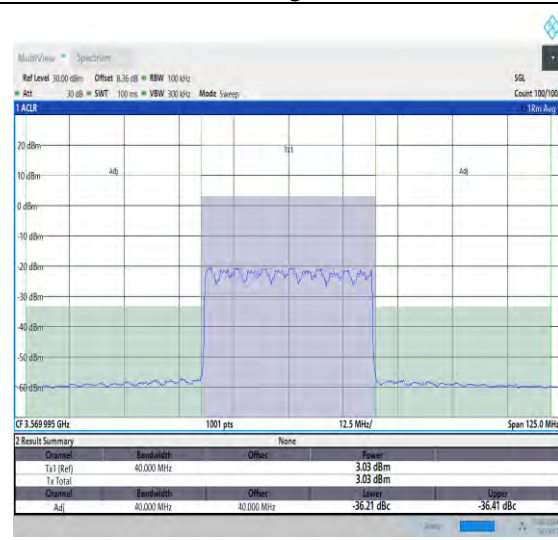
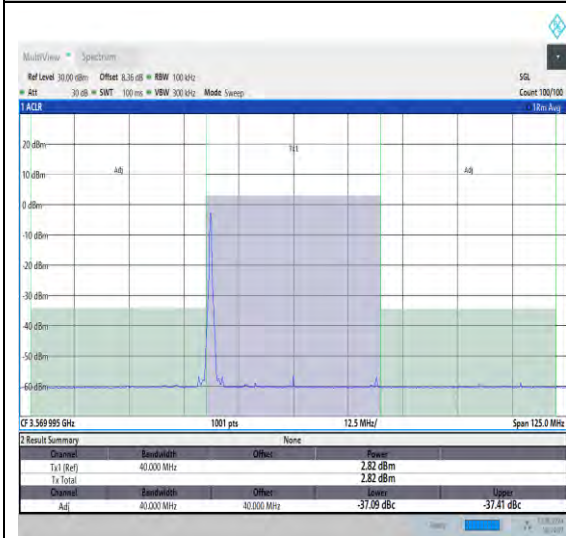


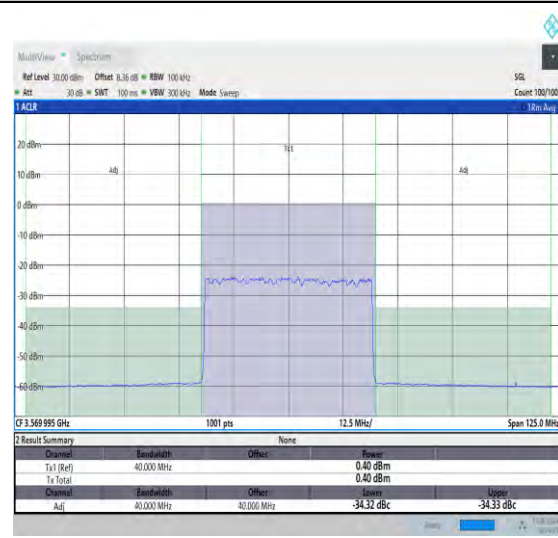
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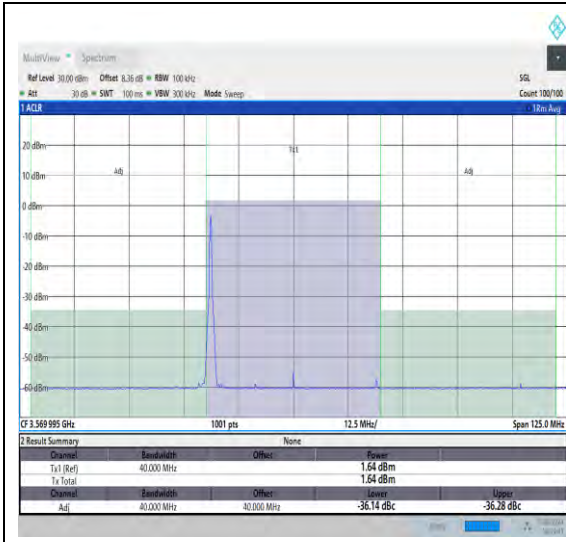
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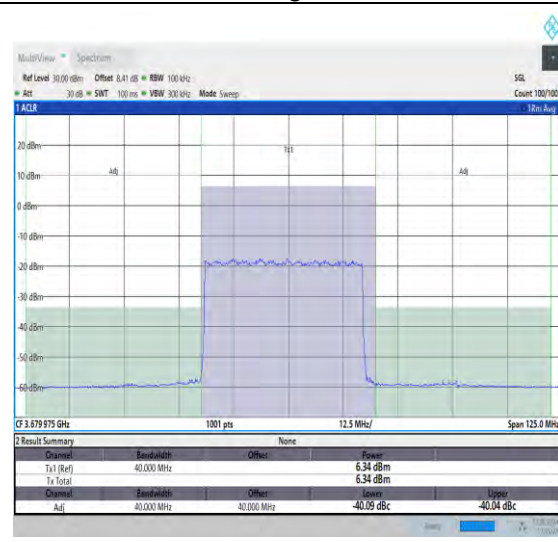
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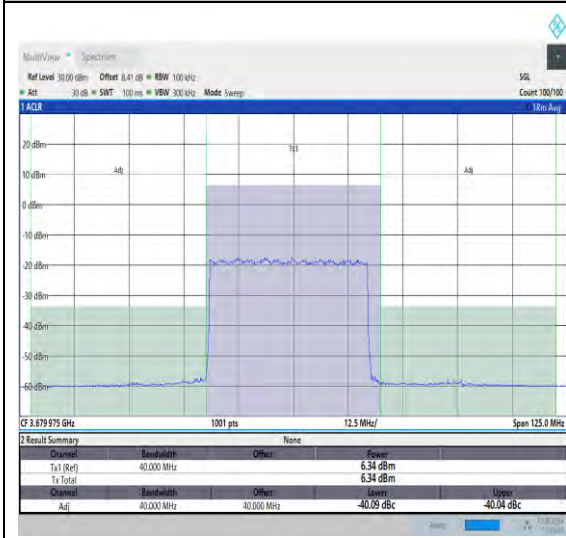
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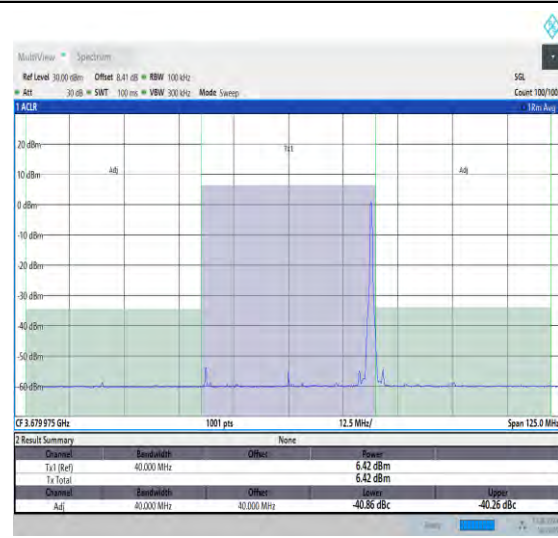
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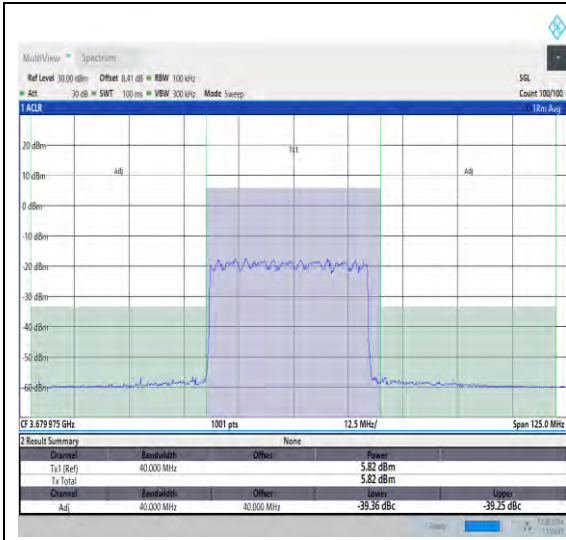
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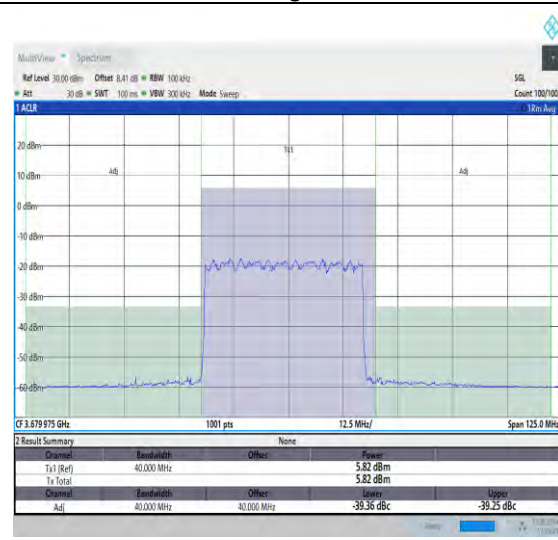
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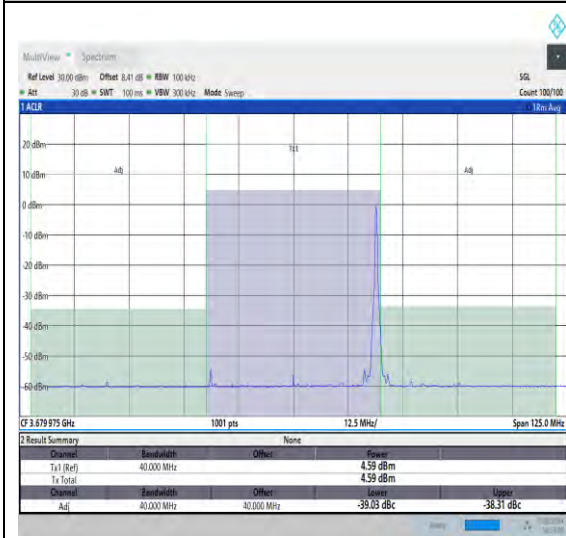
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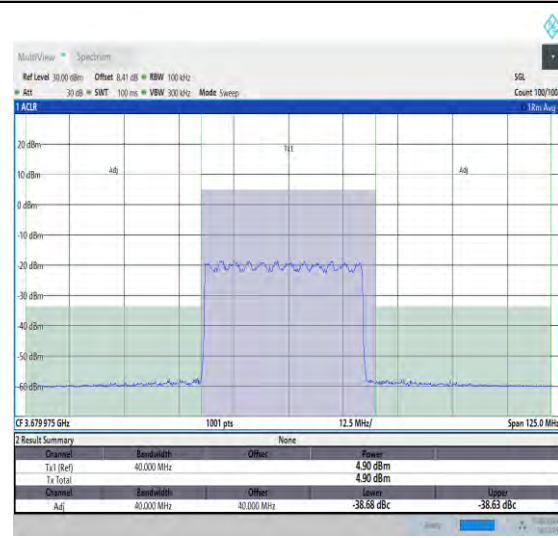
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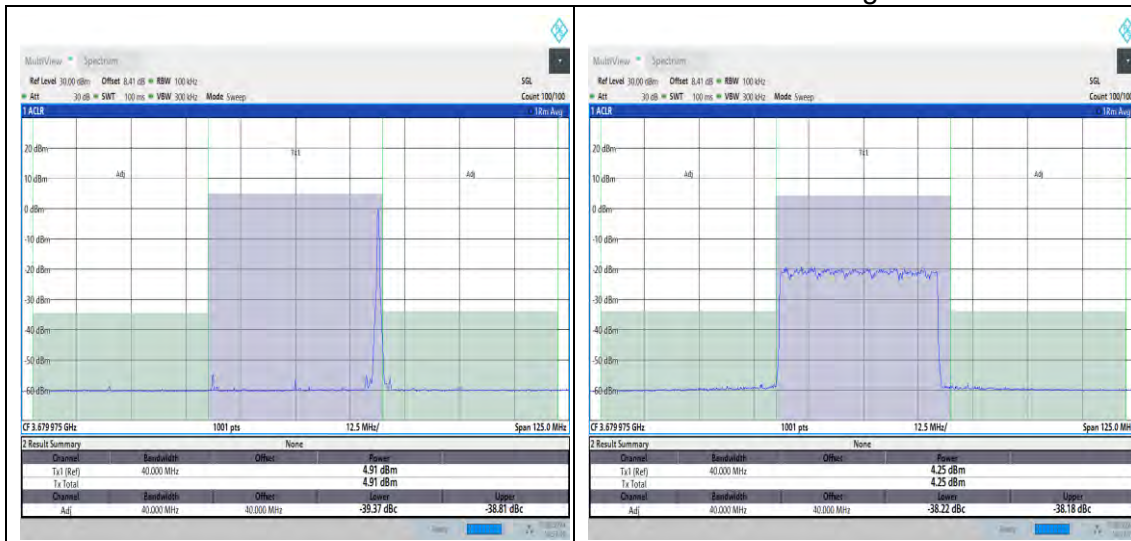
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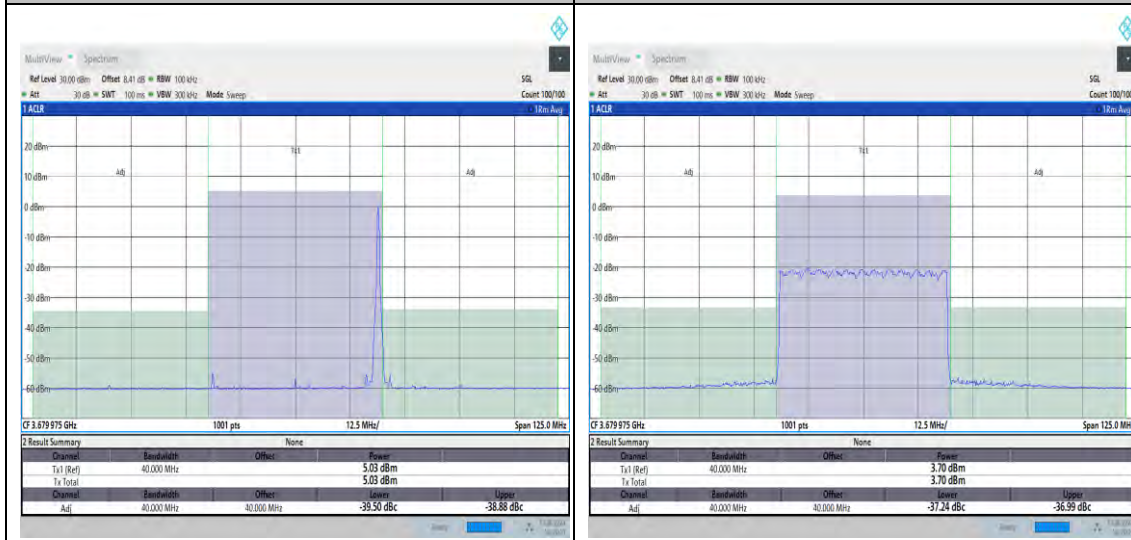
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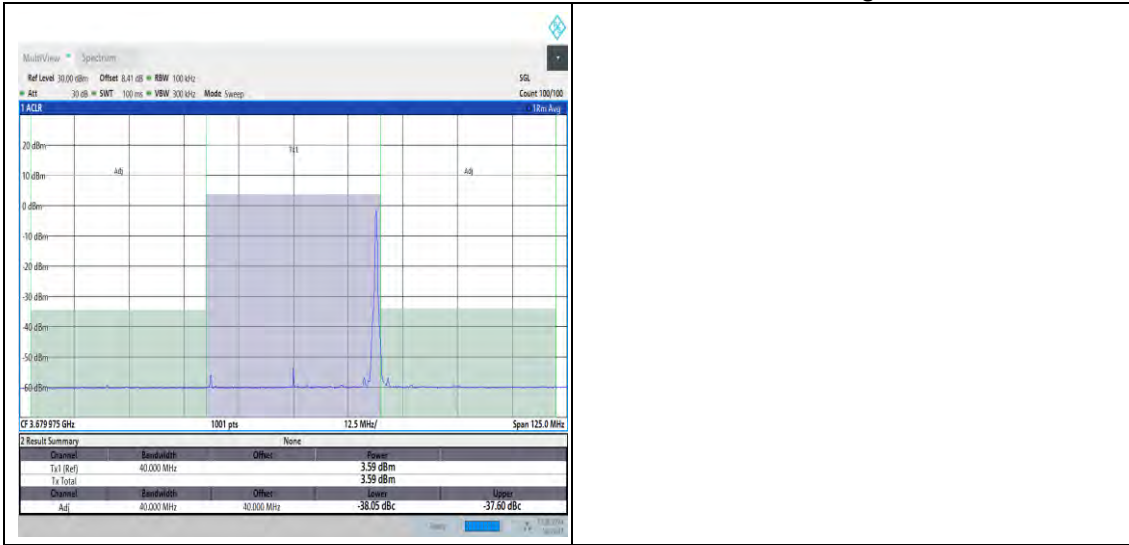
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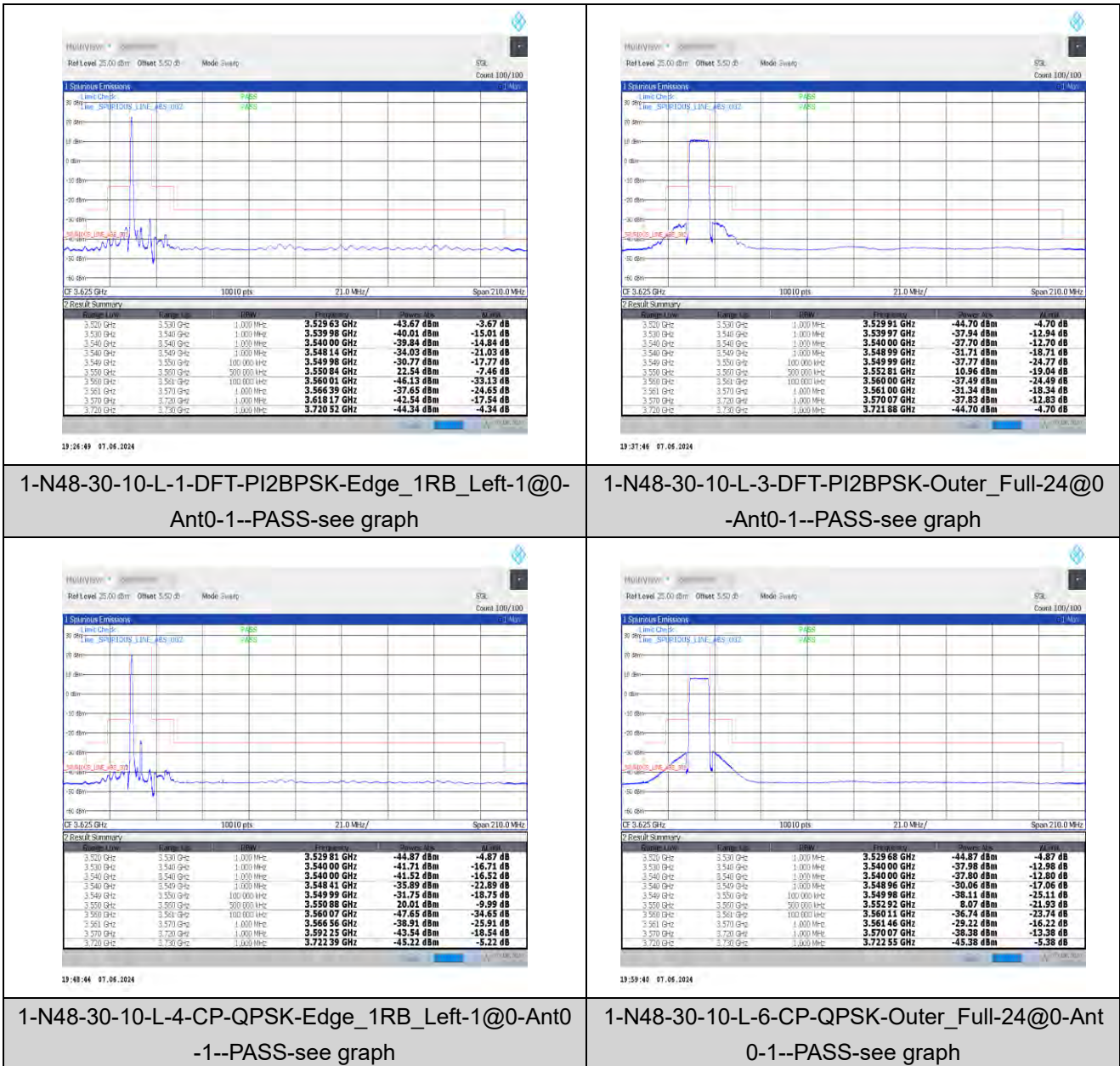
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Band Edge for SA

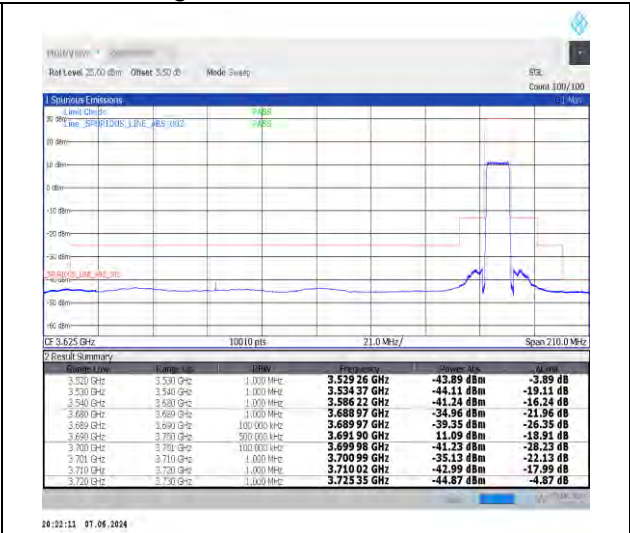
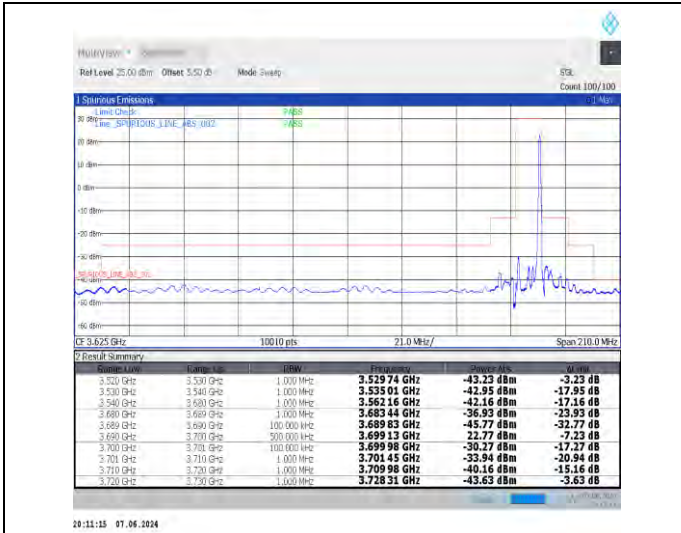
Test Graphs



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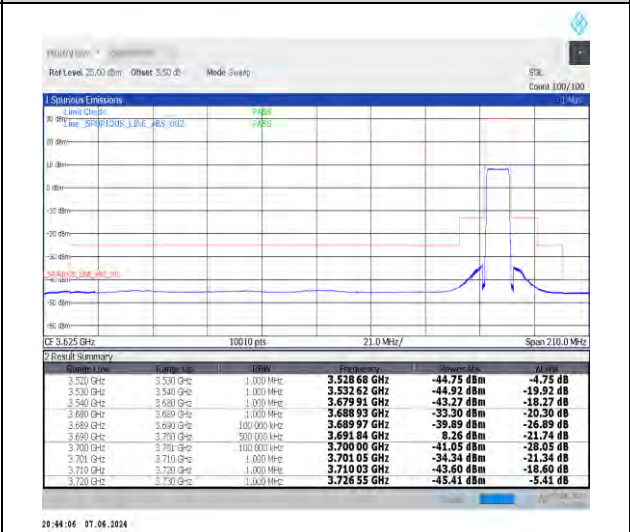
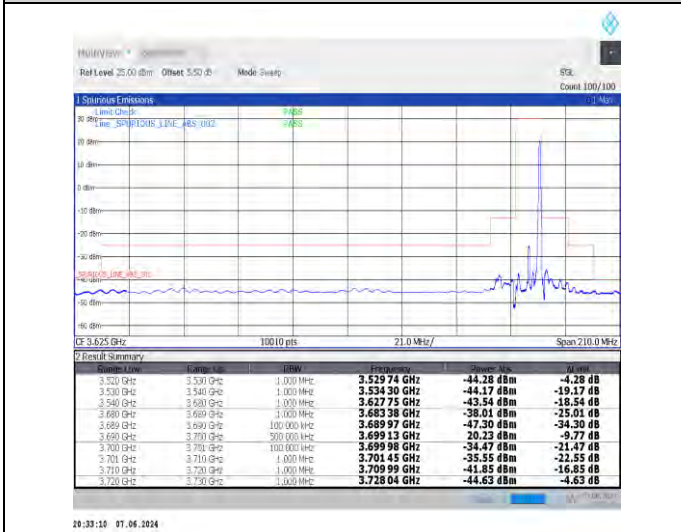
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1-N48-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@23-Ant0-1--PASS-see graph

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



1-N48-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant0-1--PASS-see graph

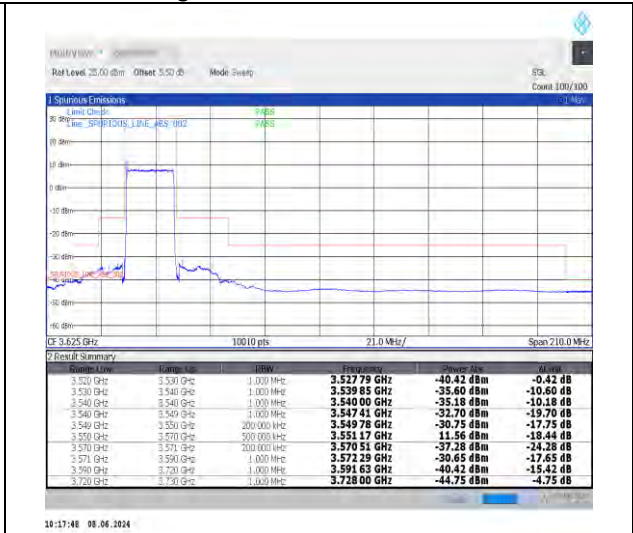
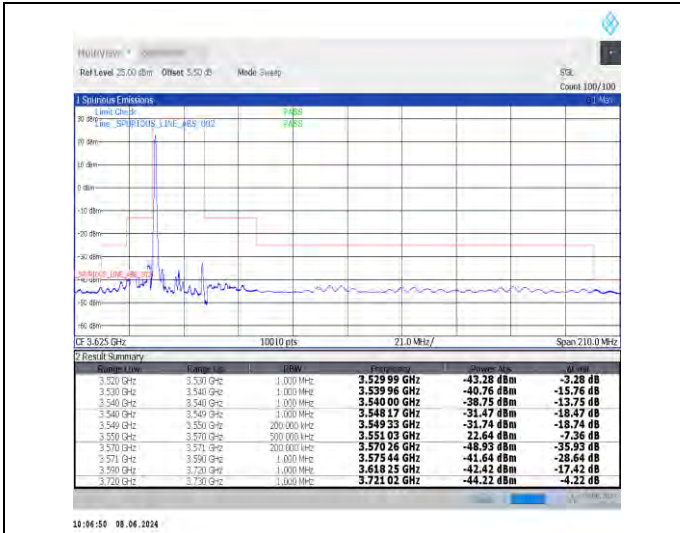
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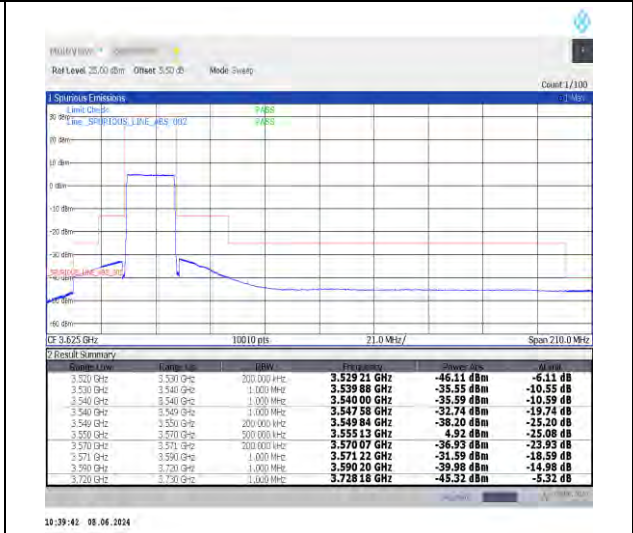
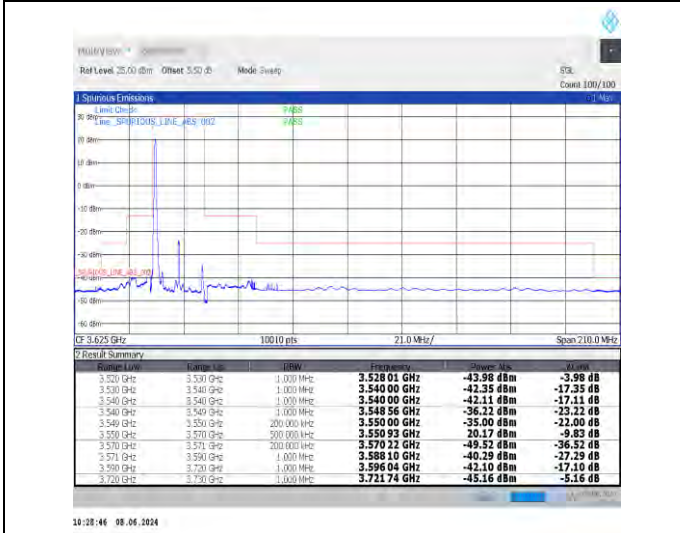
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1-N48-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

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

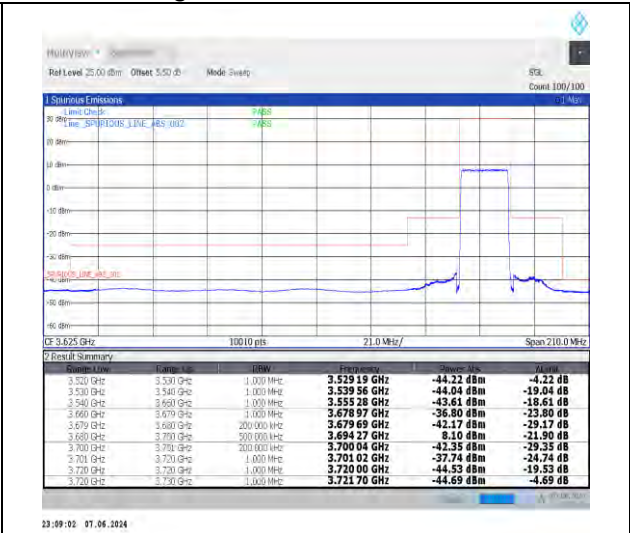
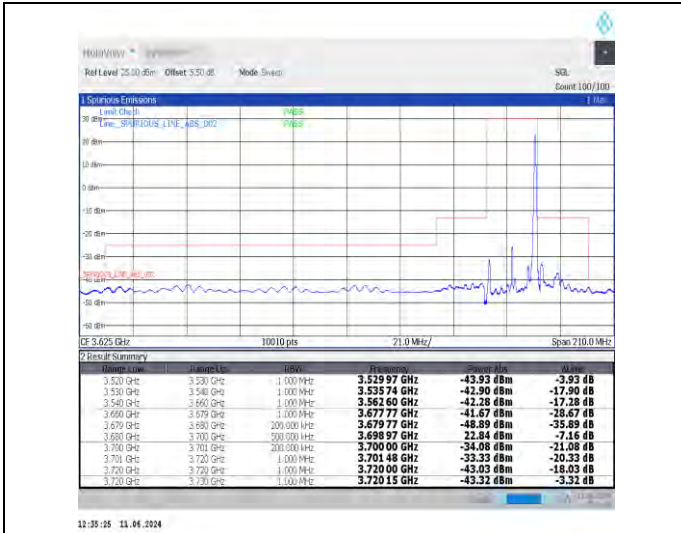
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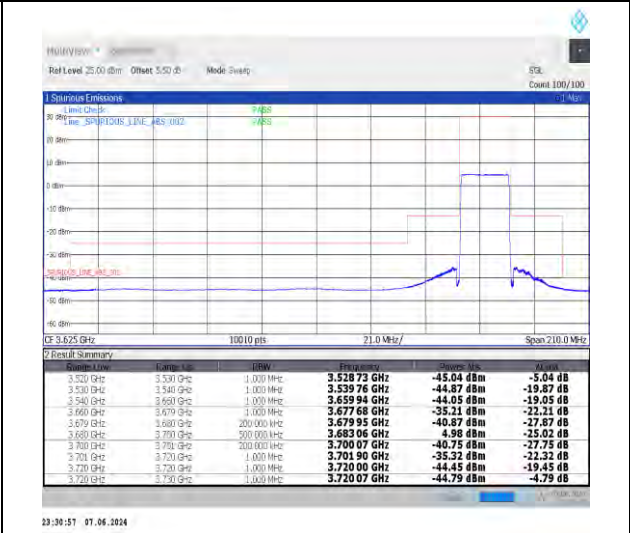
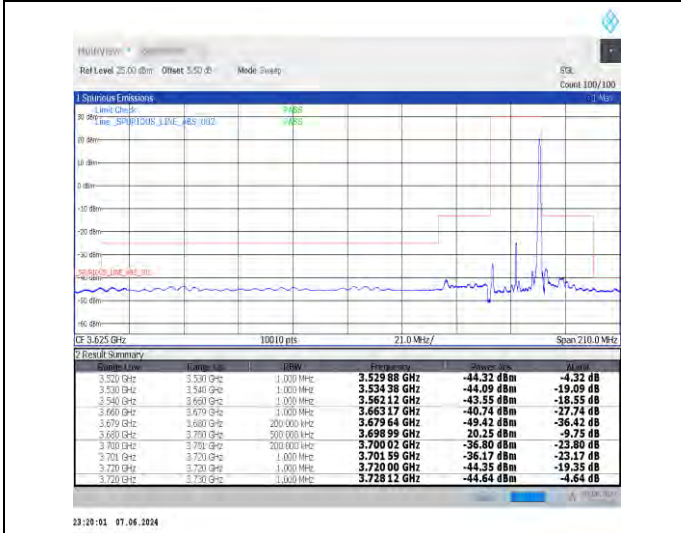
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1-N48-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-1--PASS-see graph



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

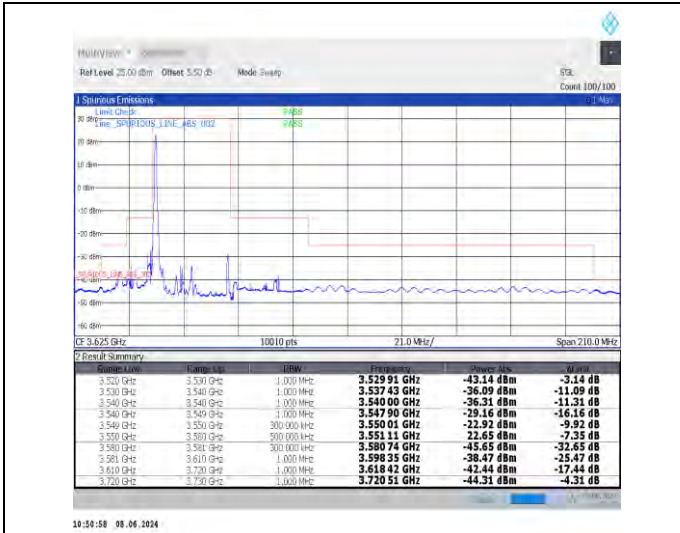
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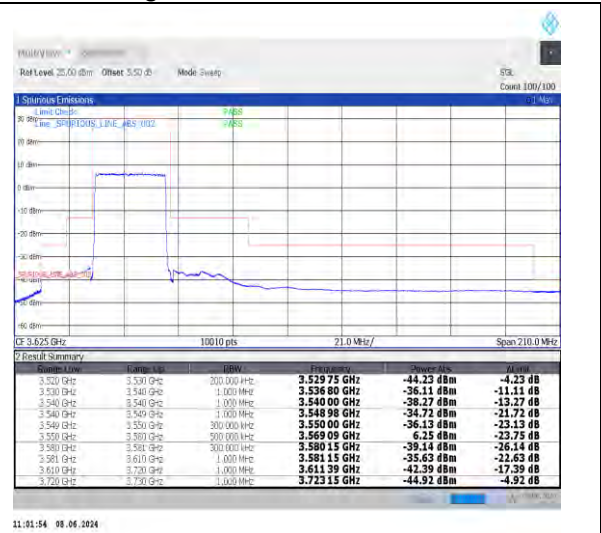
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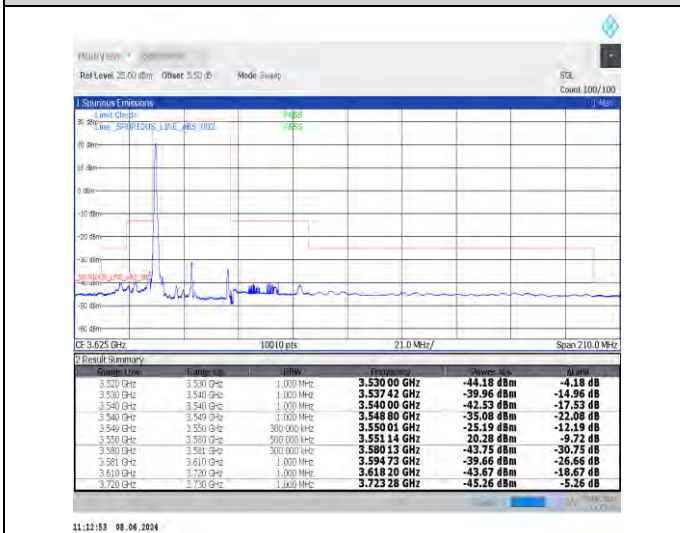
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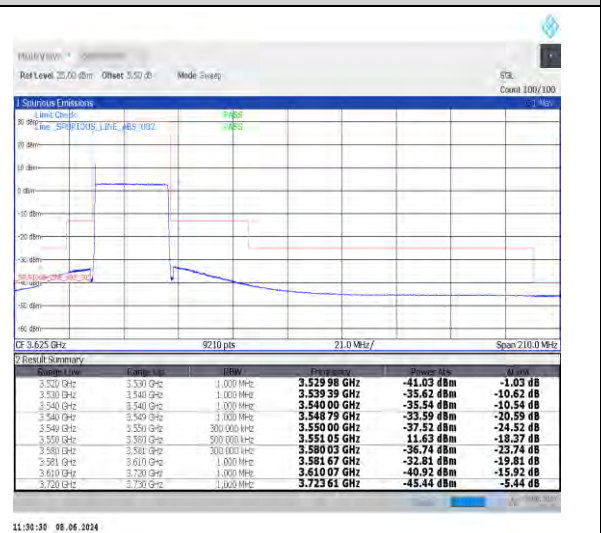
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1-N48-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1--PASS-see graph



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



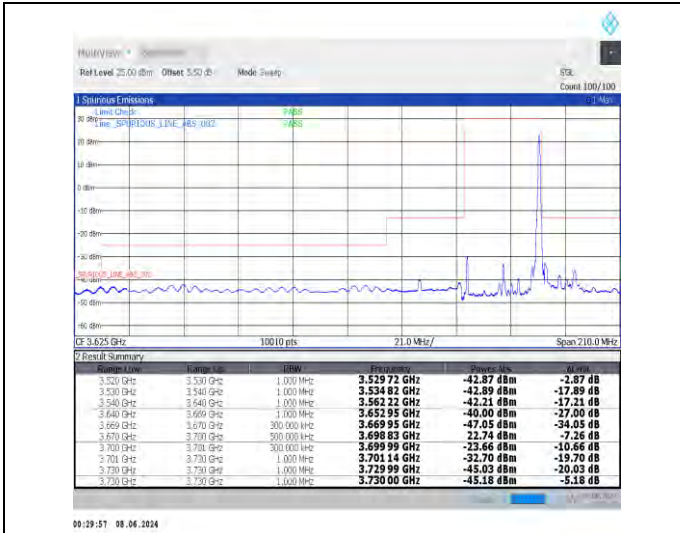
1-N48-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant0-1--PASS-see graph



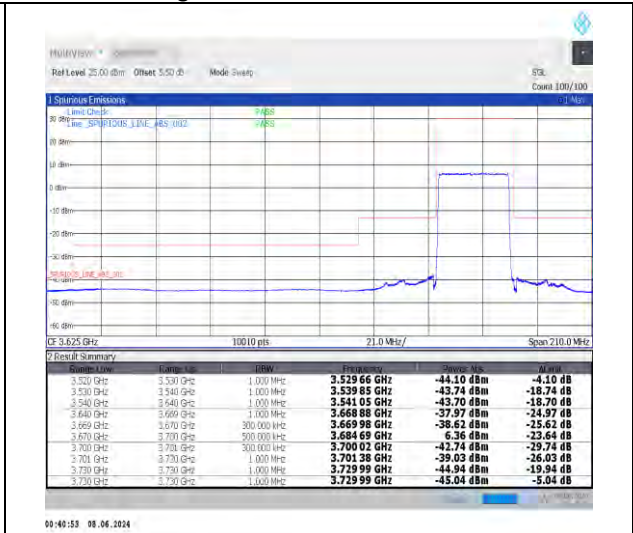
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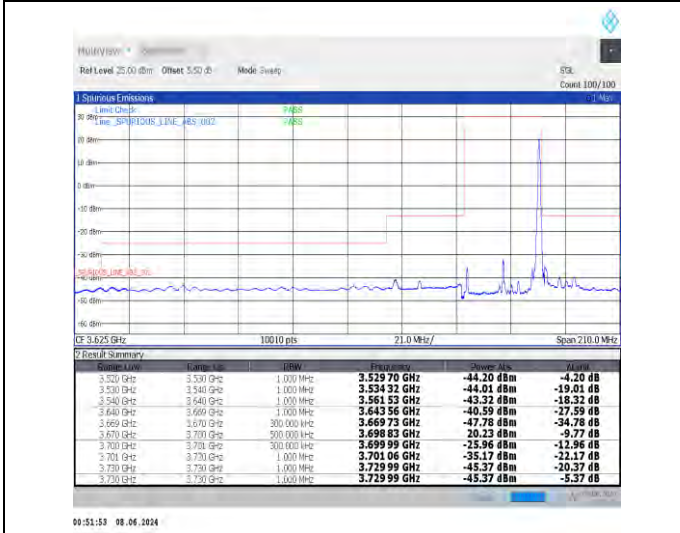
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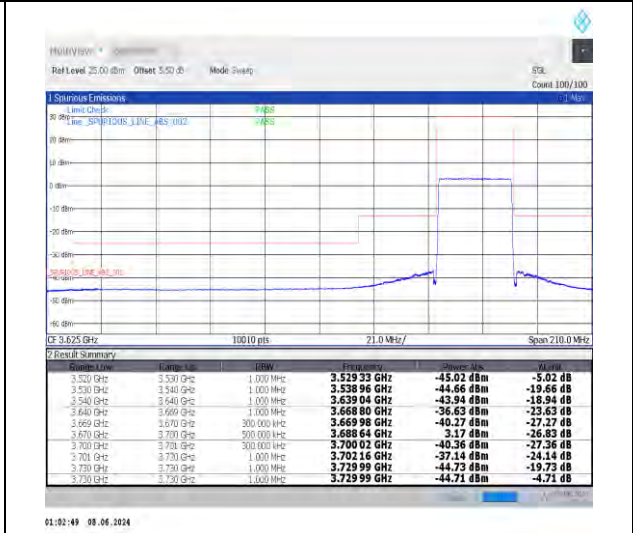
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1-N48-30-30-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1--PASS-see graph



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



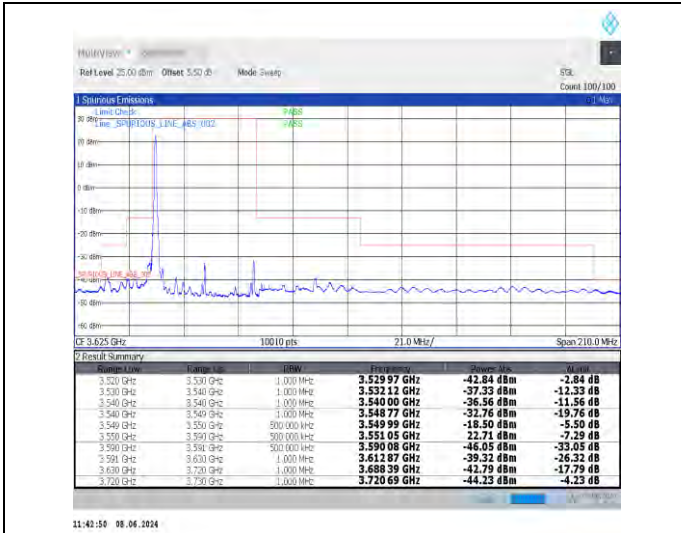
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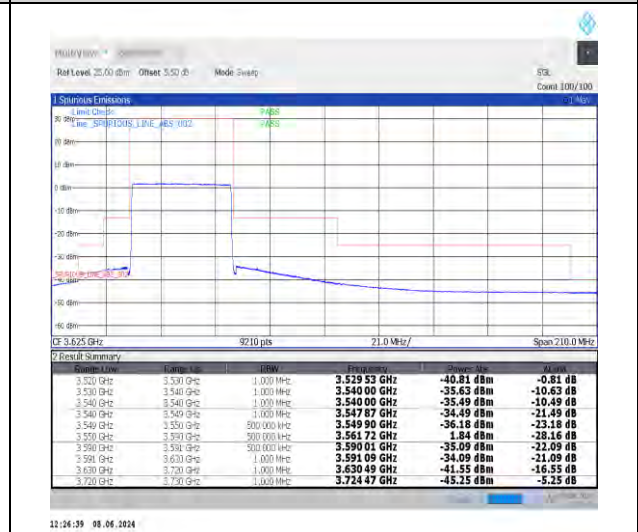
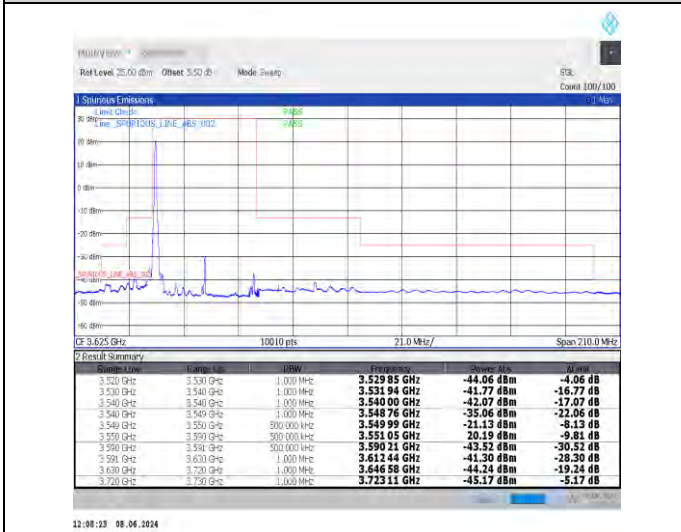
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1-N48-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

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



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

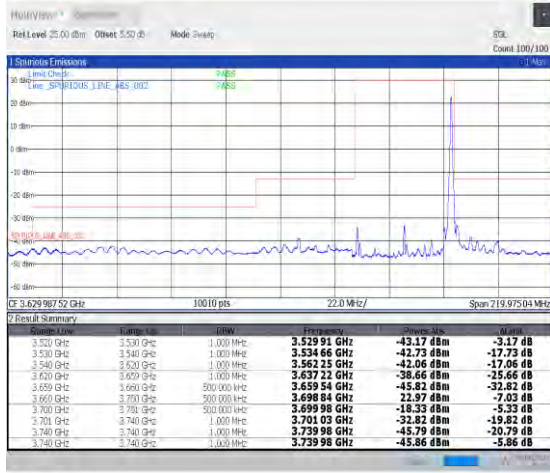
1-N48-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant0-1--PASS-see graph



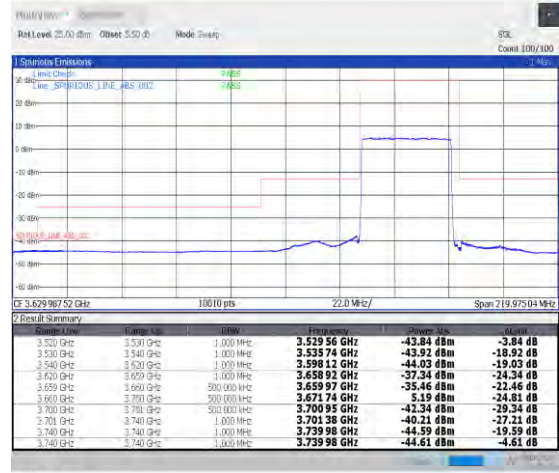
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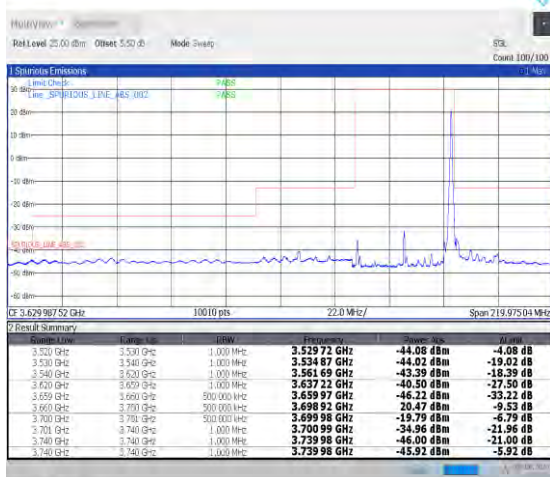
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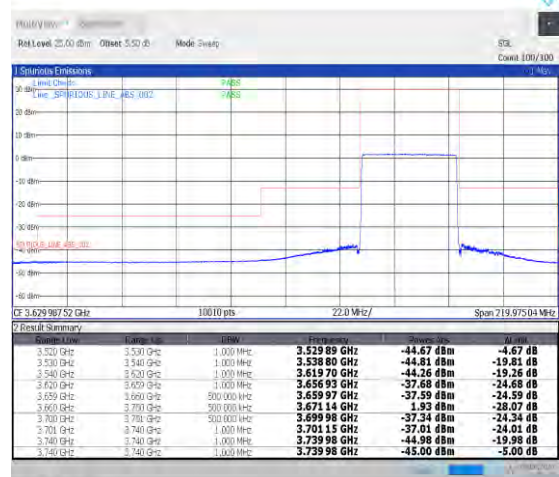
1-N48-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant0-1--PASS-see graph



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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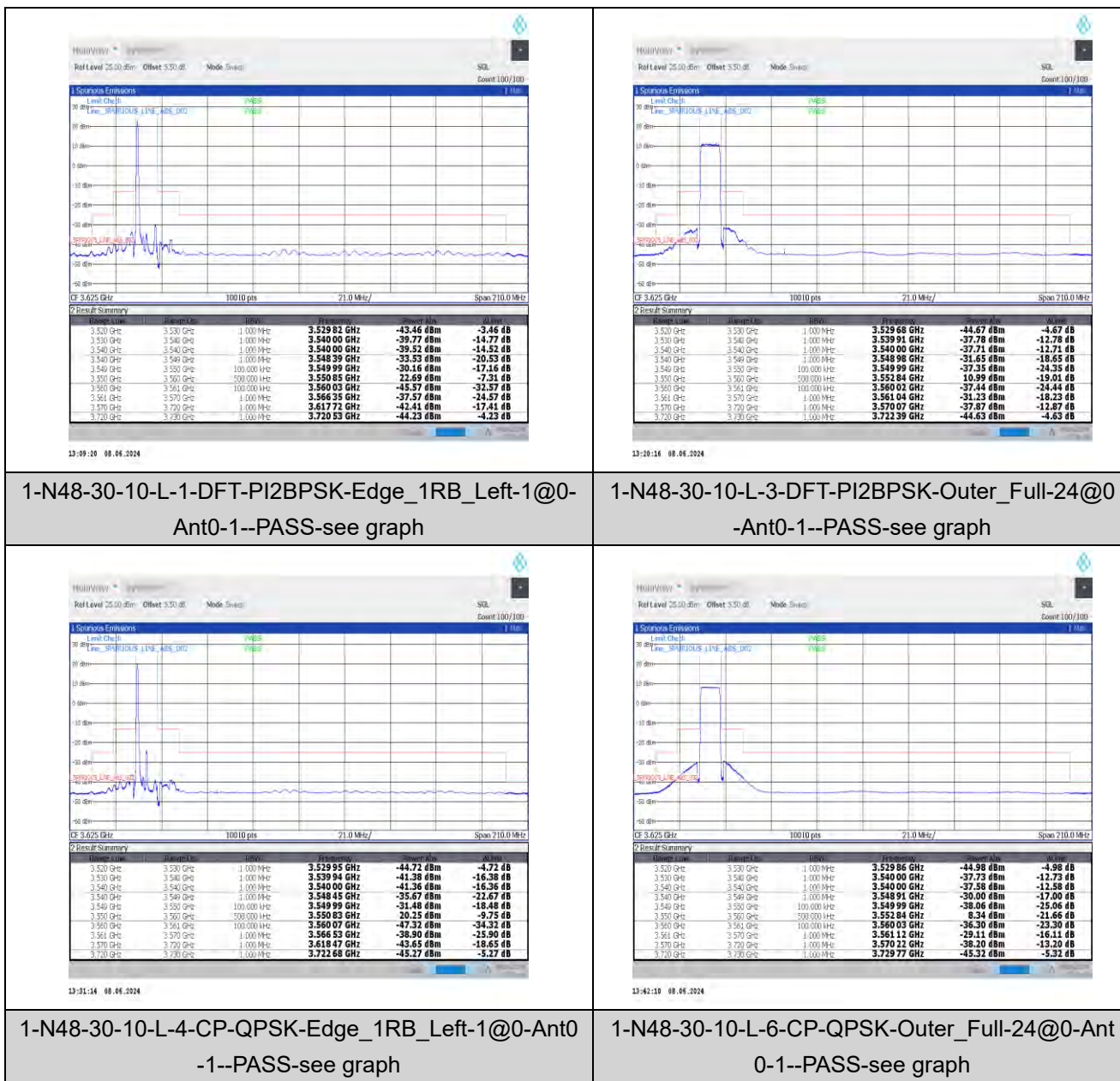
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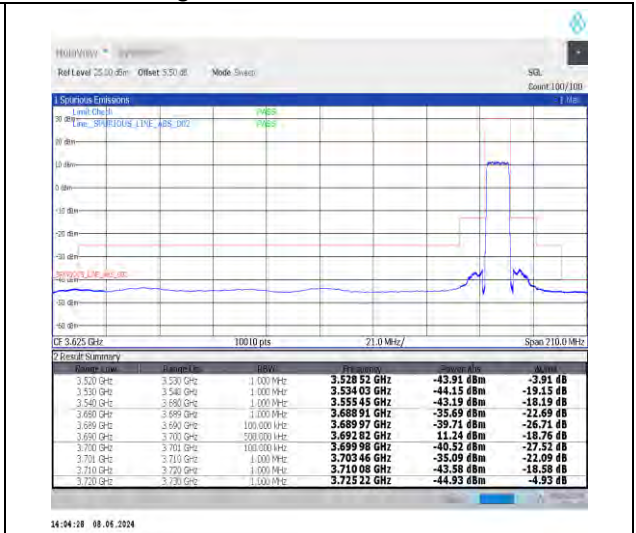
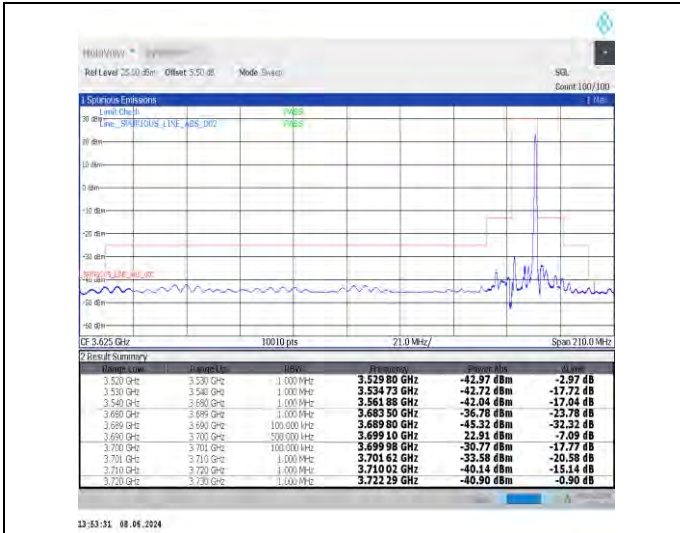
Test Graphs



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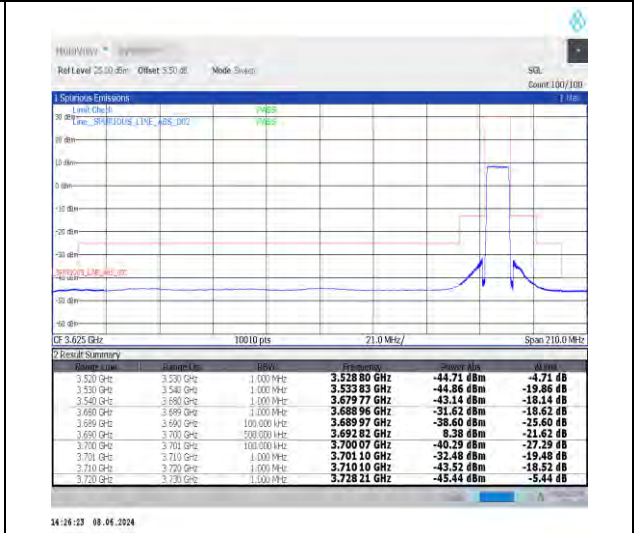
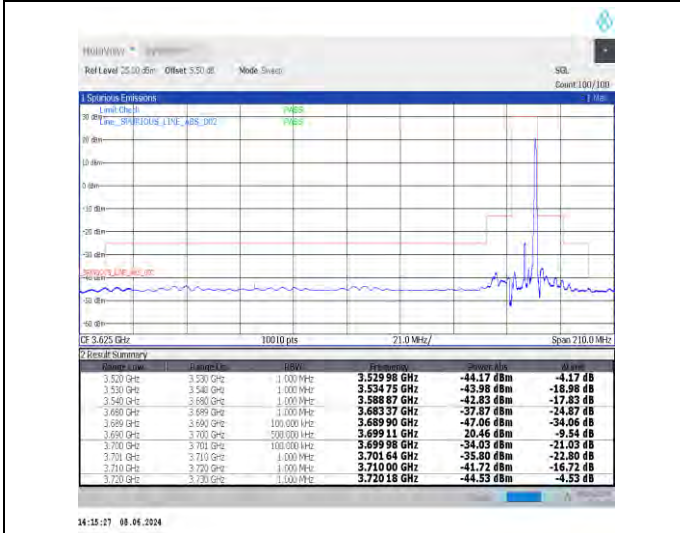
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1-N48-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@23-Ant0-1--PASS-see graph

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



1-N48-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant0-1--PASS-see graph

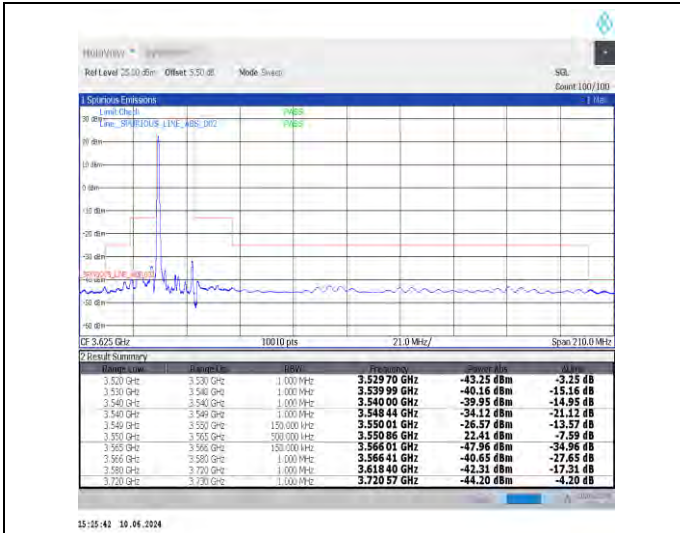
1-N48-30-10-H-6-CP-QPSK-Outer_Full-24@0-Ant0-1--PASS-see graph



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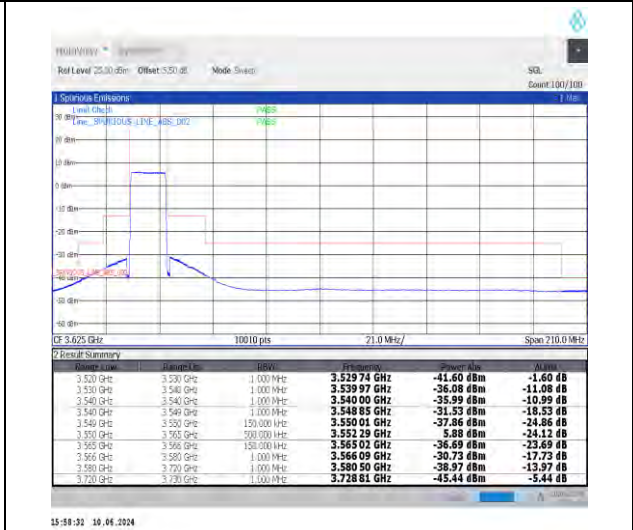
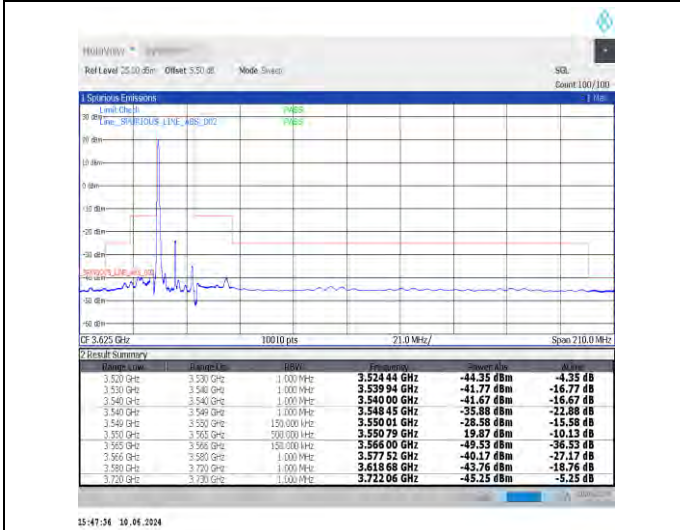
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1-N48-30-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

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



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

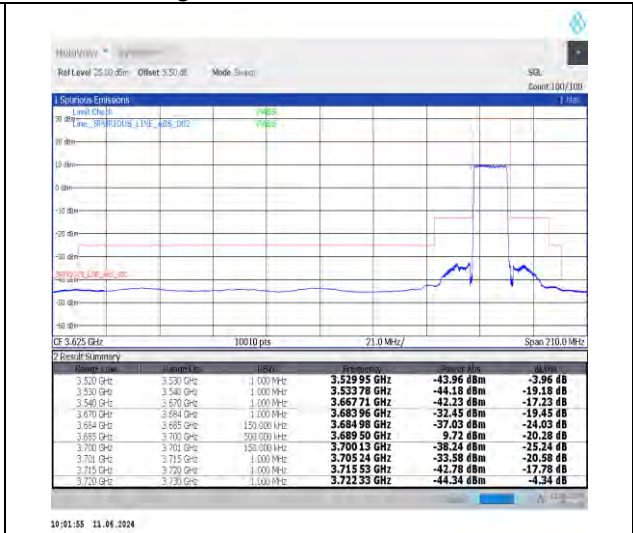
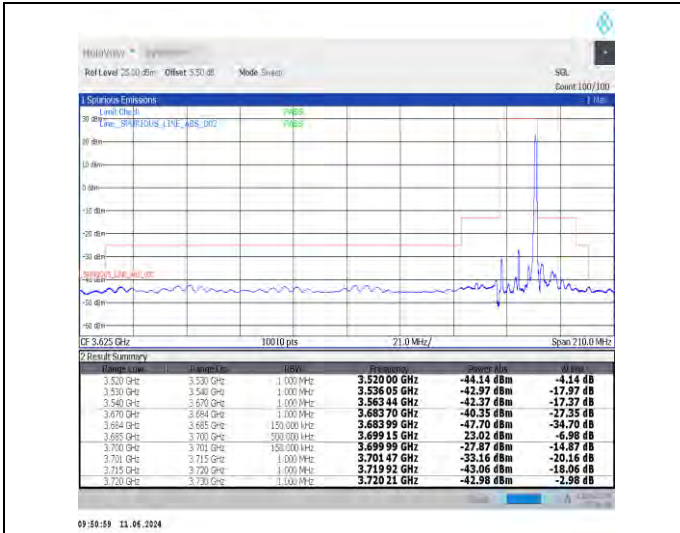
1-N48-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant0-1--PASS-see graph



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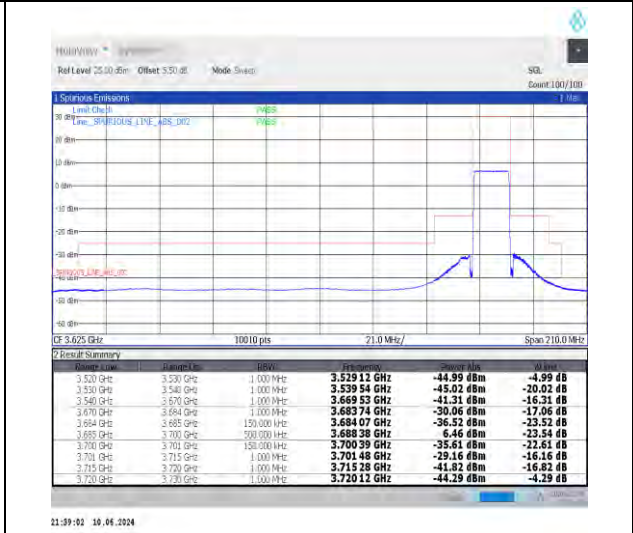
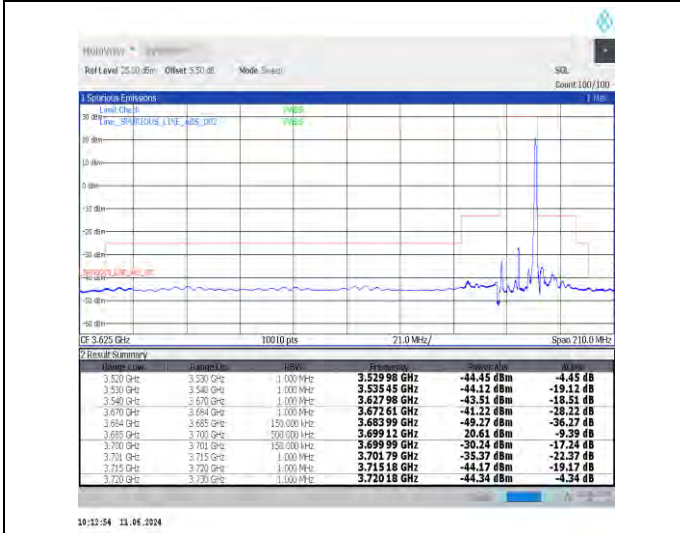
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1-N48-30-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@37-Ant0-1--PASS-see graph

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-Ant0-1--PASS-see graph

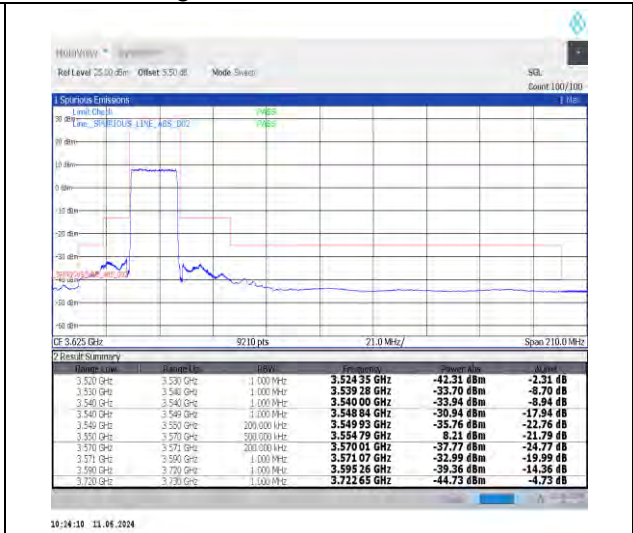
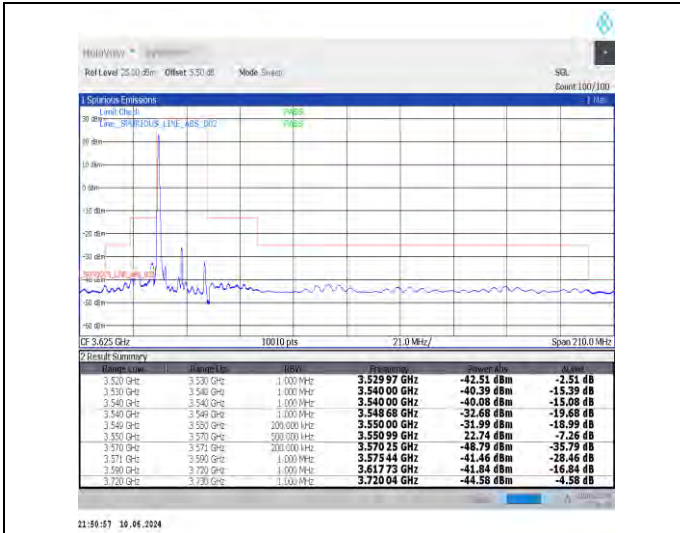
1-N48-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant0-1--PASS-see graph



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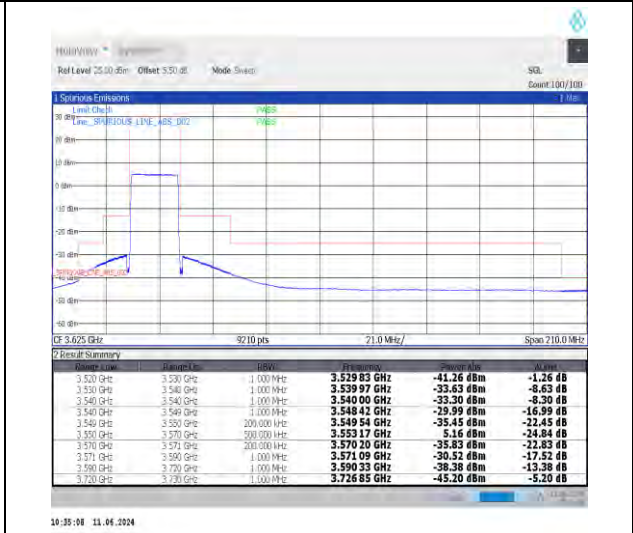
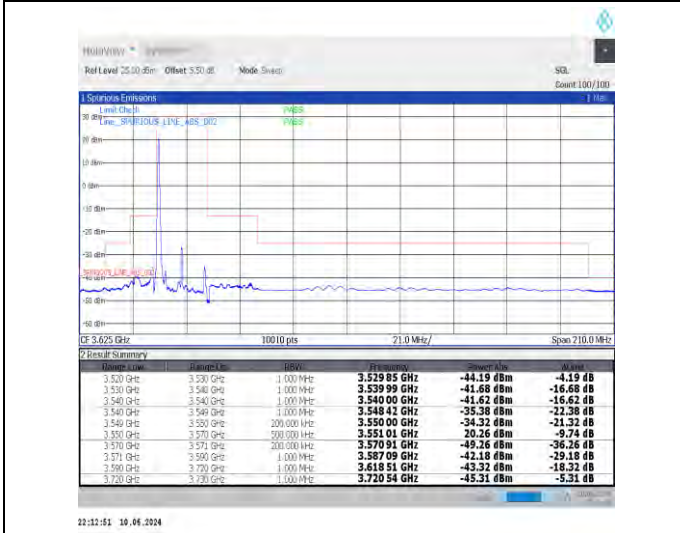
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1-N48-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

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

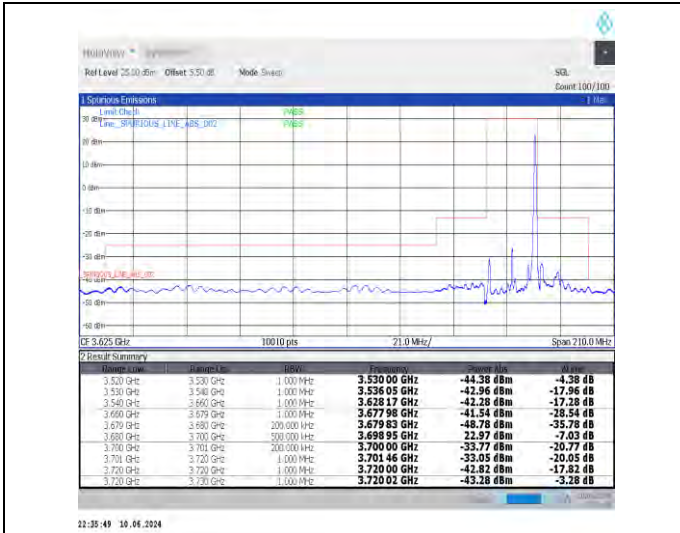
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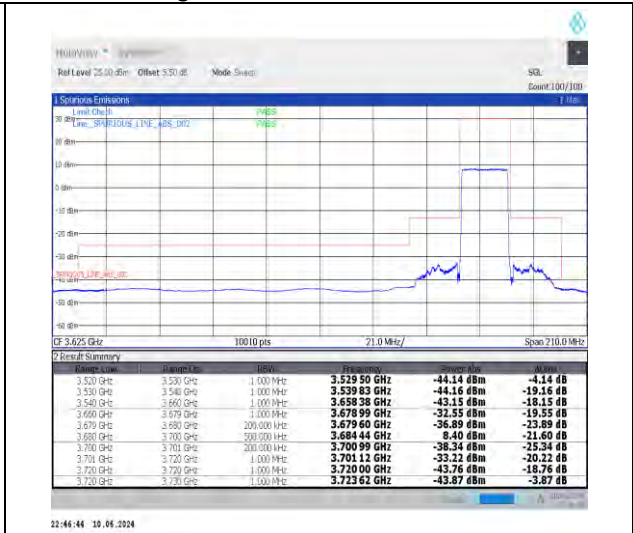
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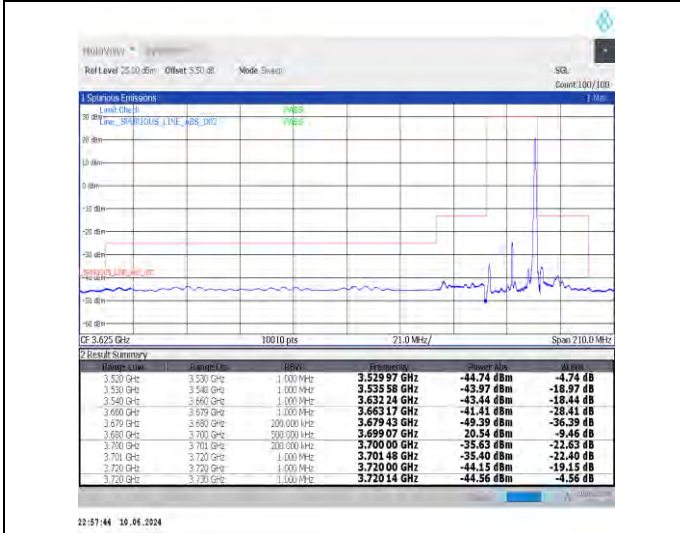
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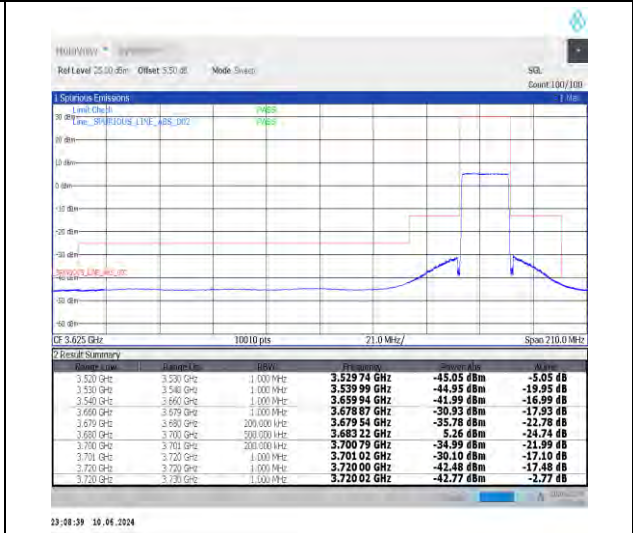
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1-N48-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-1--PASS-see graph



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



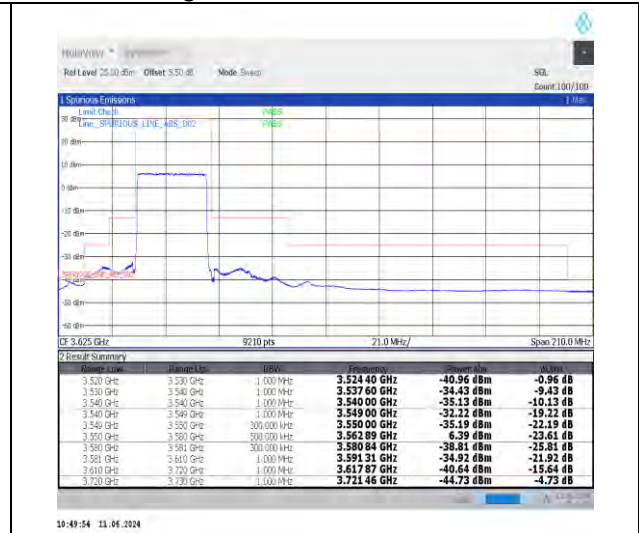
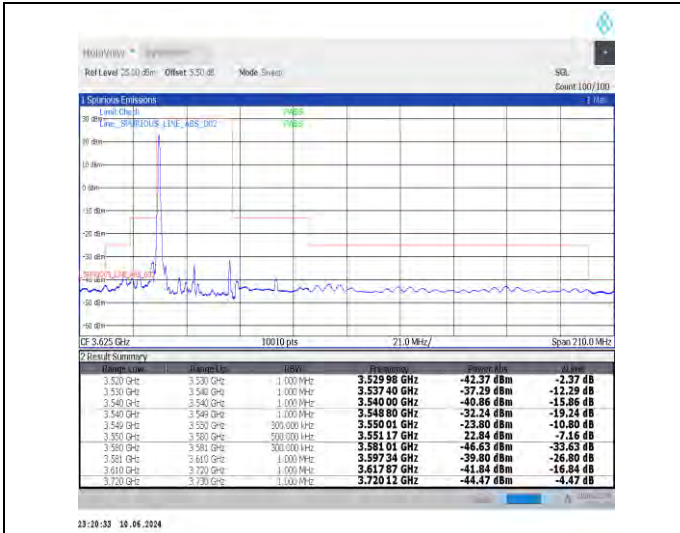
1-N48-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant0-1--PASS-see graph



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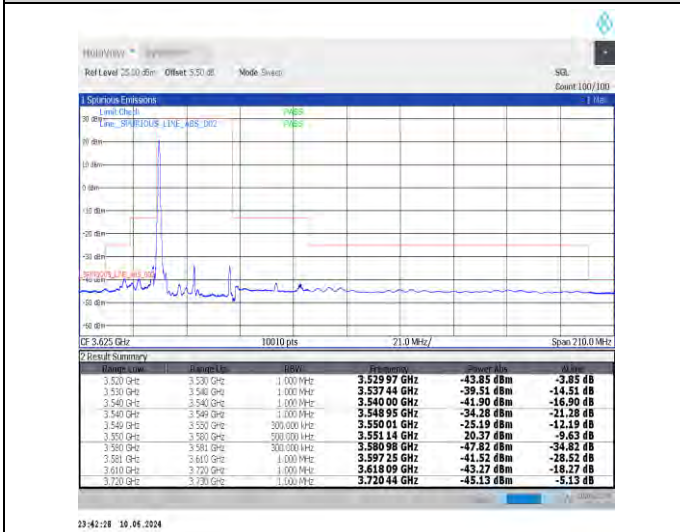
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1-N48-30-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

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

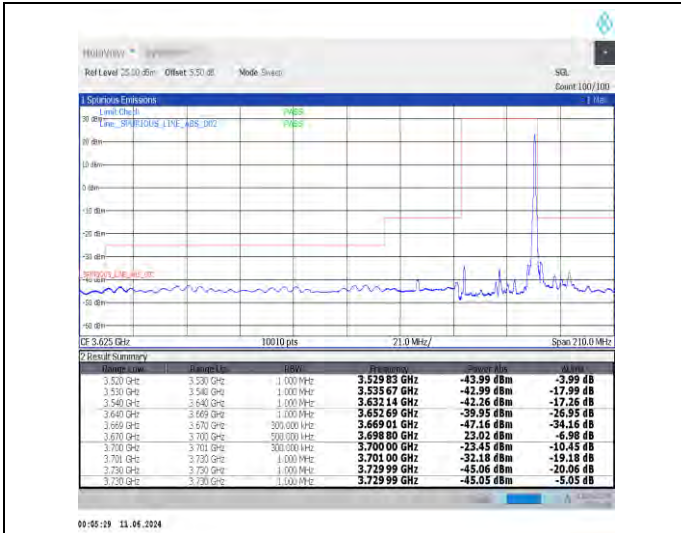
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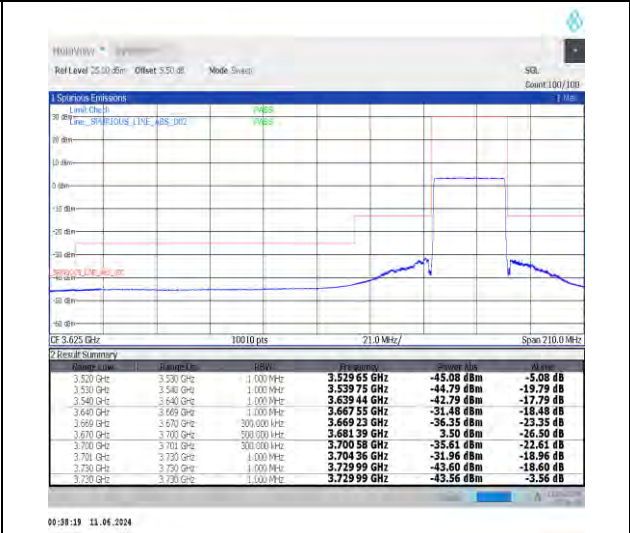
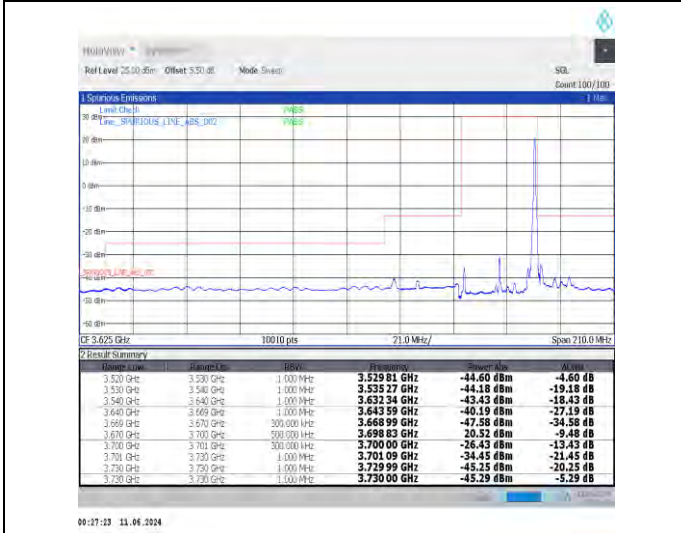
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1-N48-30-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@77-Ant0-1--PASS-see graph

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

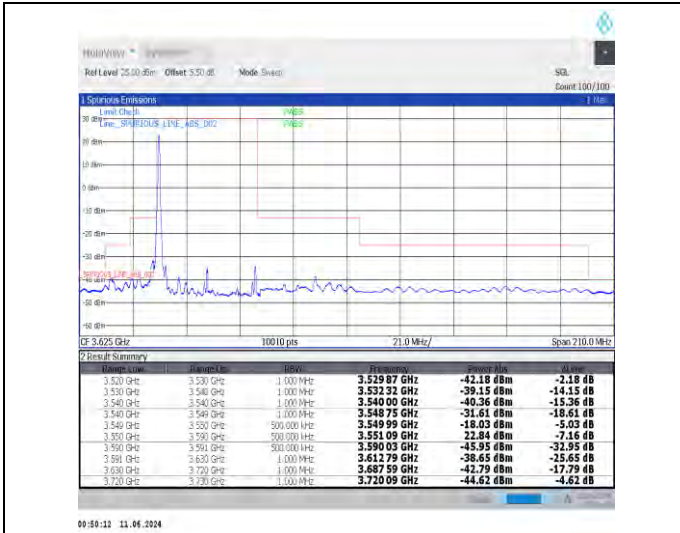
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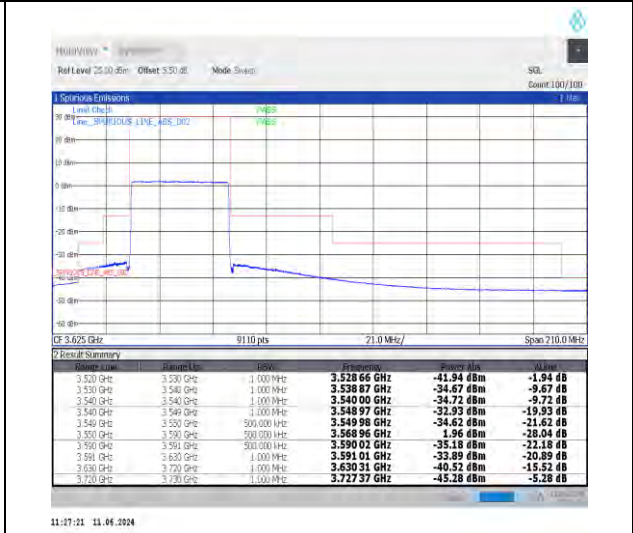
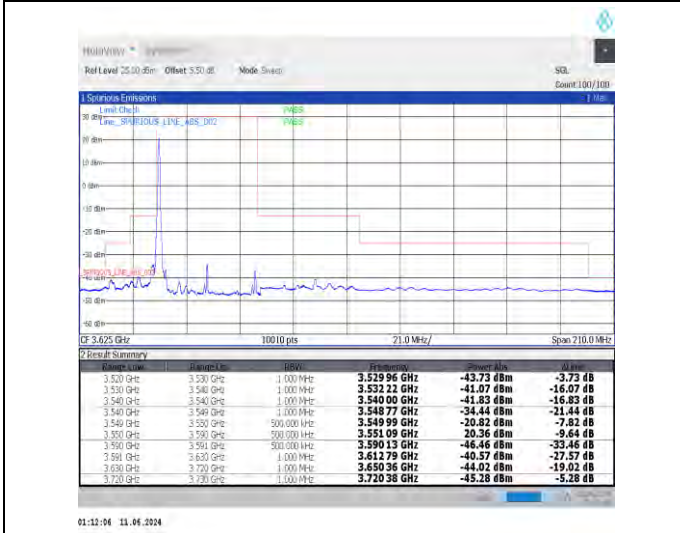
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1-N48-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

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



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

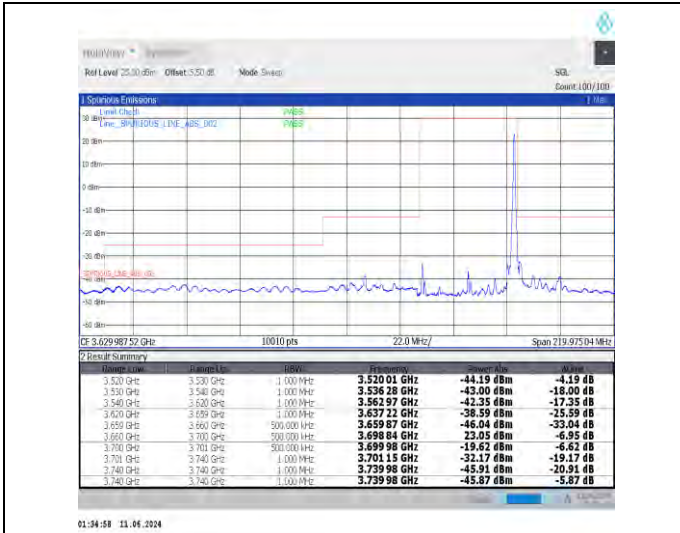
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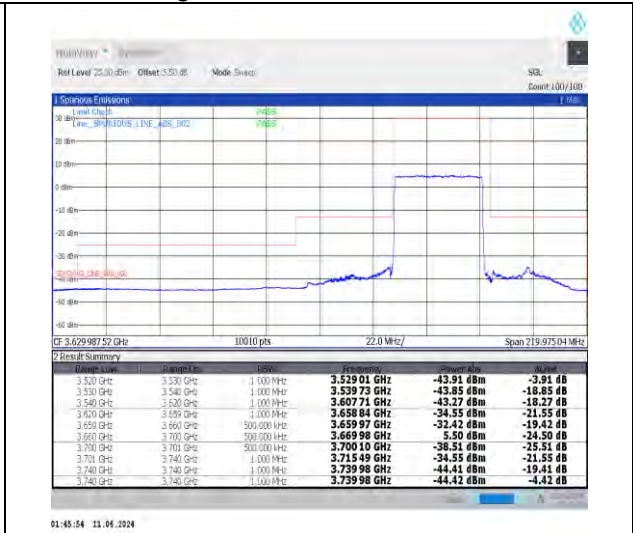
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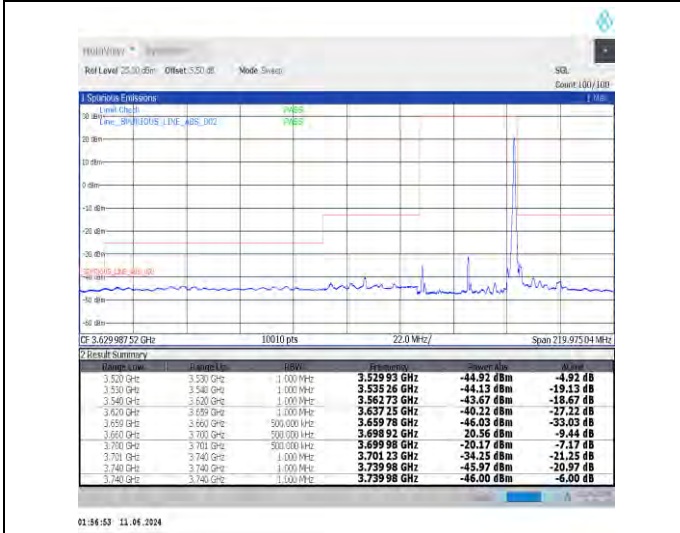
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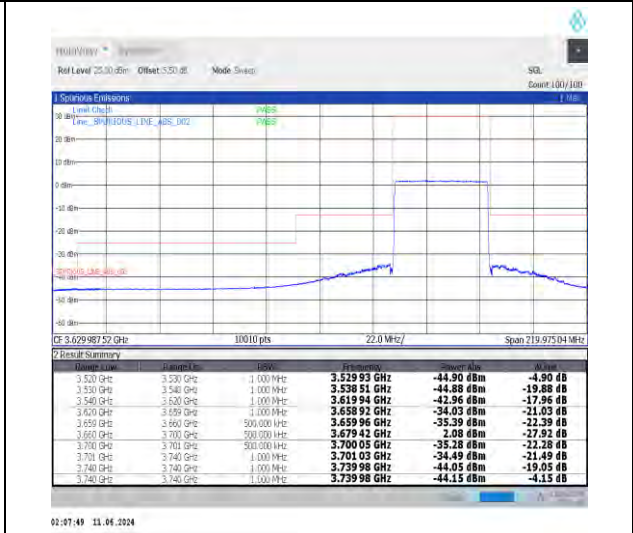
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1-N48-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant0-1--PASS-see graph



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



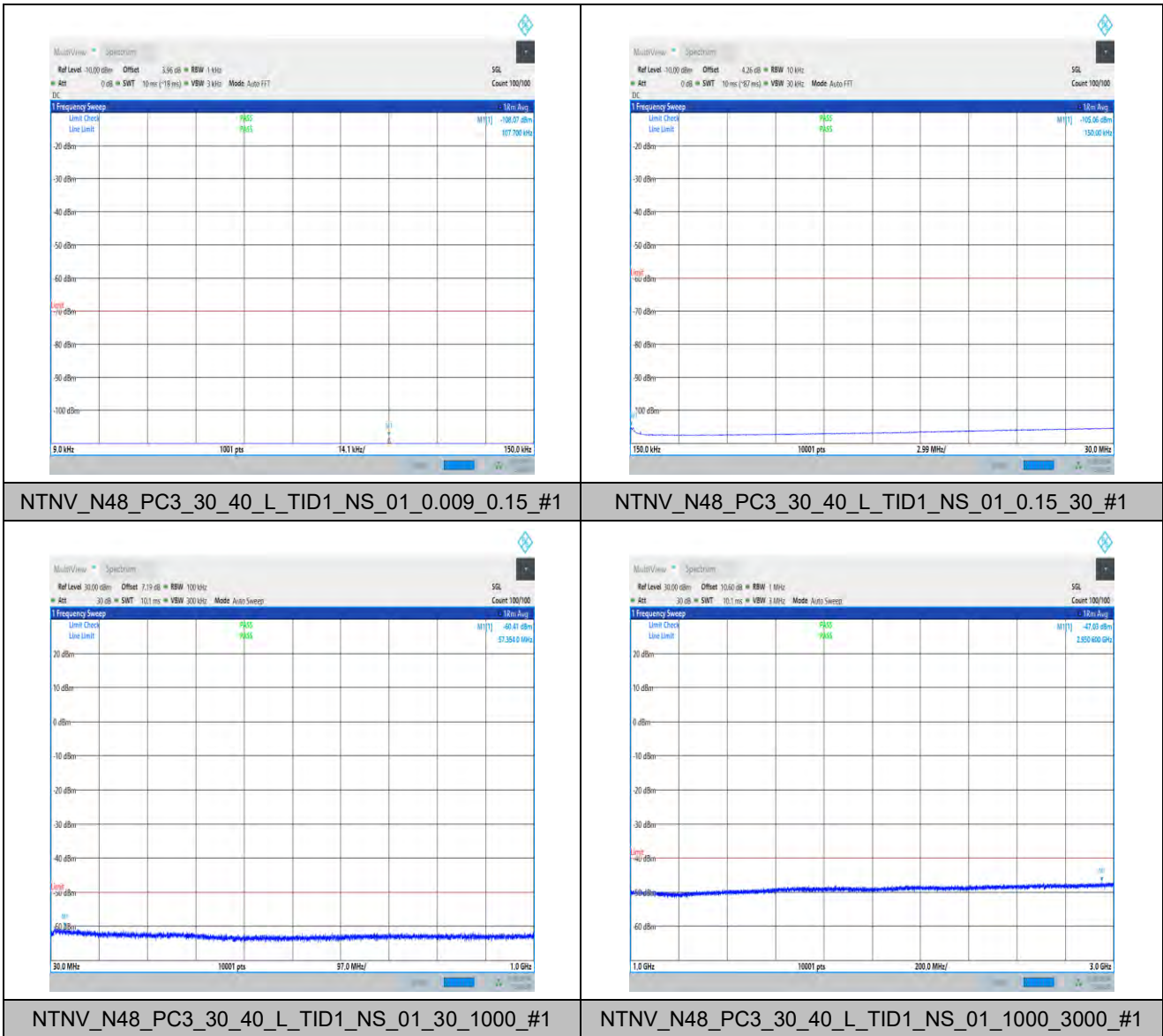
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Conducted Spurious Emission for SA

Test Graphs



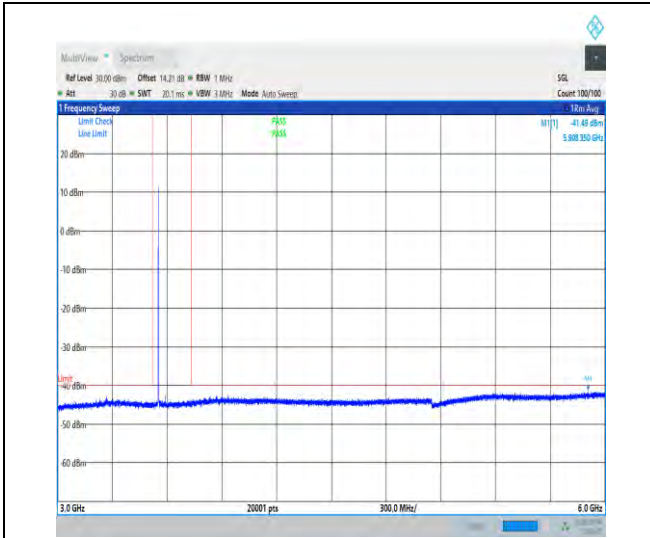
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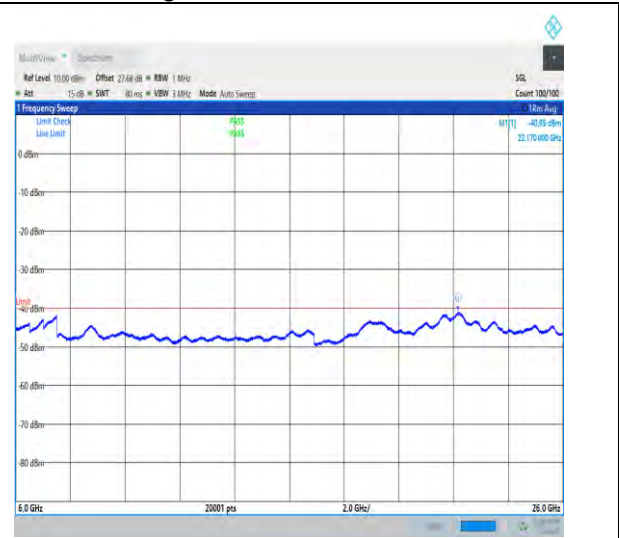
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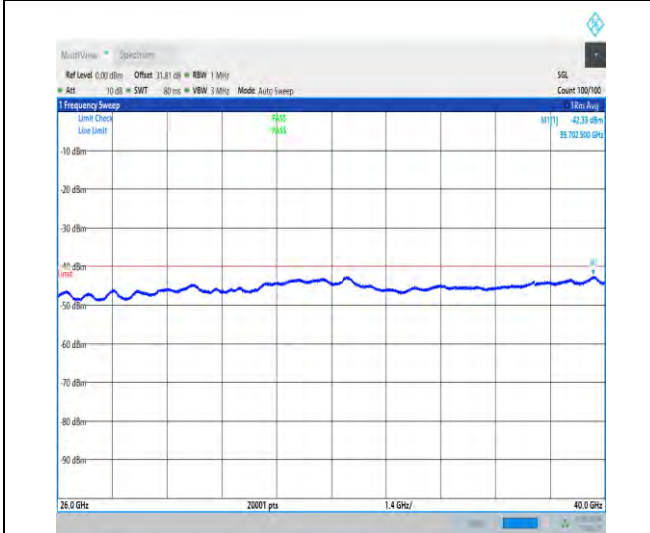
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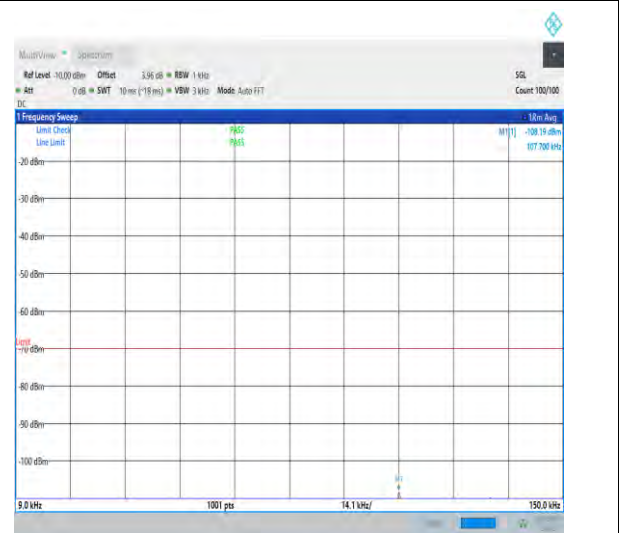
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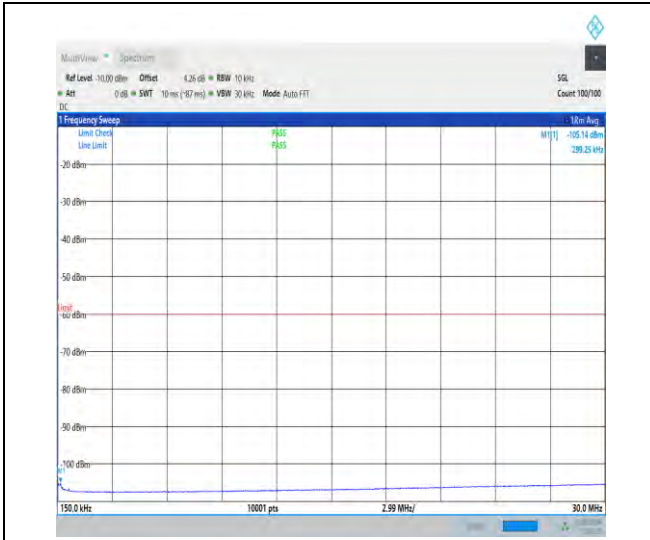


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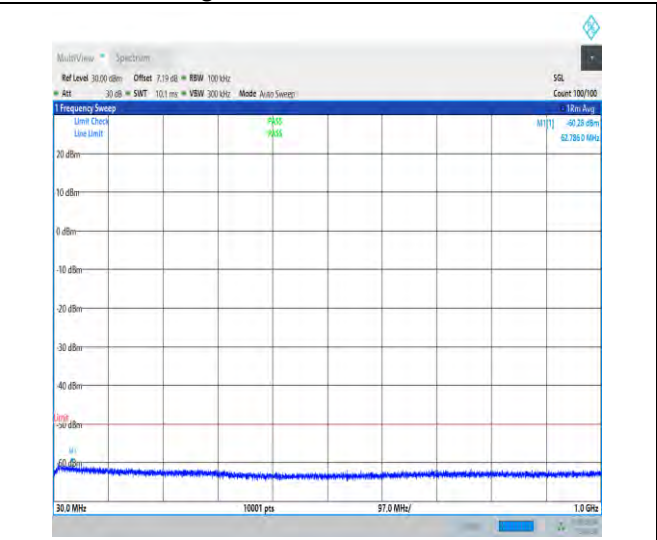
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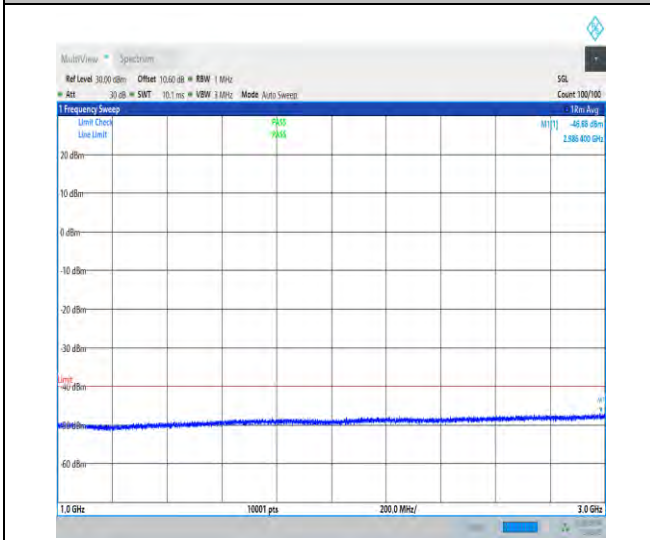
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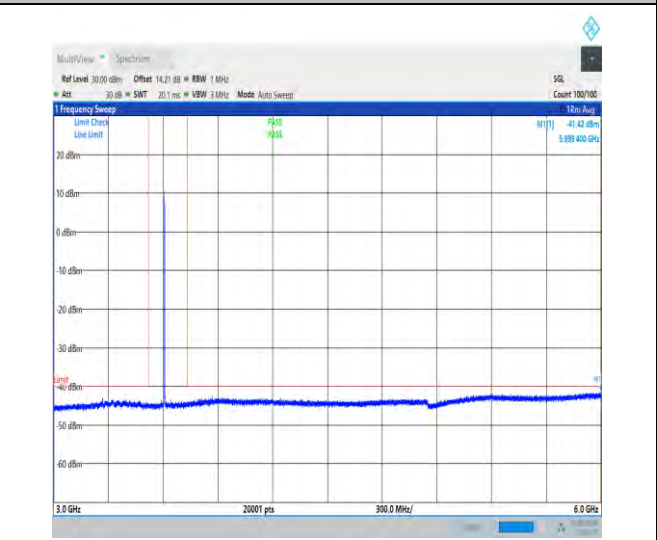
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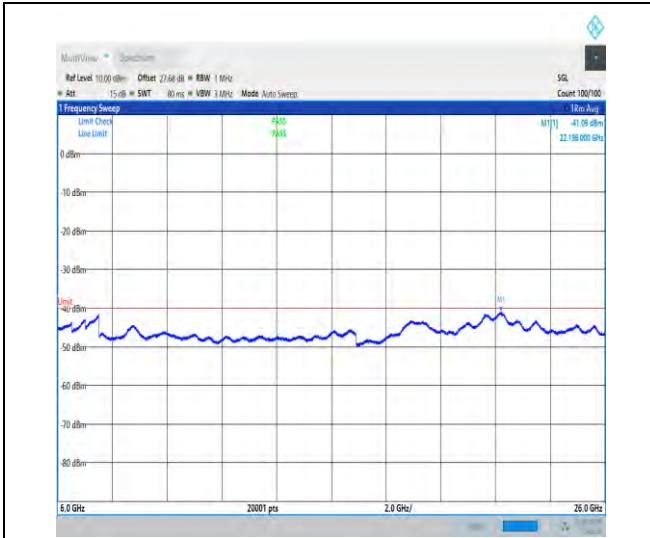
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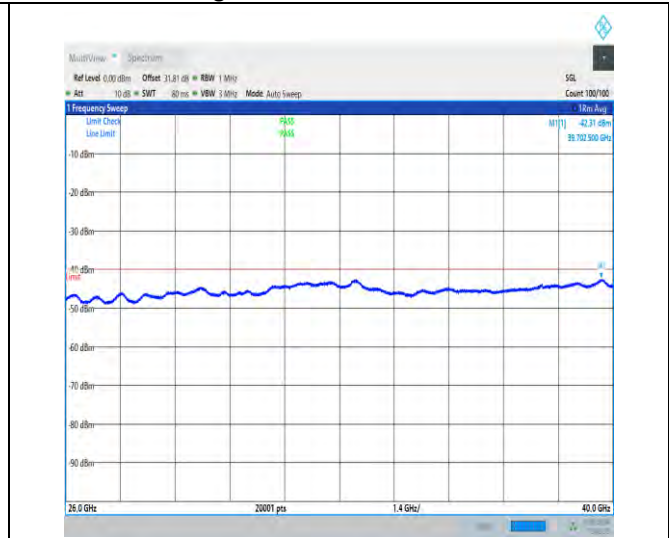
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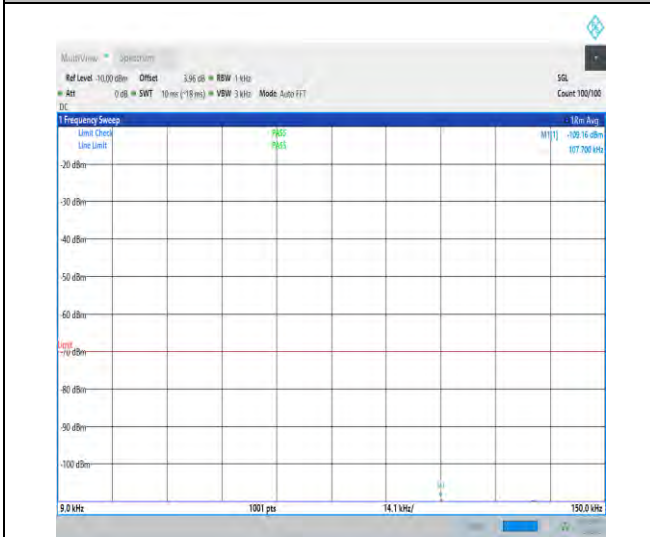
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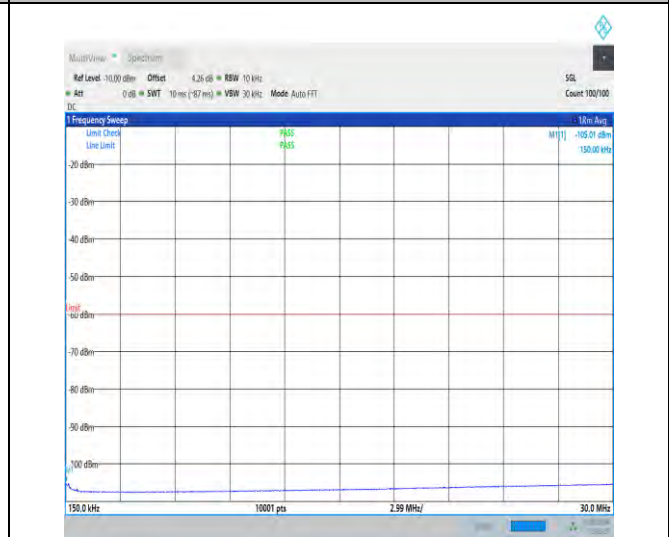


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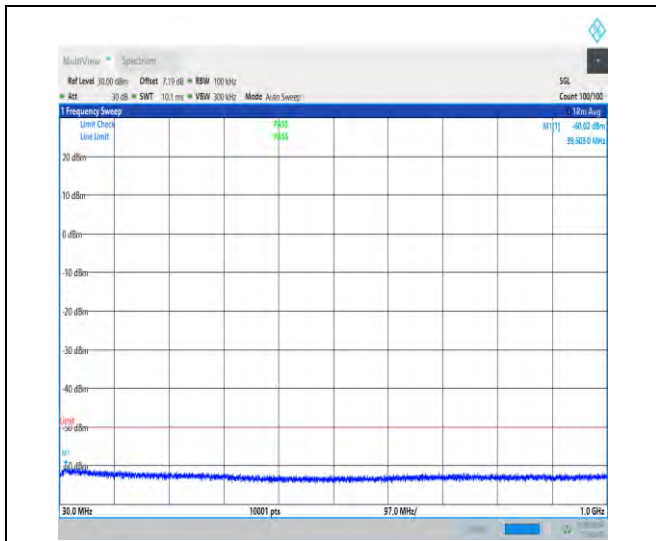
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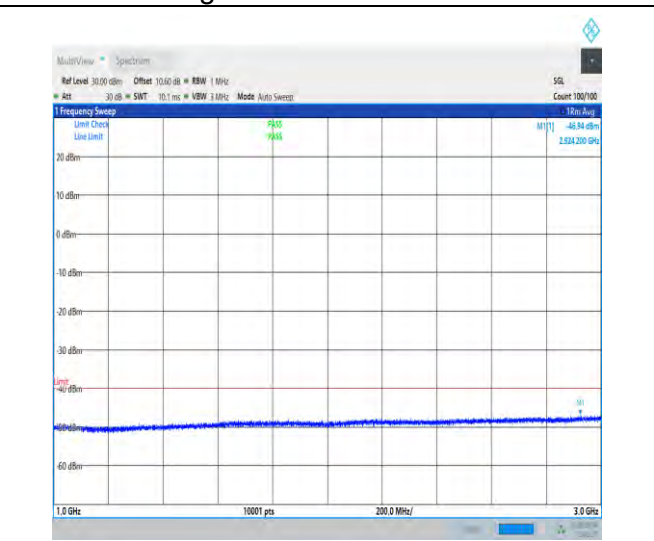
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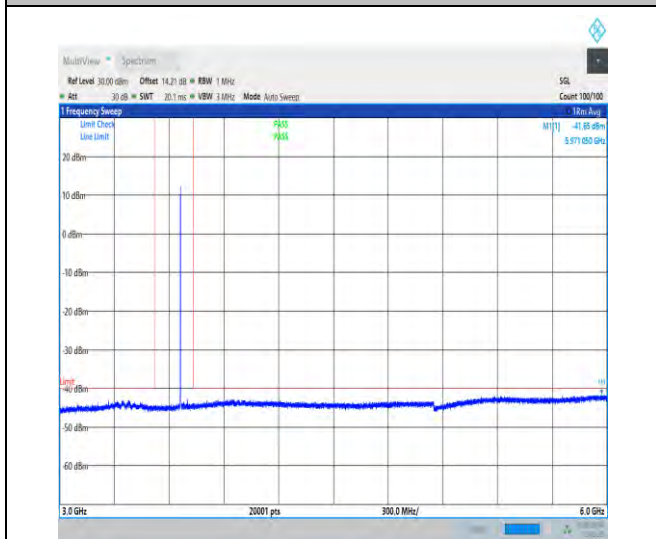
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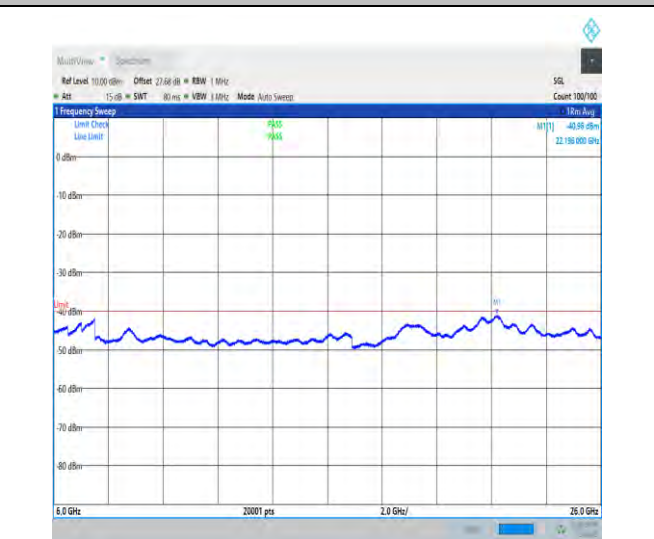
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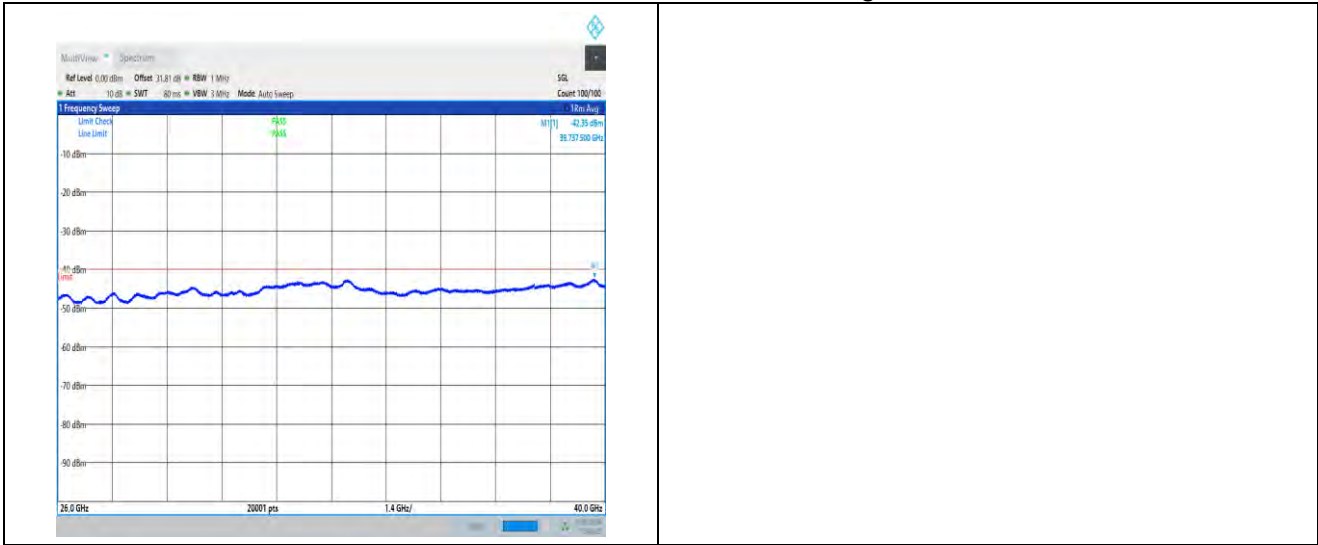
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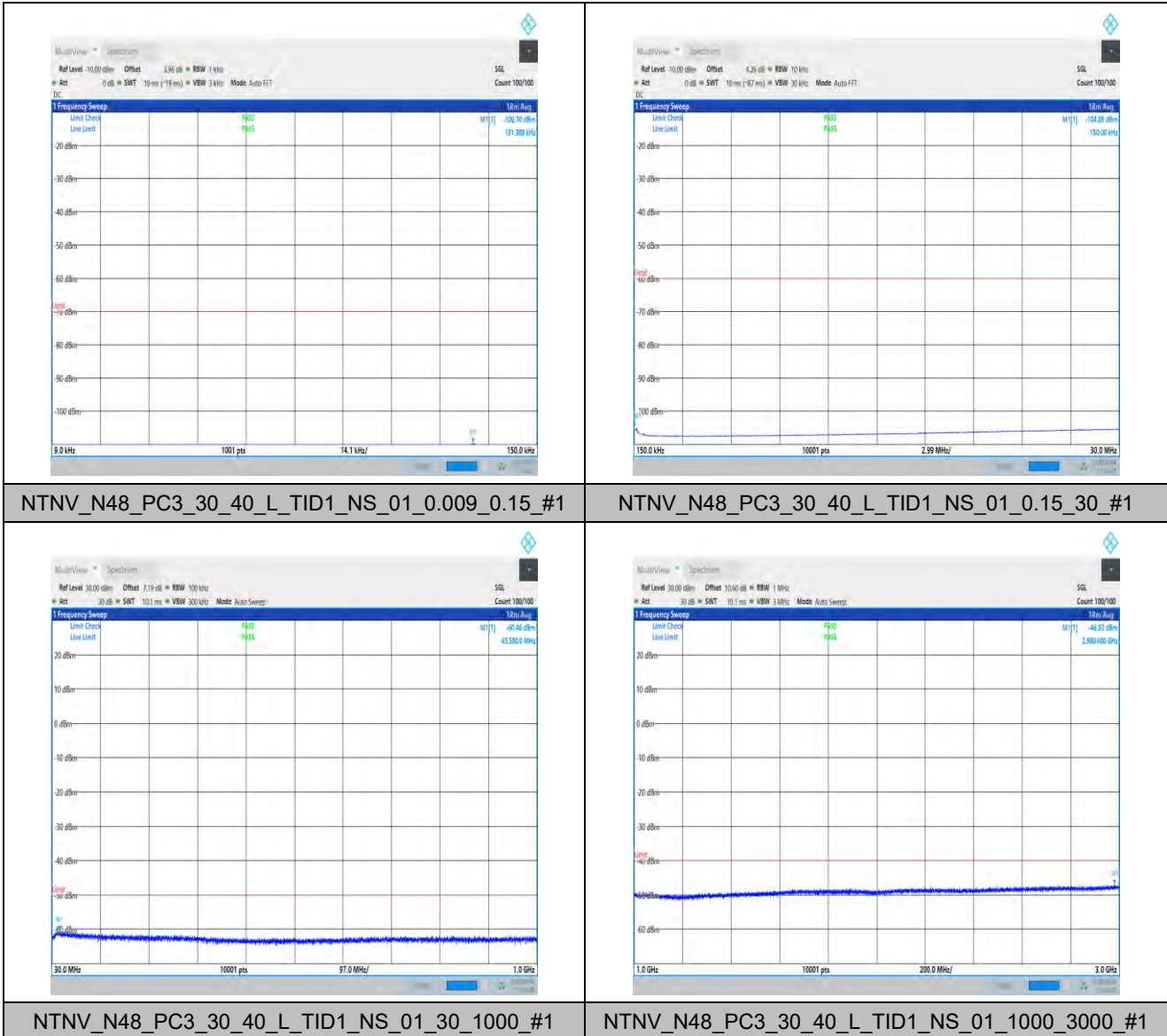
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Conducted Spurious Emission for MIMO

Test Graphs



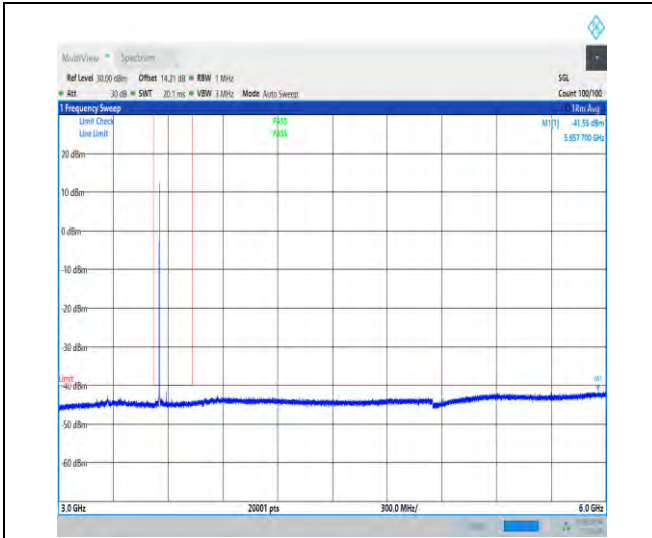
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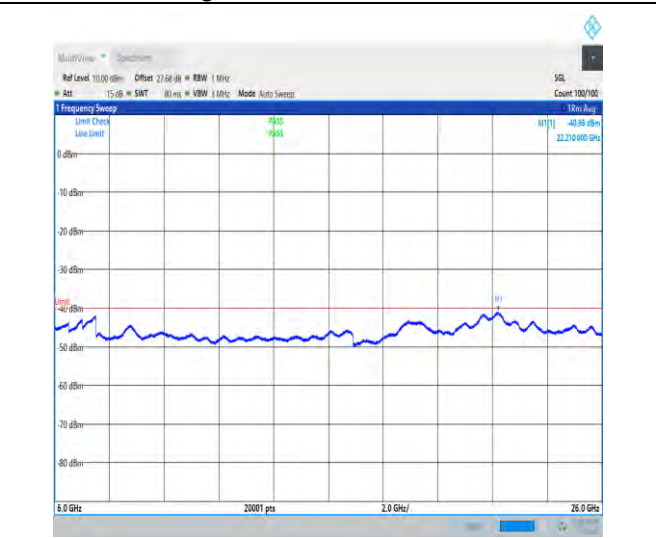
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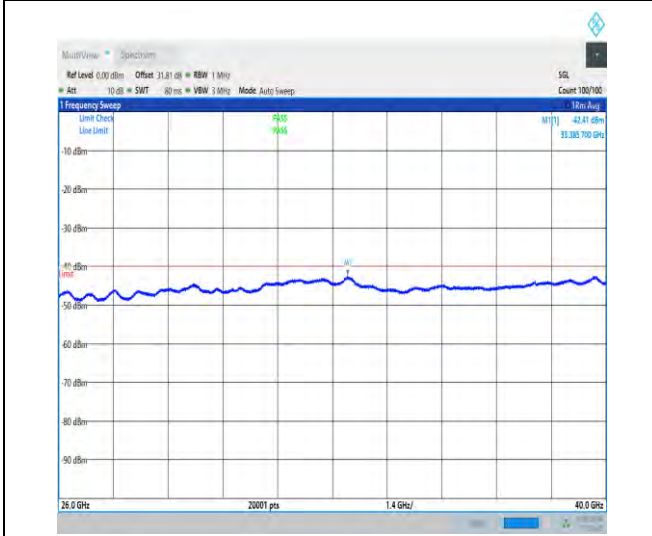
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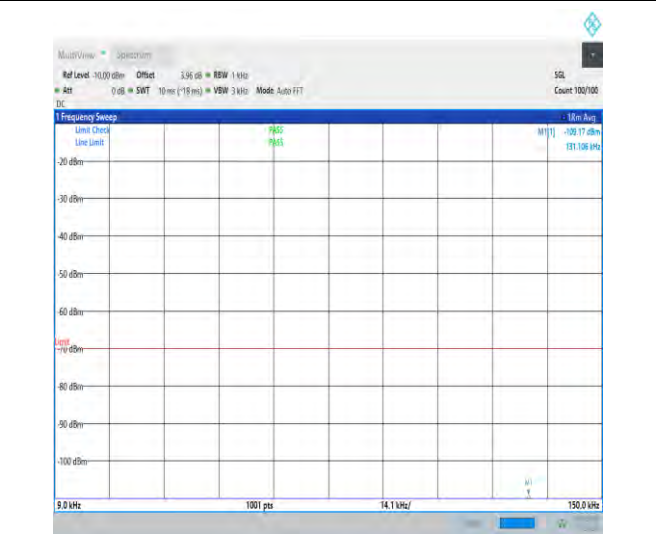
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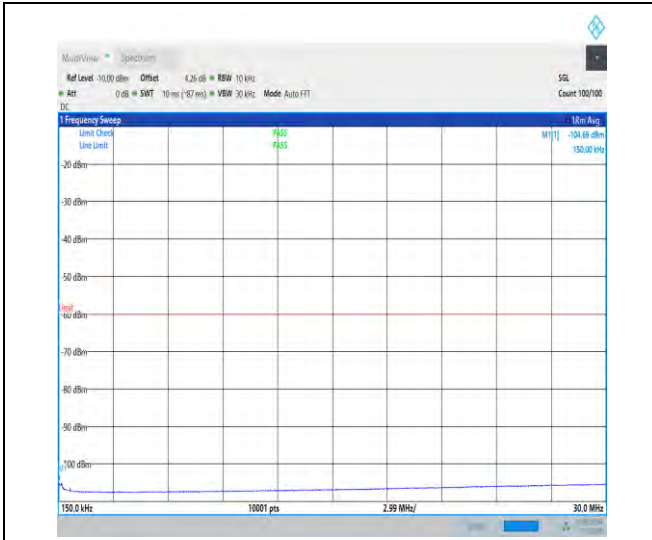


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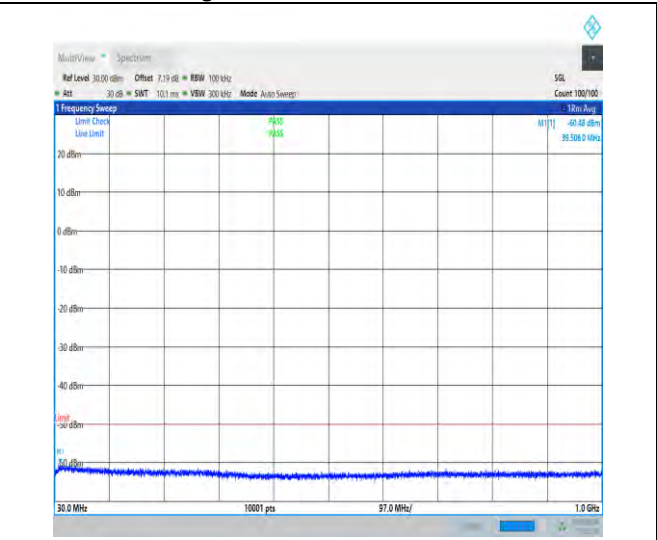
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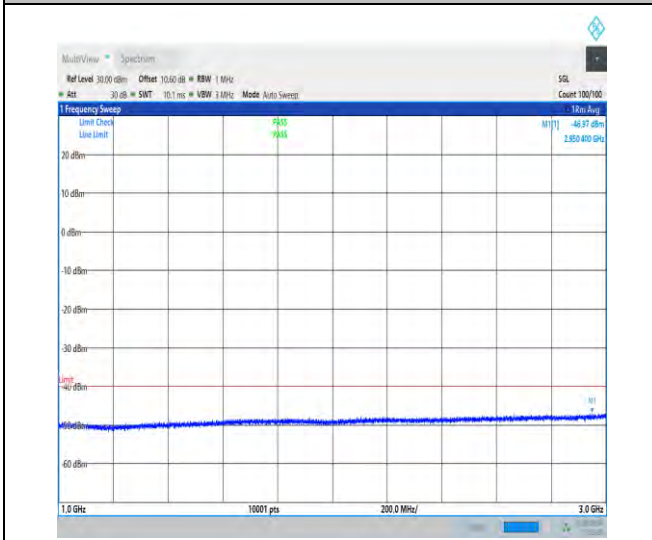
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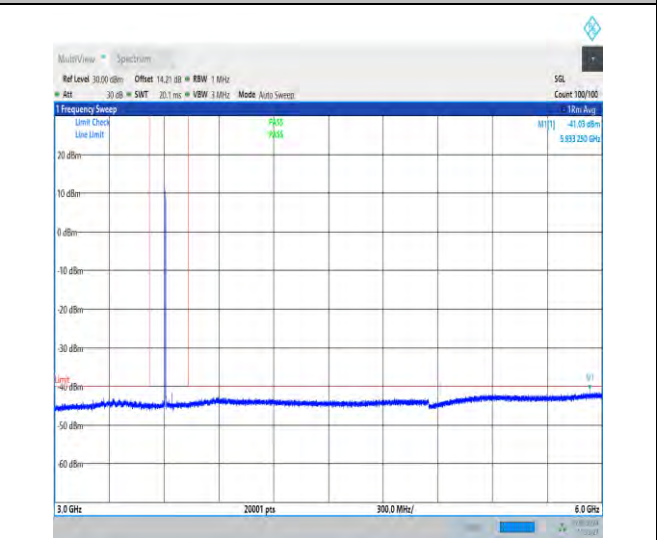
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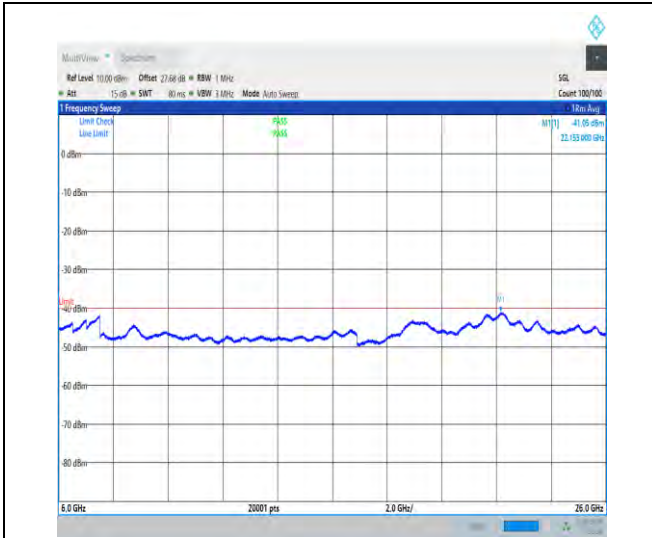


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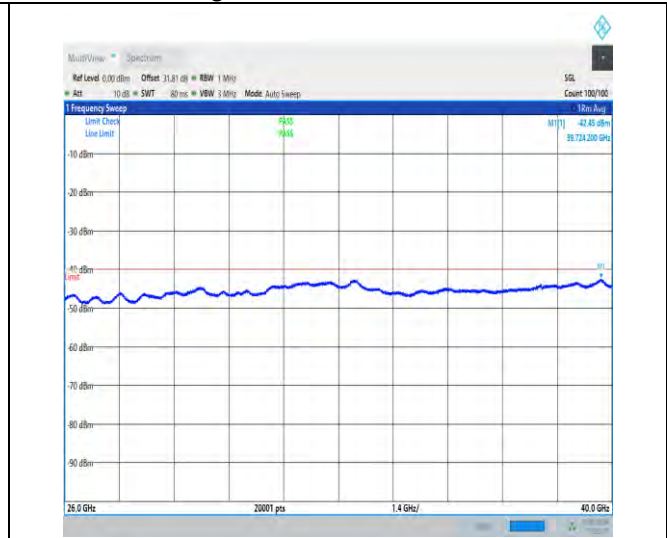
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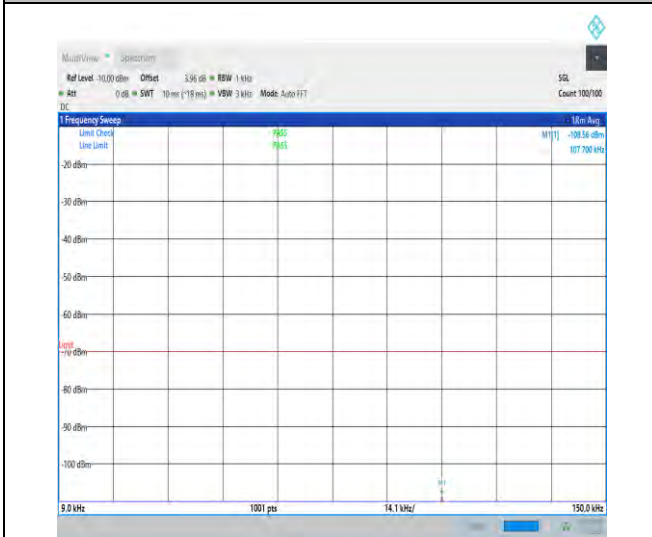
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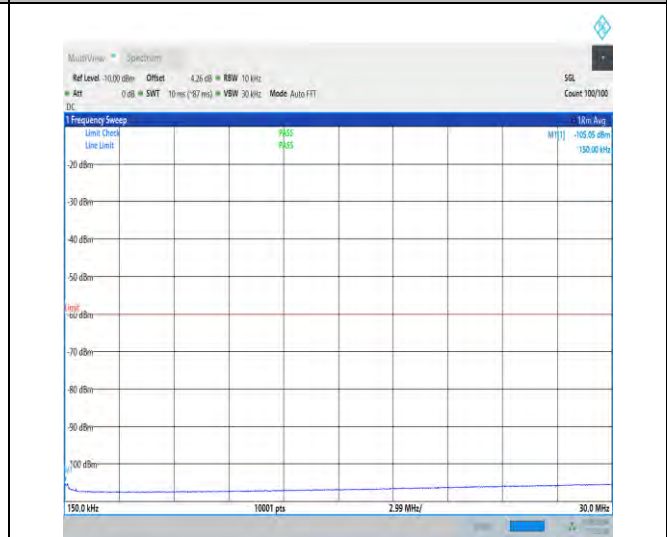
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NTVN_N48_PC3_30_40_H_TID1_NS_01_0.15_30_#1



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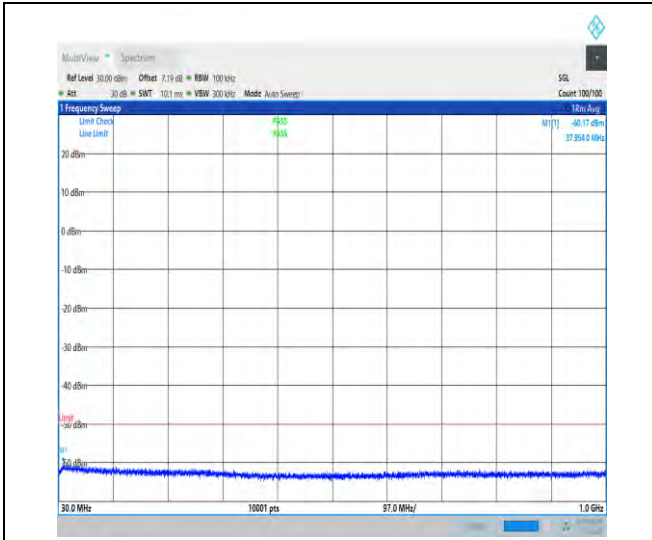
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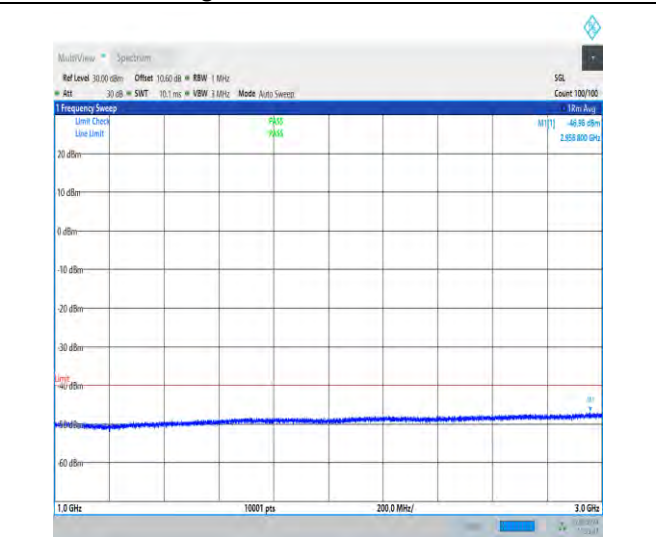
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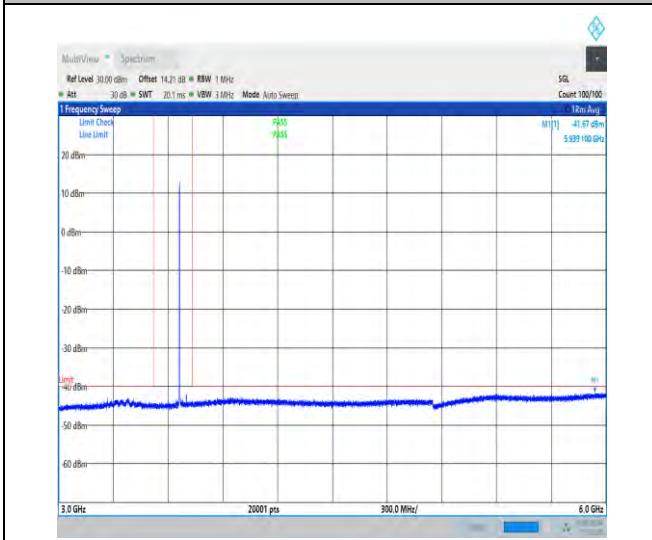
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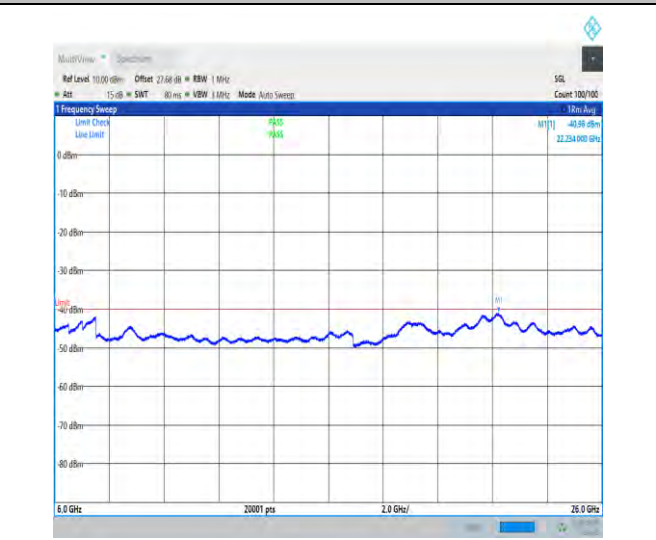
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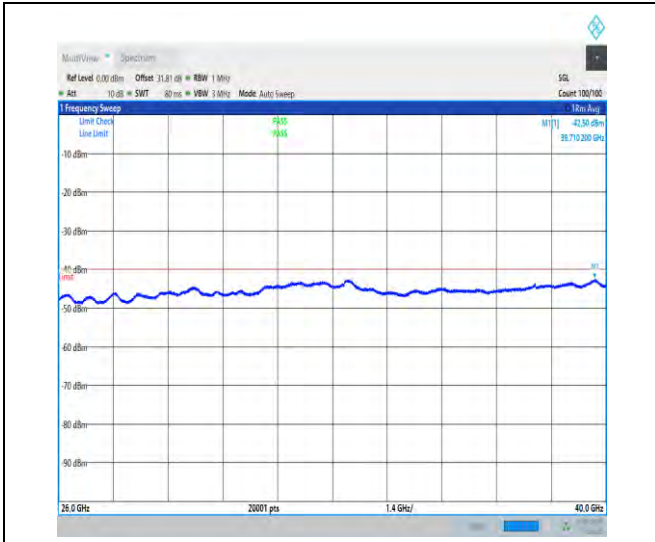


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Field Strength of Spurious Radiation

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								
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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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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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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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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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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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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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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

---End of Attachment---



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