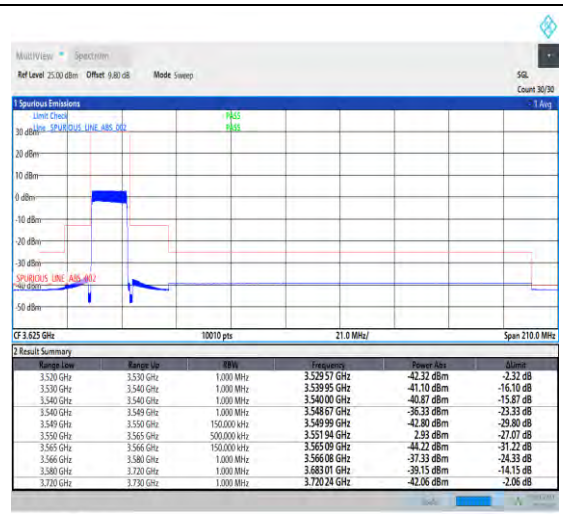
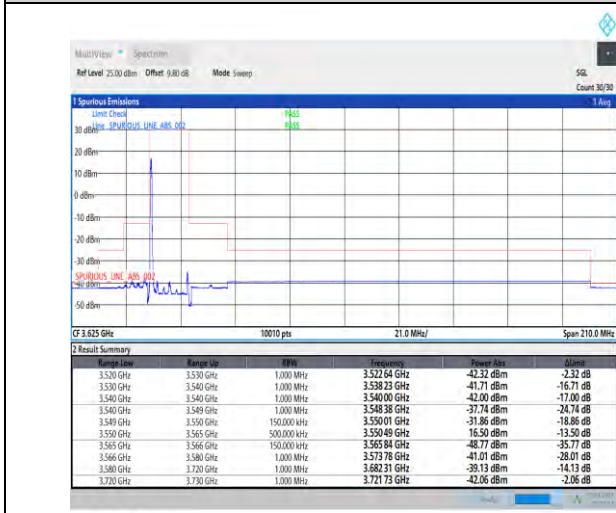


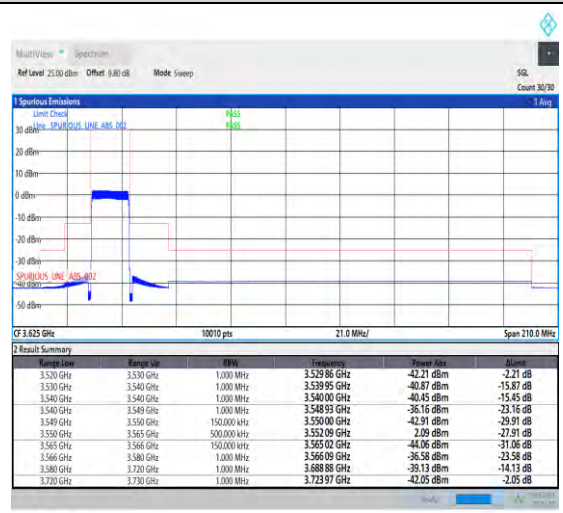
1-N48-PC3-30-15-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-15-L-3-DFT-PI2BPSK-Outer\_Full-36@0Ant3-1--PASS-see graph



1-N48-PC3-30-15-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant3-1--PASS-see graph

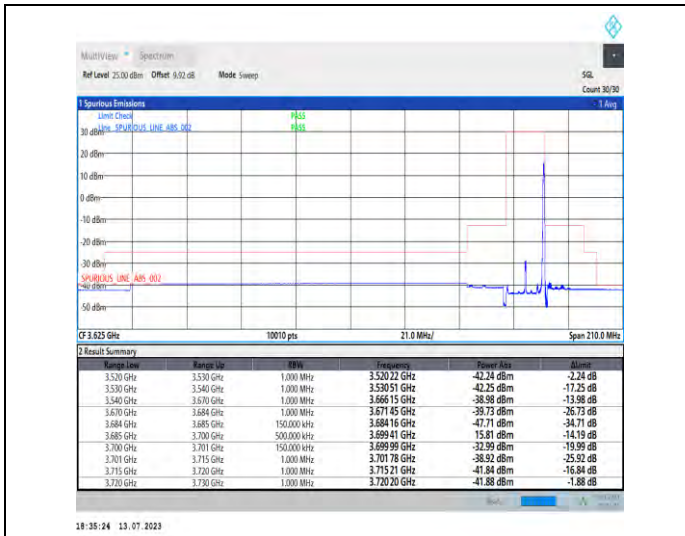


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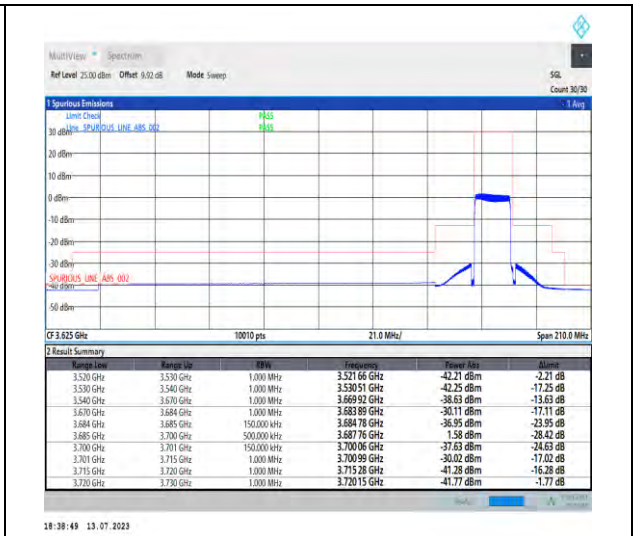


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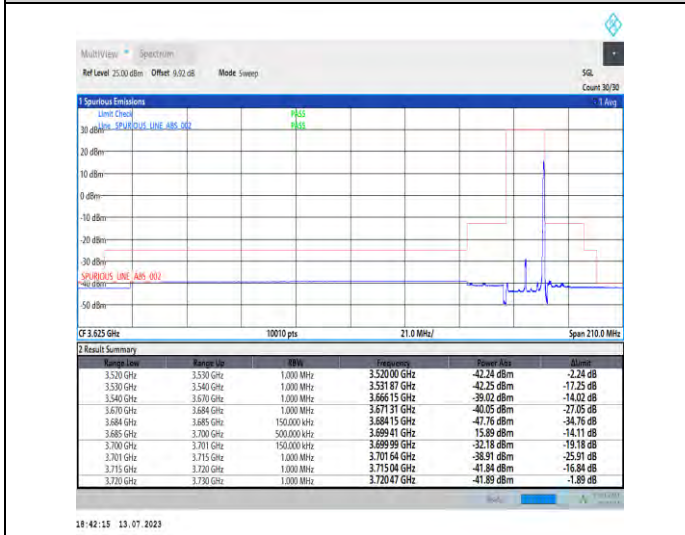
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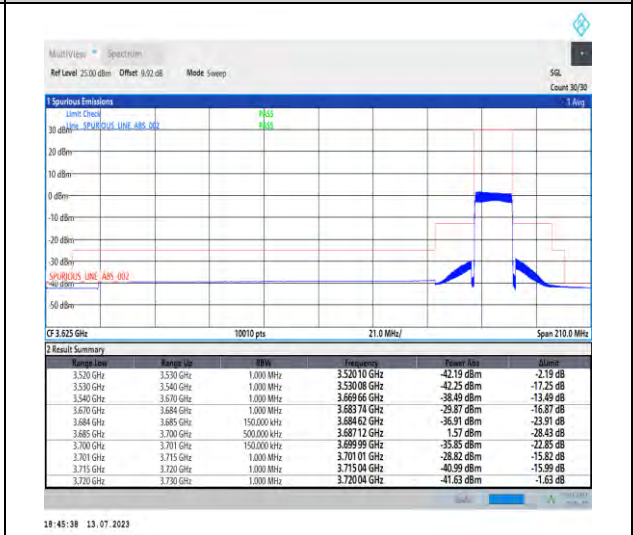
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1-N48-PC3-30-15-H-3-DFT-PI2BPSK-Outer\_Full-36@0Ant3-1--PASS-see graph



1-N48-PC3-30-15-H-5-CP-QPSK-Edge\_1RB\_Right-1@37-Ant3-1--PASS-see graph



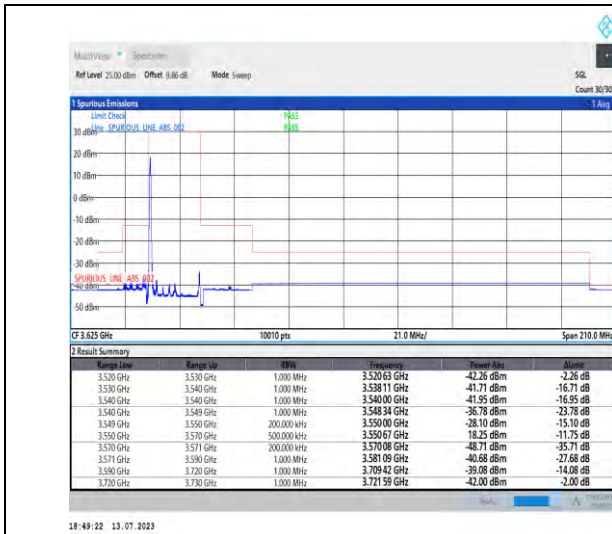
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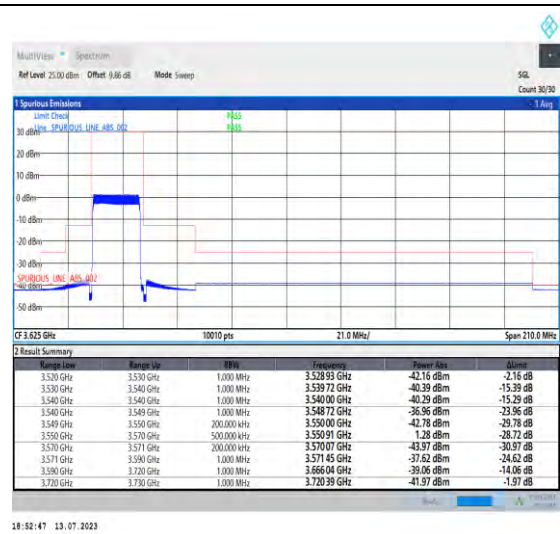
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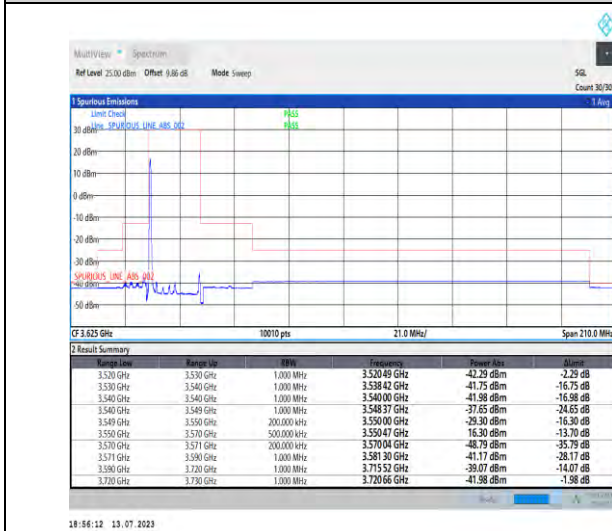
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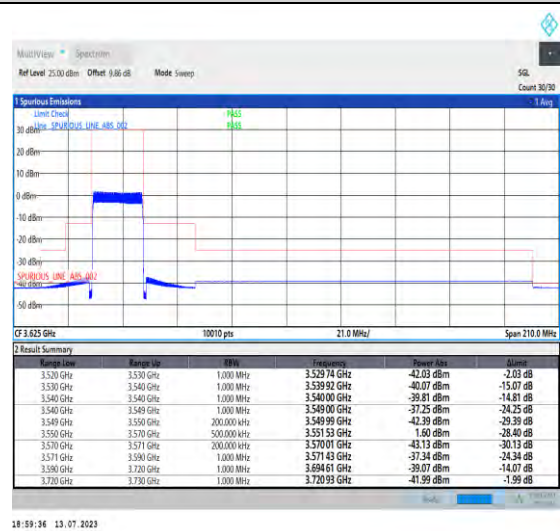
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1-N48-PC3-30-20-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant3-1--PASS-see graph



1-N48-PC3-30-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant3-1--PASS-see graph



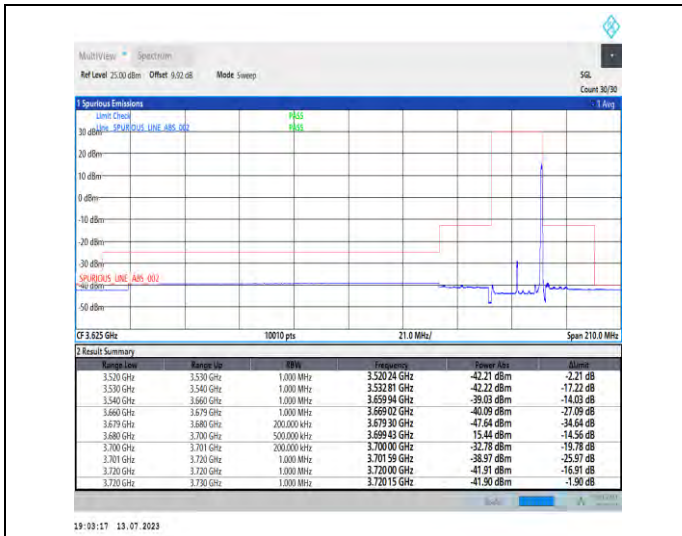
1-N48-PC3-30-20-L-6-CP-QPSK-Outer\_Full-51@0-Ant3-1--PASS-see graph



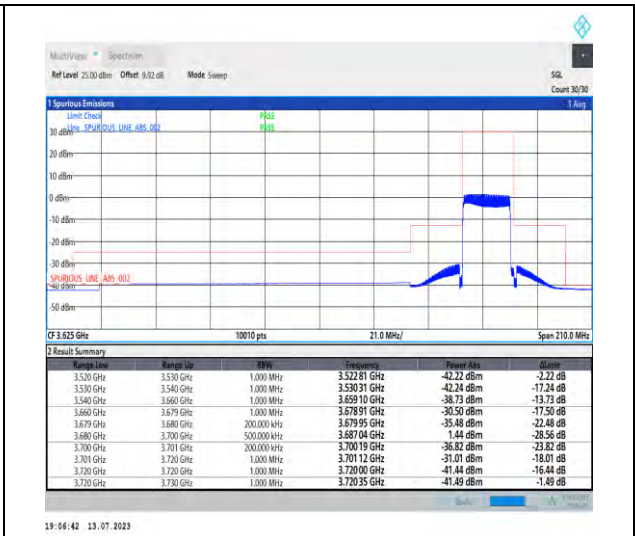
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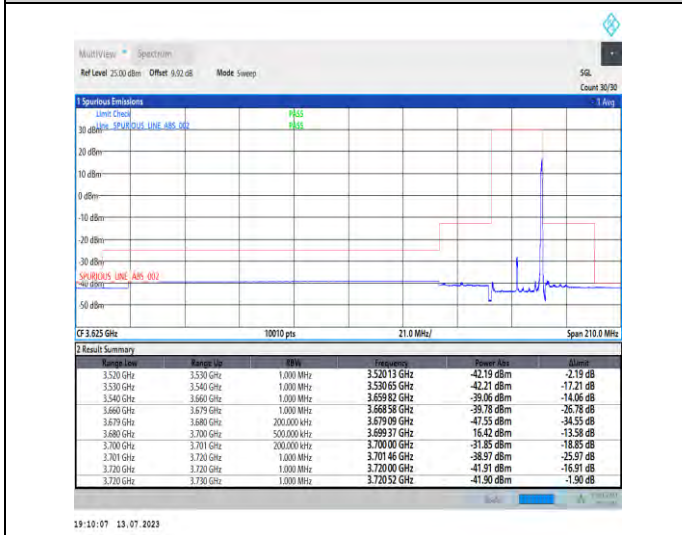
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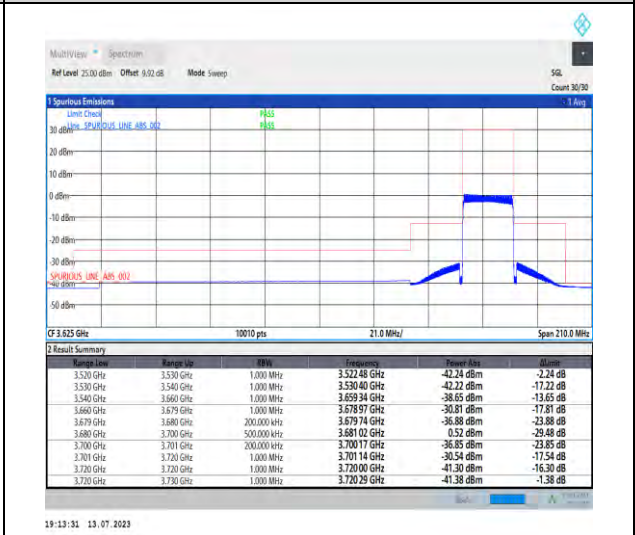
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1-N48-PC3-30-20-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant3-1--PASS-see graph



1-N48-PC3-30-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@50-Ant3-1--PASS-see graph



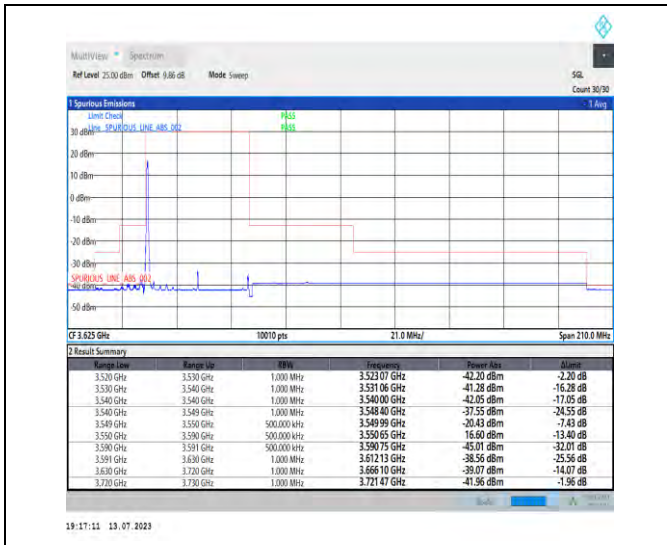
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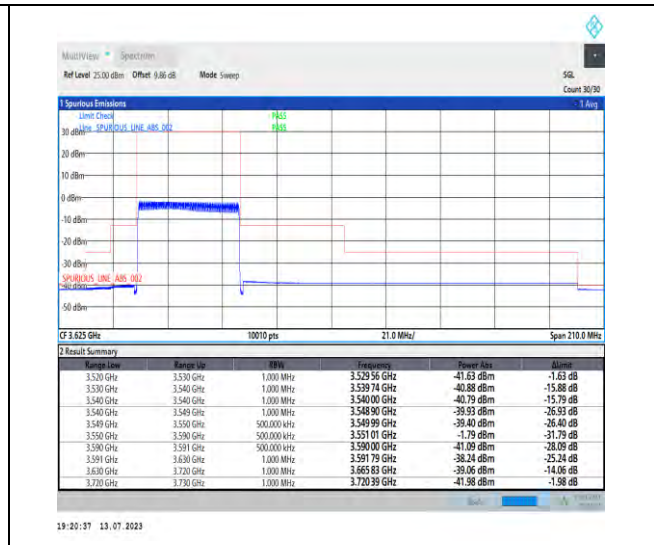
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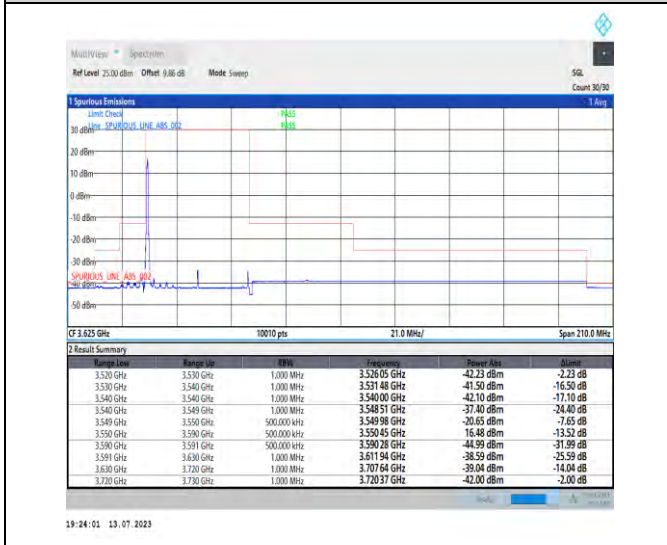
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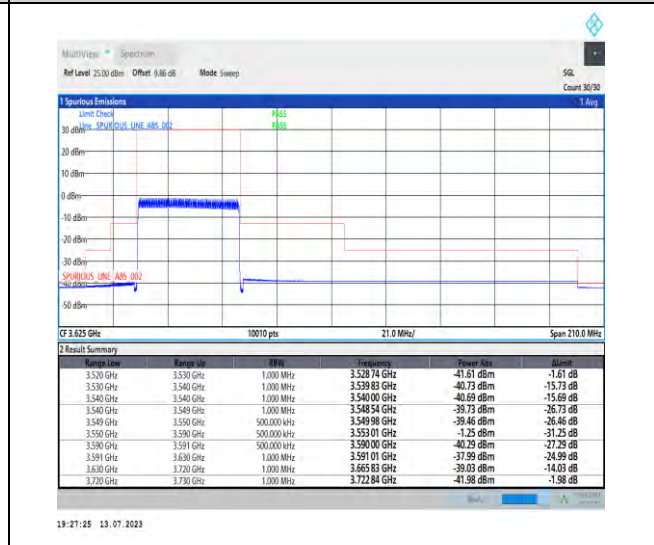
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 -1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-40-L-3-DFT-PI2BPSK-Outer\_Full-10  
 0@0-Ant3-1--PASS-see graph



1-N48-PC3-30-40-L-4-CP-QPSK-Edge\_1RB\_Left-1@  
 0-Ant3-1--PASS-see graph



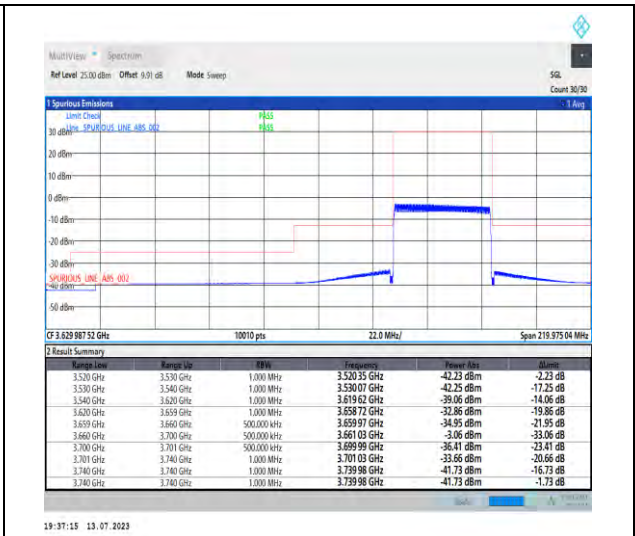
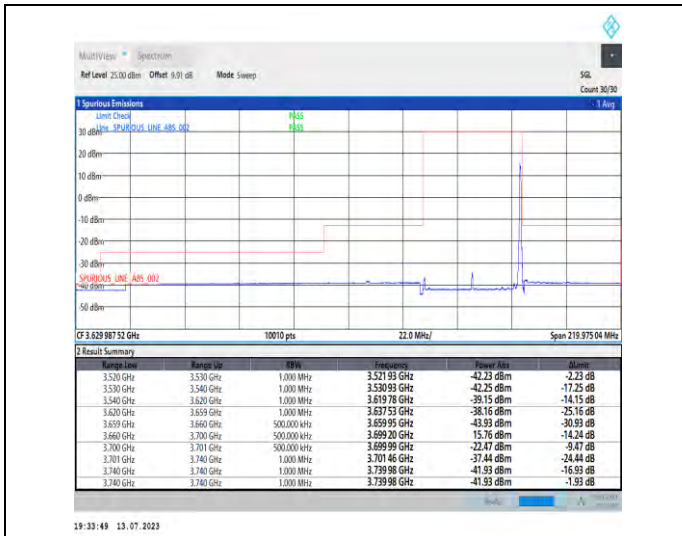
1-N48-PC3-30-40-L-6-CP-QPSK-Outer\_Full-106@0  
 -Ant3-1--PASS-see graph



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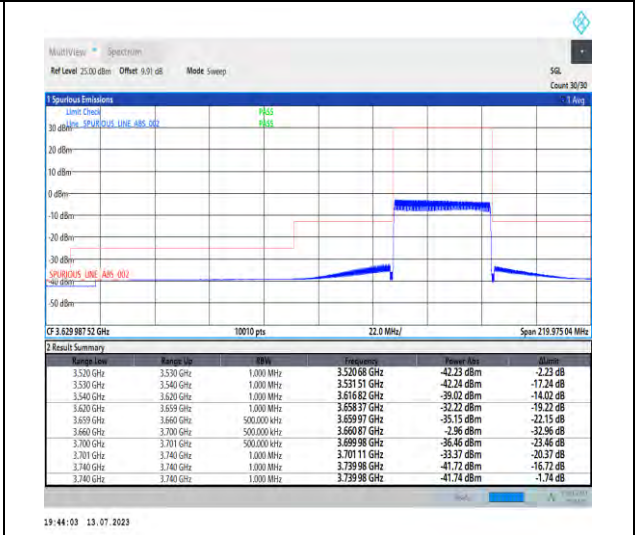
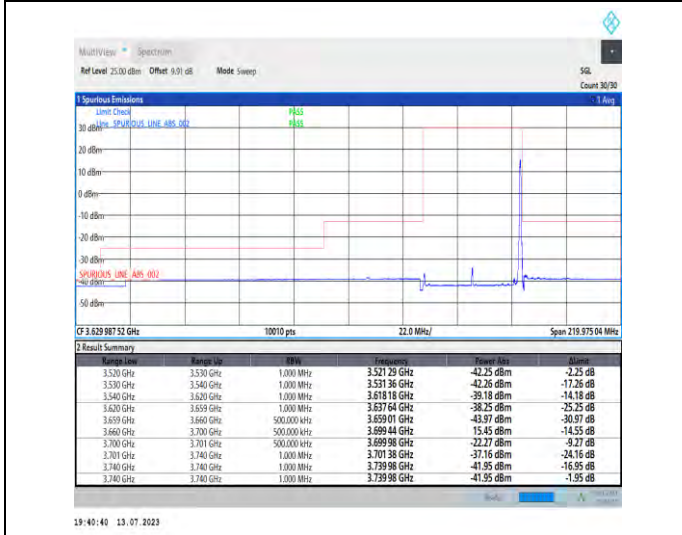
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1-N48-PC3-30-40-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-t-1@105-Ant3-1--PASS-see graph

1-N48-PC3-30-40-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant3-1--PASS-see graph



1-N48-PC3-30-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant3-1--PASS-see graph

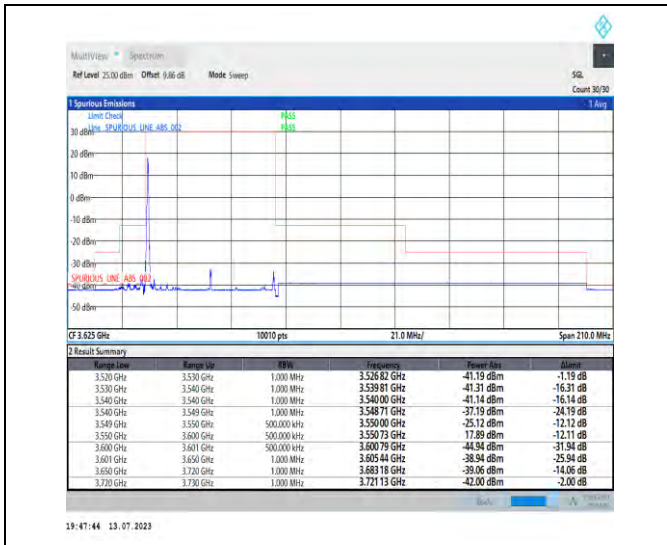
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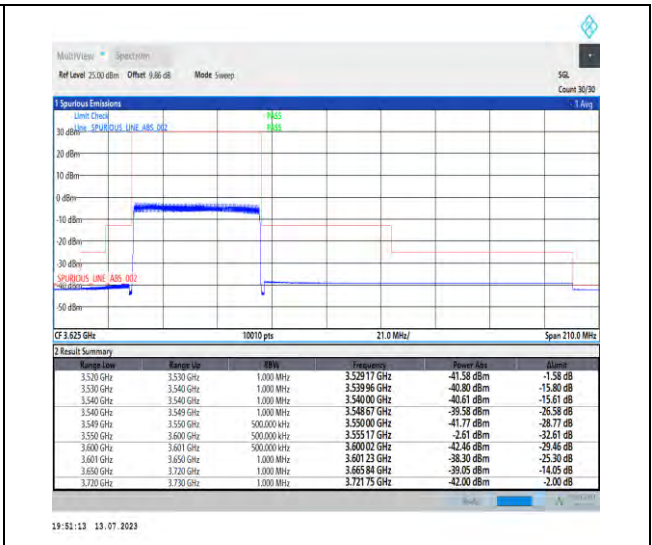
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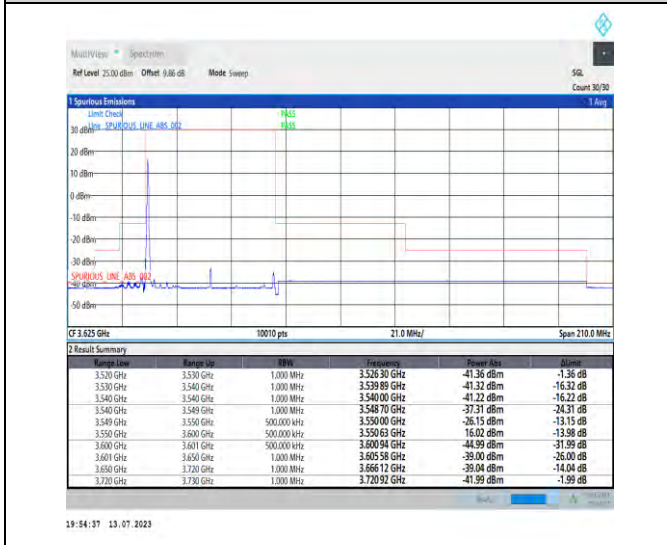
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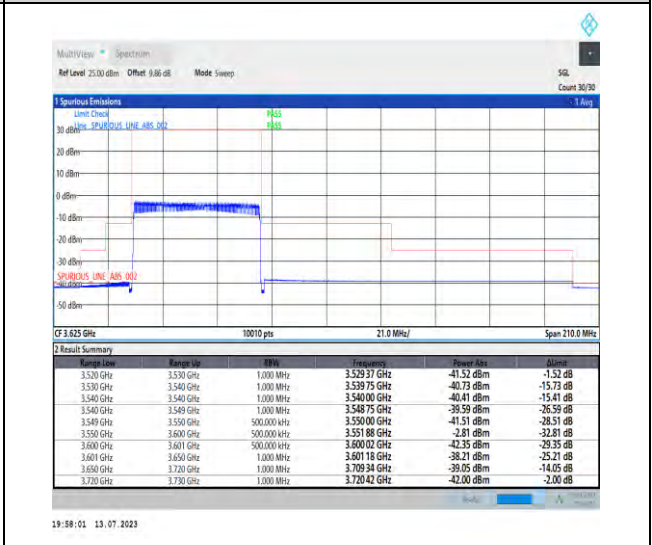
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1-N48-PC3-30-50-L-3-DFT-PI2BPSK-Outer\_Full-12  
 8@0-Ant3-1--PASS-see graph



1-N48-PC3-30-50-L-4-CP-QPSK-Edge\_1RB\_Left-1@  
 0-Ant3-1--PASS-see graph

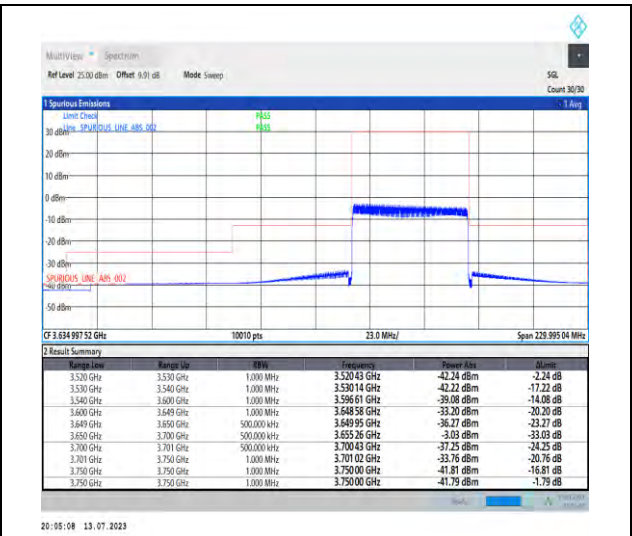
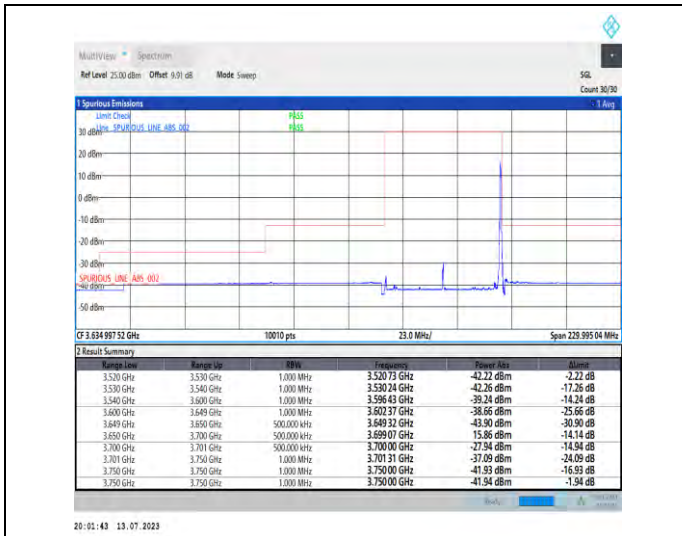


1-N48-PC3-30-50-L-6-CP-QPSK-Outer\_Full-133@0  
 -Ant3-1--PASS-see graph



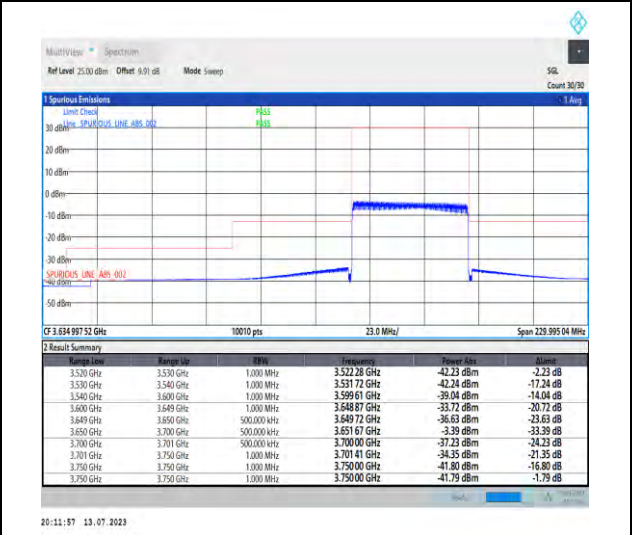
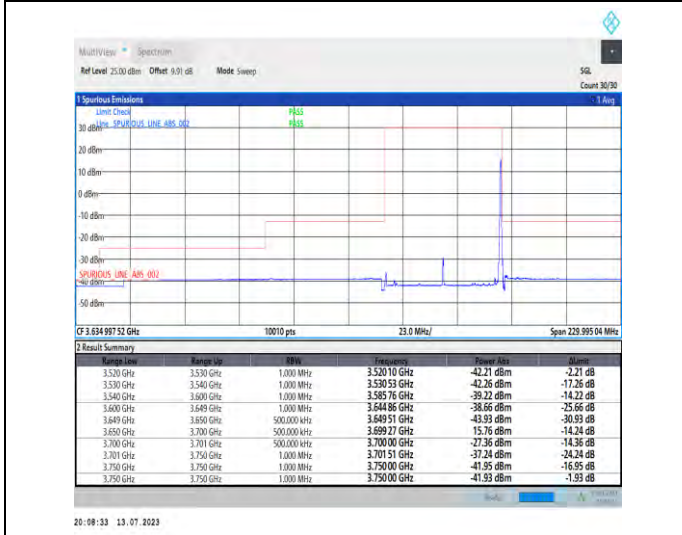
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1-N48-PC3-30-50-H-2-DFT-PI2BPSK-Edge\_1RB\_Right  
 t-1@132-Ant3-1--PASS-see graph

1-N48-PC3-30-50-H-3-DFT-PI2BPSK-Outer\_Full-1  
 28@0-Ant3-1--PASS-see graph



1-N48-PC3-30-50-H-5-CP-QPSK-Edge\_1RB\_Right-1  
 @132-Ant3-1--PASS-see graph

1-N48-PC3-30-50-H-6-CP-QPSK-Outer\_Full-133  
 @0-Ant3-1--PASS-see graph

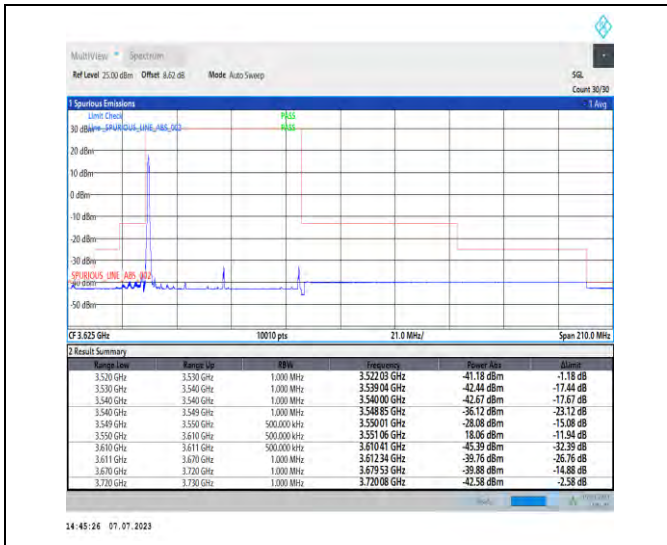


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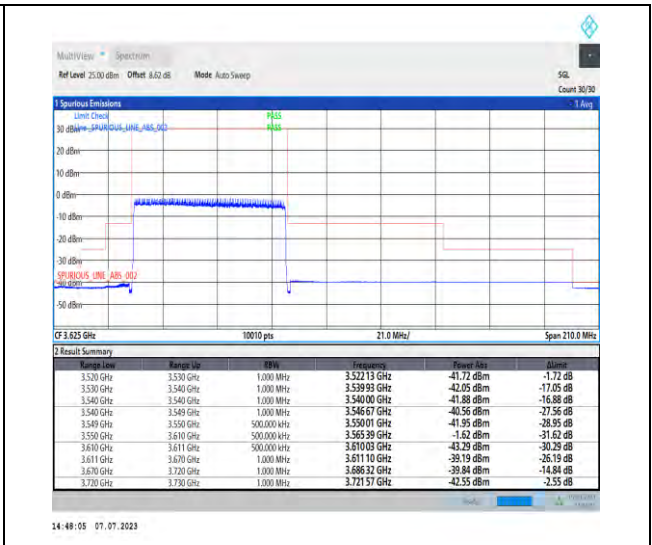
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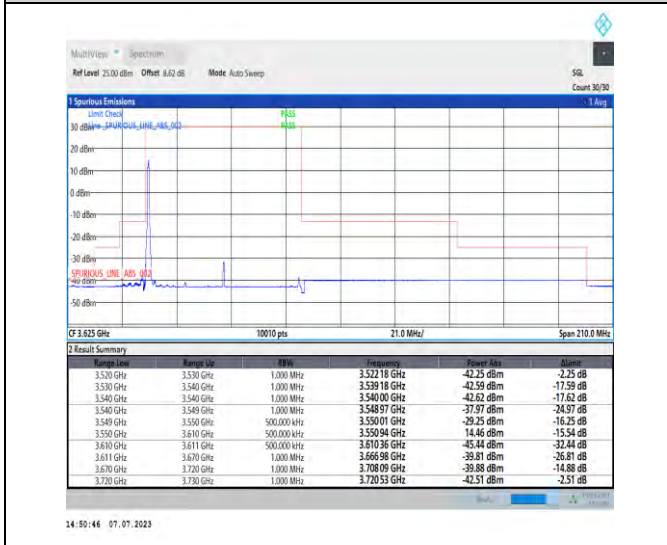




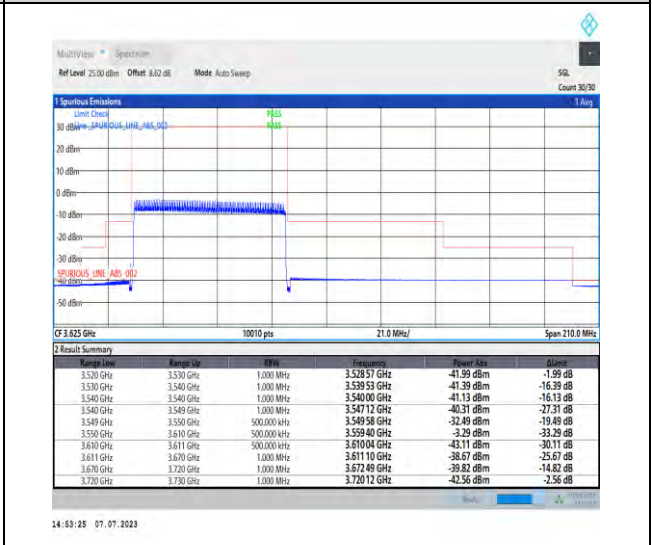
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 -1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-60-L-3-DFT-PI2BPSK-Outer\_Full-16  
 2@0-Ant3-1--PASS-see graph



1-N48-PC3-30-60-L-4-CP-QPSK-Edge\_1RB\_Left-1@  
 0-Ant3-1--PASS-see graph

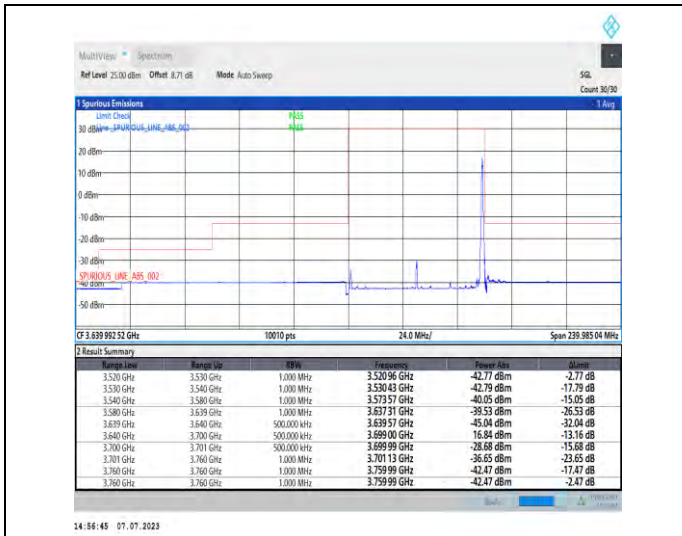


1-N48-PC3-30-60-L-6-CP-QPSK-Outer\_Full-162@  
 0-Ant3-1--PASS-see graph

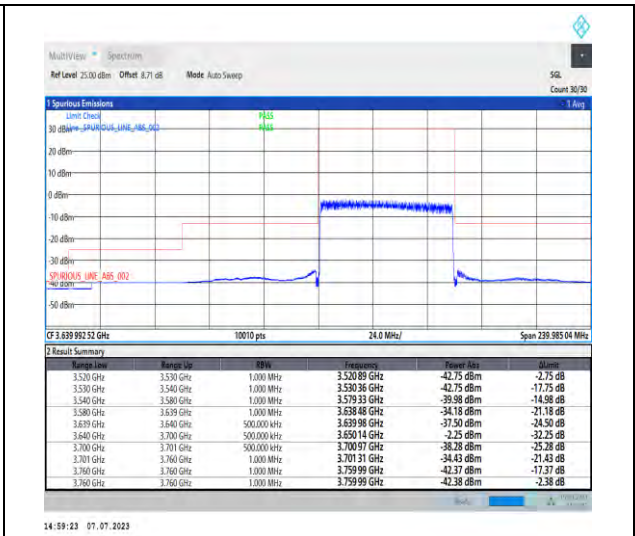


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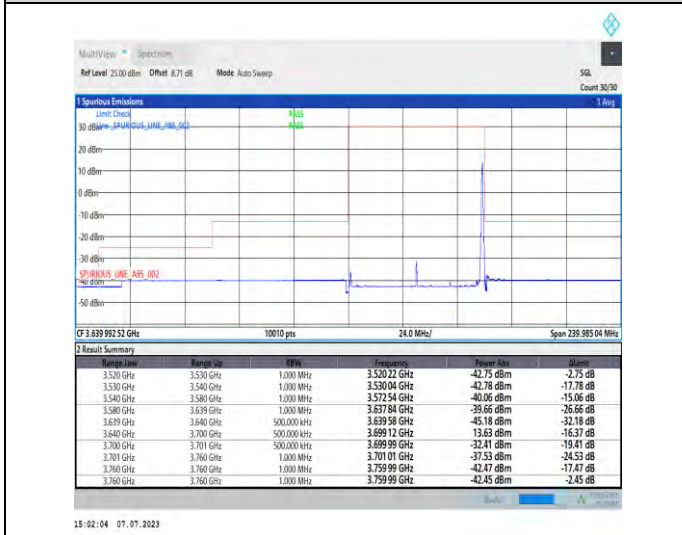
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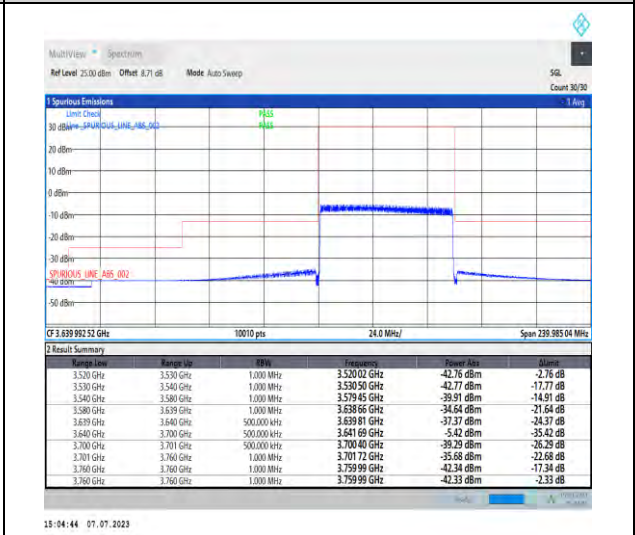
1-N48-PC3-30-60-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-t-1@161-Ant3-1--PASS-see graph



1-N48-PC3-30-60-H-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant3-1--PASS-see graph



1-N48-PC3-30-60-H-5-CP-QPSK-Edge\_1RB\_Right-1@161-Ant3-1--PASS-see graph



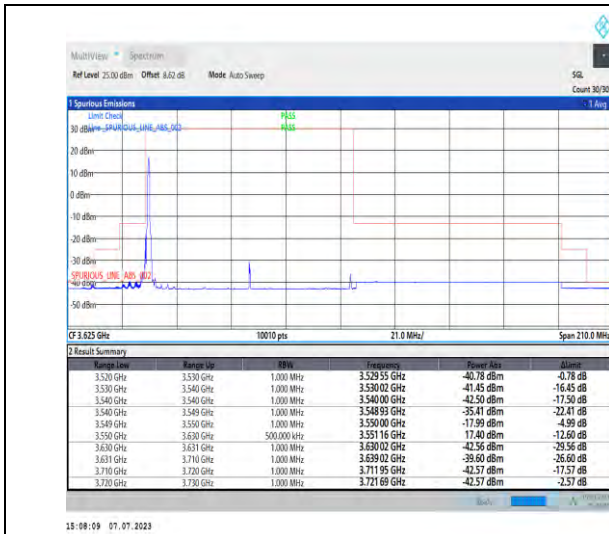
1-N48-PC3-30-60-H-6-CP-QPSK-Outer\_Full-162@0-Ant3-1--PASS-see graph



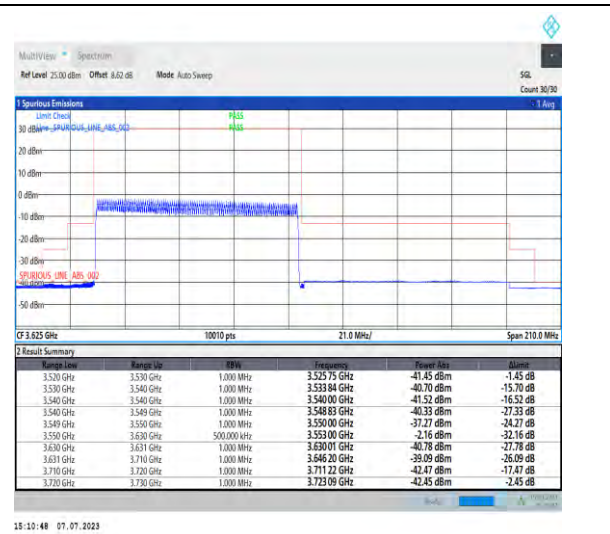
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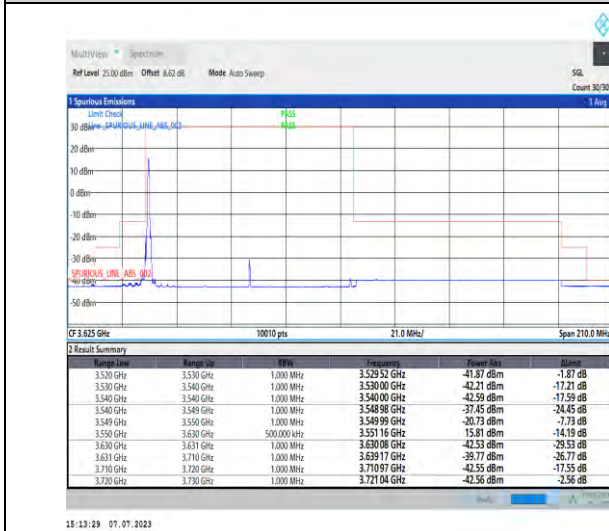
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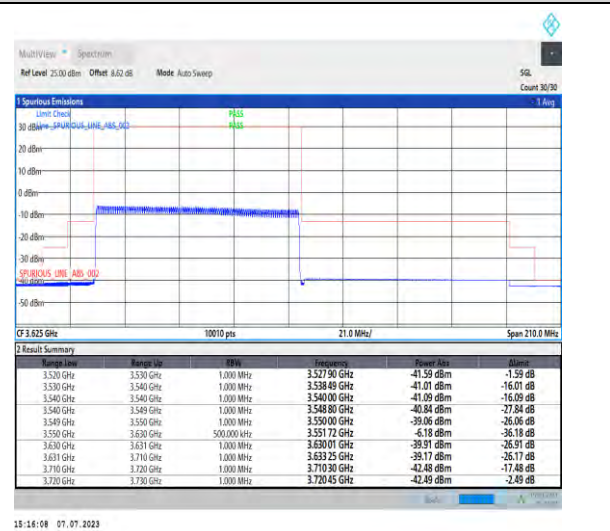
1-N48-PC3-30-80-L-1-DFT-PI2BPSK-Edge\_1RB\_Left  
-1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-80-L-3-DFT-PI2BPSK-Outer\_Full-10  
0@0-Ant3-1--PASS-see graph



1-N48-PC3-30-80-L-4-CP-QPSK-Edge\_1RB\_Left-1@  
0-Ant3-1--PASS-see graph



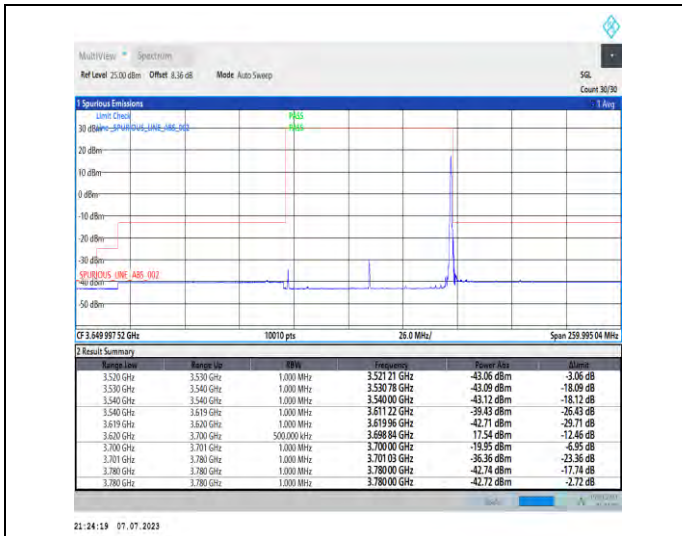
1-N48-PC3-30-80-L-6-CP-QPSK-Outer\_Full-217@  
0-Ant3-1--PASS-see graph



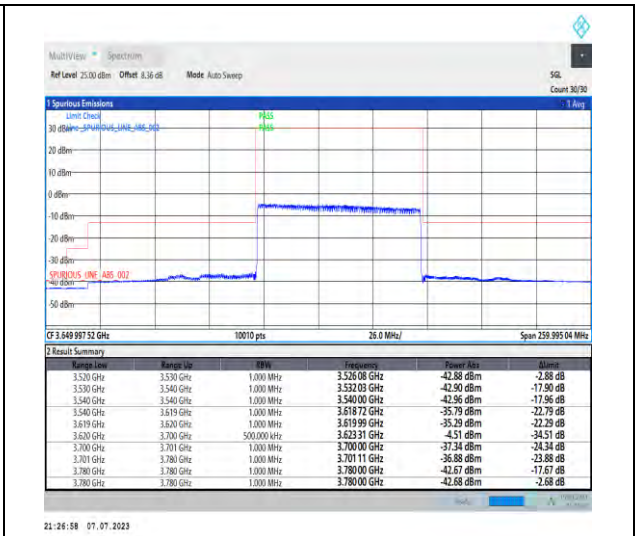
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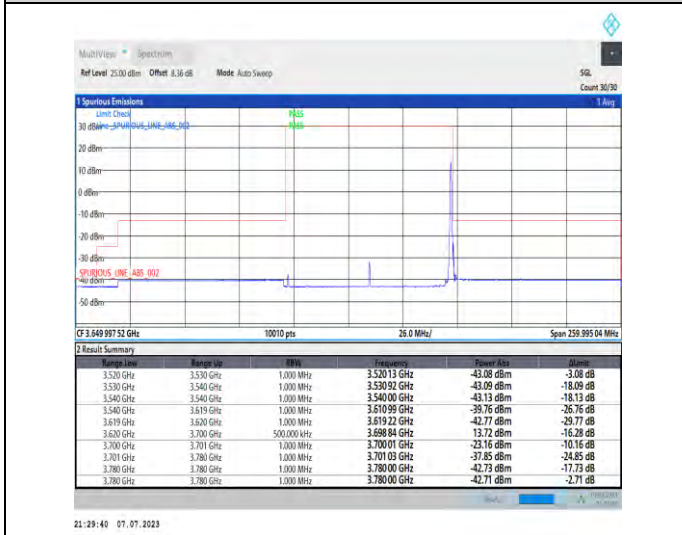
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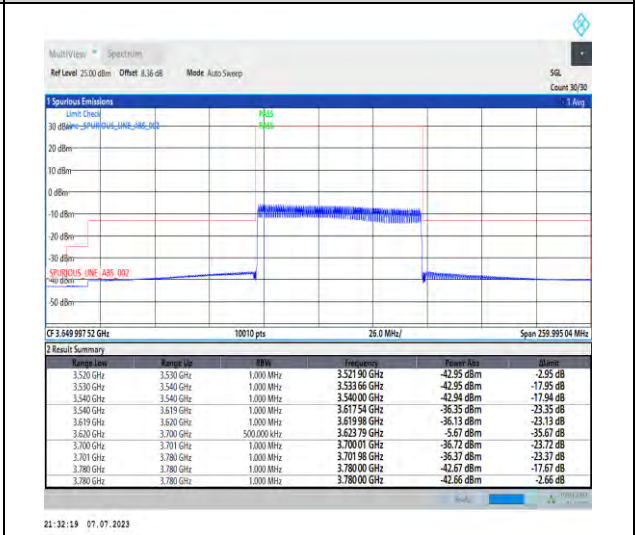
1-N48-PC3-30-80-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-t-1@216-Ant3-1--PASS-see graph



1-N48-PC3-30-80-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant3-1--PASS-see graph



1-N48-PC3-30-80-H-5-CP-QPSK-Edge\_1RB\_Right-1@216-Ant3-1--PASS-see graph



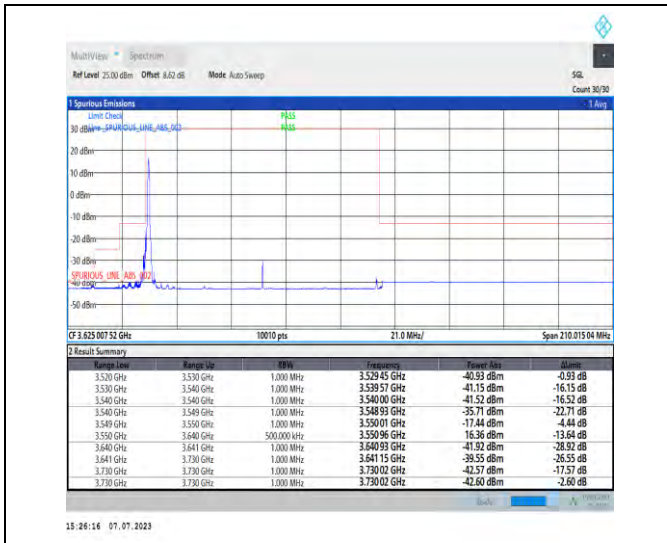
1-N48-PC3-30-80-H-6-CP-QPSK-Outer\_Full-217@0-Ant3-1--PASS-see graph



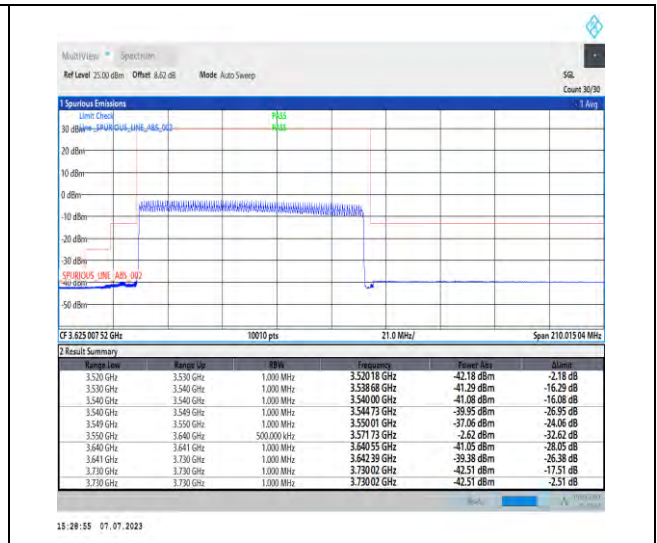
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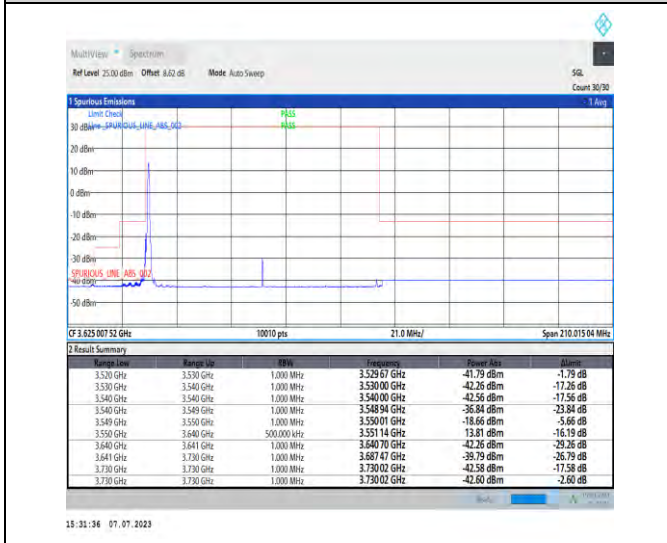
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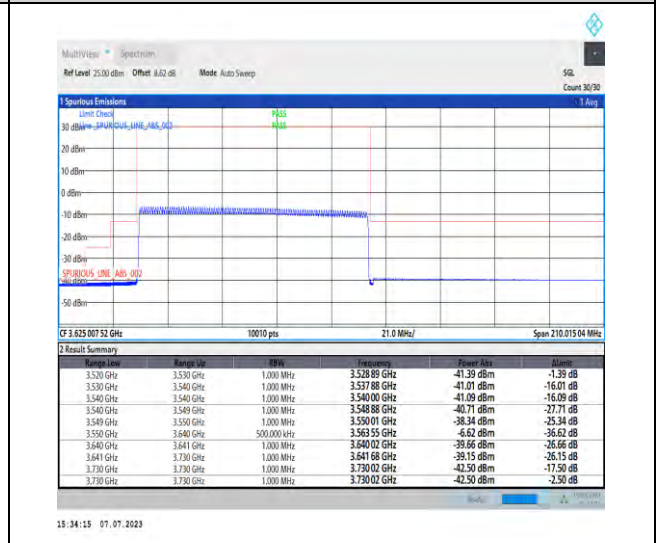
1-N48-PC3-30-90-L-1-DFT-PI2BPSK-Edge\_1RB\_Left  
 -1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-90-L-3-DFT-PI2BPSK-Outer\_Full-24  
 0@0-Ant3-1--PASS-see graph



1-N48-PC3-30-90-L-4-CP-QPSK-Edge\_1RB\_Left-1@  
 0-Ant3-1--PASS-see graph



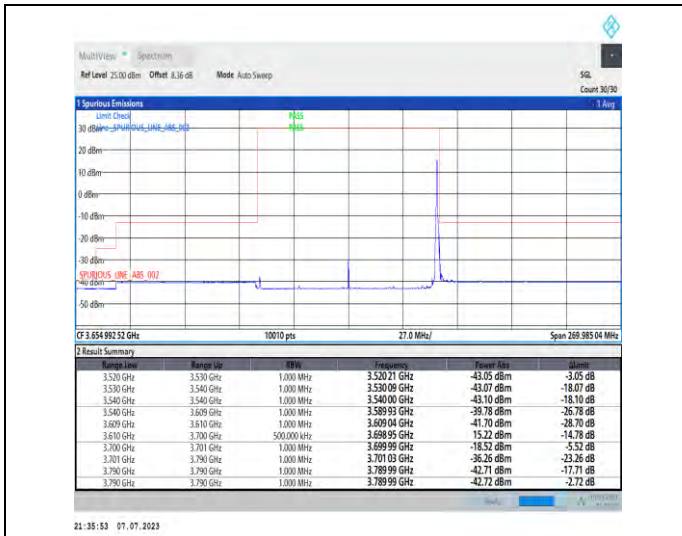
1-N48-PC3-30-90-L-6-CP-QPSK-Outer\_Full-245@  
 0-Ant3-1--PASS-see graph



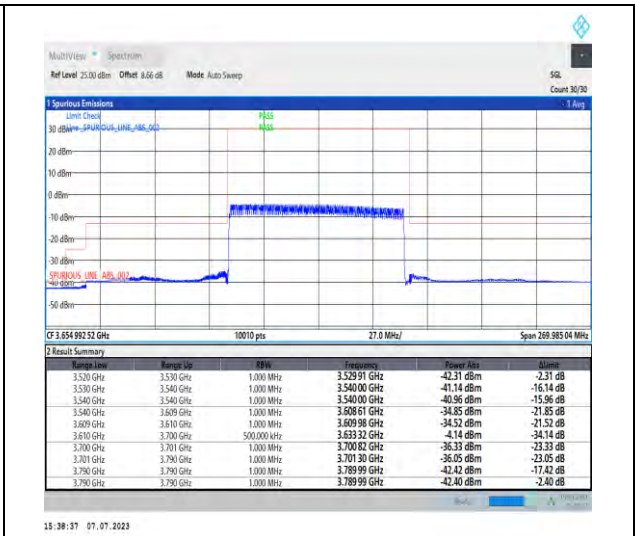
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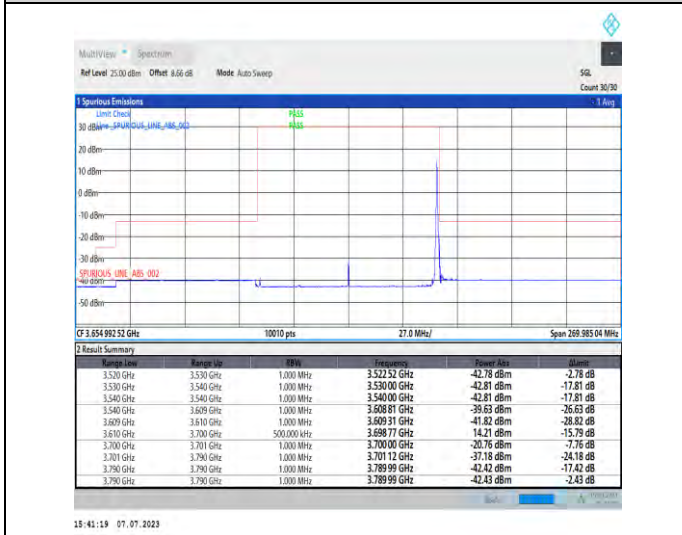
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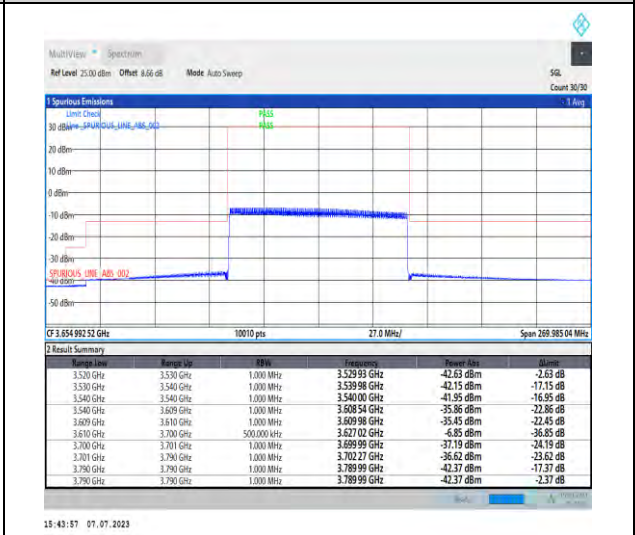
1-N48-PC3-30-90-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-t-1@244-Ant3-1--PASS-see graph



1-N48-PC3-30-90-H-3-DFT-PI2BPSK-Outer\_Full-240@0-Ant3-1--PASS-see graph



1-N48-PC3-30-90-H-5-CP-QPSK-Edge\_1RB\_Right-1@244-Ant3-1--PASS-see graph

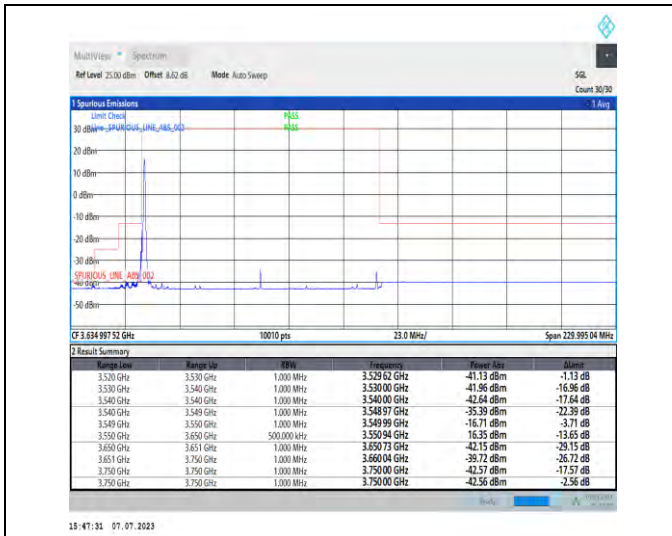


1-N48-PC3-30-90-H-6-CP-QPSK-Outer\_Full-245@0-Ant3-1--PASS-see graph

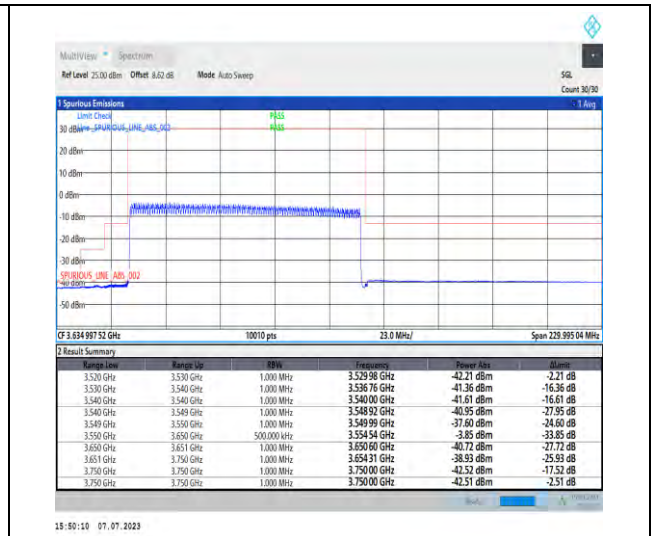


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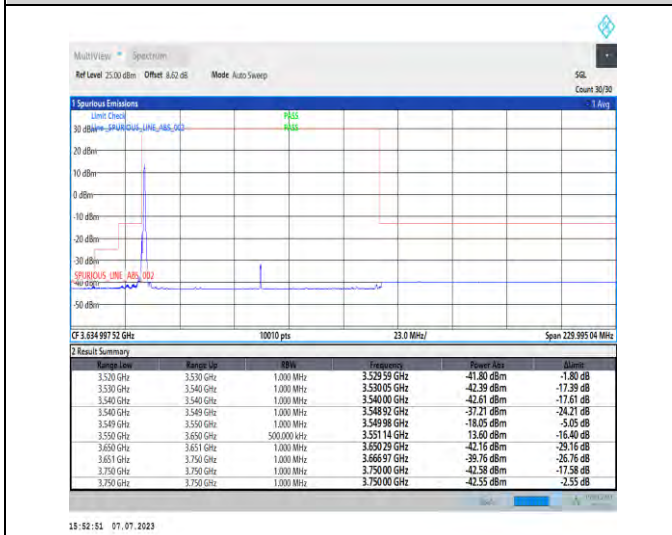
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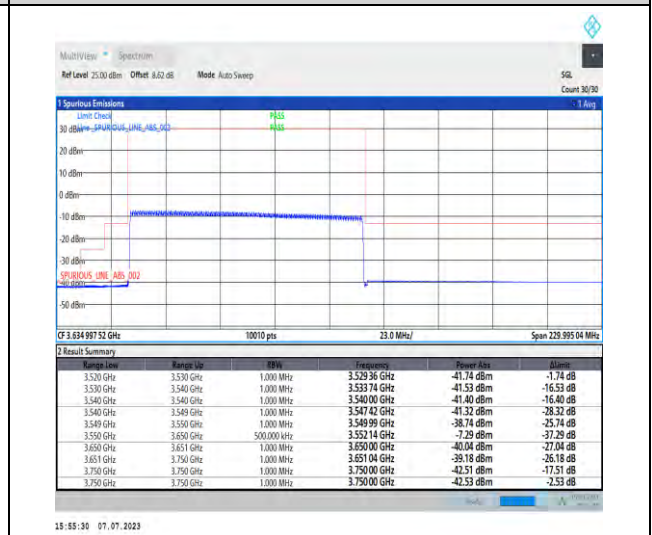
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1-N48-PC3-30-100-L-3-DFT-PI2BPSK-Outer\_Full-5 1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-100-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant3-1--PASS-see graph



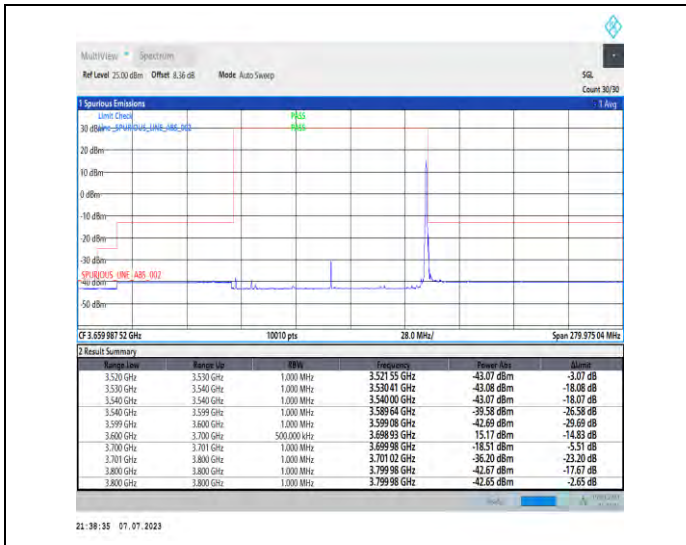
1-N48-PC3-30-100-L-6-CP-QPSK-Outer\_Full-273 @0-Ant3-1--PASS-see graph



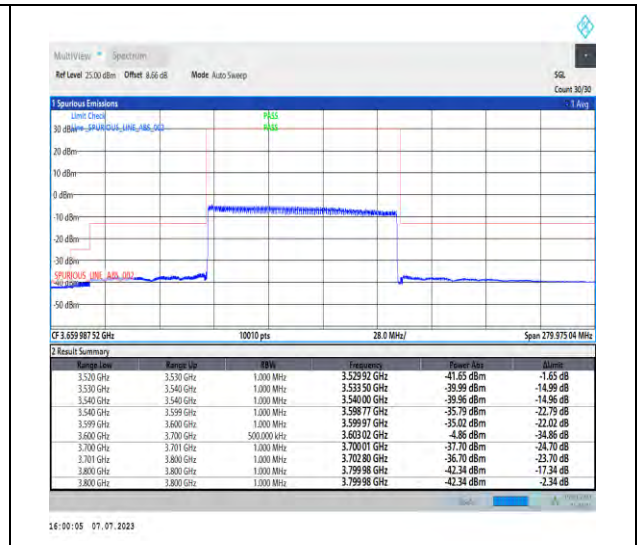
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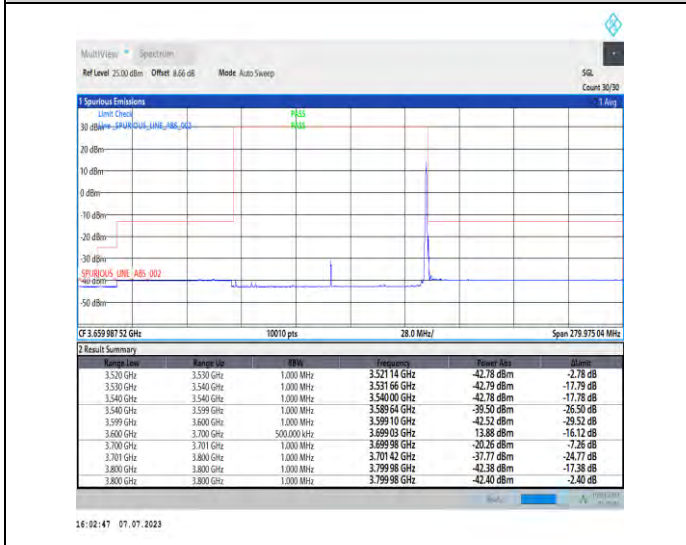
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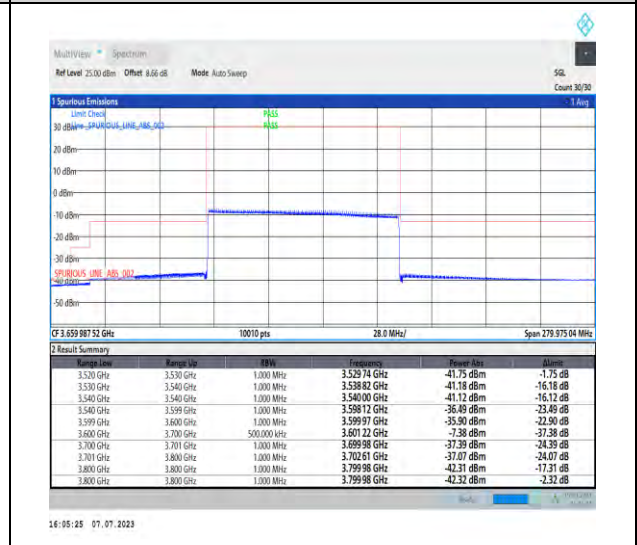
1-N48-PC3-30-100-H-2-DFT-PI2BPSK-Edge\_1RB\_Rig ht-1@272-Ant3-1--PASS-see graph



1-N48-PC3-30-100-H-3-DFT-PI2BPSK-Outer\_Full -51@0-Ant3-1--PASS-see graph



1-N48-PC3-30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1 @272-Ant3-1--PASS-see graph



1-N48-PC3-30-100-H-6-CP-QPSK-Outer\_Full-273 @0-Ant3-1--PASS-see graph



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**Conducted Spurious Emission for SA**  
**Test Graphs**

<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant3-0.02--76.40--70-P ASS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant3-0.15--75.44--60-PASS</p>
<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant3-39.99--59.72--50-PASS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2999.80--49.38--40-PASS</p>



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<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-7102.65--46.14--40-PASS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-40000-Ant3-12000.00--46.34--40-PASS</p>
<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.30-Ant3-0.02--81.39--70-PASS</p>	<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.30-30-Ant3-0.30--82.64--60-PASS</p>



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<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant3-51.83--59.72--50-PA                  SS</p>	<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2990.40--49.23--40-PASS</p>
<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-6505.05--48.35--40-PASS</p>	<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-40000-Ant3-12000.00--46.54--40-PASS</p>



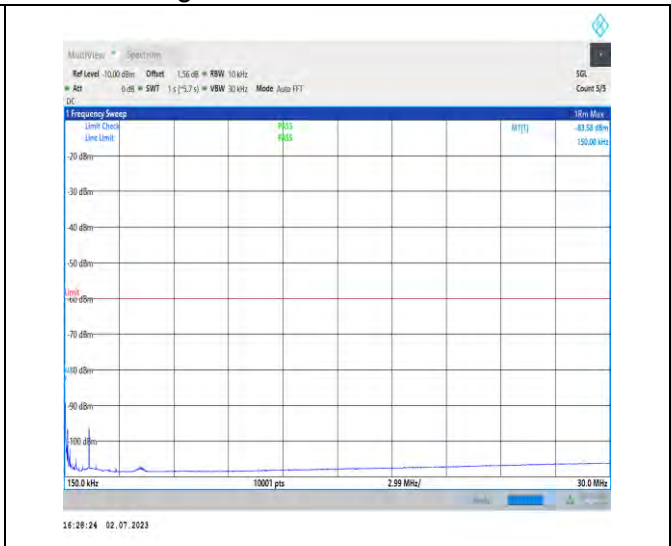
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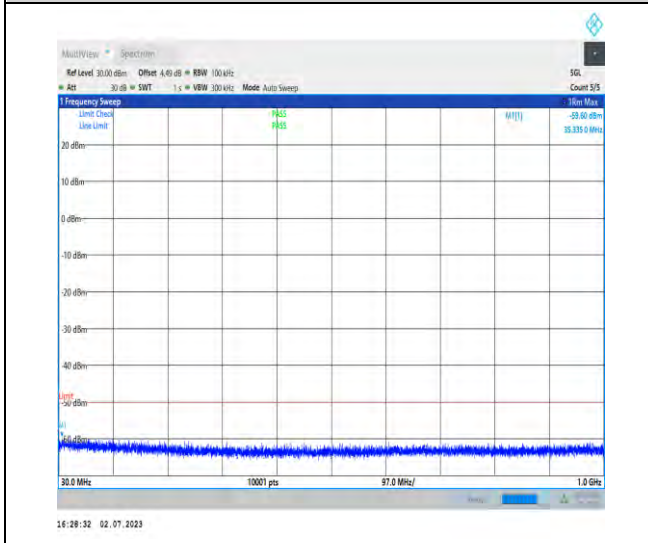
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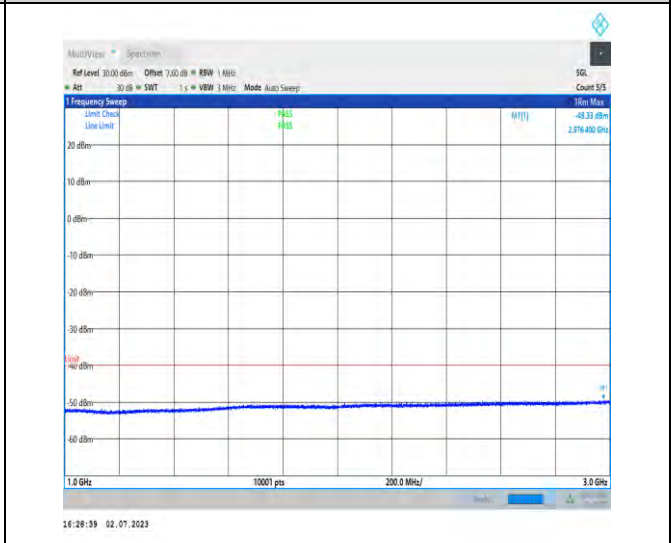
1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.30-Ant3-0.14--79.75--70-P ASS



1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.30-30-Ant3-0.30--83.58--60-PASS



1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant3-35.34--59.60--50-PA SS



1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-3000-Ant3-2976.40--49.33--40-PASS



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<p>1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-6473.55--48.32--40-PASS</p>	<p>1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-40000-Ant3-12000.00--46.44--40-PASS</p>



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### Conducted Spurious Emission for SA MIMO ANT3

#### Test Graphs

<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.30-Ant3-0.14--81.38--70-P ASS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.30-30-Ant3-0.30--82.47--60-PASS</p>
<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant3-40.09--59.51--50-PA SS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2853.40--49.11--40-PASS</p>



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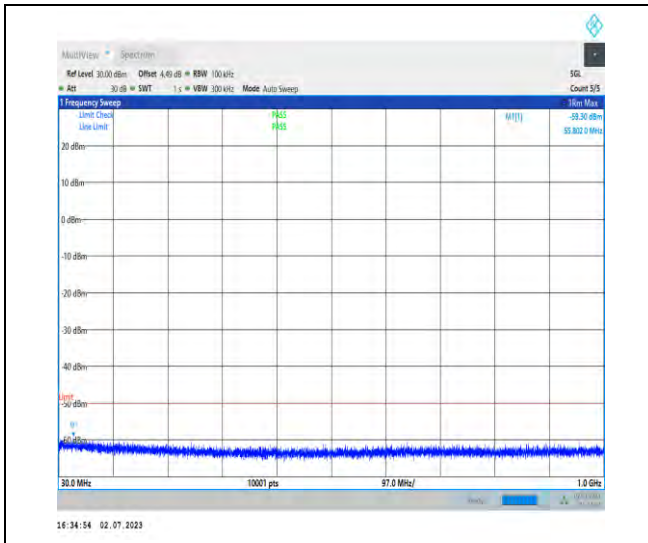
<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-6509.10--48.12--40-PASS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-40000-Ant3-12000.00--46.51--40-PASS</p>
<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.30-Ant3-0.02--82.62--70-PASS</p>	<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.30-30-Ant3-0.30--83.19--60-PASS</p>



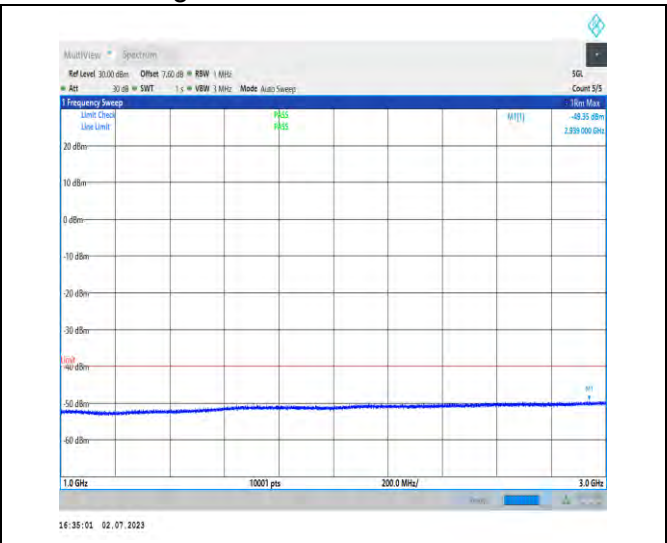
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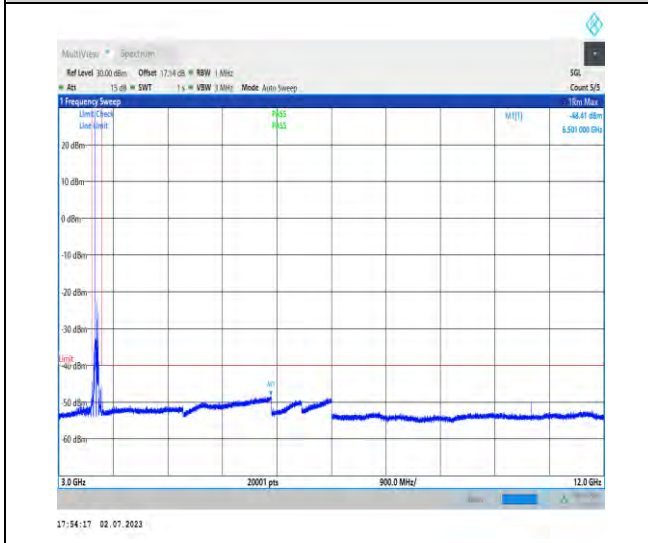
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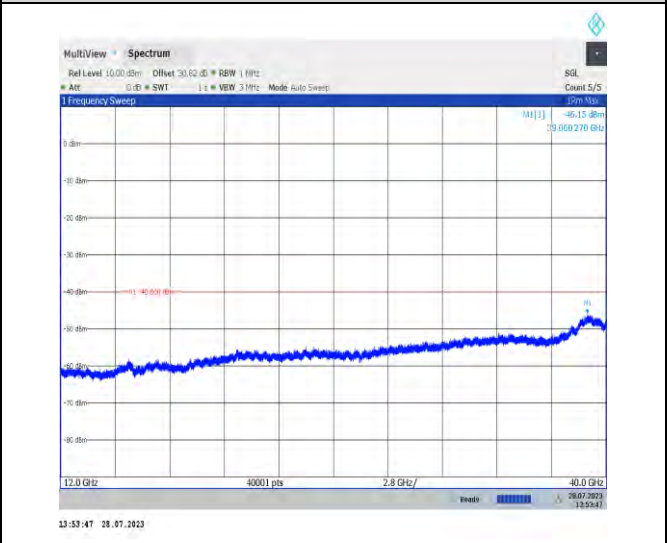
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 SS



1-N48-PC3-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-3000-Ant3-2990.40--49.35--40-PASS



1-N48-PC3-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-Ant3-6505.05--48.22--40-PASS



1-N48-PC3-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-12000-40000-Ant3-12000.00--46.30--40-PASS



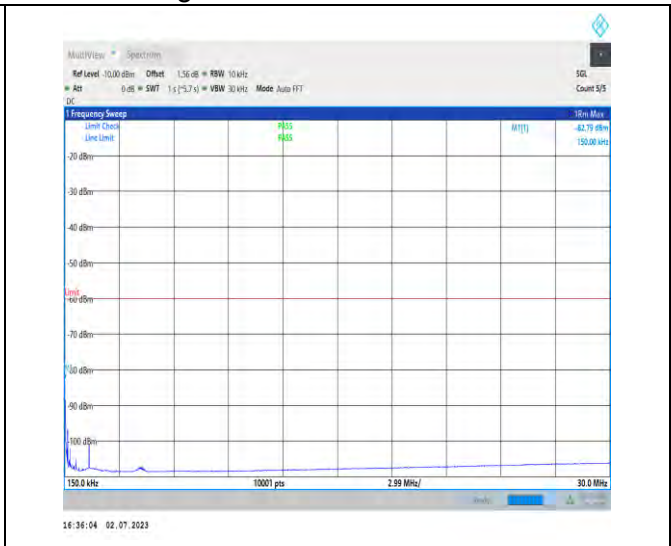
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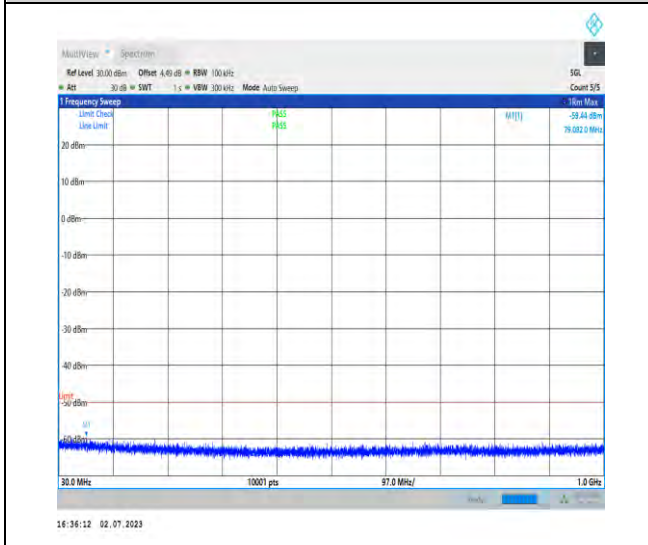




1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.30-Ant3-0.14--81.29--70-P ASS



1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.30-30-Ant3-0.30--82.79--60-PASS



1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant3-35.34--59.44--50-PA SS

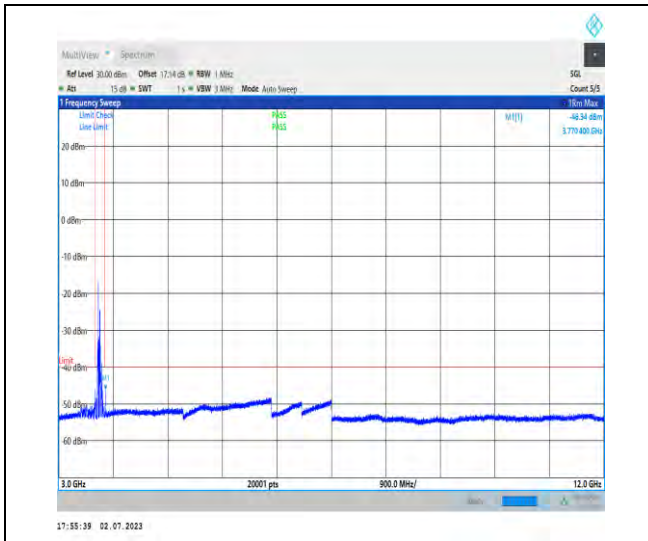


1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-3000-Ant3-2976.40--49.29--40-PASS

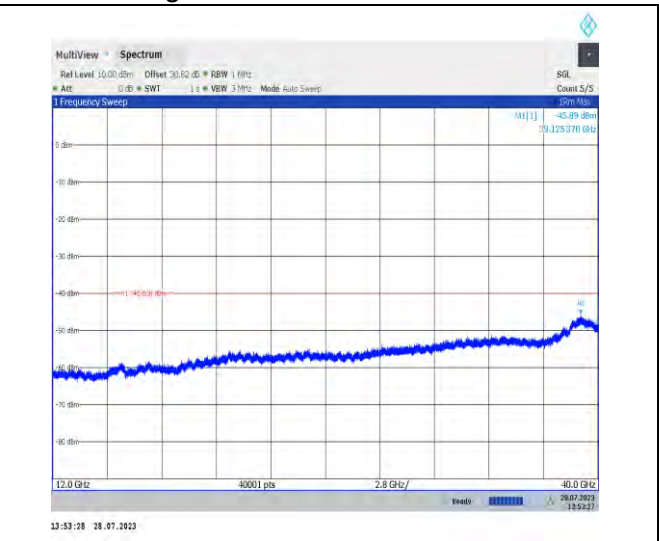


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1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-Ant3-6473.55--47.45--40-PASS



1-N48-PC3-30-100-H-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-12000-40000-Ant3-12000.00--46.31--40-PASS



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## Field Strength of Spurious Radiation

Test Band = NR Band48\_ 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	7640.225	39.55	-42.82	36.66	-61.88	-40.00	21.88	Horizontal
2	8658.55	36.77	-41.15	36.47	-63.17	-40.00	23.17	Horizontal
3	10008.65	32.77	-39.32	38.20	-63.61	-40.00	23.61	Horizontal
4	11220.175	29.90	-36.73	38.72	-63.37	-40.00	23.37	Horizontal
5	12206.875	28.47	-37.08	38.86	-65.01	-40.00	25.01	Horizontal
6	13976.15	27.00	-34.97	40.86	-62.37	-40.00	22.37	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8368.75	37.18	-41.53	36.62	-62.99	-40.00	22.99	Vertical
2	9555.55	34.75	-39.54	37.36	-62.69	-40.00	22.69	Vertical
3	10078.225	32.24	-38.85	38.24	-63.63	-40.00	23.63	Vertical
4	11141.4	30.27	-37.27	38.71	-63.55	-40.00	23.55	Vertical
5	12716.325	27.75	-36.80	39.01	-65.29	-40.00	25.29	Vertical
6	13461.525	27.12	-36.43	39.93	-64.64	-40.00	24.64	Vertical



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**Test Band = NR Band48\_ 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	8358.975	37.60	-41.58	36.62	-62.61	-40.00	22.61	Horizontal
2	9650.425	34.24	-39.34	37.54	-62.83	-40.00	22.83	Horizontal
3	10347.9	32.12	-38.85	38.37	-63.62	-40.00	23.62	Horizontal
4	12213.2	28.77	-37.05	38.86	-64.67	-40.00	24.67	Horizontal
5	13964.65	26.90	-35.06	40.84	-62.58	-40.00	22.58	Horizontal
6	14677.075	26.20	-34.90	41.17	-62.78	-40.00	22.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8019.15	38.20	-41.98	36.79	-62.25	-40.00	22.25	Vertical
2	8960.425	36.64	-40.89	36.32	-63.19	-40.00	23.19	Vertical
3	10102.375	32.56	-38.71	38.25	-63.16	-40.00	23.16	Vertical
4	11276.525	29.97	-37.08	38.73	-63.64	-40.00	23.64	Vertical
5	12866.975	27.92	-36.79	39.06	-65.07	-40.00	25.07	Vertical
6	15058.875	25.50	-34.46	41.18	-63.04	-40.00	23.04	Vertical



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**Test Band = NR Band48\_ 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	7905.3	38.76	-42.71	36.76	-62.45	-40.00	22.45	Horizontal
2	8958.125	36.48	-40.89	36.32	-63.35	-40.00	23.35	Horizontal
3	9997.15	32.66	-39.37	38.19	-63.78	-40.00	23.78	Horizontal
4	10823.425	29.97	-38.32	38.61	-64.99	-40.00	24.99	Horizontal
5	12209.175	28.09	-37.07	38.86	-65.37	-40.00	25.37	Horizontal
6	14302.175	27.16	-35.84	41.02	-62.92	-40.00	22.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7963.375	38.21	-42.35	36.79	-62.62	-40.00	22.62	Vertical
2	9556.7	35.52	-39.53	37.36	-61.91	-40.00	21.91	Vertical
3	10389.3	31.99	-38.75	38.39	-63.62	-40.00	23.62	Vertical
4	11565.175	27.12	-36.82	38.76	-66.20	-40.00	26.20	Vertical
5	12861.225	27.76	-36.77	39.06	-65.21	-40.00	25.21	Vertical
6	13923.25	27.23	-35.39	40.76	-62.65	-40.00	22.65	Vertical



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**Test Band = ULMIMO Band48\_ 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	7627.575	38.89	-42.80	36.65	-62.52	-40.00	22.52	Horizontal
2	8942.6	36.35	-40.89	36.33	-63.47	-40.00	23.47	Horizontal
3	10466.35	31.36	-38.75	38.43	-64.21	-40.00	24.21	Horizontal
4	11767	25.64	-36.83	38.78	-67.68	-40.00	27.68	Horizontal
5	13625.975	26.78	-36.03	40.23	-64.28	-40.00	24.28	Horizontal
6	15809.825	25.15	-33.17	39.60	-63.68	-40.00	23.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7268.775	39.27	-43.42	35.95	-63.45	-40.00	23.45	Vertical
2	8699.95	36.12	-41.34	36.45	-64.03	-40.00	24.03	Vertical
3	9858.575	30.96	-39.14	37.93	-65.51	-40.00	25.51	Vertical
4	10710.15	29.41	-37.59	38.56	-64.88	-40.00	24.88	Vertical
5	13047.525	26.30	-36.97	39.19	-66.75	-40.00	26.75	Vertical
6	15155.475	25.61	-34.08	40.97	-62.76	-40.00	22.76	Vertical



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**Test Band = ULMIMO Band48\_ 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	7652.875	39.08	-42.85	36.66	-62.37	-40.00	22.37	Horizontal
2	9098.425	34.96	-40.42	36.49	-64.23	-40.00	24.23	Horizontal
3	10383.55	31.06	-38.76	38.39	-64.57	-40.00	24.57	Horizontal
4	11236.85	29.51	-36.83	38.72	-63.86	-40.00	23.86	Horizontal
5	13436.8	26.09	-36.28	39.89	-65.57	-40.00	25.57	Horizontal
6	14985.85	23.98	-34.52	41.29	-64.51	-40.00	24.51	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7643.675	38.83	-42.83	36.66	-62.60	-40.00	22.60	Vertical
2	8958.7	36.08	-40.89	36.32	-63.75	-40.00	23.75	Vertical
3	9555.55	34.82	-39.54	37.36	-62.62	-40.00	22.62	Vertical
4	10949.35	27.93	-37.70	38.67	-66.36	-40.00	26.36	Vertical
5	13847.35	27.14	-35.93	40.63	-63.42	-40.00	23.42	Vertical
6	15120.4	24.79	-34.33	41.05	-63.76	-40.00	23.76	Vertical



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**Test Band = ULMIMO Band48\_ 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	7506.825	39.06	-43.14	36.60	-62.74	-40.00	22.74	Horizontal
2	8944.325	36.00	-40.89	36.33	-63.82	-40.00	23.82	Horizontal
3	9826.375	30.81	-39.10	37.87	-65.68	-40.00	25.68	Horizontal
4	10467.5	30.58	-38.75	38.43	-64.99	-40.00	24.99	Horizontal
5	12073.475	27.49	-37.19	38.82	-66.14	-40.00	26.14	Horizontal
6	13839.875	26.71	-35.98	40.61	-63.92	-40.00	23.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7810.425	38.43	-42.60	36.72	-62.70	-40.00	22.70	Vertical
2	8931.675	36.22	-40.90	36.33	-63.60	-40.00	23.60	Vertical
3	9869.5	31.00	-39.16	37.95	-65.47	-40.00	25.47	Vertical
4	10949.925	28.31	-37.70	38.67	-65.98	-40.00	25.98	Vertical
5	12477.125	26.02	-36.96	38.94	-67.26	-40.00	27.26	Vertical
6	13991.1	24.90	-34.85	40.88	-64.33	-40.00	24.33	Vertical



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**Test Band = NR N2A\_N48A\_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	7765	38.89	-42.71	36.71	-62.37	-40.00	22.37	Horizontal
2	9122	34.57	-40.31	36.53	-64.47	-40.00	24.47	Horizontal
3	10495.1	31.37	-38.76	38.45	-64.20	-40.00	24.20	Horizontal
4	12075.2	27.90	-37.19	38.82	-65.72	-40.00	25.72	Horizontal
5	13839.875	27.53	-35.98	40.61	-63.10	-40.00	23.10	Horizontal
6	15808.675	25.24	-33.15	39.60	-63.57	-40.00	23.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7746.025	39.05	-42.78	36.70	-62.29	-40.00	22.29	Vertical
2	9649.275	34.02	-39.34	37.53	-63.04	-40.00	23.04	Vertical
3	10079.95	32.35	-38.84	38.24	-63.51	-40.00	23.51	Vertical
4	12205.725	28.01	-37.08	38.86	-65.47	-40.00	25.47	Vertical
5	13856.55	27.16	-35.87	40.64	-63.32	-40.00	23.32	Vertical
6	15082.45	25.24	-34.47	41.13	-63.36	-40.00	23.36	Vertical



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**Test Band = NR N2A\_N48A\_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	7328	39.32	-43.18	36.12	-63.00	-40.00	23.00	Horizontal
2	8954.1	36.97	-40.89	36.32	-62.86	-40.00	22.86	Horizontal
3	9607.3	34.56	-39.22	37.45	-62.47	-40.00	22.47	Horizontal
4	11227.075	30.06	-36.77	38.72	-63.25	-40.00	23.25	Horizontal
5	13915.775	27.79	-35.45	40.75	-62.17	-40.00	22.17	Horizontal
6	15154.9	26.60	-34.08	40.97	-61.77	-40.00	21.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7871.95	39.03	-42.70	36.75	-62.18	-40.00	22.18	Vertical
2	9855.7	32.20	-39.14	37.93	-64.27	-40.00	24.27	Vertical
3	11445	30.36	-37.06	38.74	-63.22	-40.00	23.22	Vertical
4	12838.225	28.49	-36.72	39.05	-64.43	-40.00	24.43	Vertical
5	15320.5	25.95	-33.95	40.63	-62.63	-40.00	22.63	Vertical
6	17164.525	28.78	-34.41	43.04	-57.85	-40.00	17.85	Vertical



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**Test Band = NR N2A\_N48A\_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	7748.325	39.27	-42.77	36.70	-62.06	-40.00	22.06	Horizontal
2	8594.725	37.07	-40.94	36.50	-62.63	-40.00	22.63	Horizontal
3	9153.625	35.32	-40.16	36.59	-63.51	-40.00	23.51	Horizontal
4	10091.45	32.81	-38.76	38.25	-62.96	-40.00	22.96	Horizontal
5	11166.7	30.82	-36.98	38.72	-62.71	-40.00	22.71	Horizontal
6	13924.975	27.46	-35.37	40.76	-62.41	-40.00	22.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8253.75	38.04	-42.00	36.67	-62.55	-40.00	22.55	Vertical
2	9417.55	34.91	-39.93	37.09	-63.18	-40.00	23.18	Vertical
3	10062.125	32.65	-38.96	38.23	-63.34	-40.00	23.34	Vertical
4	10669.9	30.90	-37.65	38.53	-63.47	-40.00	23.47	Vertical
5	12228.725	28.45	-36.97	38.87	-64.92	-40.00	24.92	Vertical
6	13778.35	27.93	-36.19	40.50	-63.02	-40.00	23.02	Vertical



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**Test Band = NR N5A\_N48A\_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	8094.475	36.63	-41.38	36.75	-63.26	-40.00	23.26	Horizontal
2	10278.325	32.06	-39.04	38.34	-63.90	-40.00	23.90	Horizontal
3	11228.8	29.17	-36.78	38.72	-64.15	-40.00	24.15	Horizontal
4	12879.625	27.73	-36.82	39.06	-65.29	-40.00	25.29	Horizontal
5	14481	25.88	-34.39	41.09	-62.68	-40.00	22.68	Horizontal
6	15789.7	25.83	-33.08	39.64	-62.87	-40.00	22.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7621.25	39.22	-42.78	36.65	-62.18	-40.00	22.18	Vertical
2	10051.775	32.43	-39.03	38.23	-63.63	-40.00	23.63	Vertical
3	10374.925	31.60	-38.78	38.39	-64.06	-40.00	24.06	Vertical
4	11224.2	29.59	-36.75	38.72	-63.70	-40.00	23.70	Vertical
5	12093.025	28.05	-37.19	38.83	-65.57	-40.00	25.57	Vertical
6	14508.6	25.82	-34.33	41.10	-62.66	-40.00	22.66	Vertical



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**Test Band = NR N5A\_N48A\_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	7617.225	39.10	-42.78	36.65	-62.29	-40.00	22.29	Horizontal
2	8936.85	36.68	-40.90	36.33	-63.14	-40.00	23.14	Horizontal
3	10023.6	33.01	-39.22	38.21	-63.26	-40.00	23.26	Horizontal
4	11209.825	29.25	-36.66	38.72	-63.95	-40.00	23.95	Horizontal
5	13379.875	26.43	-36.26	39.78	-65.31	-40.00	25.31	Horizontal
6	14577.025	26.12	-35.09	41.13	-63.10	-40.00	23.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7441.85	39.74	-42.95	36.44	-62.03	-40.00	22.03	Vertical
2	8403.825	38.30	-41.39	36.60	-61.75	-40.00	21.75	Vertical
3	9602.7	34.67	-39.21	37.45	-62.35	-40.00	22.35	Vertical
4	11607.725	26.86	-36.91	38.76	-66.55	-40.00	26.55	Vertical
5	13913.475	26.99	-35.46	40.74	-62.99	-40.00	22.99	Vertical
6	17201.325	28.74	-34.79	43.21	-58.10	-40.00	18.10	Vertical



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**Test Band = NR N5A\_N48A\_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	7901.275	39.75	-42.73	36.76	-61.48	-40.00	21.48	Horizontal
2	9129.475	34.64	-40.27	36.55	-64.35	-40.00	24.35	Horizontal
3	10657.25	30.62	-37.71	38.53	-63.82	-40.00	23.82	Horizontal
4	11390.375	29.91	-37.48	38.74	-64.09	-40.00	24.09	Horizontal
5	13366.65	26.84	-36.39	39.76	-65.05	-40.00	25.05	Horizontal
6	15154.9	26.22	-34.08	40.97	-62.15	-40.00	22.15	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7052	40.24	-43.34	35.35	-63.01	-40.00	23.01	Vertical
2	8412.45	38.52	-41.42	36.59	-61.57	-40.00	21.57	Vertical
3	8936.85	36.29	-40.90	36.33	-63.53	-40.00	23.53	Vertical
4	11228.225	29.36	-36.78	38.72	-63.95	-40.00	23.95	Vertical
5	12801.425	27.65	-36.62	39.04	-65.19	-40.00	25.19	Vertical
6	15313.025	25.98	-33.94	40.64	-62.58	-40.00	22.58	Vertical



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**Test Band = NR N48A\_N77A\_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	7620.675	38.83	-42.78	36.65	-62.57	-40.00	22.57	Horizontal
2	9005.85	36.47	-40.84	36.31	-63.32	-40.00	23.32	Horizontal
3	10102.375	32.43	-38.71	38.25	-63.29	-40.00	23.29	Horizontal
4	11162.1	30.15	-37.04	38.72	-63.43	-40.00	23.43	Horizontal
5	12328.775	27.81	-36.74	38.90	-65.29	-40.00	25.29	Horizontal
6	13912.325	27.31	-35.47	40.74	-62.68	-40.00	22.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7599.4	39.52	-42.74	36.64	-61.84	-40.00	21.84	Vertical
2	8936.275	36.66	-40.90	36.33	-63.16	-40.00	23.16	Vertical
3	9641.225	34.47	-39.32	37.52	-62.59	-40.00	22.59	Vertical
4	10495.1	32.27	-38.76	38.45	-63.30	-40.00	23.30	Vertical
5	12224.7	28.44	-36.99	38.87	-64.95	-40.00	24.95	Vertical
6	14609.225	27.12	-35.30	41.14	-62.29	-40.00	22.29	Vertical



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**Test Band = NR N48A\_N77A\_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	7444.725	39.71	-42.96	36.45	-62.06	-40.00	22.06	Horizontal
2	8708.575	37.55	-41.32	36.45	-62.59	-40.00	22.59	Horizontal
3	9642.375	34.10	-39.32	37.52	-62.96	-40.00	22.96	Horizontal
4	10622.75	31.07	-37.89	38.51	-63.57	-40.00	23.57	Horizontal
5	12218.375	28.47	-37.02	38.87	-64.95	-40.00	24.95	Horizontal
6	14501.125	26.15	-34.24	41.10	-62.25	-40.00	22.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7659.775	39.58	-42.87	36.66	-61.88	-40.00	21.88	Vertical
2	8965.6	36.48	-40.88	36.32	-63.35	-40.00	23.35	Vertical
3	10347.9	32.44	-38.85	38.37	-63.30	-40.00	23.30	Vertical
4	11230.525	30.05	-36.79	38.72	-63.28	-40.00	23.28	Vertical
5	13326.975	26.89	-36.76	39.69	-65.45	-40.00	25.45	Vertical
6	14511.475	26.27	-34.36	41.10	-62.24	-40.00	22.24	Vertical



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**Test Band = NR N48A\_N77A\_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	7399.3	40.11	-42.79	36.32	-61.63	-40.00	21.63	Horizontal
2	9067.95	36.38	-40.56	36.43	-63.01	-40.00	23.01	Horizontal
3	10095.475	32.70	-38.73	38.25	-63.04	-40.00	23.04	Horizontal
4	11452.475	29.60	-36.99	38.75	-63.90	-40.00	23.90	Horizontal
5	12861.8	28.27	-36.77	39.06	-64.71	-40.00	24.71	Horizontal
6	13960.05	26.63	-35.10	40.83	-62.90	-40.00	22.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8017.425	38.40	-41.99	36.79	-62.06	-40.00	22.06	Vertical
2	9445.15	35.38	-39.94	37.15	-62.67	-40.00	22.67	Vertical
3	10675.65	30.92	-37.62	38.54	-63.42	-40.00	23.42	Vertical
4	12222.4	28.59	-37.00	38.87	-64.81	-40.00	24.81	Vertical
5	14506.875	26.65	-34.31	41.10	-61.81	-40.00	21.81	Vertical
6	17197.875	29.15	-34.76	43.19	-57.68	-40.00	17.68	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	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-6.200000	-0.03652	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.200000	-0.005641	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-7.200000	-0.003265	PASS
N48	30	100	CP-QPSK	M	Outer_Full	VH	NT	-5.100000	-0.002341	PASS
N48	30	100	CP-QPSK	M	Outer_Full	VN	NT	-4.300000	-0.002534	PASS
N48	30	100	CP-QPSK	M	Outer_Full	VL	NT	-6.200000	-0.002374	PASS

**Frequency Error VS. Temperature**

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-6.500000	-0.003654	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.200000	-0.001254	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-5.100000	-0.002696	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.600000	-0.004125	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-6.100000	-0.002362	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-6.300000	-0.004237	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-5.500000	-0.003284	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-3.600000	-0.002265	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.900000	-0.003654	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	-30	-5.400000	-0.006352	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	-20	-5.200000	-0.003415	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	-10	-8.100000	-0.003542	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	0	-8.300000	-0.002682	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	10	-8.200000	-0.002536	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	20	-7.100000	-0.002536	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	30	-5.200000	-0.005246	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	40	-6.300000	-0.005681	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	50	-7.200000	-0.003652	PASS

---End of Attachment---



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