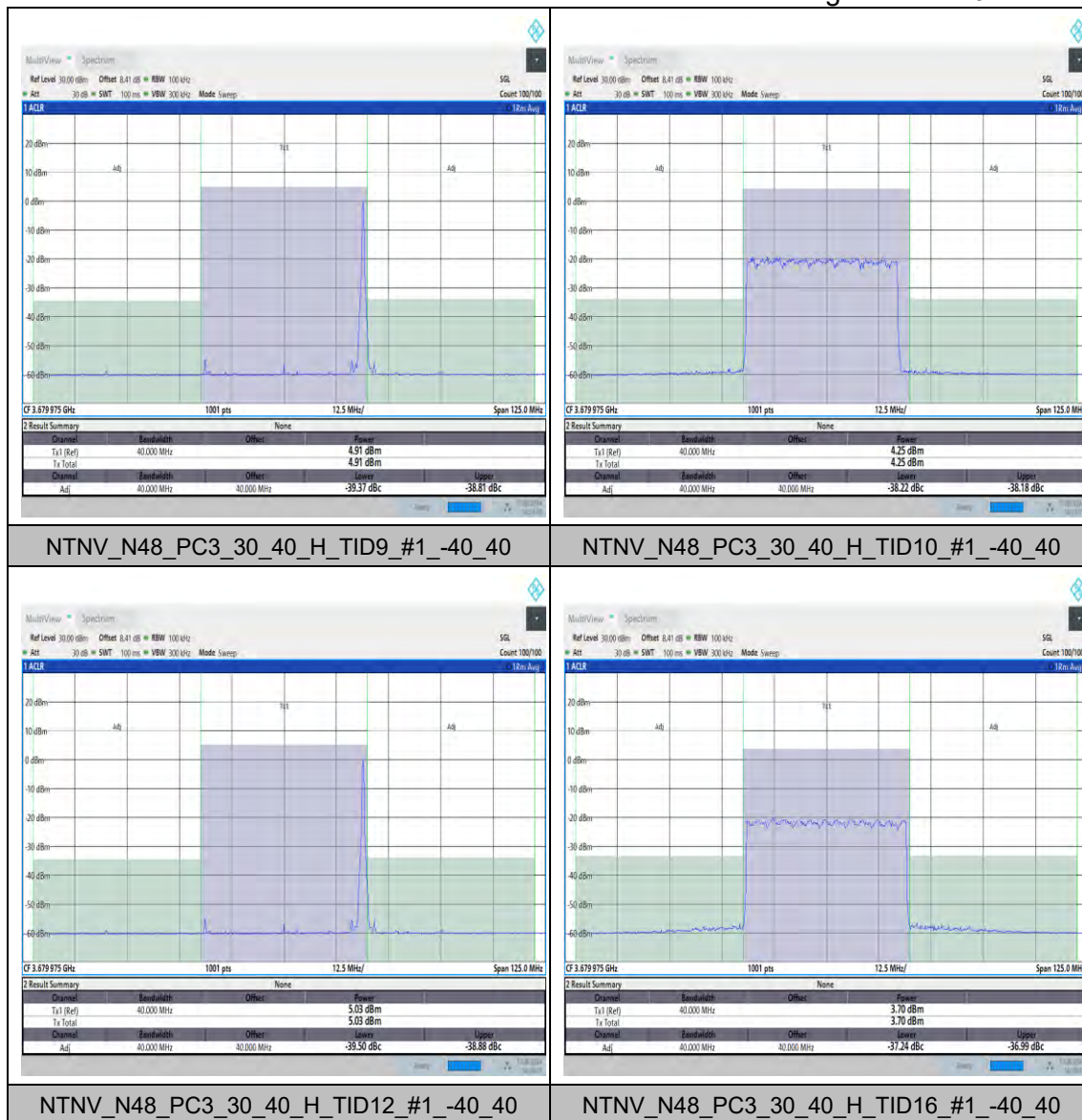
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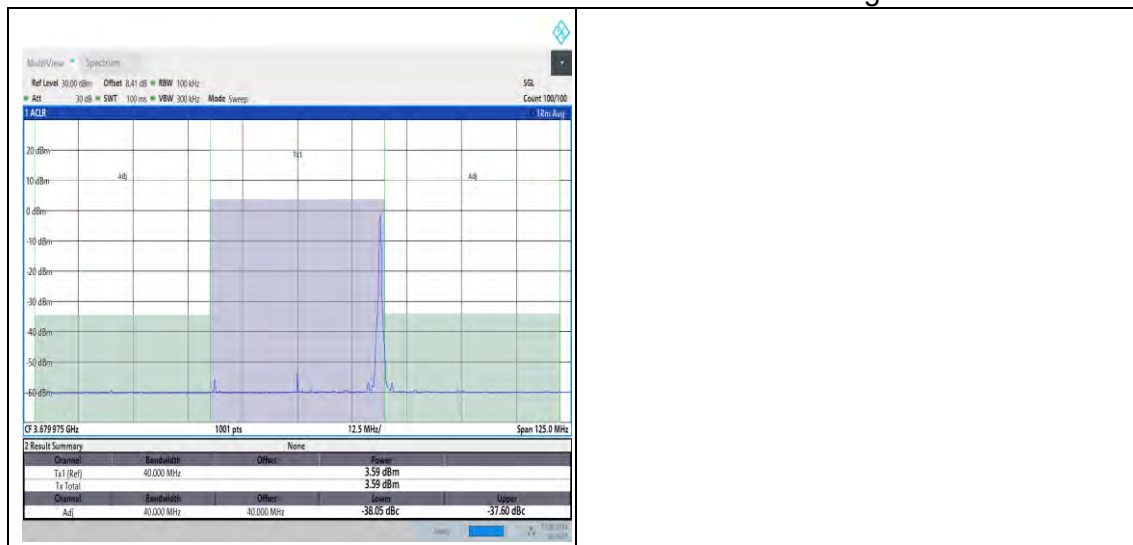
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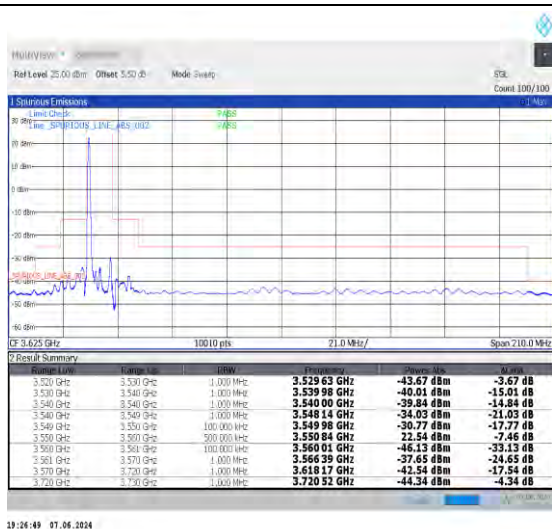
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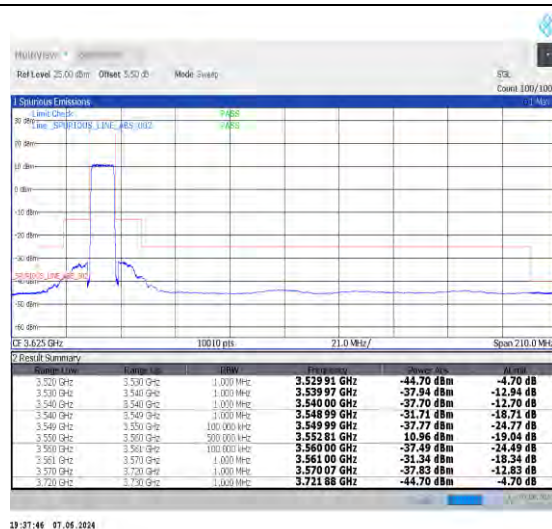
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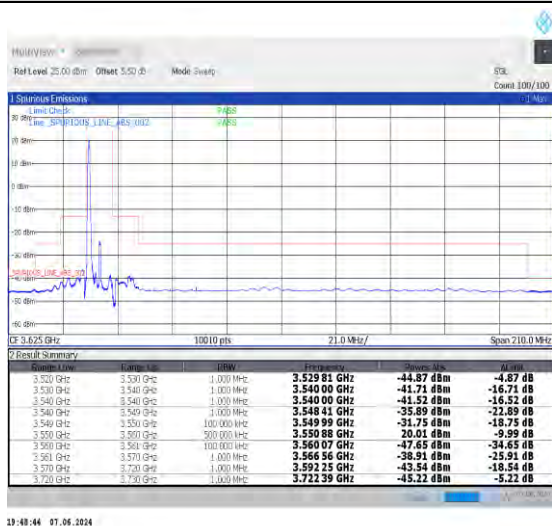
Test Graphs



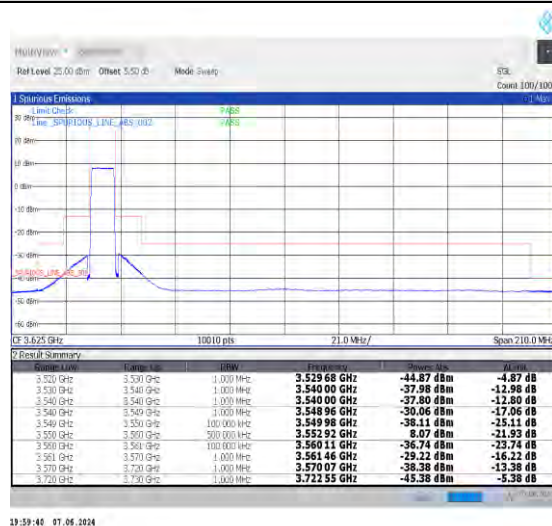
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1-N48-30-10-L-3-DFT-PI2BPSK-Outer_Full-24@0-Ant0-1--PASS-see graph



1-N48-30-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph



1-N48-30-10-L-6-CP-QPSK-Outer_Full-24@0-Ant0-1--PASS-see graph



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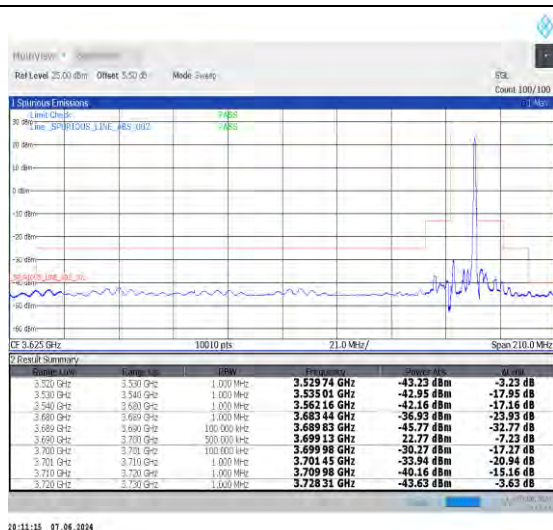
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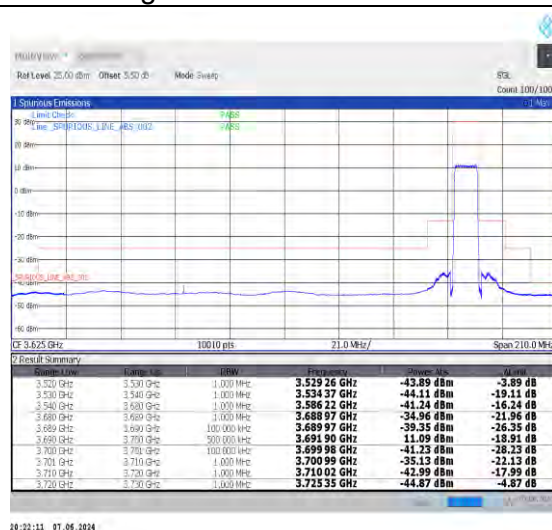
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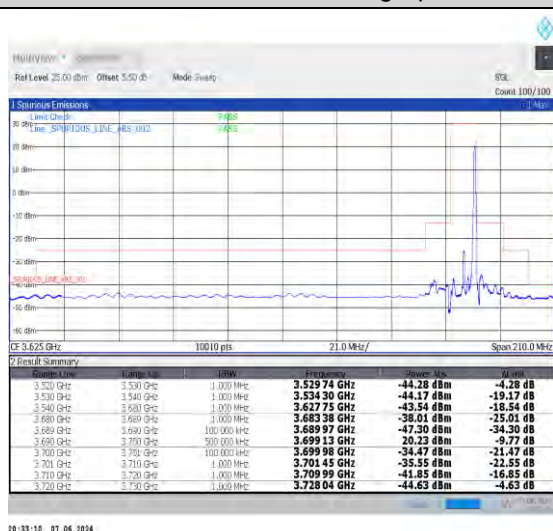
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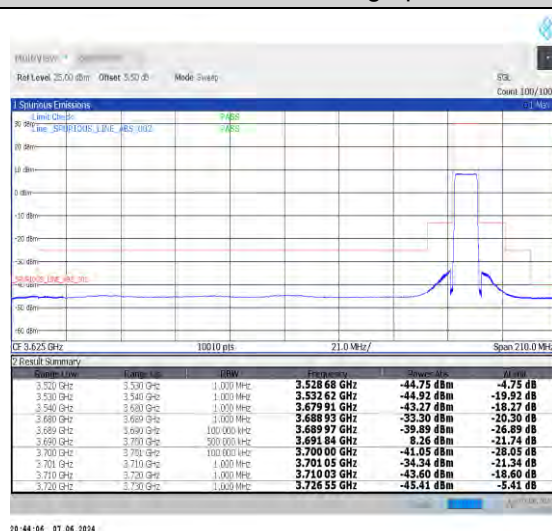
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23-Ant0-1--PASS-see graph

1-N48-30-10-H-3-DFT-PI2BPSK-Outer_Full-24@0
-Ant0-1--PASS-see graph



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0-1--PASS-see graph



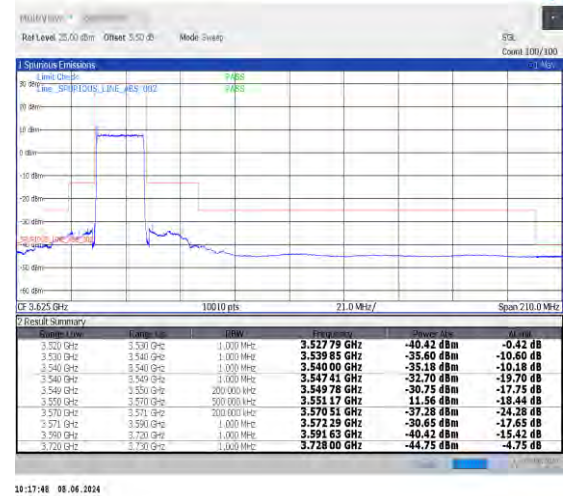
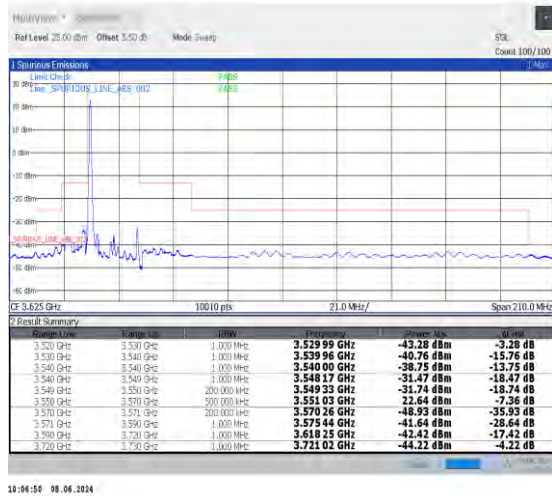
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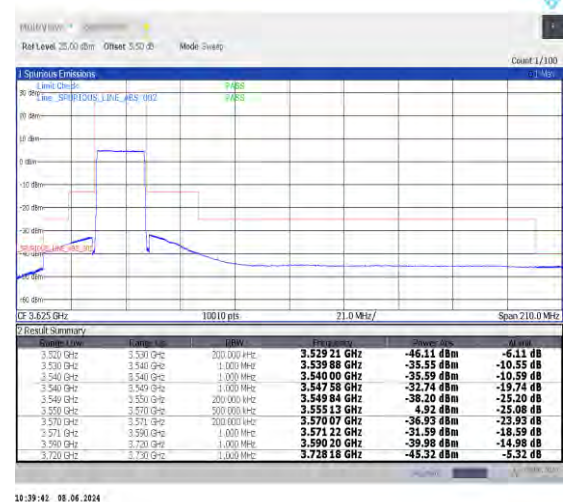
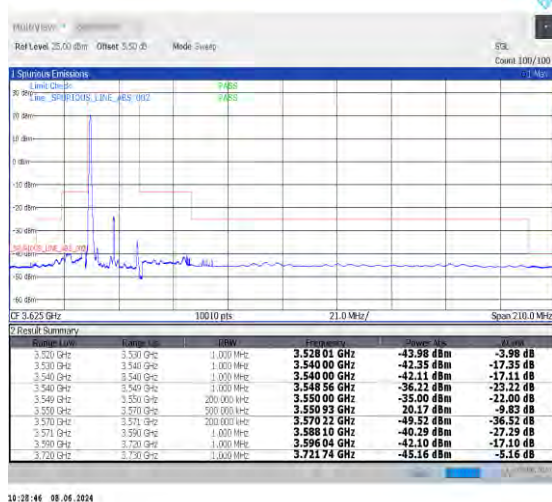
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1-N48-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N48-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-1--PASS-see graph



1-N48-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N48-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant0-1--PASS-see graph



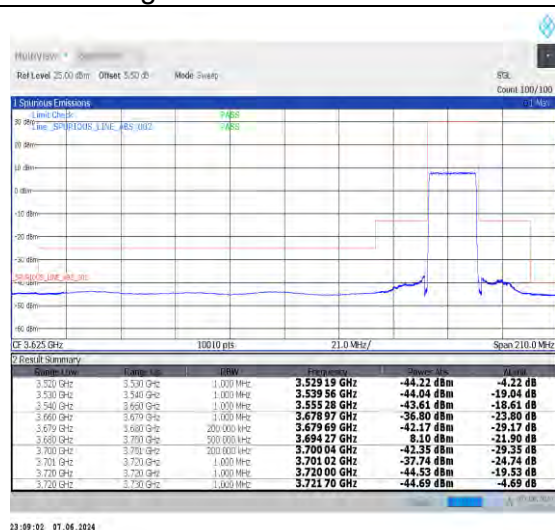
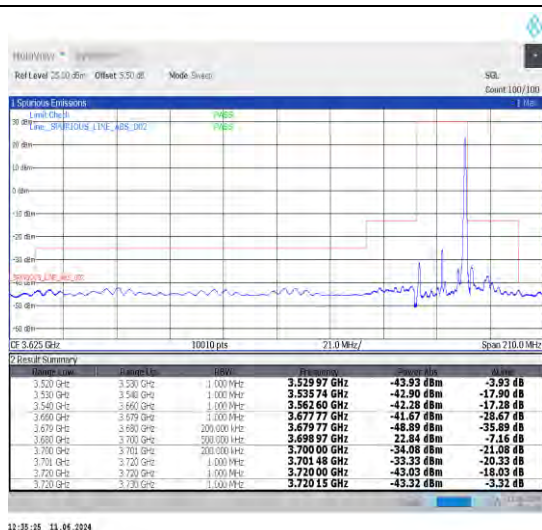
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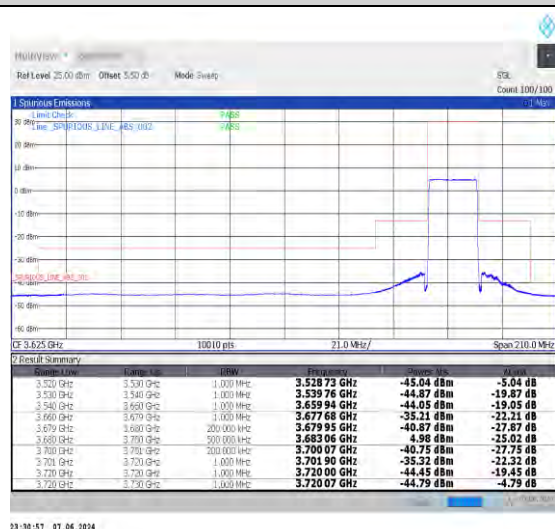
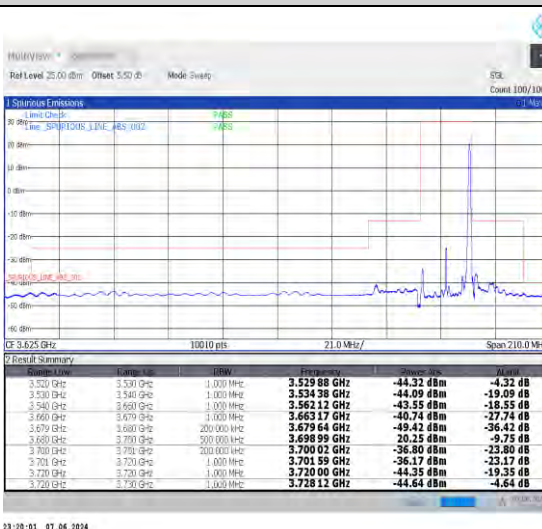
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1-N48-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@50-Ant0-1--PASS-see graph

1-N48-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-1--PASS-see graph



1-N48-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant0-1--PASS-see graph

1-N48-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant0-1--PASS-see graph



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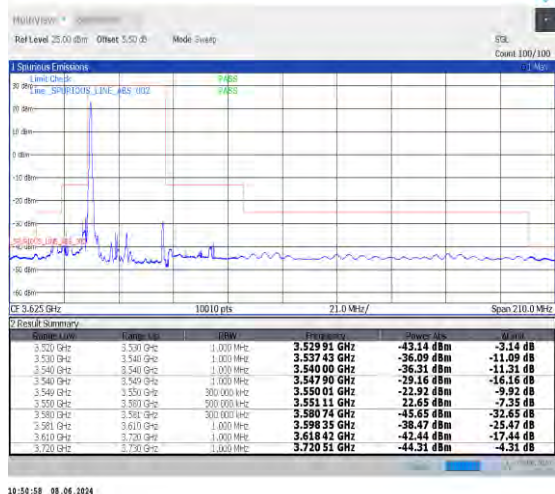
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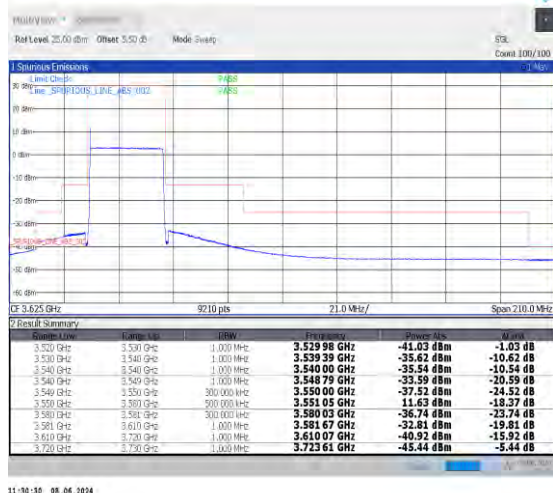
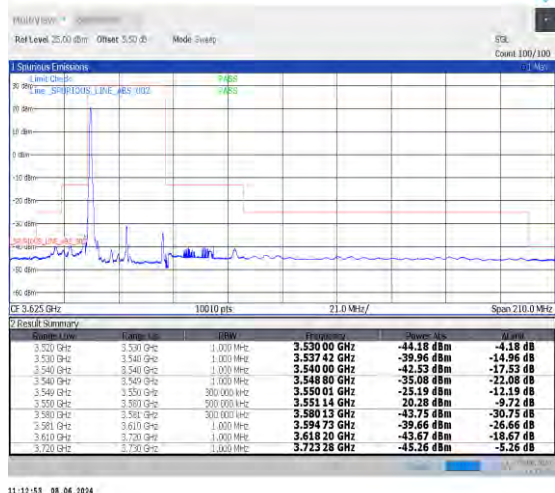
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1-N48-30-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N48-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1--PASS-see graph



1-N48-30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N48-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant0-1--PASS-see graph



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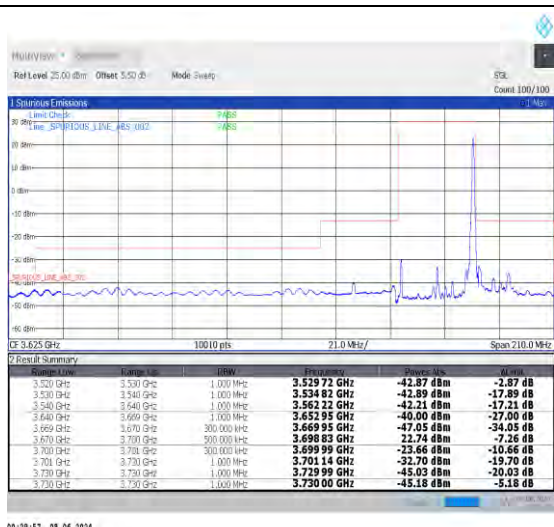
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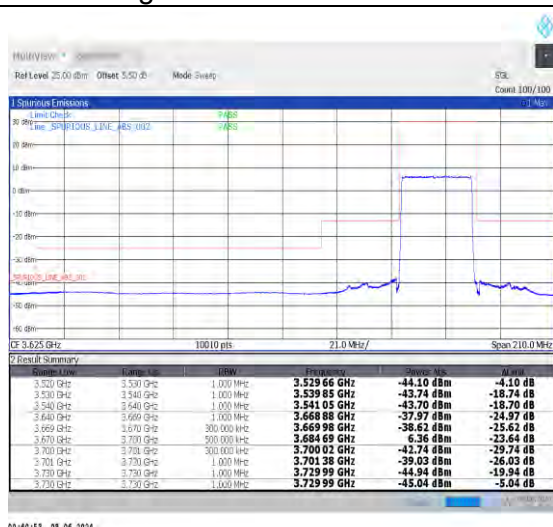
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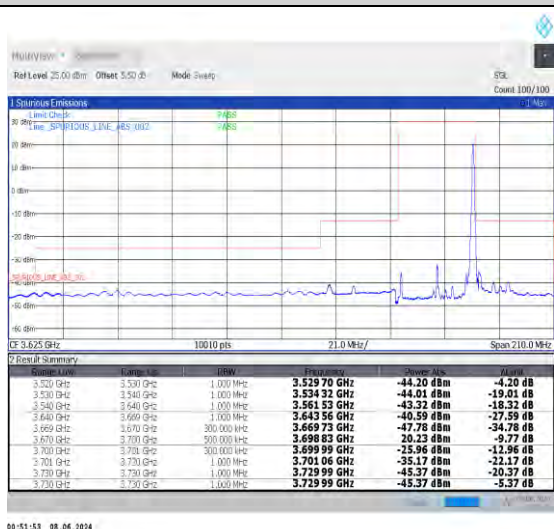
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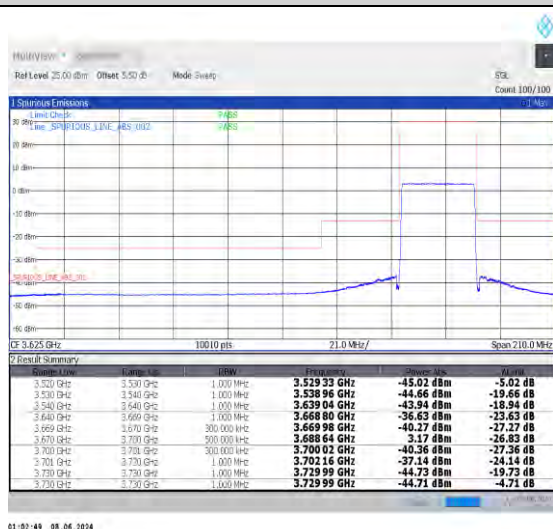
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00:51:53 08.06.2024



01:02:49 08.06.2024

1-N48-30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-A
nt0-1--PASS-see graph1-N48-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant
0-1--PASS-see graph

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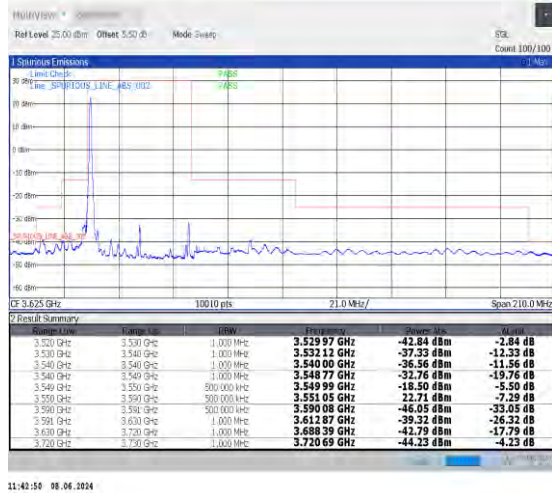
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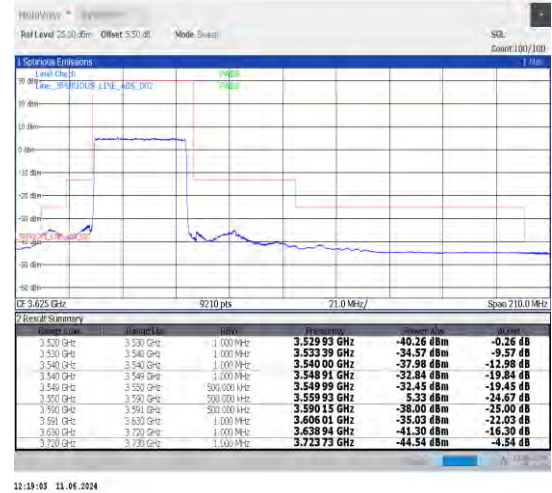
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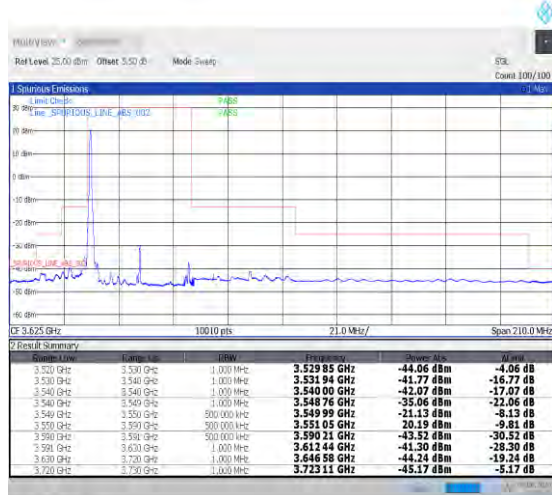
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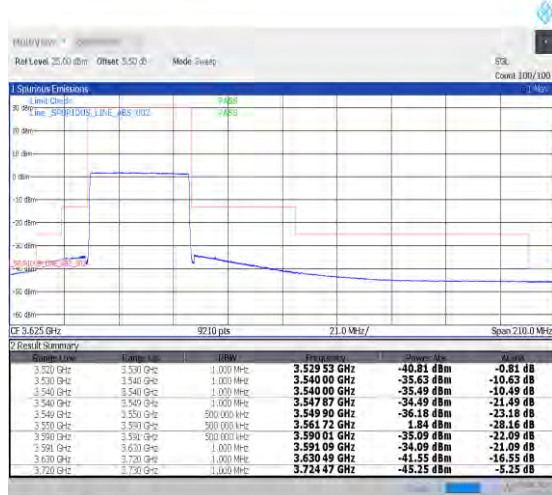
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1-N48-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N48-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant0-1--PASS-see graph



12:08:23 08.06.2024



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1-N48-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N48-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant0-1--PASS-see graph



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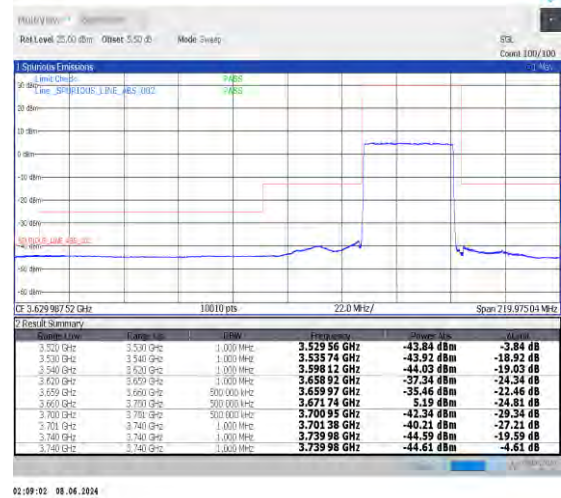
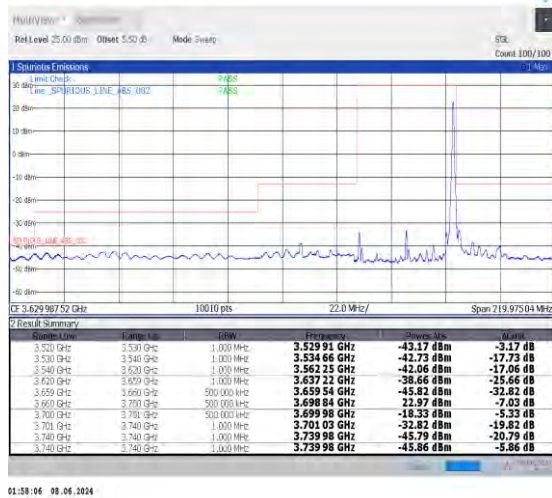
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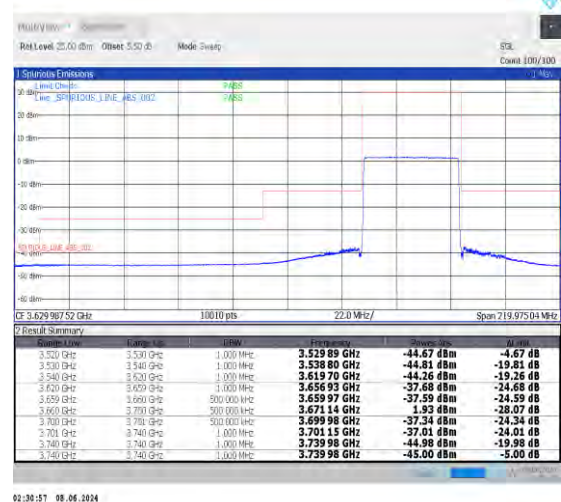
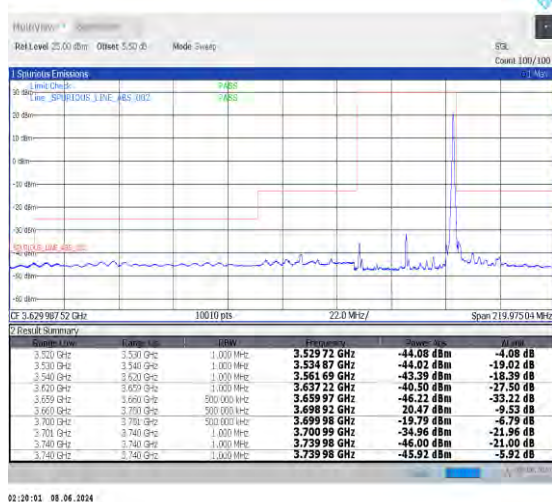
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1-N48-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant0-1--PASS-see graph

1-N48-30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant0-1--PASS-see graph



1-N48-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant0-1--PASS-see graph

1-N48-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant0-1--PASS-see graph



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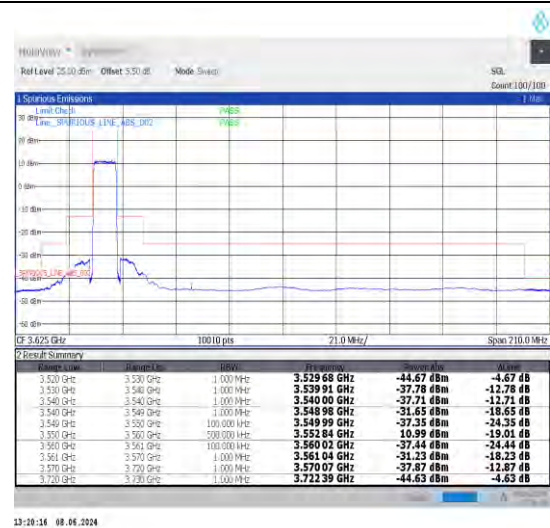
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Band Edge for MIMO

Test Graphs



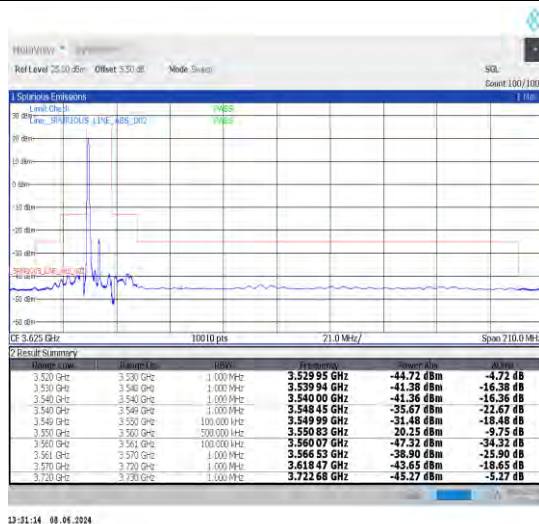
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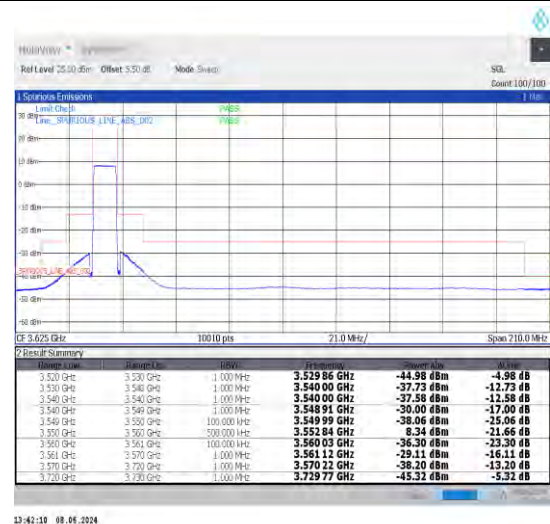
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1-N48-30-10-L-3-DFT-PI2BPSK-Outer_Full-24@0-Ant0-1--PASS-see graph



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1-N48-30-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N48-30-10-L-6-CP-QPSK-Outer_Full-24@0-Ant0-1--PASS-see graph



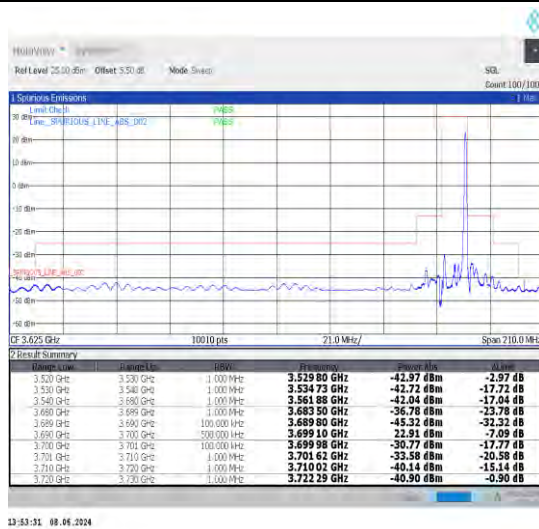
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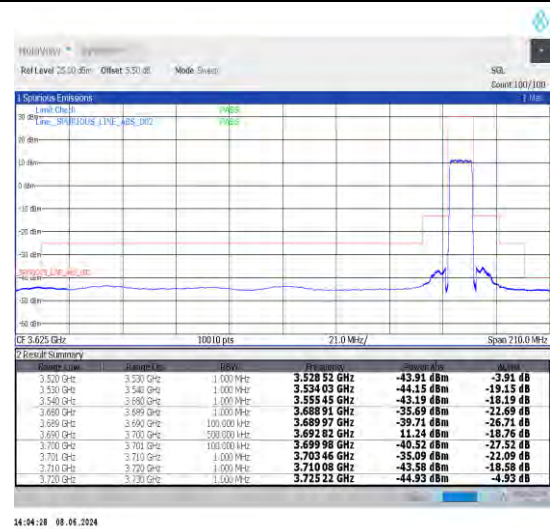
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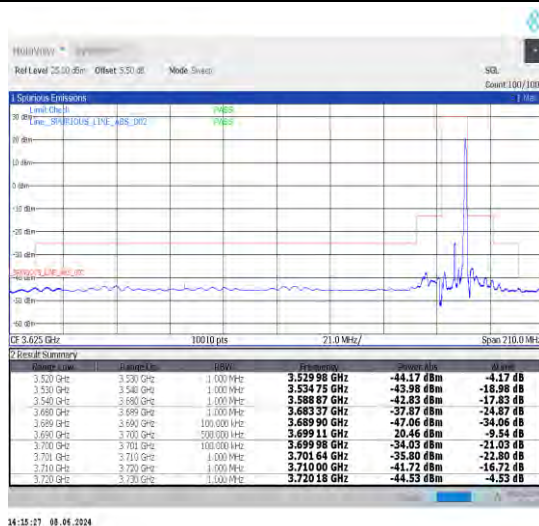
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23-Ant0-1--PASS-see graph



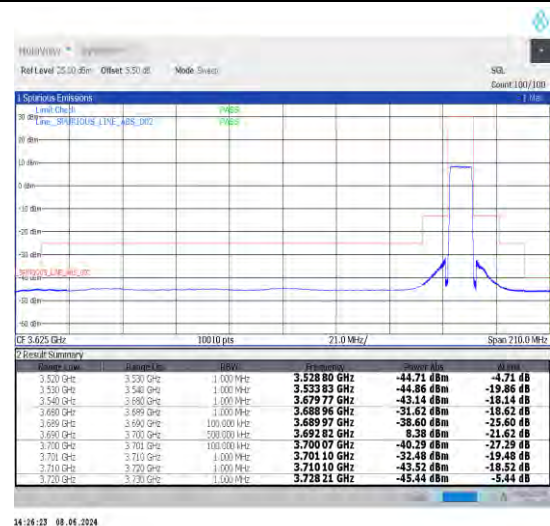
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0-1--PASS-see graph



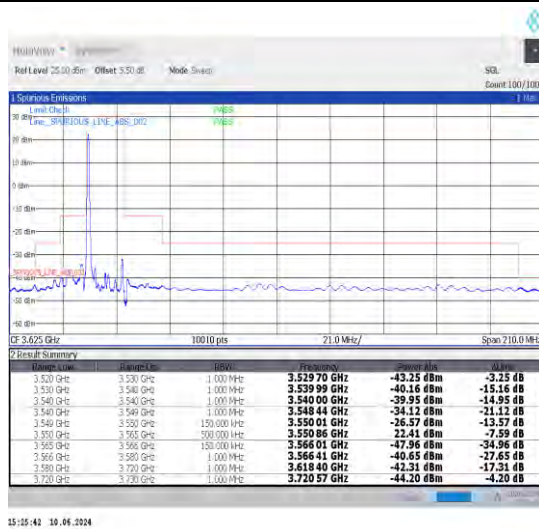
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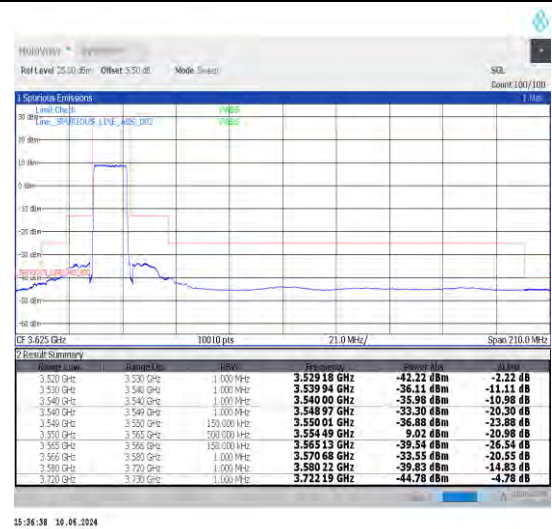
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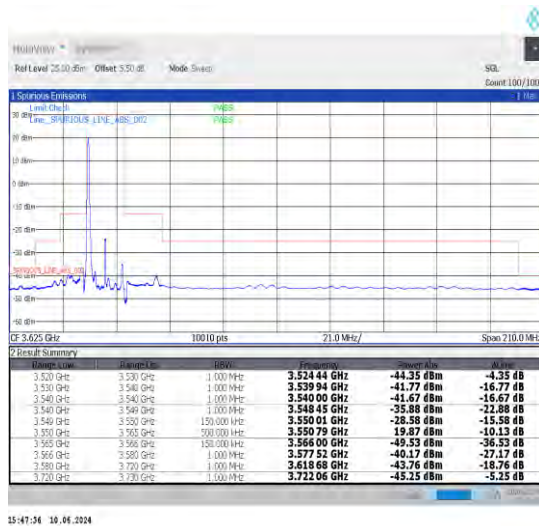
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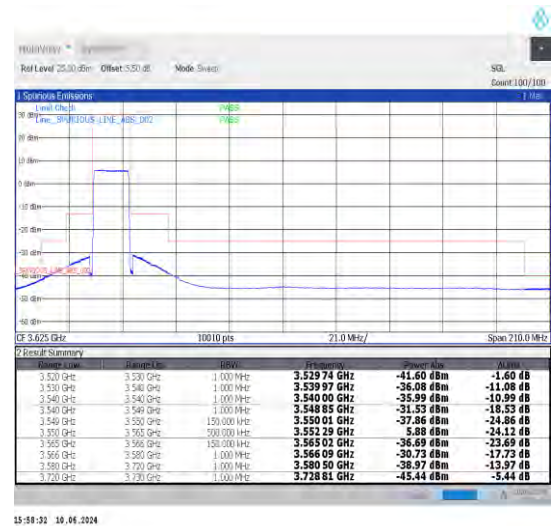
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1-N48-30-15-L-3-DFT-PI2BPSK-Outer_Full-36@0-Ant0-1--PASS-see graph



15:47:34 10.06.2024

1-N48-30-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph



15:58:32 10.06.2024

1-N48-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant0-1--PASS-see graph



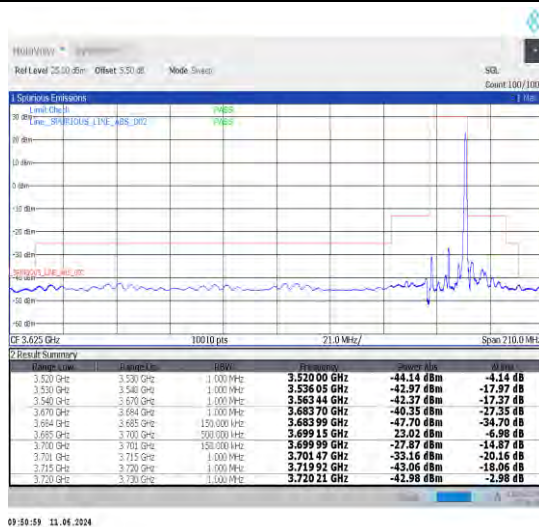
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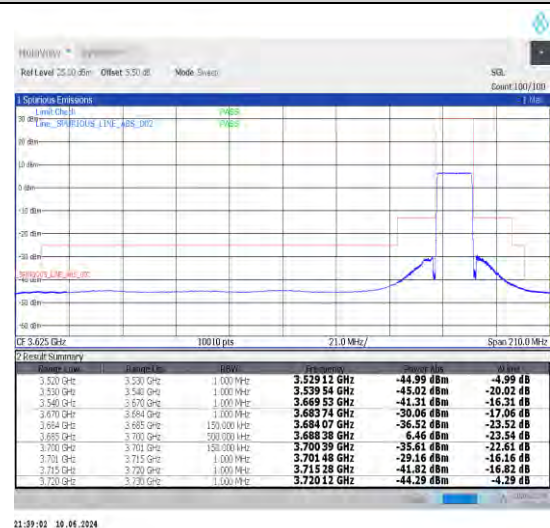
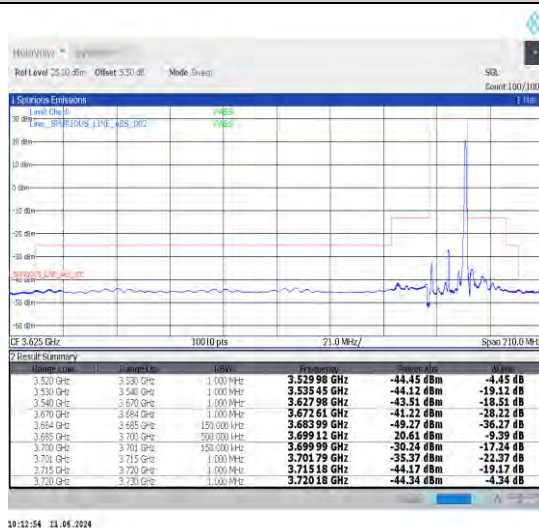
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1-N48-30-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@
37-Ant0-1--PASS-see graph

1-N48-30-15-H-3-DFT-PI2BPSK-Outer_Full-36@0
-Ant0-1--PASS-see graph



1-N48-30-15-H-5-CP-QPSK-Edge_1RB_Right-1@37-A
nt0-1--PASS-see graph

1-N48-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant
0-1--PASS-see graph



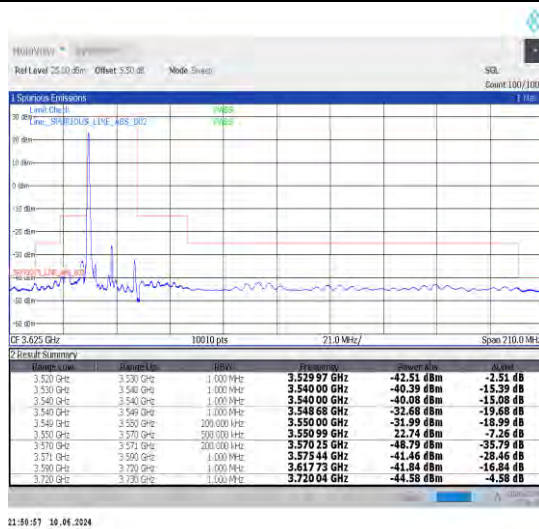
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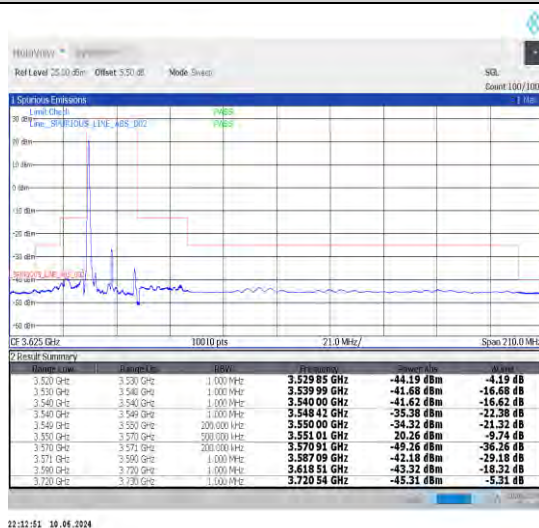
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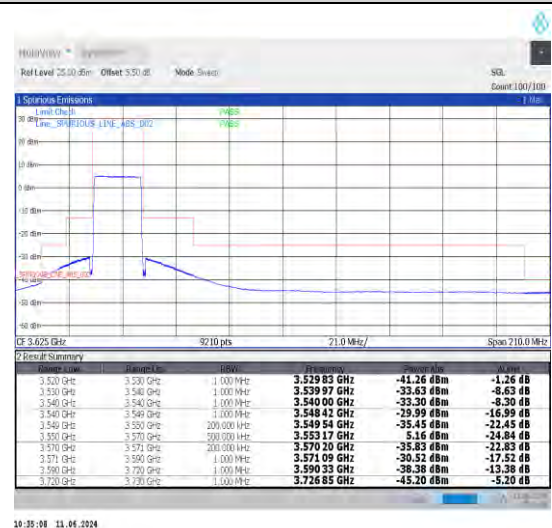
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1-N48-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-1--PASS-see graph



22:11:51 10.06.2024

1-N48-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph



10:39:08 11.06.2024

1-N48-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant0-1--PASS-see graph



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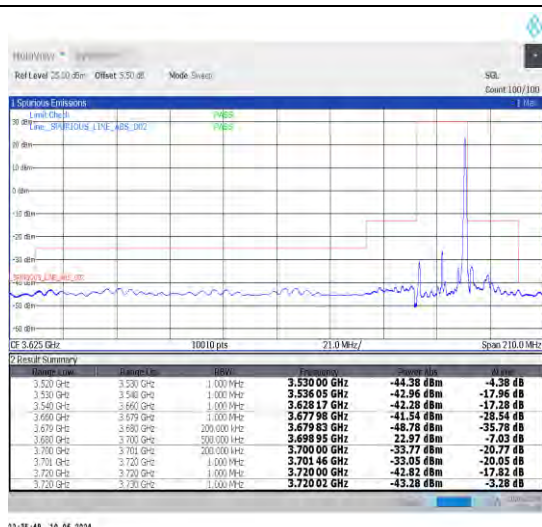
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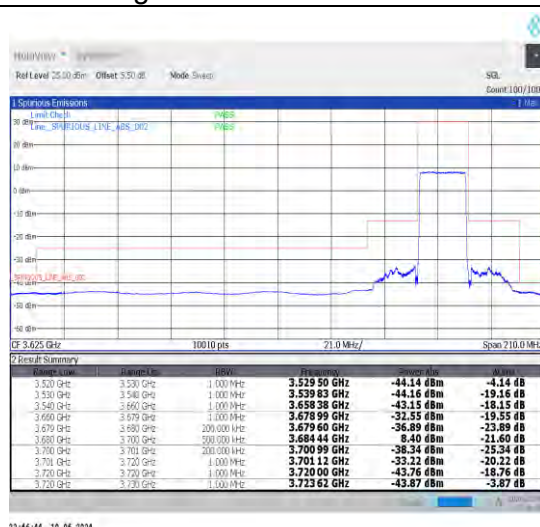
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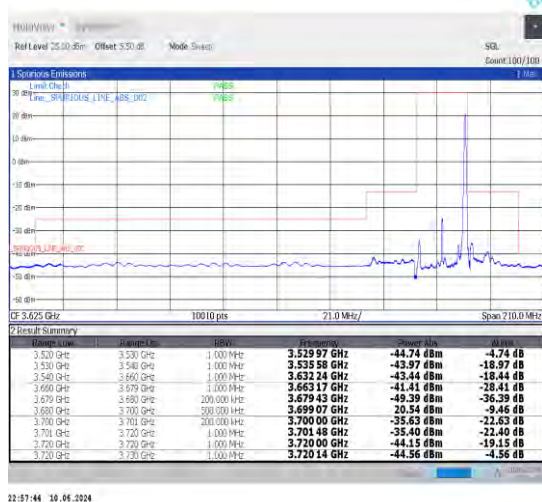
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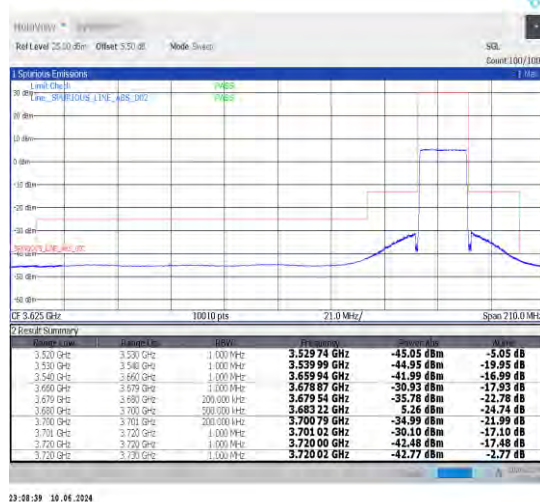
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1-N48-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@
50-Ant0-1--PASS-see graph

1-N48-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0
-Ant0-1--PASS-see graph



22:57:44 10.06.2024



23:08:39 10.06.2024

1-N48-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-A
nt0-1--PASS-see graph

1-N48-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant
0-1--PASS-see graph



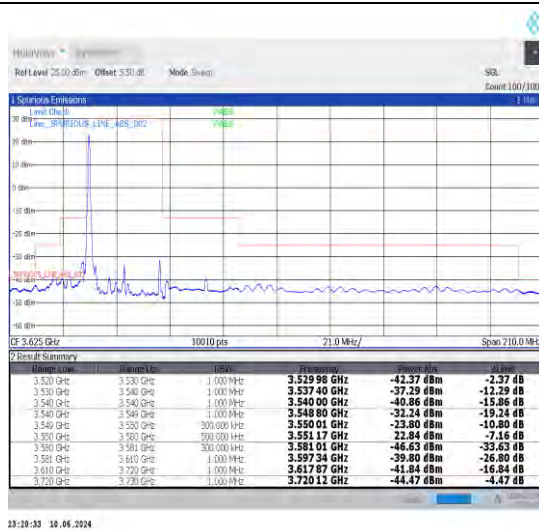
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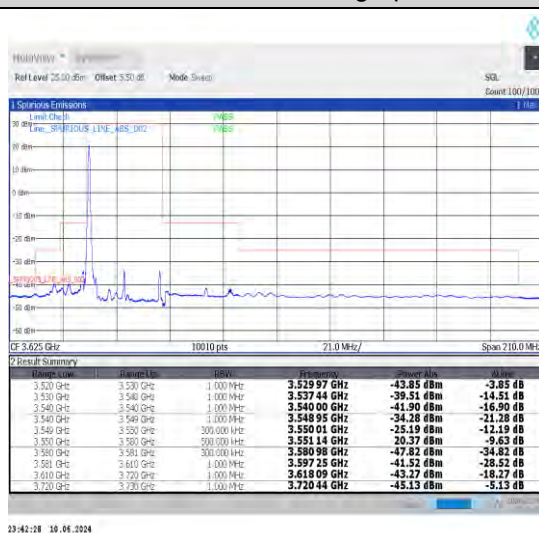
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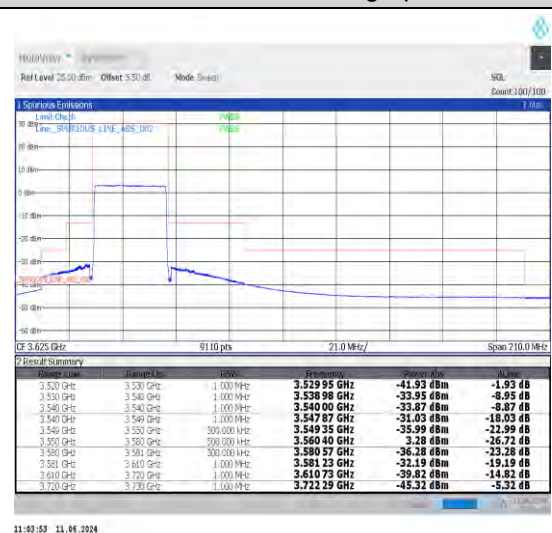
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1-N48-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1--PASS-see graph



1-N48-30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph



1-N48-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant0-1--PASS-see graph



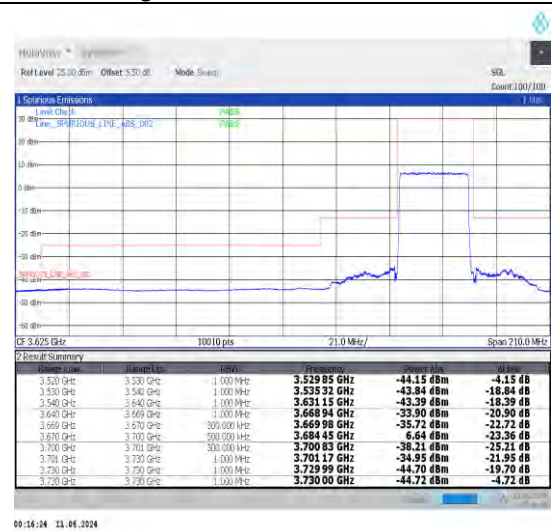
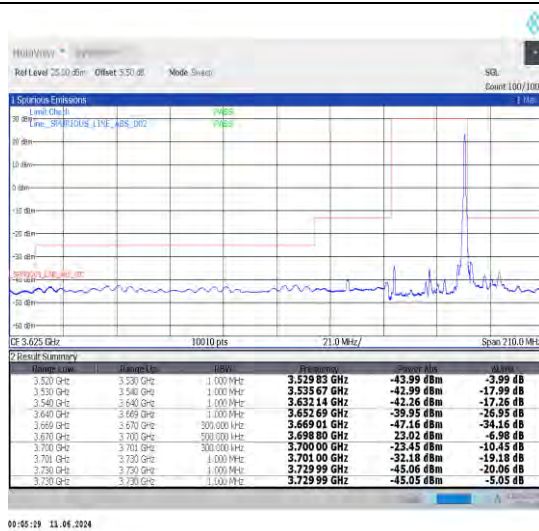
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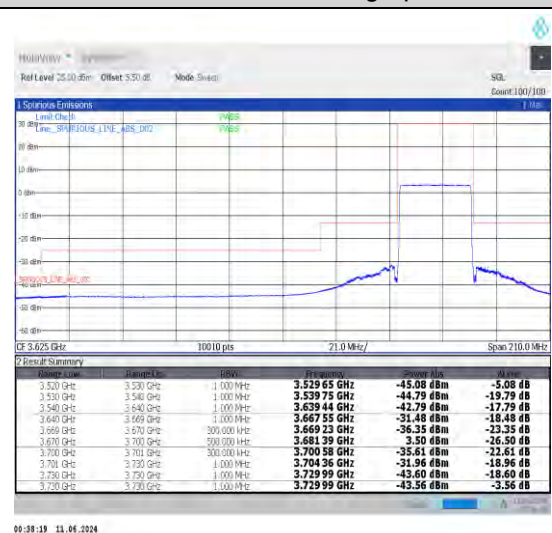
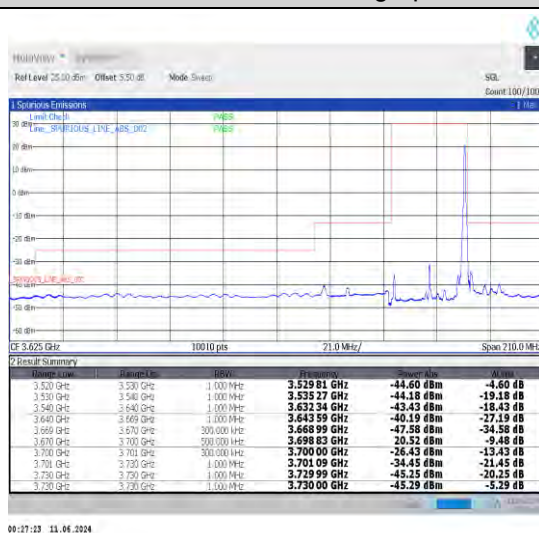
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1-N48-30-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@77-Ant0-1--PASS-see graph

1-N48-30-30-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1--PASS-see graph



1-N48-30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-Ant0-1--PASS-see graph

1-N48-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant0-1--PASS-see graph



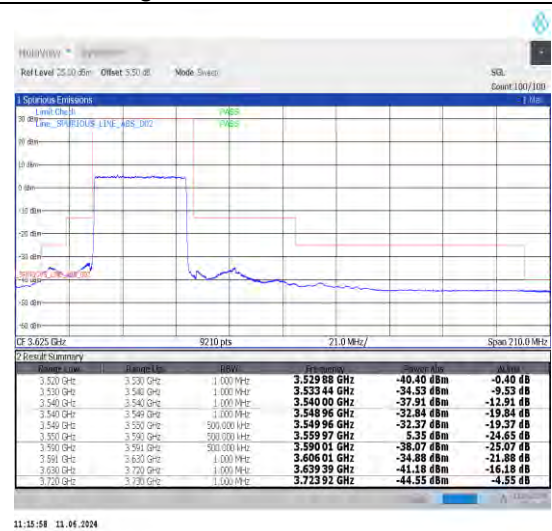
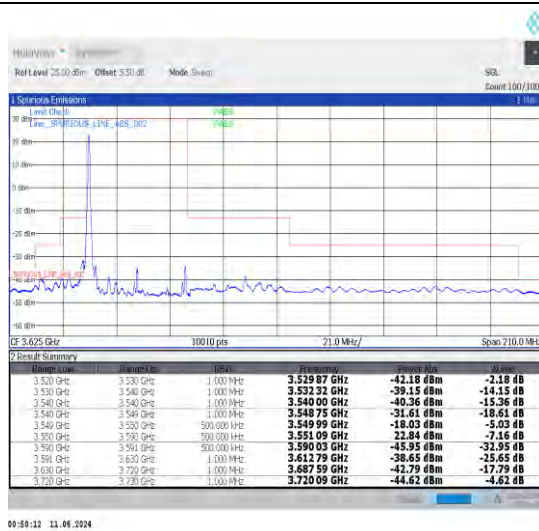
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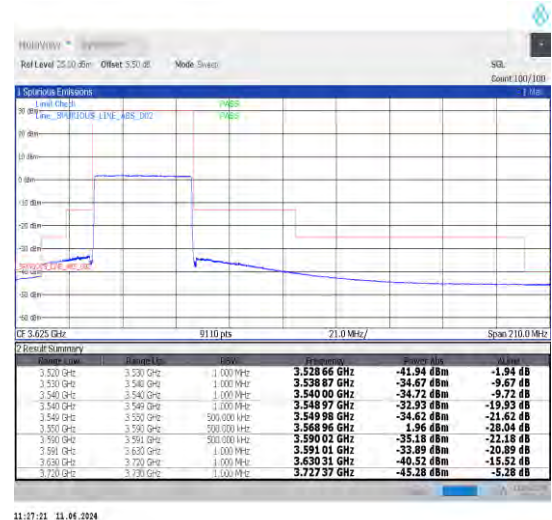
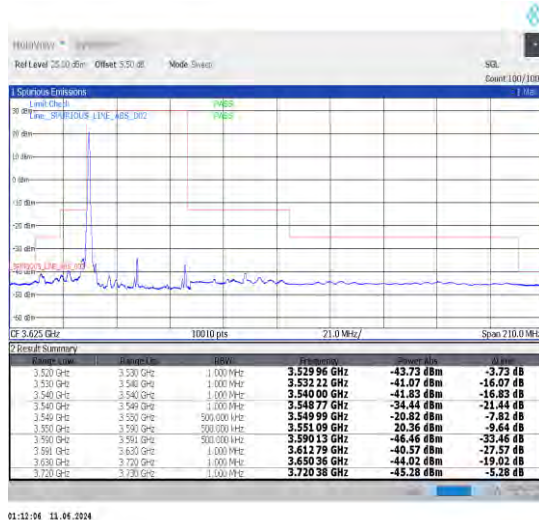
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1-N48-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant0-1--PASS-see graph



1-N48-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N48-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant0-1--PASS-see graph



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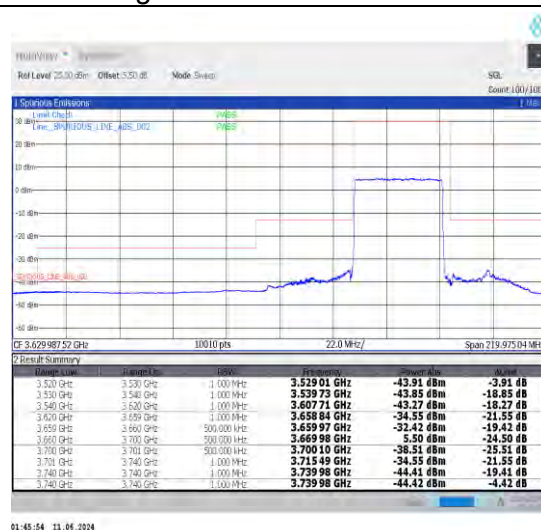
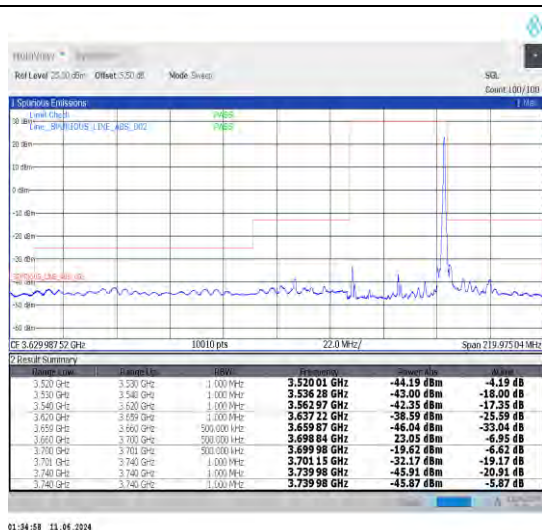
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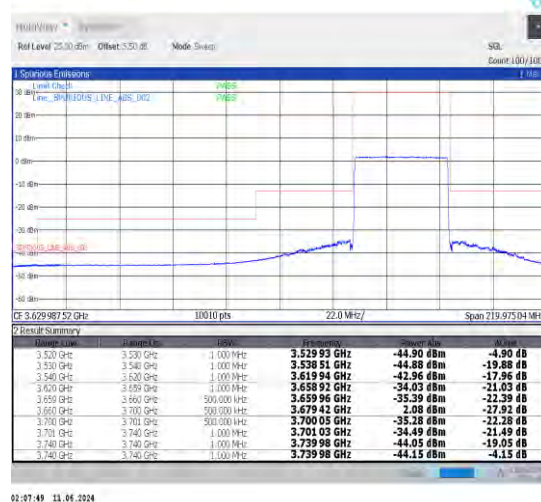
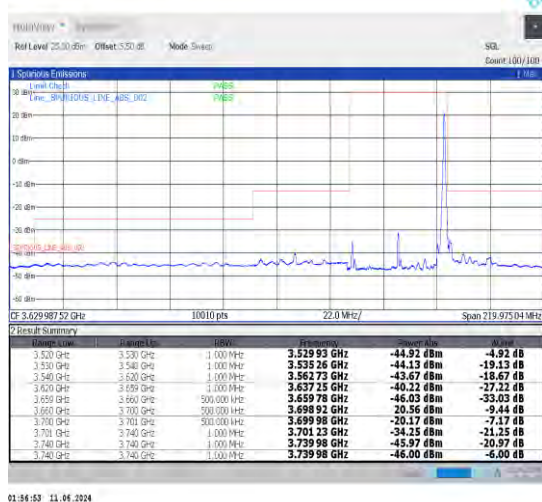
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1-N48-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant0-1--PASS-see graph

1-N48-30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant0-1--PASS-see graph



1-N48-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant0-1--PASS-see graph

1-N48-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant0-1--PASS-see graph



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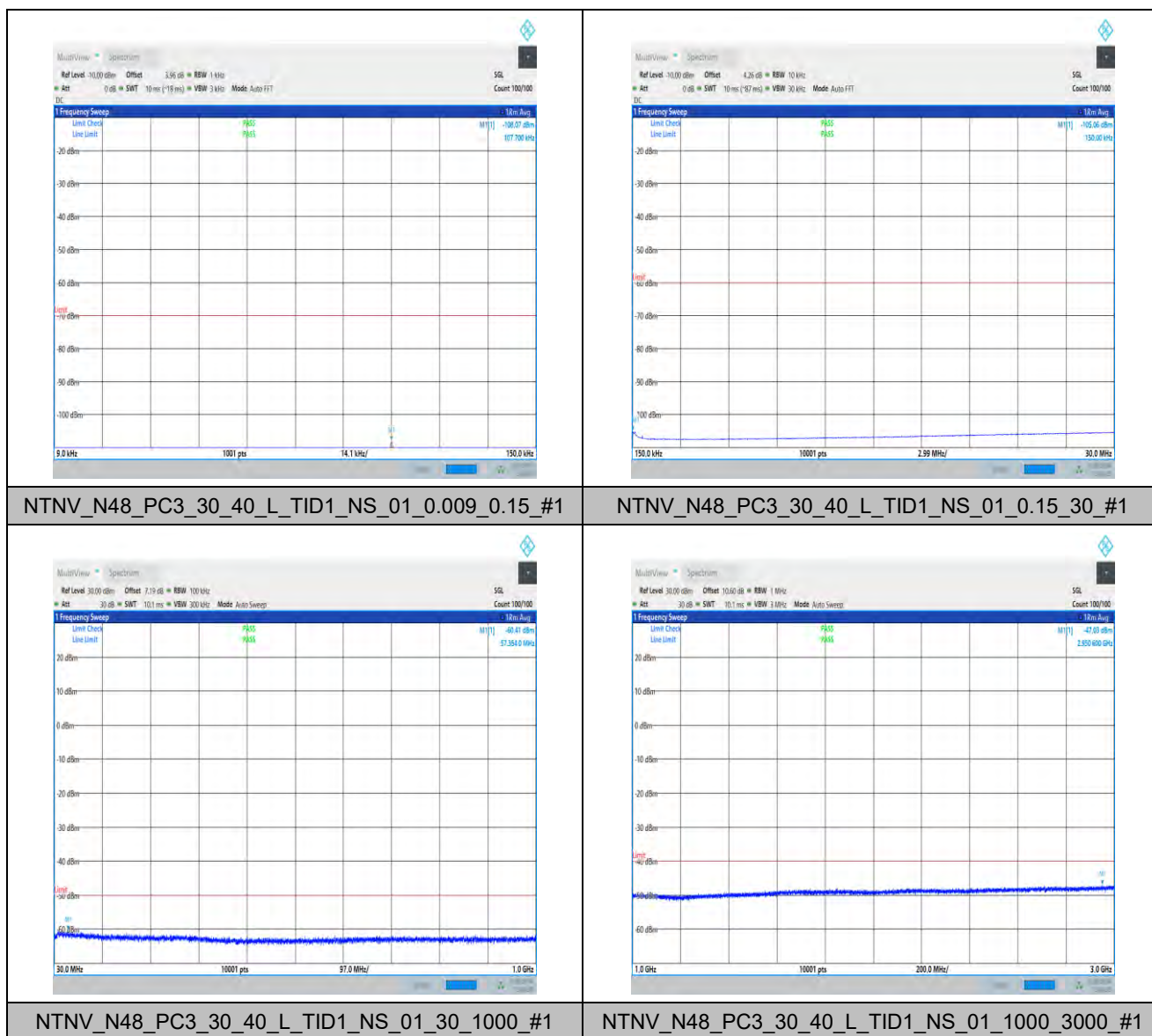
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Test Graphs



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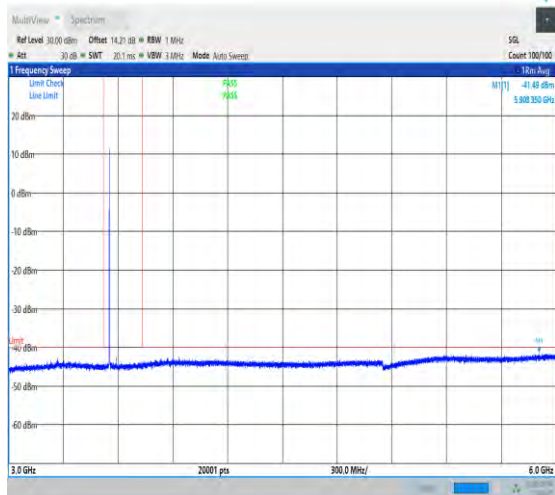
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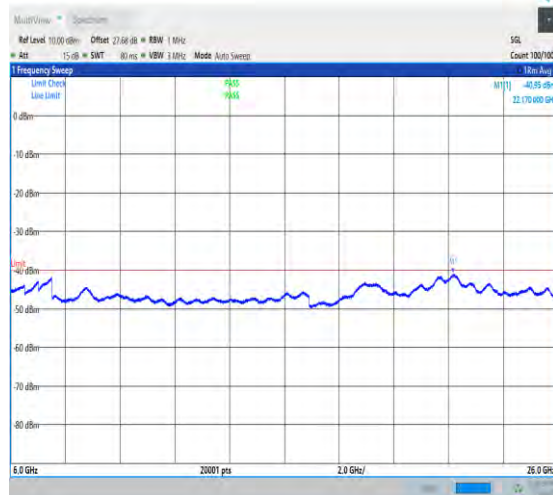
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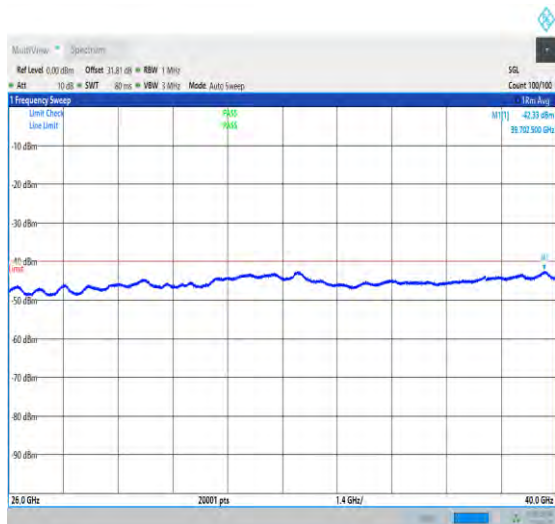
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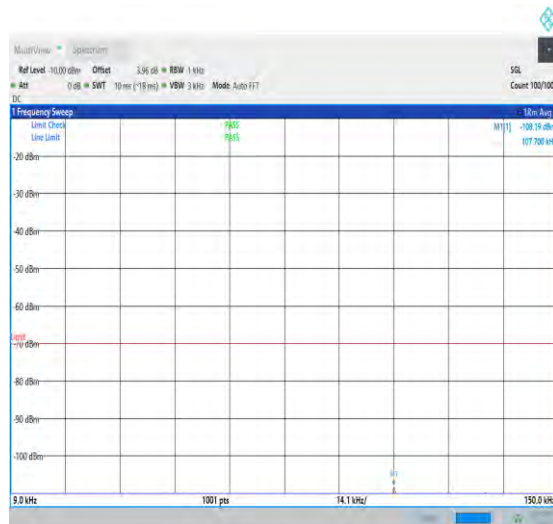
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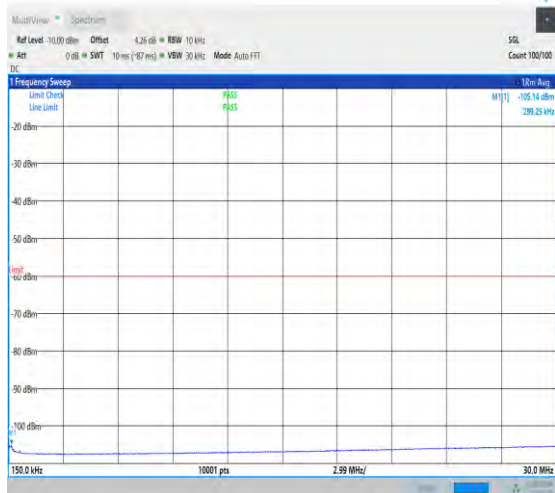
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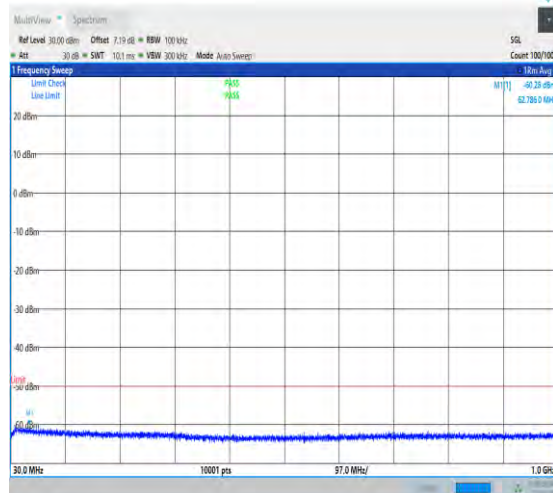
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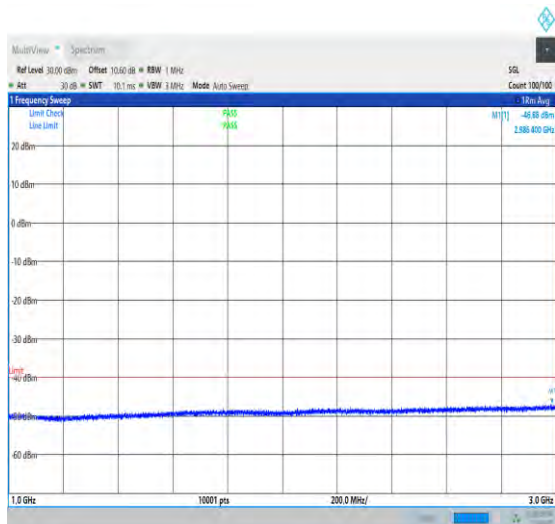
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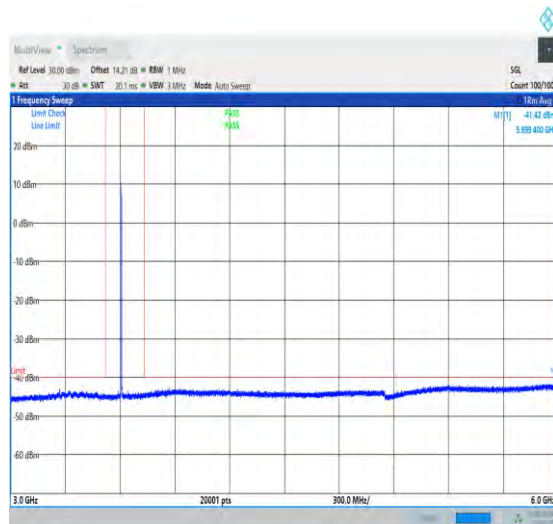
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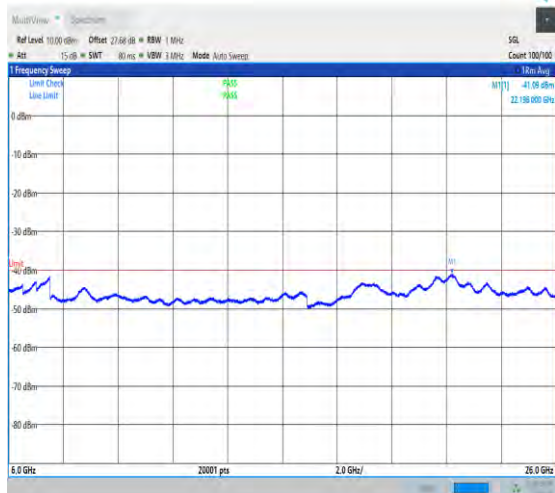
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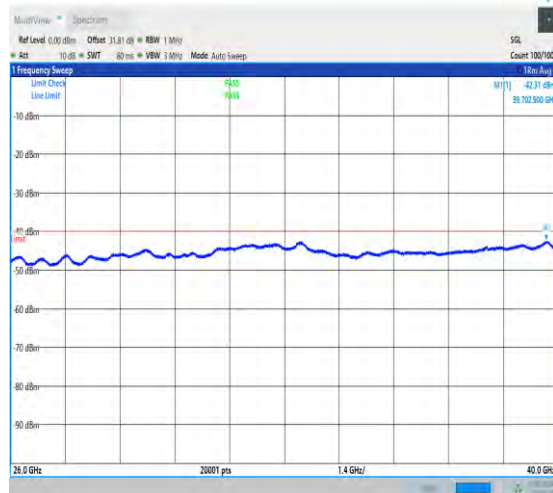
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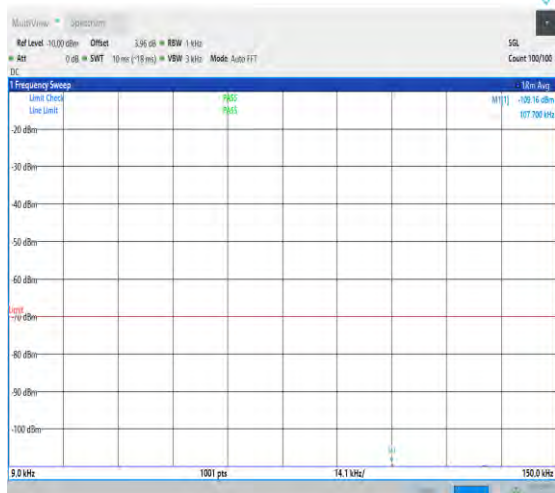
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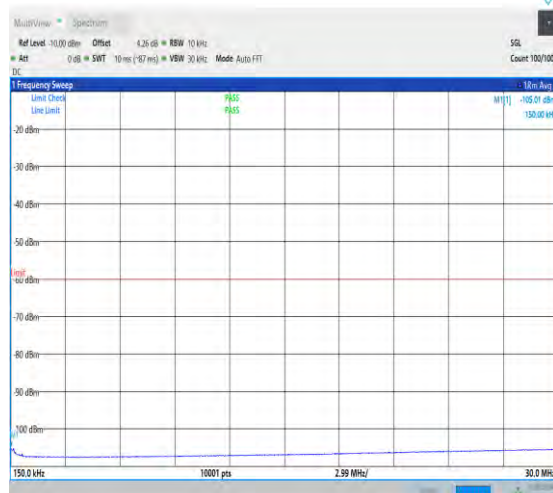


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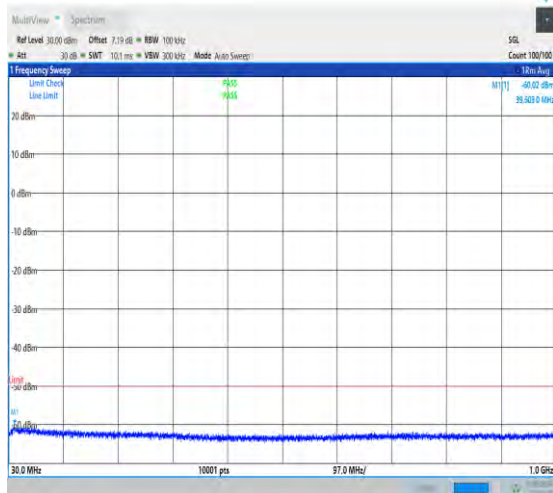
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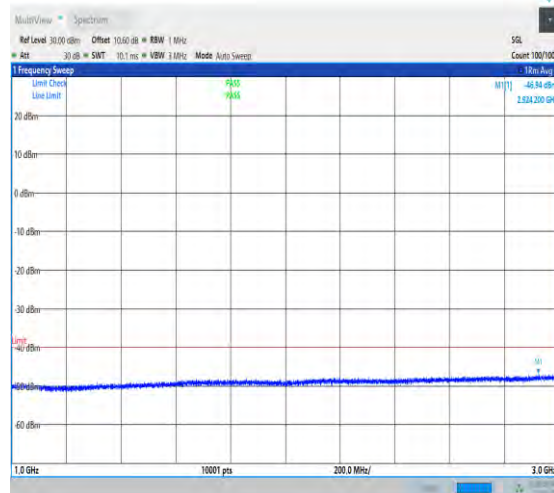
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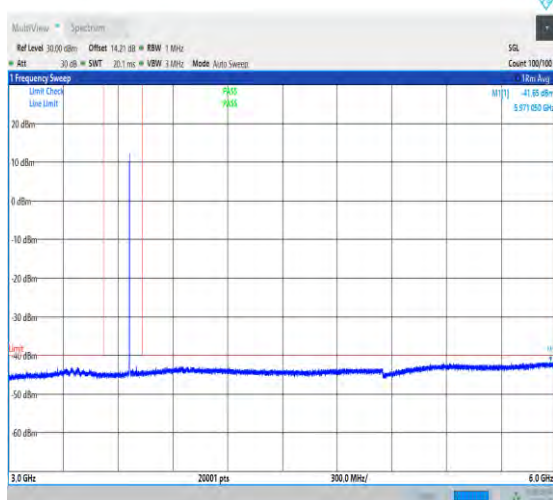
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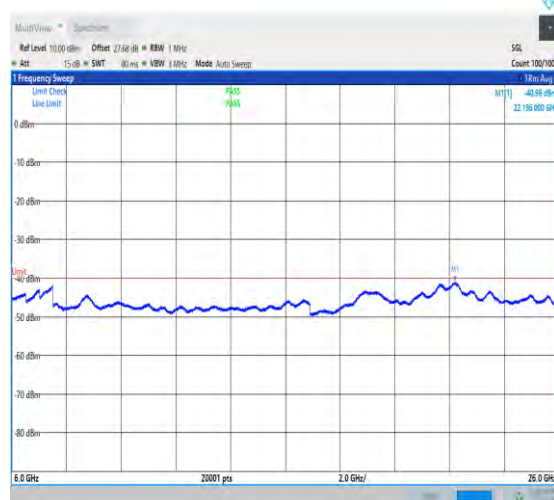
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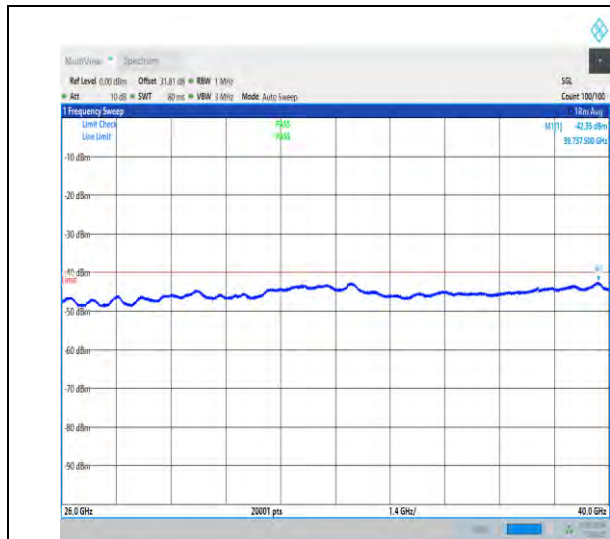
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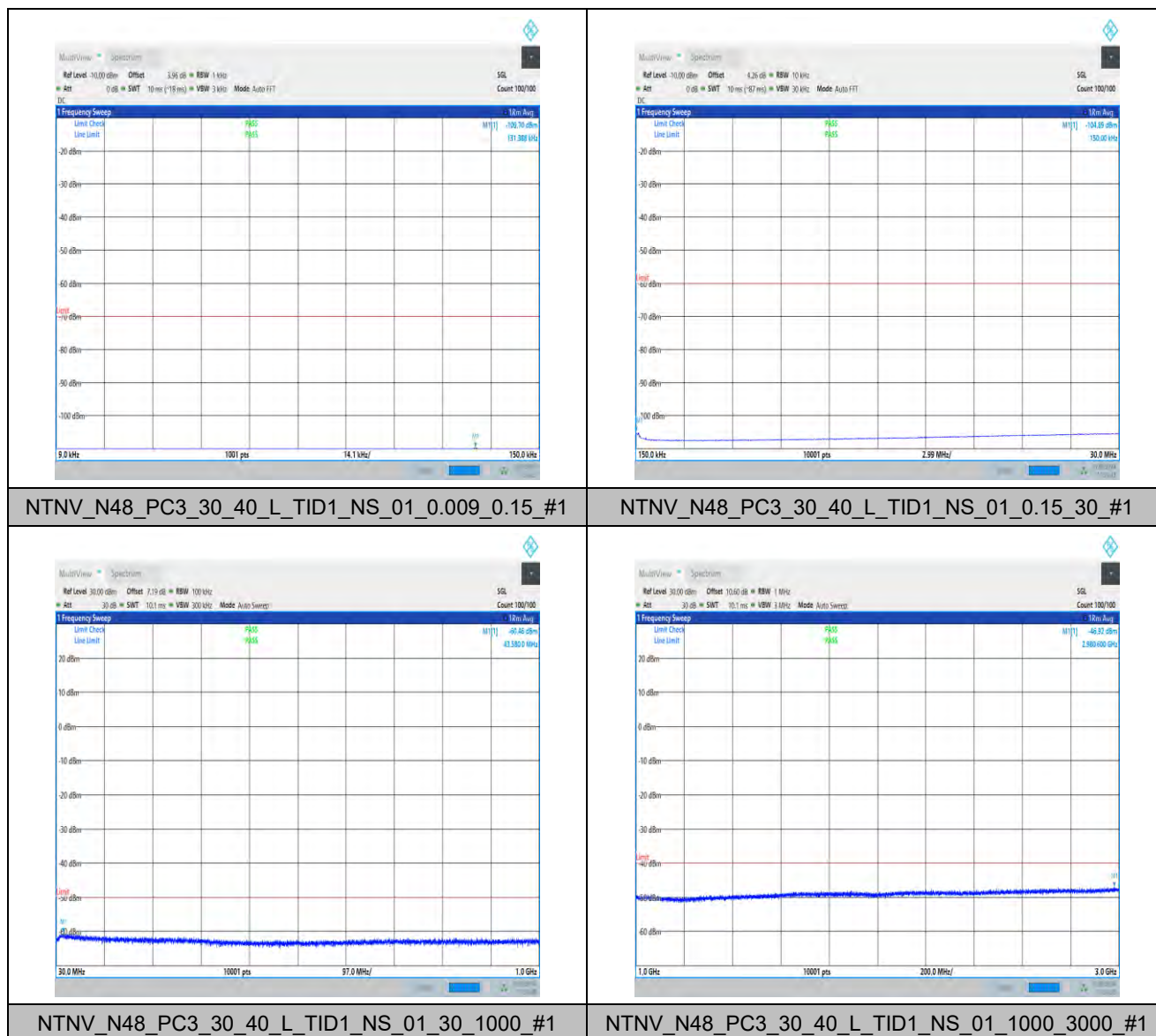
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Test Graphs



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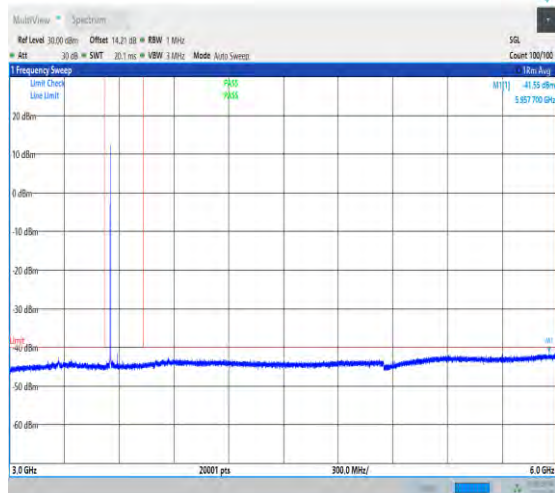
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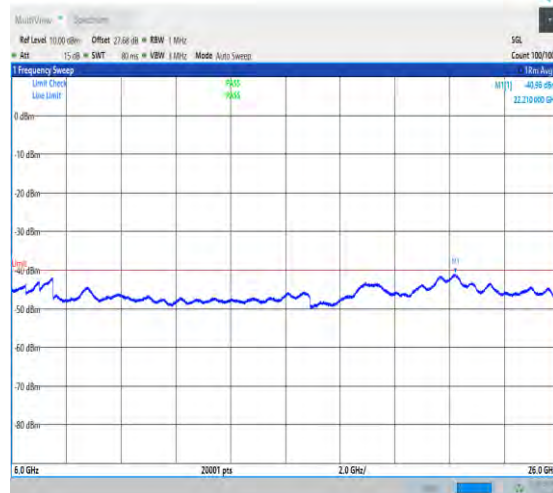
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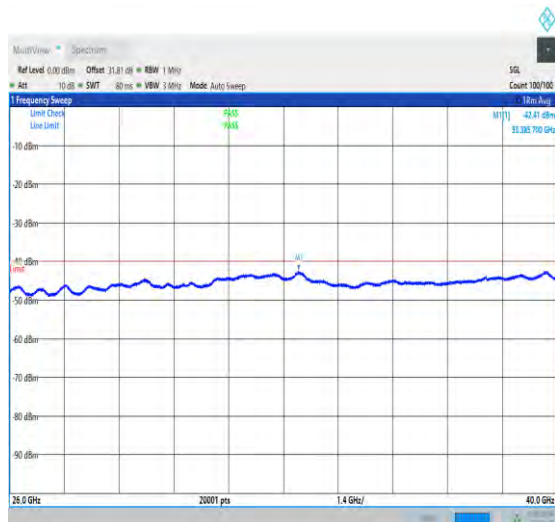
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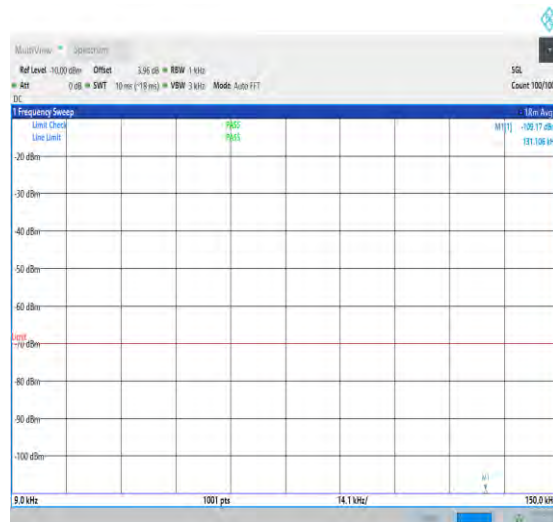
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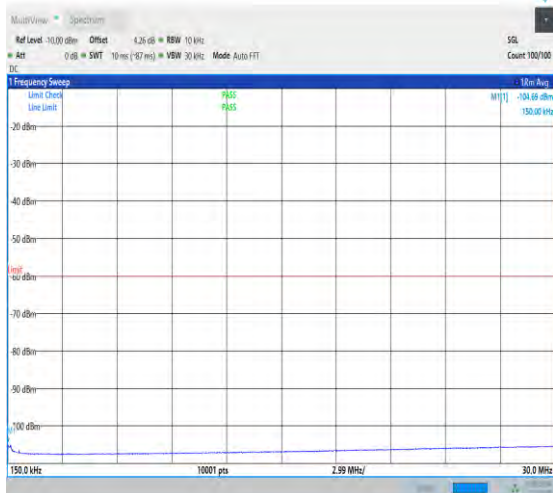
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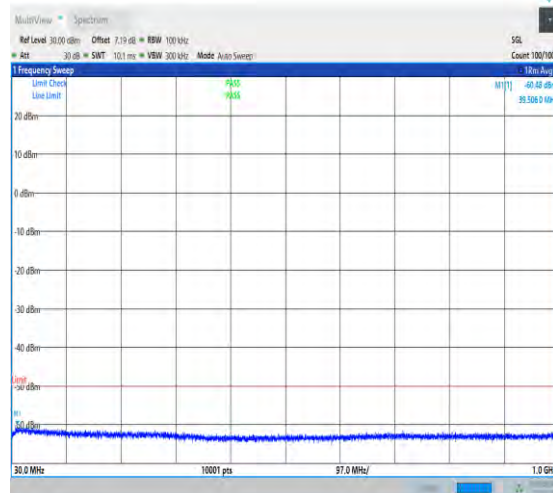
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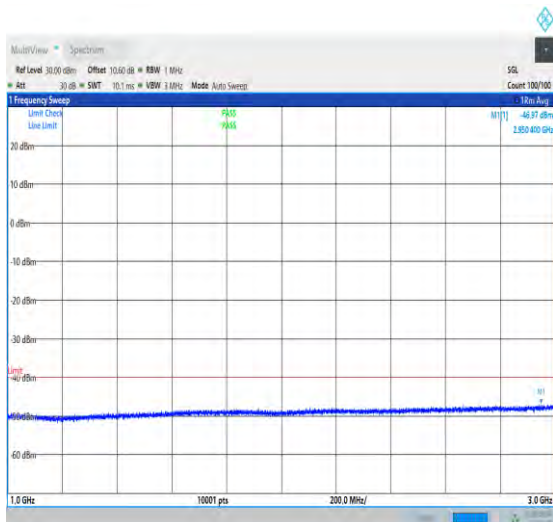
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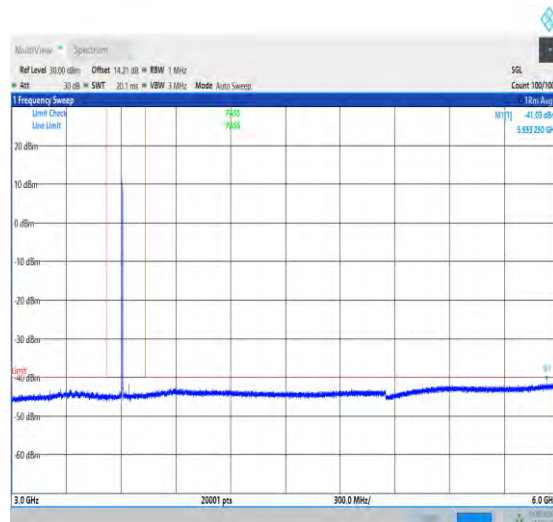
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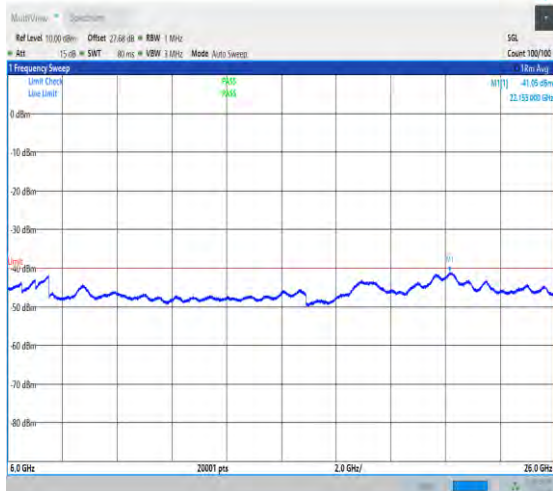
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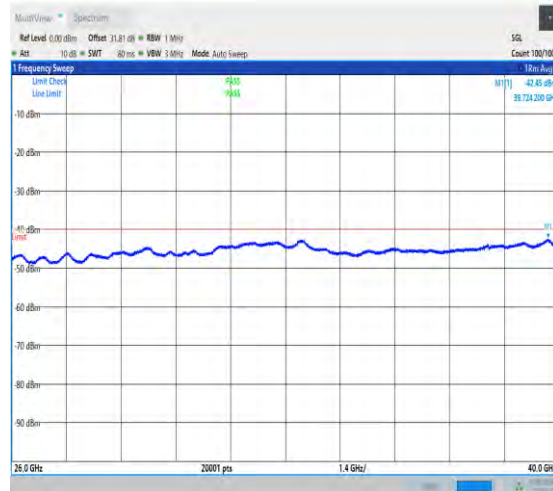
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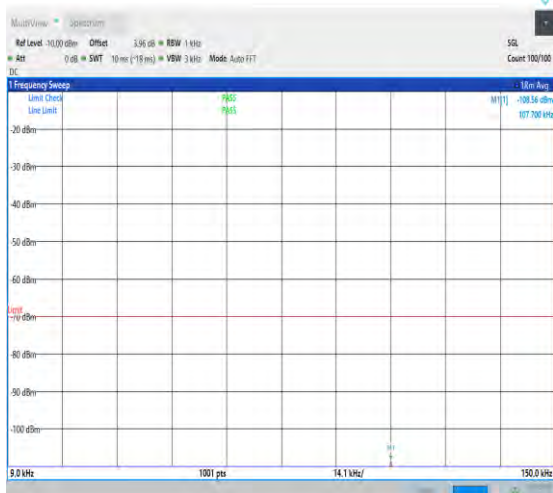
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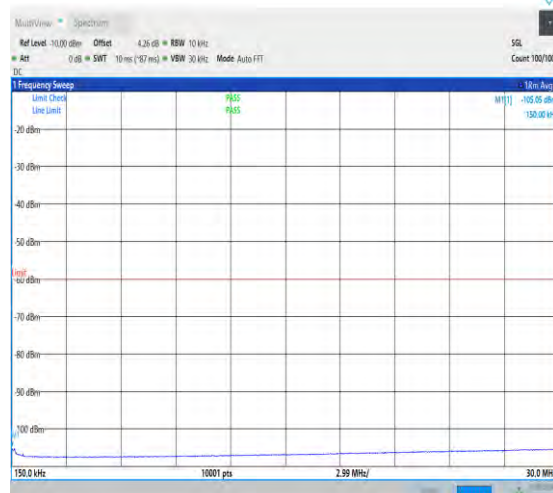


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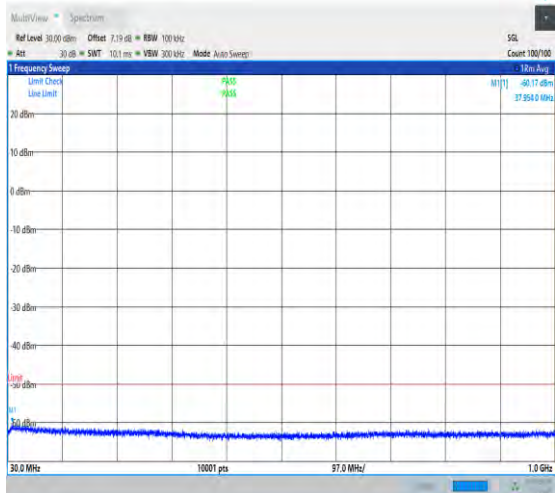
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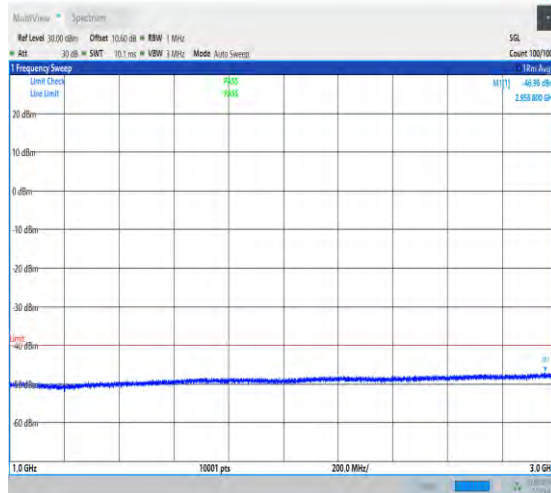
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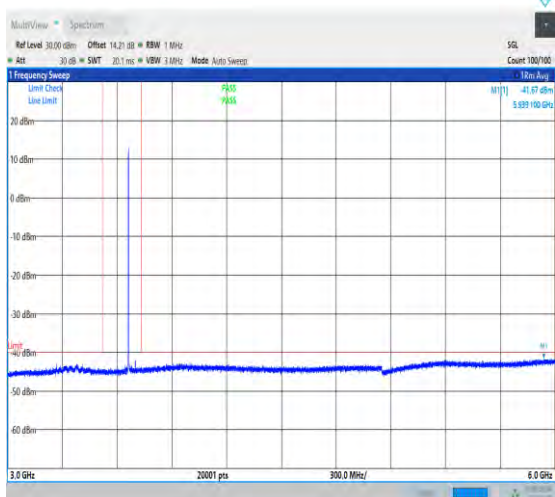
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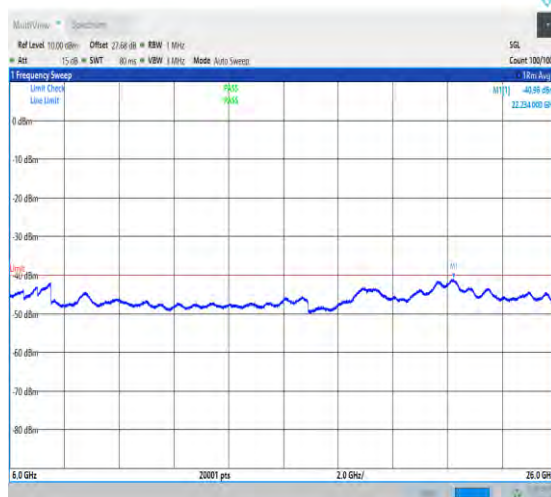
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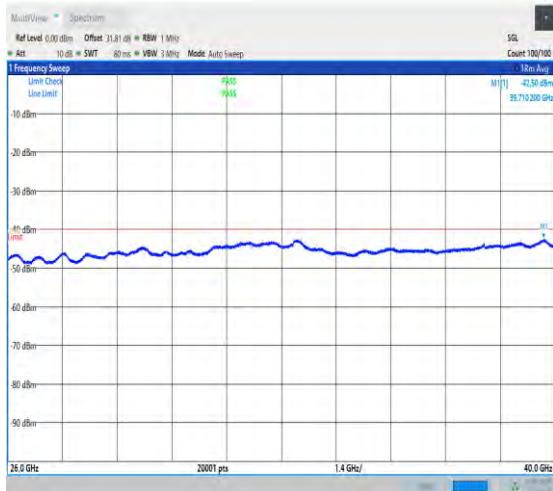
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For report SUCR240400008902

26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N48	30	15	DFT-QPSK	M	Outer_Full	12.959	14.610	PASS
N48	30	15	DFT-PI2BPSK	M	Outer_Full	12.95	14.580	PASS
N48	30	15	DFT-16QAM	M	Outer_Full	13.002	14.910	PASS
N48	30	15	DFT-64QAM	M	Outer_Full	12.982	14.820	PASS
N48	30	15	DFT-256QAM	M	Outer_Full	12.923	14.640	PASS
N48	30	15	CP-QPSK	M	Outer_Full	13.648	15.390	PASS
N48	30	15	CP-16QAM	M	Outer_Full	13.633	15.300	PASS
N48	30	15	CP-64QAM	M	Outer_Full	13.682	15.510	PASS
N48	30	15	CP-256QAM	M	Outer_Full	13.654	15.300	PASS



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Test Graphs



1-N48-30-15-M-1-DFT-QPSK-Outer_Full-36
@0-Ant1-12.959-14.610-≤15-PASS



1-N48-30-15-M-2-DFT-PI2BPSK-Outer_Full-36
@0-Ant1-12.95-14.580-≤15-PASS



1-N48-30-15-M-3-DFT-16QAM-Outer_Full-36
@0-Ant1-13.002-14.910-≤15-PASS



1-N48-30-15-M-4-DFT-64QAM-Outer_Full-36
@0-Ant1-12.982-14.820-≤15-PASS



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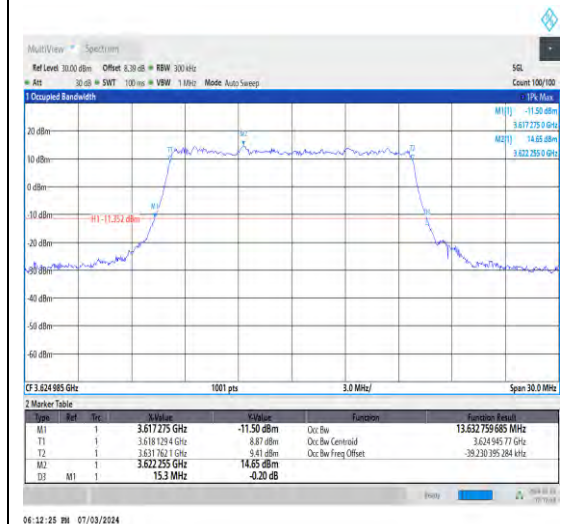
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1-N48-30-15-M-8-CP-64QAM-Outer_Full-38@0-Ant1-13.682-15.510-≤15-PASS



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1-N48-30-15-M-9-CP-256QAM-Outer_Full-38
@0-Ant1-13.654-15.300≤15-PASS



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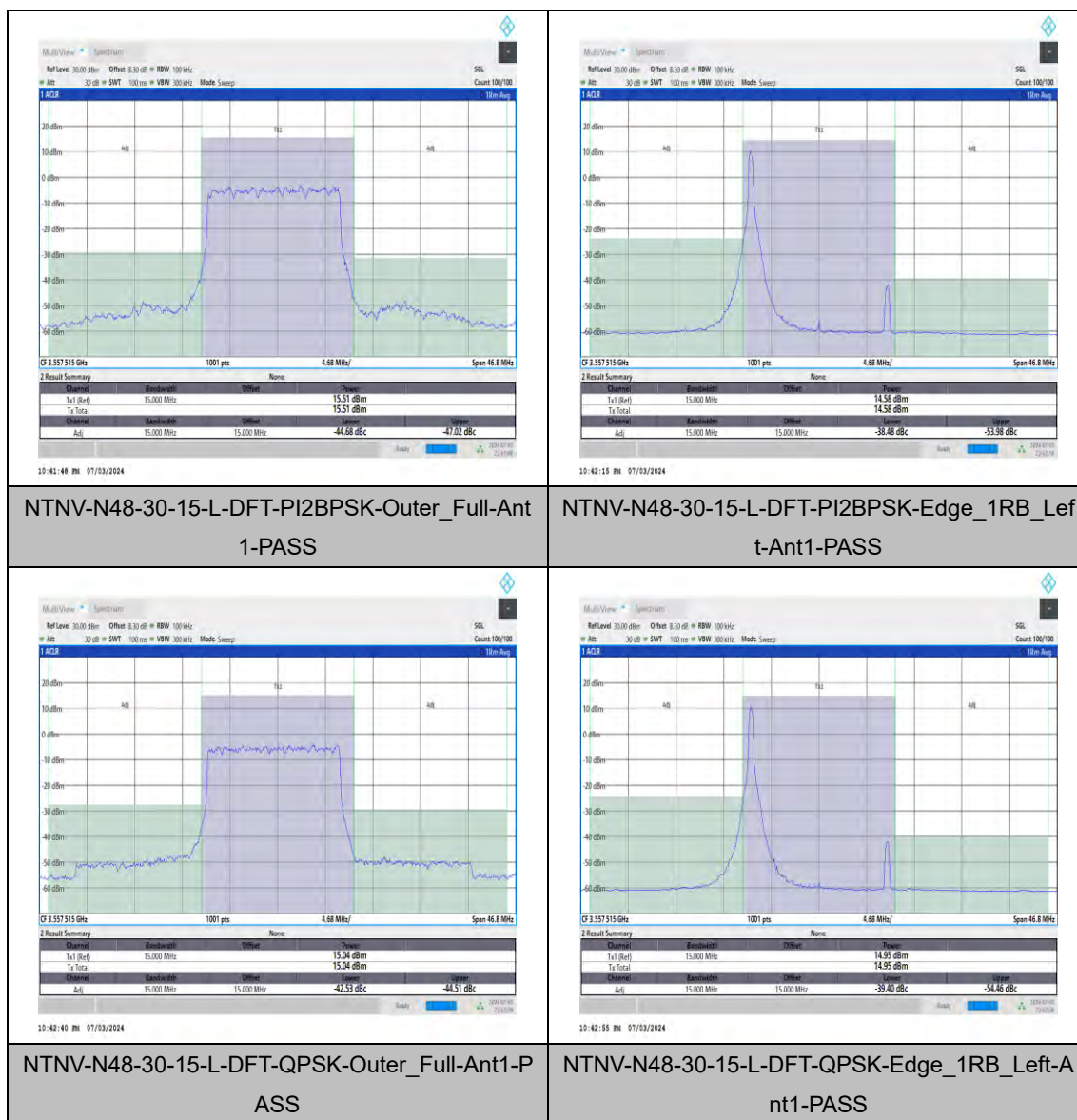
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Test Graphs



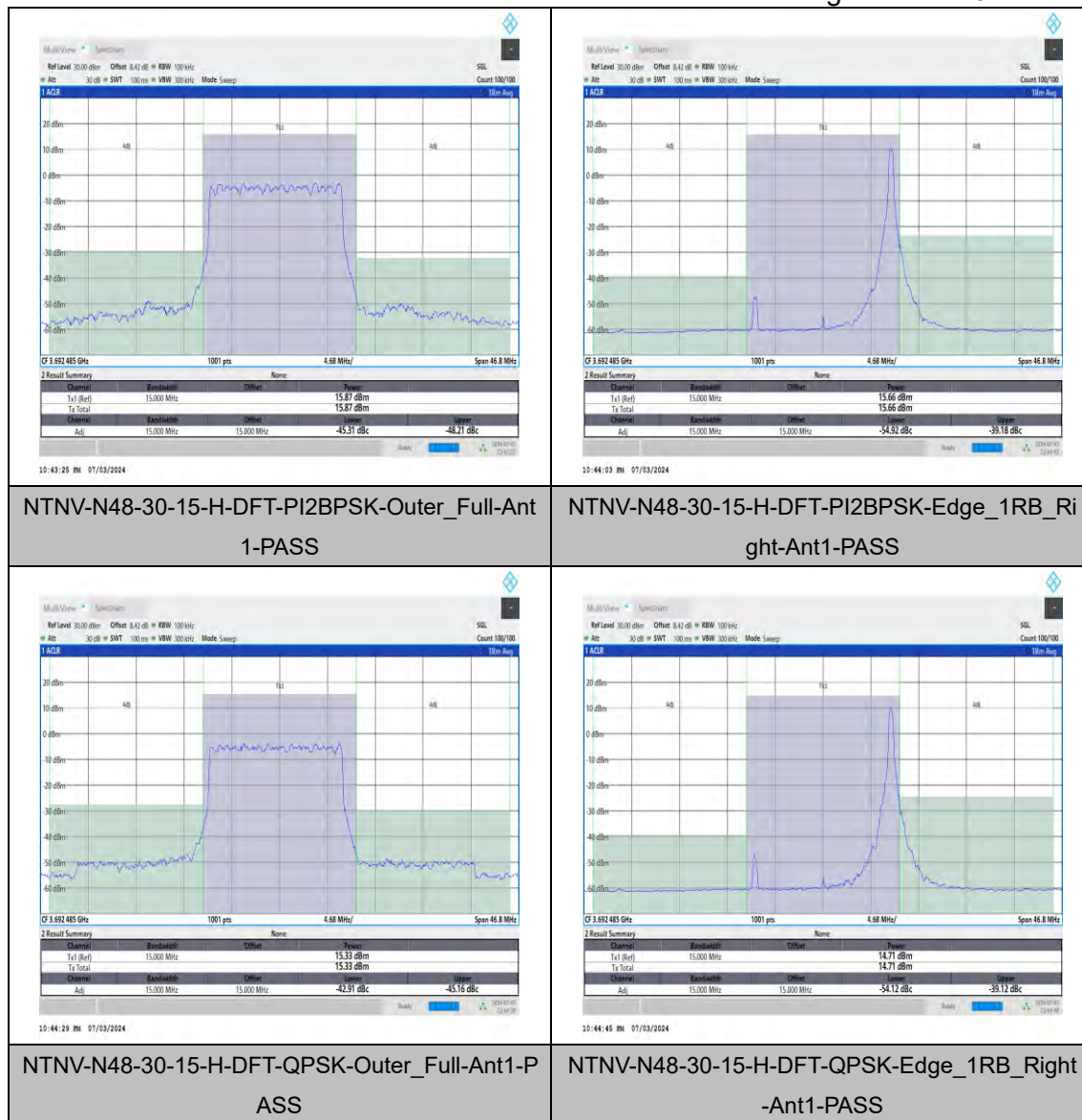
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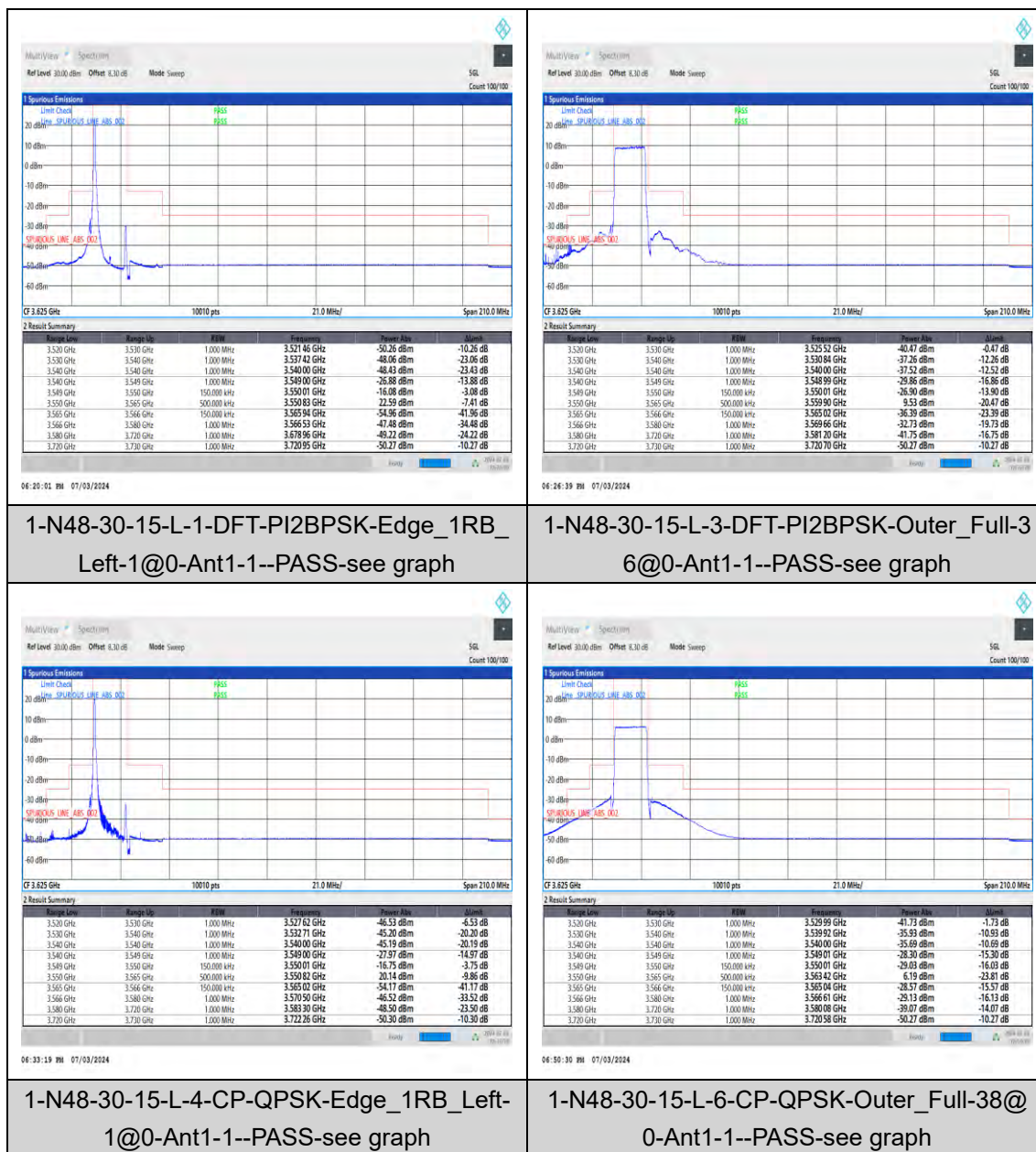
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Band Edge for SA

Test Graphs



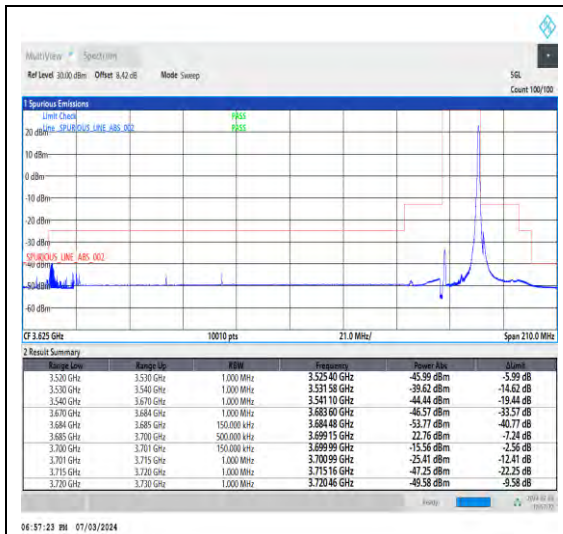
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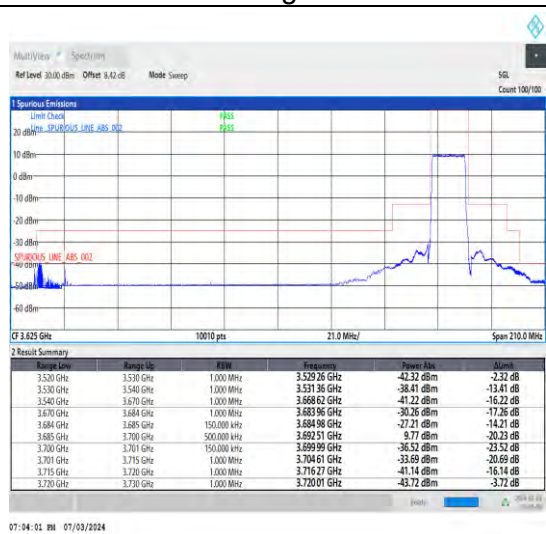
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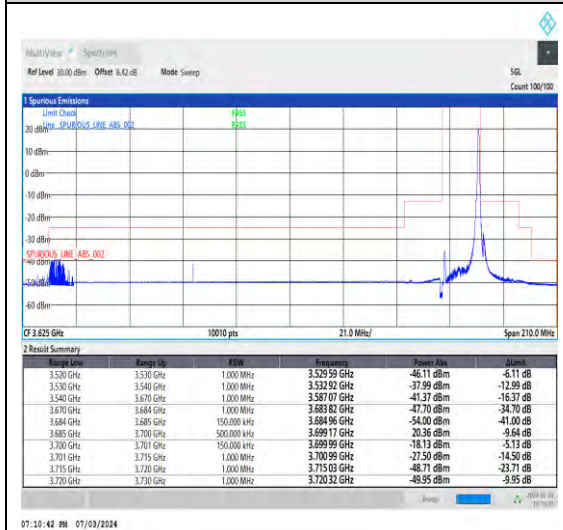
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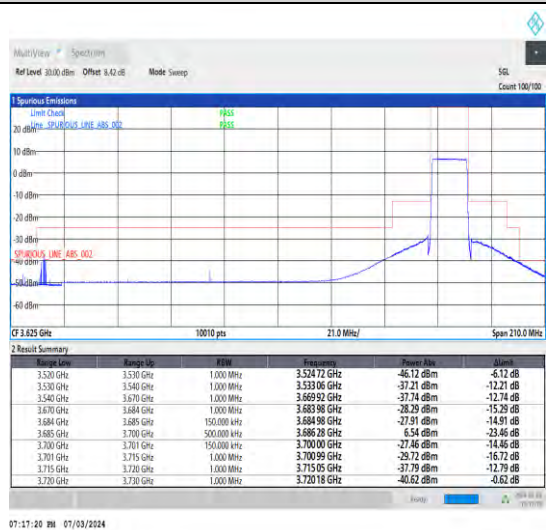
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1-N48-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant1-1--PASS-see graph



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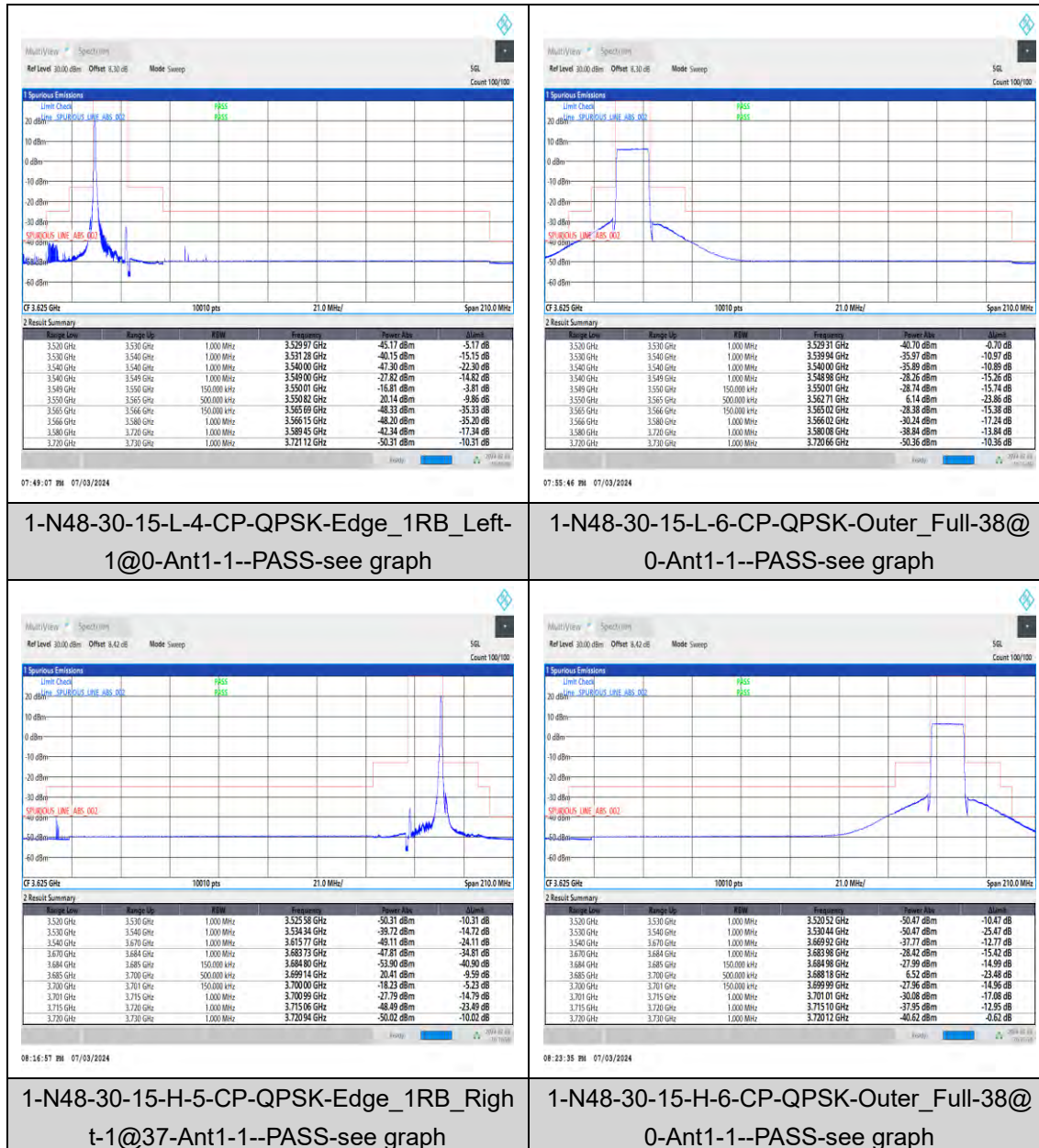
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Band Edge for SA For MIMO

Test Graphs



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Report No.: SUCR240400008902

Rev.: 01

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Field Strength of Spurious Radiation

For report SUCR240400009002:

Test Band = SA_n48_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7417.5	43.04	-38.43	36.74	-53.91	-40.00	13.91	Horizontal
2	9291.5	41.89	-35.91	37.17	-52.11	-40.00	12.11	Horizontal
3	11300.5	42.45	-35.25	40.10	-47.96	-40.00	7.96	Horizontal
4	14772.5	40.21	-30.61	41.68	-43.98	-40.00	3.98	Horizontal
5	16440	39.27	-28.33	39.00	-45.32	-40.00	5.32	Horizontal
6	17990.5	39.13	-39.76	48.03	-47.86	-40.00	7.86	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8760.5	41.63	-36.40	36.74	-53.29	-40.00	13.29	Vertical
2	10384.5	41.62	-35.43	39.18	-49.89	-40.00	9.89	Vertical
3	12723	42.87	-34.34	38.92	-47.81	-40.00	7.81	Vertical
4	14756	39.76	-30.25	41.73	-44.02	-40.00	4.02	Vertical
5	16439.5	39.22	-28.34	39.00	-45.38	-40.00	5.38	Vertical
6	17966.5	39.38	-39.74	47.60	-48.02	-40.00	8.02	Vertical



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Report No.: SUCR240400008902

Rev.: 01

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Test Band = SA_n48_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7264.5	43.19	-38.81	36.33	-54.55	-40.00	14.55	Horizontal
2	8492	41.27	-36.67	36.48	-54.18	-40.00	14.18	Horizontal
3	10046.5	41.42	-34.99	38.75	-50.08	-40.00	10.08	Horizontal
4	11419	42.22	-35.25	40.28	-48.01	-40.00	8.01	Horizontal
5	14702.5	40.64	-31.90	41.89	-44.63	-40.00	4.63	Horizontal
6	16484.5	39.64	-29.04	39.22	-45.44	-40.00	5.44	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7410.5	43.04	-38.46	36.72	-53.96	-40.00	13.96	Vertical
2	9113.5	40.58	-35.54	37.03	-53.19	-40.00	13.19	Vertical
3	11430	42.67	-35.30	40.27	-47.62	-40.00	7.62	Vertical
4	14778.5	40.27	-30.74	41.66	-44.07	-40.00	4.07	Vertical
5	16495	39.72	-29.29	39.28	-45.55	-40.00	5.55	Vertical
6	17970	39.57	-39.75	47.66	-47.78	-40.00	7.78	Vertical



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Report No.: SUCR240400008902

Rev.: 01

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Test Band = SA_n48_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7405.5	42.89	-38.49	36.71	-54.15	-40.00	14.15	Horizontal
2	8867.5	41.76	-36.25	36.77	-52.98	-40.00	12.98	Horizontal
3	11427.5	42.49	-35.29	40.27	-47.79	-40.00	7.79	Horizontal
4	14779	40.46	-30.75	41.66	-43.89	-40.00	3.89	Horizontal
5	16491	39.87	-29.19	39.26	-45.32	-40.00	5.32	Horizontal
6	17972	39.63	-39.75	47.70	-47.68	-40.00	7.68	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7172.5	43.49	-38.93	36.49	-54.21	-40.00	14.21	Vertical
2	8750.5	41.66	-36.35	36.80	-53.15	-40.00	13.15	Vertical
3	10895	41.88	-35.44	40.17	-48.65	-40.00	8.65	Vertical
4	12724	42.70	-34.33	38.92	-47.97	-40.00	7.97	Vertical
5	14756.5	40.53	-30.26	41.73	-43.26	-40.00	3.26	Vertical
6	16490.5	40.01	-29.18	39.25	-45.18	-40.00	5.18	Vertical



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Report No.: SUCR240400008902

Rev.: 01

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Test Band = SA_n48 MIMO_TM1
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6863	43.83	-39.49	35.55	-55.37	-40.00	15.37	Horizontal
2	8341	41.72	-37.03	36.32	-54.25	-40.00	14.25	Horizontal
3	10928.5	41.80	-35.56	40.17	-48.85	-40.00	8.85	Horizontal
4	13696	41.40	-33.09	40.20	-46.75	-40.00	6.75	Horizontal
5	16446	39.40	-28.26	39.03	-45.09	-40.00	5.09	Horizontal
6	17963.5	39.62	-39.74	47.54	-47.84	-40.00	7.84	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7427	42.80	-38.37	36.75	-54.08	-40.00	14.08	Vertical
2	9490.5	41.68	-35.51	37.74	-51.35	-40.00	11.35	Vertical
3	11398.5	42.10	-35.18	40.30	-48.04	-40.00	8.04	Vertical
4	14770	39.89	-30.56	41.69	-44.24	-40.00	4.24	Vertical
5	16600.5	39.83	-30.92	39.50	-46.85	-40.00	6.85	Vertical
6	17968	39.24	-39.74	47.62	-48.14	-40.00	8.14	Vertical



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Rev.: 01

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Test Band = SA_n48 MIMO_TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7182.5	43.20	-38.90	36.53	-54.43	-40.00	14.43	Horizontal
2	8842.5	41.72	-36.38	36.76	-53.16	-40.00	13.16	Horizontal
3	11290	41.88	-35.37	40.11	-48.64	-40.00	8.64	Horizontal
4	14747	40.26	-30.23	41.76	-43.47	-40.00	3.47	Horizontal
5	16487.5	39.70	-29.11	39.24	-45.43	-40.00	5.43	Horizontal
6	17972.5	39.67	-39.75	47.71	-47.63	-40.00	7.63	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7155.5	42.69	-38.98	36.42	-55.13	-40.00	15.13	Vertical
2	8761.5	42.09	-36.40	36.73	-52.84	-40.00	12.84	Vertical
3	11393.5	42.25	-35.23	40.29	-47.95	-40.00	7.95	Vertical
4	14748.5	39.60	-30.18	41.75	-44.09	-40.00	4.09	Vertical
5	16505.5	40.08	-29.47	39.31	-45.34	-40.00	5.34	Vertical
6	17974.5	38.97	-39.75	47.74	-48.30	-40.00	8.30	Vertical



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Rev.: 01

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Test Band = SA_n48 MIMO_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7798	42.01	-37.59	36.59	-54.25	-40.00	14.25	Horizontal
2	9350	42.22	-35.90	37.40	-51.54	-40.00	11.54	Horizontal
3	11521	42.04	-35.43	40.22	-48.43	-40.00	8.43	Horizontal
4	14753.5	39.92	-30.20	41.74	-43.80	-40.00	3.80	Horizontal
5	16452.5	39.11	-28.27	39.06	-45.36	-40.00	5.36	Horizontal
6	17988.5	39.16	-39.76	47.99	-47.87	-40.00	7.87	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7665	42.79	-38.09	36.66	-53.90	-40.00	13.90	Vertical
2	9343	42.20	-35.90	37.36	-51.60	-40.00	11.60	Vertical
3	11440	42.27	-35.34	40.26	-48.07	-40.00	8.07	Vertical
4	14771	39.96	-30.58	41.69	-44.19	-40.00	4.19	Vertical
5	16420.5	39.55	-28.56	38.90	-45.37	-40.00	5.37	Vertical
6	17970.5	39.45	-39.75	47.67	-47.89	-40.00	7.89	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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Report No.: SUCR240400008902

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For report SUCR240400008902:
Test Band = SA Band 48_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7662.9375	36.51	-37.47	36.76	-59.45	-40.00	19.45	Horizontal
2	9538.875	35.26	-33.76	37.76	-56.00	-40.00	16.00	Horizontal
3	12100.0208	31.62	-29.35	38.52	-54.47	-40.00	14.47	Horizontal
4	13652.0417	32.12	-28.98	40.06	-52.06	-40.00	12.06	Horizontal
5	16405.8125	30.63	-26.68	38.48	-52.83	-40.00	12.83	Horizontal
6	17842.8333	29.08	-24.18	40.92	-49.44	-40.00	9.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7101.8333	41.96	-37.80	36.12	-54.98	-40.00	14.98	Vertical
2	8727.1667	32.46	-35.14	37.46	-60.48	-40.00	20.48	Vertical
3	11301.25	29.47	-29.91	38.40	-57.30	-40.00	17.30	Vertical
4	13627.6042	30.38	-28.91	40.04	-53.75	-40.00	13.75	Vertical
5	15468.5625	29.51	-27.17	39.21	-53.71	-40.00	13.71	Vertical
6	17962.1458	28.84	-24.56	41.21	-49.77	-40.00	9.77	Vertical



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Test Band = SA Band 48_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7231.6875	39.87	-37.80	36.28	-56.91	-40.00	16.91	Horizontal
2	9464.125	32.55	-33.85	37.74	-58.82	-40.00	18.82	Horizontal
3	10847.4792	32.85	-30.69	38.32	-54.78	-40.00	14.78	Horizontal
4	13594.5417	31.36	-28.85	40.02	-52.73	-40.00	12.73	Horizontal
5	16671.75	29.77	-26.67	38.67	-53.49	-40.00	13.49	Horizontal
6	17851.4583	29.30	-24.27	40.94	-49.29	-40.00	9.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7232.1667	41.50	-37.79	36.28	-55.27	-40.00	15.27	Vertical
2	9007.4792	31.17	-34.52	37.60	-61.01	-40.00	21.01	Vertical
3	10847.9583	32.41	-30.69	38.32	-55.22	-40.00	15.22	Vertical
4	13589.2708	30.39	-28.87	40.01	-53.73	-40.00	13.73	Vertical
5	16819.8125	30.18	-26.01	38.77	-52.32	-40.00	12.32	Vertical
6	17849.5417	28.68	-24.25	40.94	-49.89	-40.00	9.89	Vertical



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Test Band = SA Band 48_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7362.0208	35.99	-37.67	36.43	-60.51	-40.00	20.51	Horizontal
2	8955.25	32.00	-34.86	37.58	-60.54	-40.00	20.54	Horizontal
3	11042.9792	31.86	-30.28	38.40	-55.28	-40.00	15.28	Horizontal
4	13066.9792	30.55	-29.67	39.65	-54.73	-40.00	14.73	Horizontal
5	15007.6042	29.90	-28.24	40.09	-53.52	-40.00	13.52	Horizontal
6	17667.9375	28.83	-24.48	40.50	-50.41	-40.00	10.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7362.0208	44.98	-37.67	36.43	-51.52	-40.00	11.52	Vertical
2	8972.0208	31.33	-34.72	37.59	-61.07	-40.00	21.07	Vertical
3	12013.2917	29.59	-29.65	38.42	-56.91	-40.00	16.91	Vertical
4	13657.7917	30.26	-29.00	40.06	-53.94	-40.00	13.94	Vertical
5	14997.0625	29.57	-28.21	40.10	-53.80	-40.00	13.80	Vertical
6	16850.9583	31.05	-25.90	38.80	-51.32	-40.00	11.32	Vertical



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Test Band = UL MIMO SA Band 48_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7777.4583	32.05	-37.06	36.88	-63.39	-40.00	23.39	Horizontal
2	9456.4583	31.11	-33.83	37.74	-60.25	-40.00	20.25	Horizontal
3	11079.3958	28.41	-30.17	38.40	-58.62	-40.00	18.62	Horizontal
4	12537.5	28.78	-29.73	39.04	-57.16	-40.00	17.16	Horizontal
5	14407.2083	29.60	-28.74	40.22	-54.18	-40.00	14.18	Horizontal
6	17771.4375	28.31	-23.93	40.75	-50.12	-40.00	10.12	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7101.8333	35.51	-37.80	36.12	-61.43	-40.00	21.43	Vertical
2	8798.0833	30.63	-34.91	37.50	-62.04	-40.00	22.04	Vertical
3	10316.5625	29.92	-32.00	38.06	-59.28	-40.00	19.28	Vertical
4	12953.8958	30.15	-29.88	39.54	-55.45	-40.00	15.45	Vertical
5	14440.75	29.84	-28.89	40.21	-54.10	-40.00	14.10	Vertical
6	17853.375	28.29	-24.29	40.95	-50.31	-40.00	10.31	Vertical



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Test Band = UL MIMO SA Band 48_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7848.8542	32.02	-36.85	36.95	-63.14	-40.00	23.14	Horizontal
2	9510.6042	32.28	-33.86	37.75	-59.09	-40.00	19.09	Horizontal
3	11246.1458	28.53	-30.13	38.40	-58.46	-40.00	18.46	Horizontal
4	13645.8125	29.83	-28.96	40.05	-54.34	-40.00	14.34	Horizontal
5	15011.9167	29.25	-28.27	40.08	-54.20	-40.00	14.20	Horizontal
6	17710.1042	29.16	-24.37	40.60	-49.86	-40.00	9.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7232.1667	39.63	-37.79	36.28	-57.14	-40.00	17.14	Vertical
2	8833.5417	30.54	-35.04	37.52	-62.24	-40.00	22.24	Vertical
3	10308.8958	29.82	-32.04	38.05	-59.42	-40.00	19.42	Vertical
4	11974.4792	29.15	-29.74	38.40	-57.45	-40.00	17.45	Vertical
5	13644.8542	29.43	-28.96	40.05	-54.74	-40.00	14.74	Vertical
6	16672.7083	29.36	-26.67	38.67	-53.90	-40.00	13.90	Vertical



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Test Band = UL MIMO SA Band 48_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7739.125	31.18	-37.19	36.84	-64.43	-40.00	24.43	Horizontal
2	9006.0417	30.78	-34.51	37.60	-61.39	-40.00	21.39	Horizontal
3	10686.4792	29.21	-31.10	38.24	-58.90	-40.00	18.90	Horizontal
4	12939.5208	30.37	-29.95	39.53	-55.31	-40.00	15.31	Horizontal
5	15508.8125	28.84	-26.97	39.13	-54.26	-40.00	14.26	Horizontal
6	17809.7708	28.48	-23.82	40.84	-49.76	-40.00	9.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7362.0208	38.24	-37.67	36.43	-58.26	-40.00	18.26	Vertical
2	9477.5417	31.23	-33.87	37.74	-60.15	-40.00	20.15	Vertical
3	11042.9792	30.62	-30.28	38.40	-56.52	-40.00	16.52	Vertical
4	13894.9792	29.71	-28.75	40.23	-54.07	-40.00	14.07	Vertical
5	15007.6042	28.96	-28.24	40.09	-54.46	-40.00	14.46	Vertical
6	17777.6667	27.76	-23.88	40.77	-50.61	-40.00	10.61	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
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.700000	-0.000469	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-1.500000	-0.000414	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.900000	-0.000248	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VH	NT	1.800000	0.000497	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VN	NT	-2.800000	-0.000772	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VL	NT	-2.400000	-0.000662	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.100000	-0.000579	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.400000	-0.000662	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.700000	-0.000469	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-3.700000	-0.001021	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.300000	-0.000634	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.800000	-0.000772	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	-2.200000	-0.000607	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.000000	-0.000276	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.900000	-0.000800	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	50	-3.100000	-0.000855	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-20	-4.300000	-0.001186	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-10	-1.400000	-0.000386	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	0	-3.800000	-0.001048	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	10	-1.500000	-0.000414	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	20	-3.700000	-0.001021	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	30	-1.900000	-0.000524	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	40	-4.000000	-0.001103	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-30	3.200000	0.000883	PASS

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