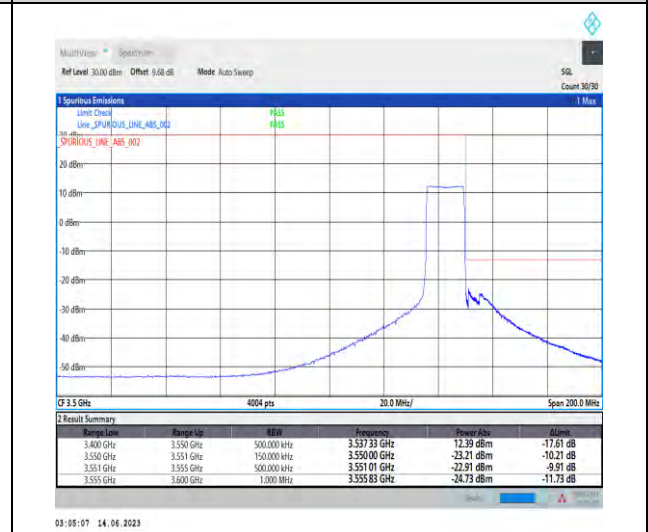
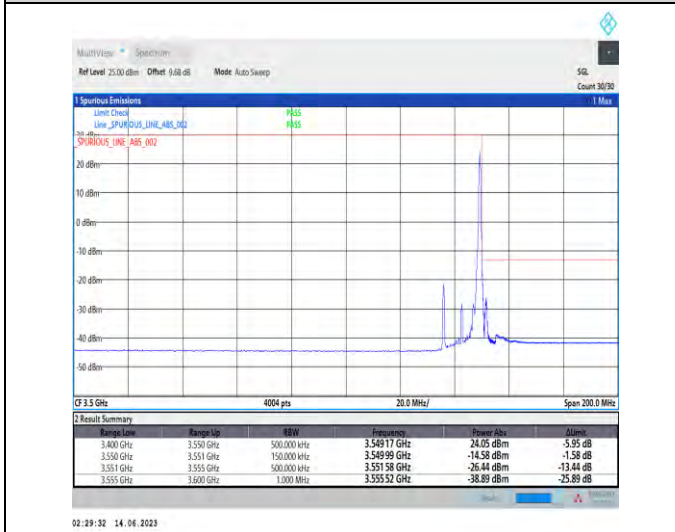


1-N78-3450-3550-PC1.5-30-15-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@37-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-15-H-3-DFT-PI2BPSK-Outer\_Full-36@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-15-H-5-CP-QPSK-Edge\_1RB\_Right-1@37-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-15-H-6-CP-QPSK-Outer\_Full-38@0-Ant1-1--PASS-see graph

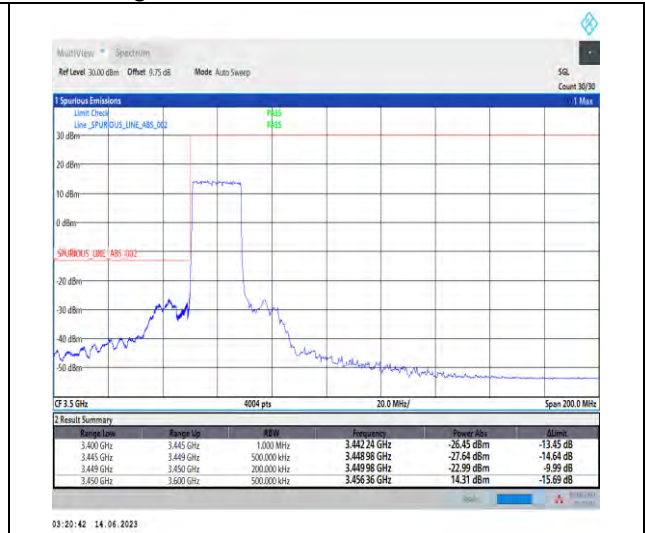
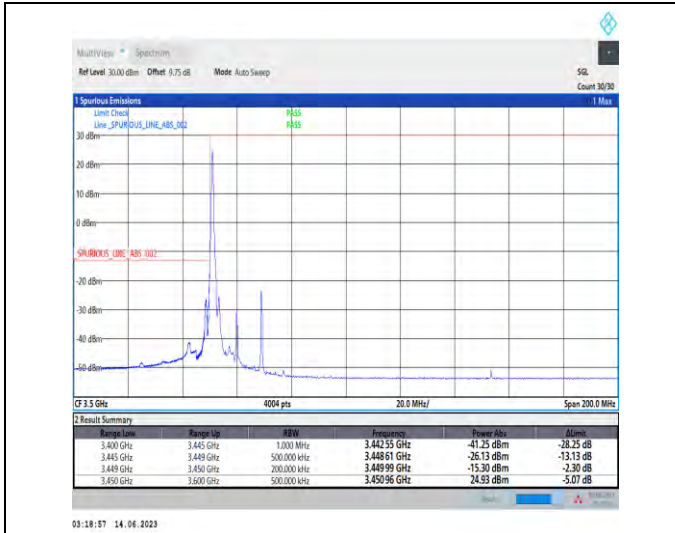


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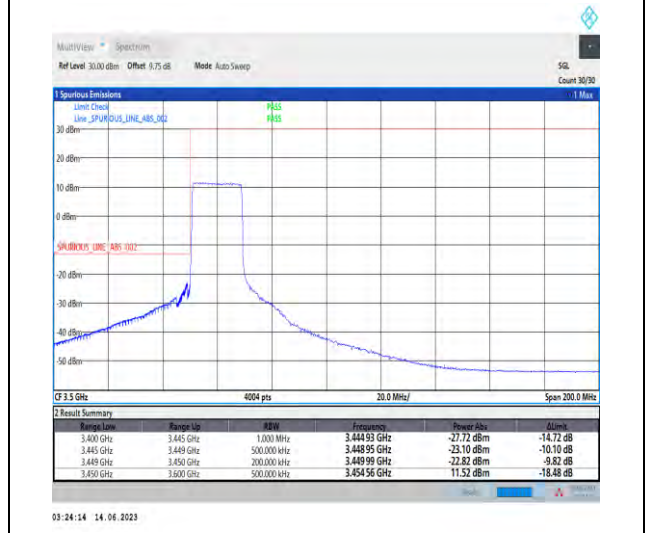
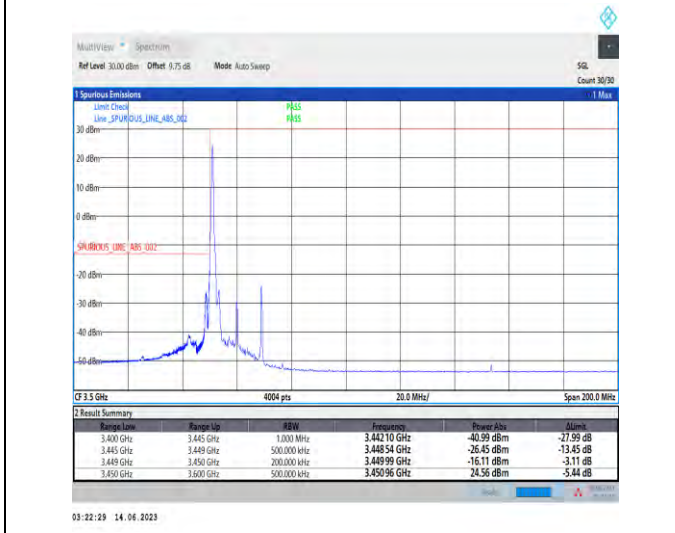
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1-N78-3450-3550-PC1.5-30-20-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-20-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-20-L-6-CP-QPSK-Outer\_Full-51@0-Ant1-1--PASS-see graph



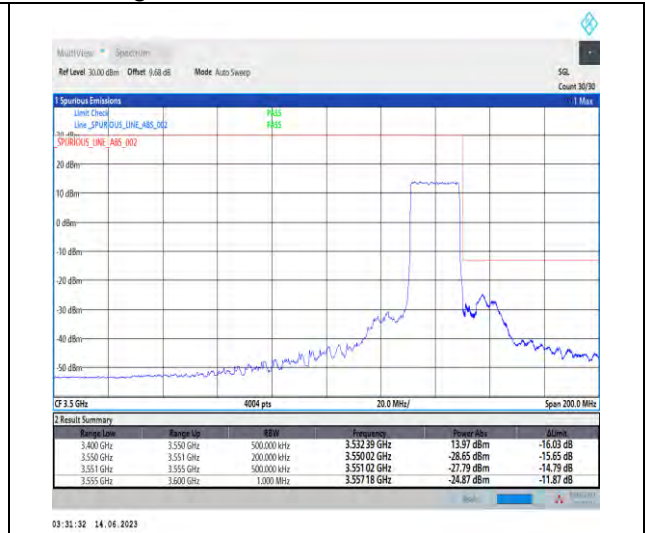
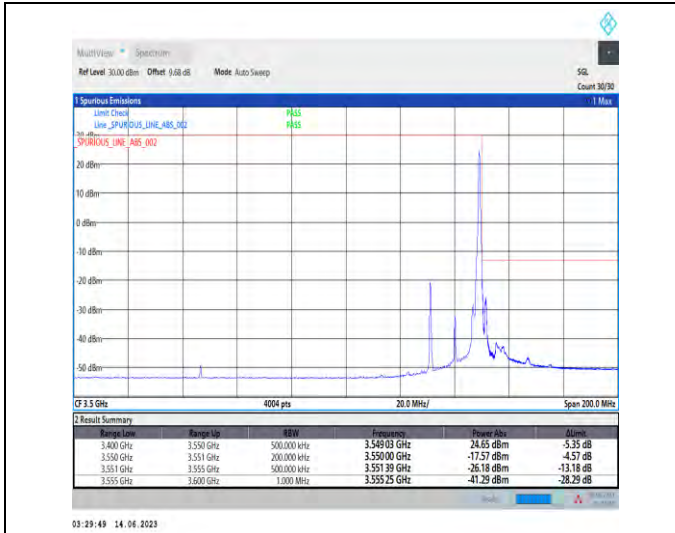
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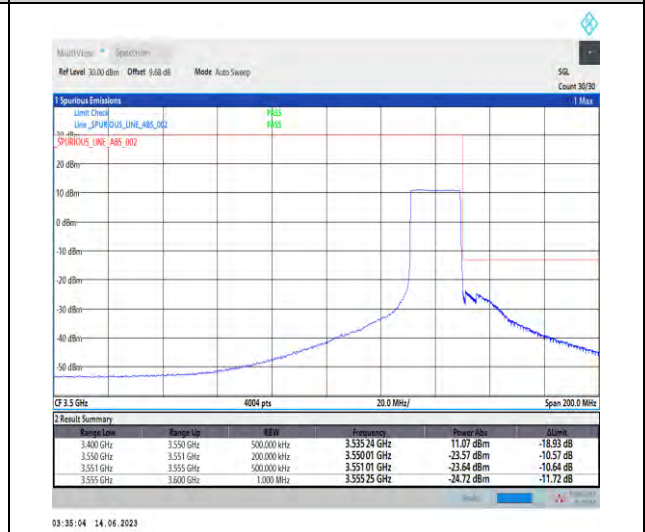
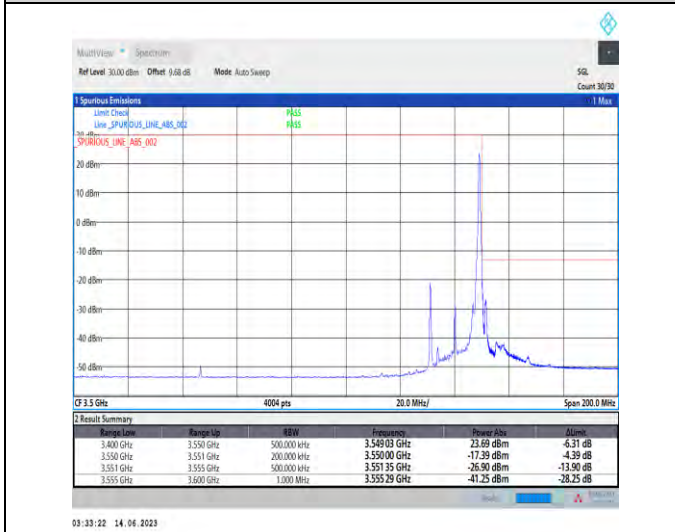
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1-N78-3450-3550-PC1.5-30-20-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@50-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-20-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@50-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-20-H-6-CP-QPSK-Outer\_Full-51@0-Ant1-1--PASS-see graph

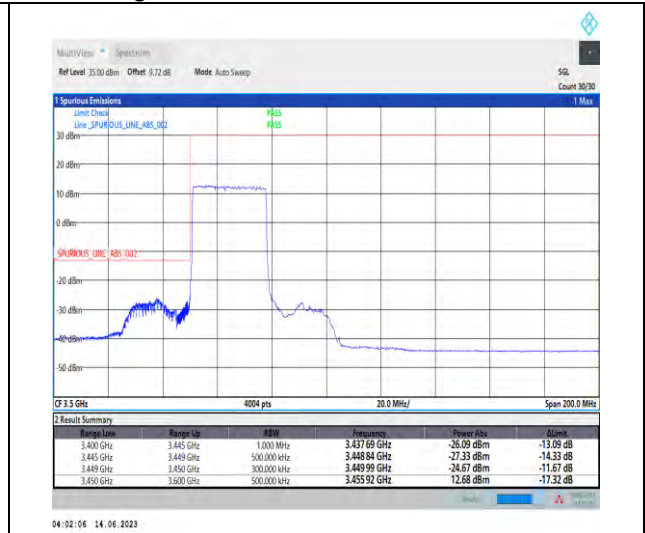
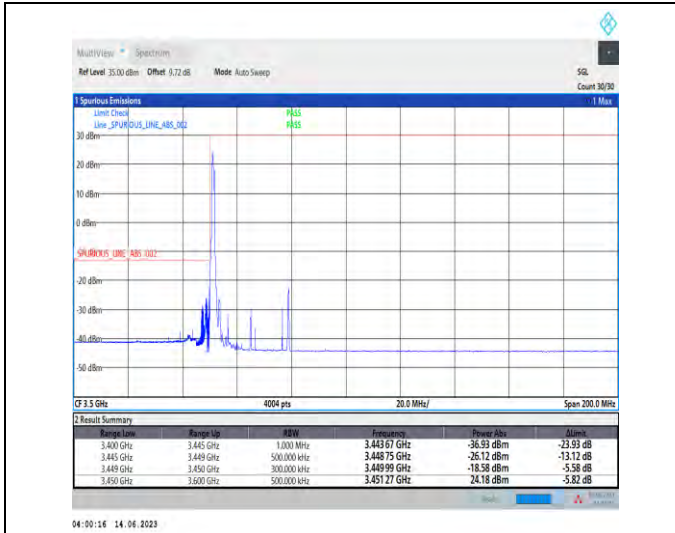


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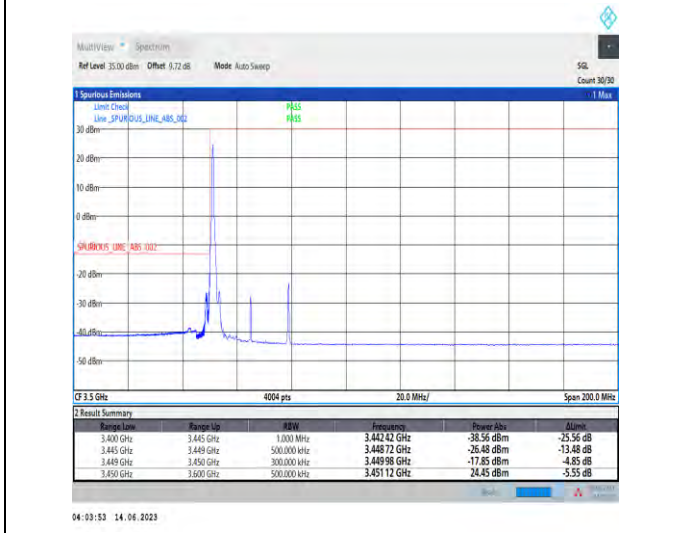
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1-N78-3450-3550-PC1.5-30-30-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-30-L-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-30-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-30-L-6-CP-QPSK-Outer\_Full-78@0-Ant1-1--PASS-see graph



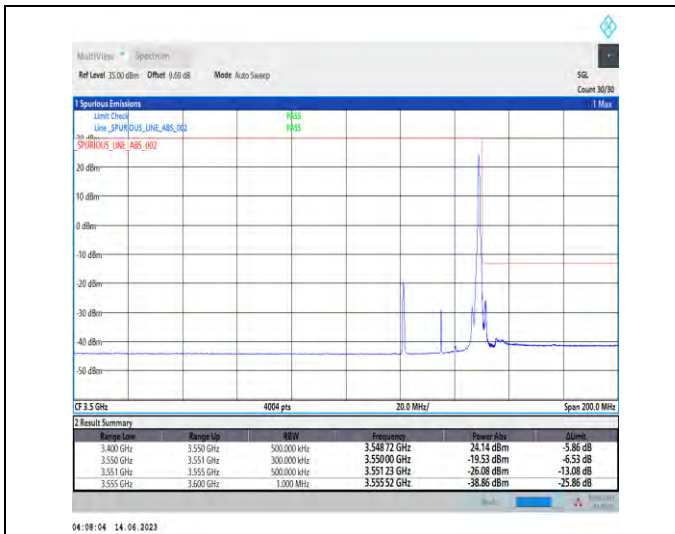
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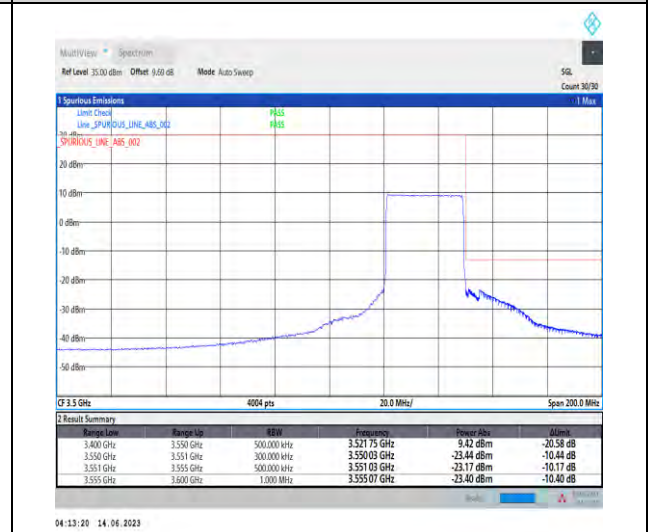
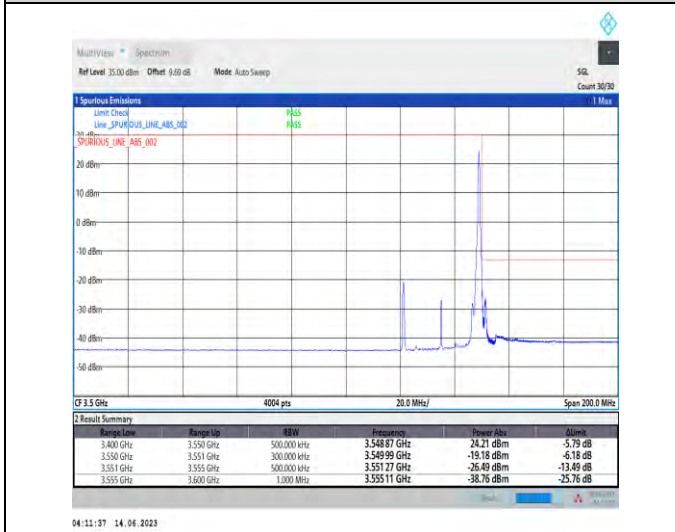
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1-N78-3450-3550-PC1.5-30-30-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@77-Ant1-1--PASS-see graph

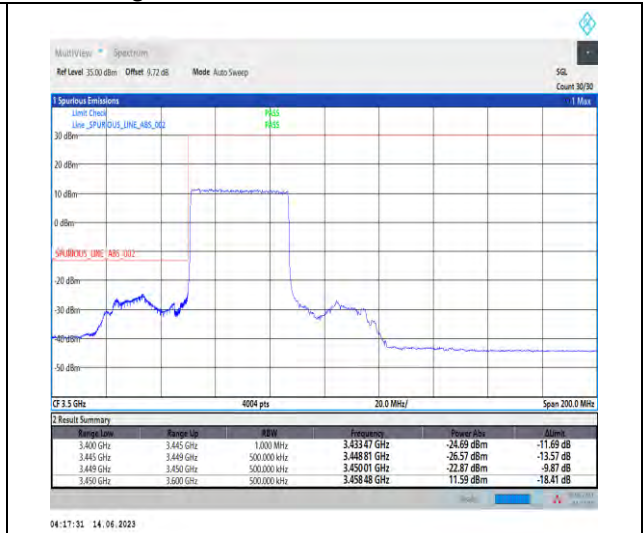
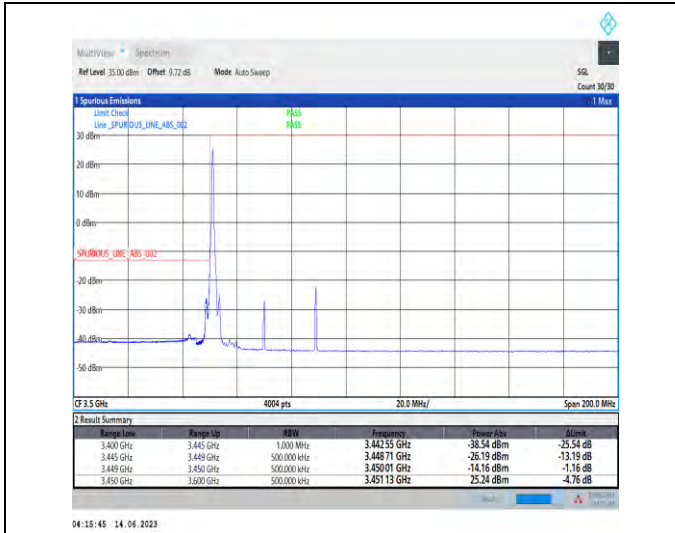
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1-N78-3450-3550-PC1.5-30-30-H-5-CP-QPSK-Edge\_1RB\_Right-1@77-Ant1-1--PASS-see graph

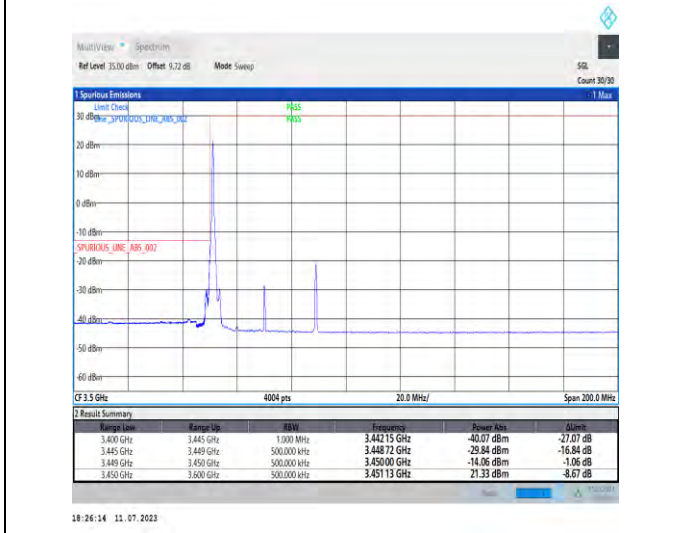
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1-N78-3450-3550-PC1.5-30-40-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-40-L-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1--PASS-see graph

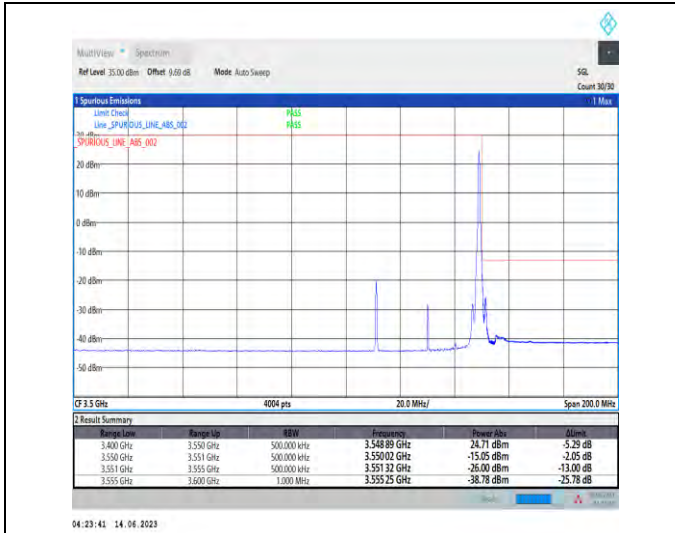


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1-N78-3450-3550-PC1.5-30-40-L-6-CP-QPSK-Outer\_Full-106@0-Ant1-1--PASS-see graph

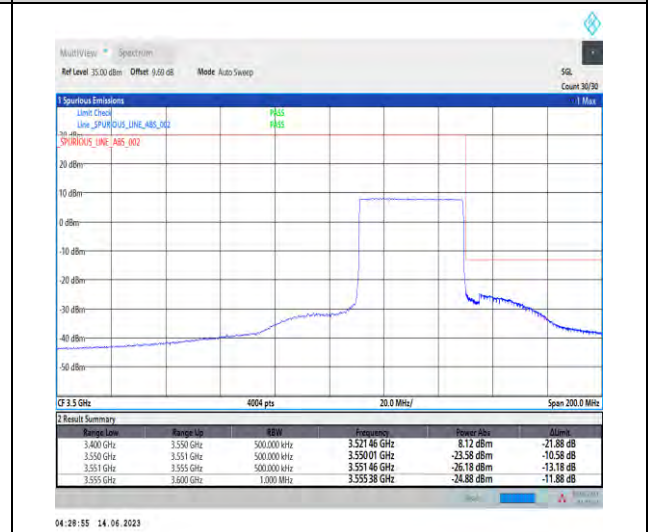
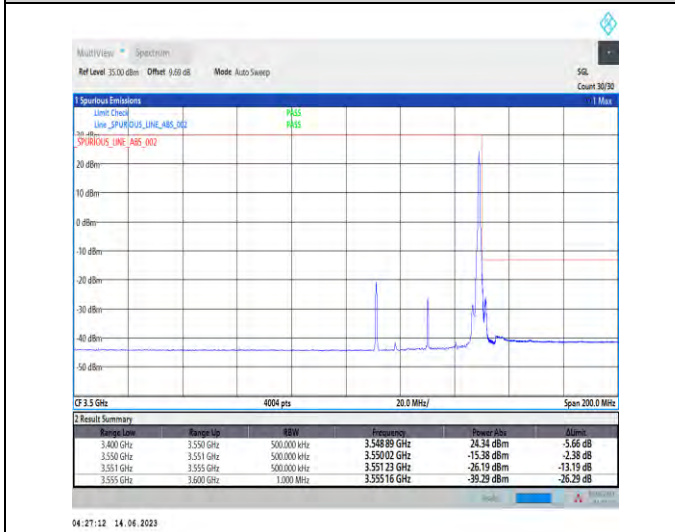






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1-N78-3450-3550-PC1.5-30-40-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-40-H-6-CP-QPSK-Outer\_Full-106@0-Ant1-1--PASS-see graph

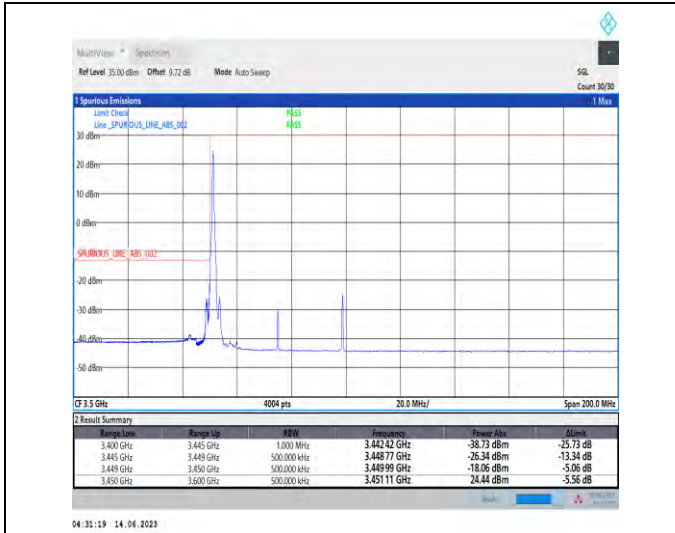


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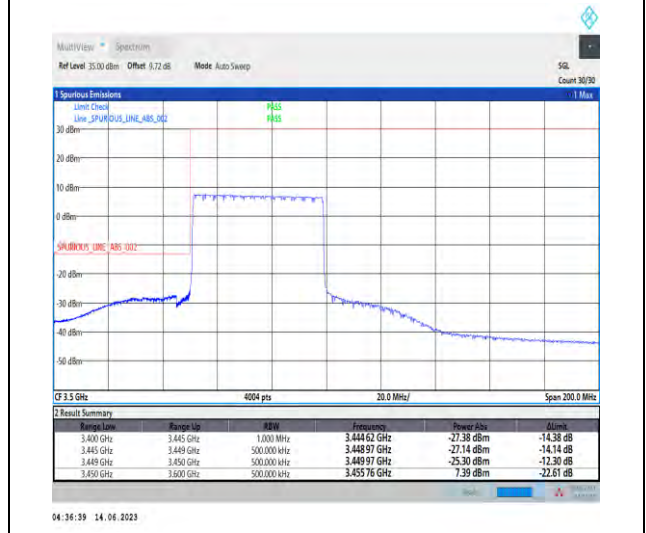
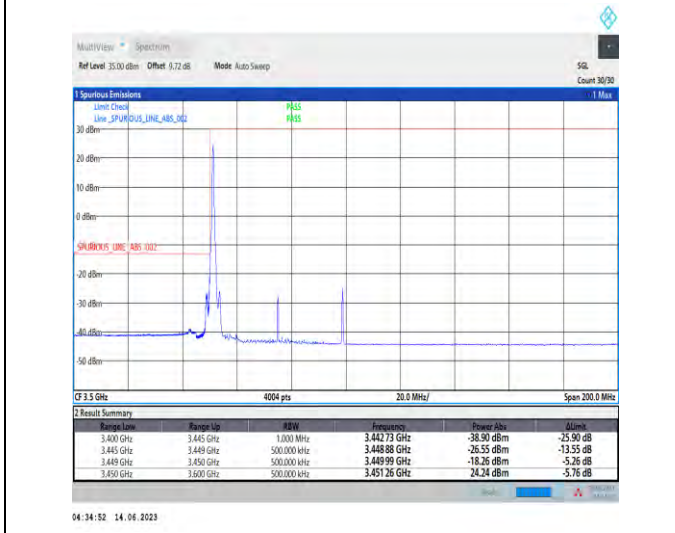
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1-N78-3450-3550-PC1.5-30-50-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-50-L-3-DFT-PI2BPSK-Outer\_Full-128@0-Ant1-1-PASS-see graph



1-N78-3450-3550-PC1.5-30-50-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-50-L-6-CP-QPSK-Outer\_Full-133@0-Ant1-1-PASS-see graph



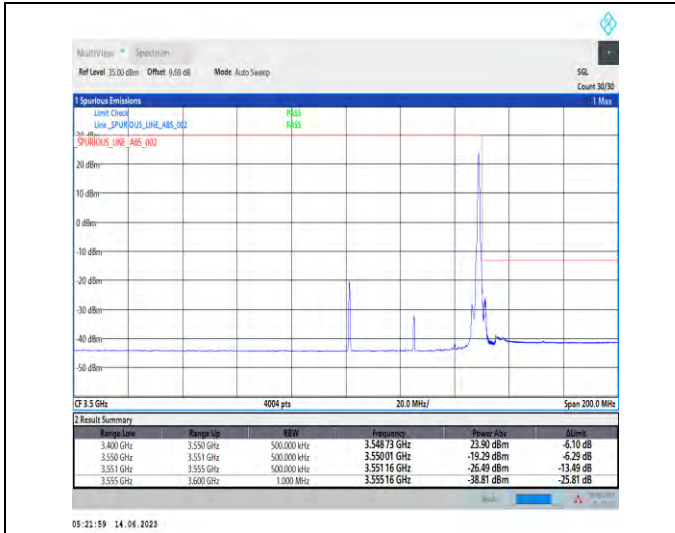
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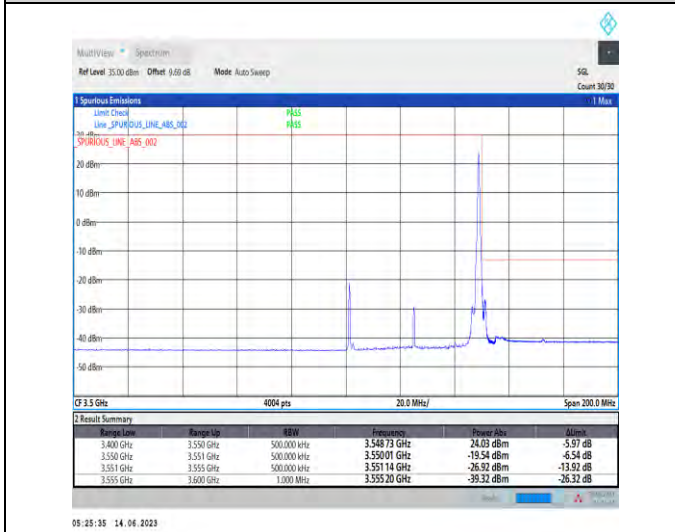
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1-N78-3450-3550-PC1.5-30-50-H-3-DFT-PI2BPSK-Outer\_Full-128@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-50-H-5-CP-QPSK-Edge\_1RB\_Right-1@132-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-50-H-6-CP-QPSK-Outer\_Full-133@0-Ant1-1--PASS-see graph

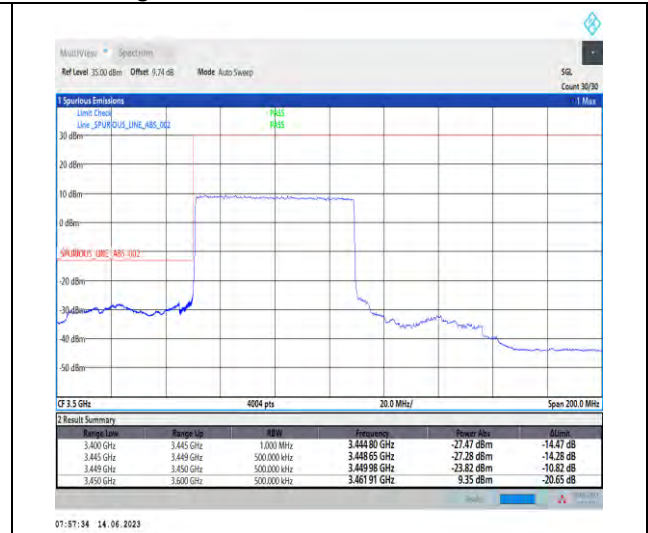
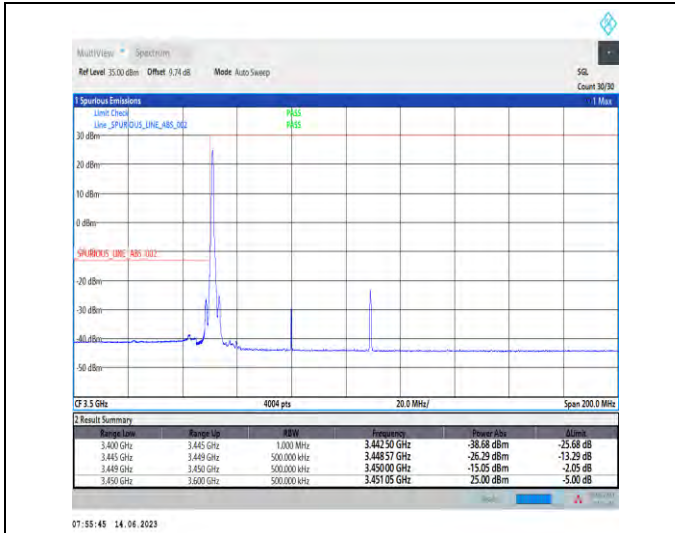


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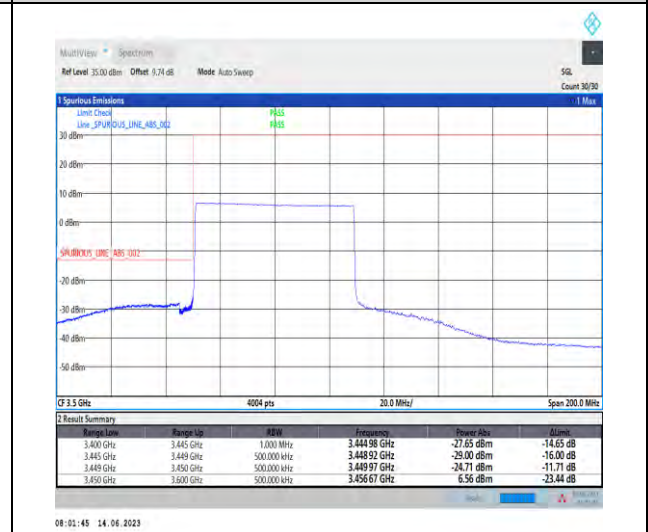
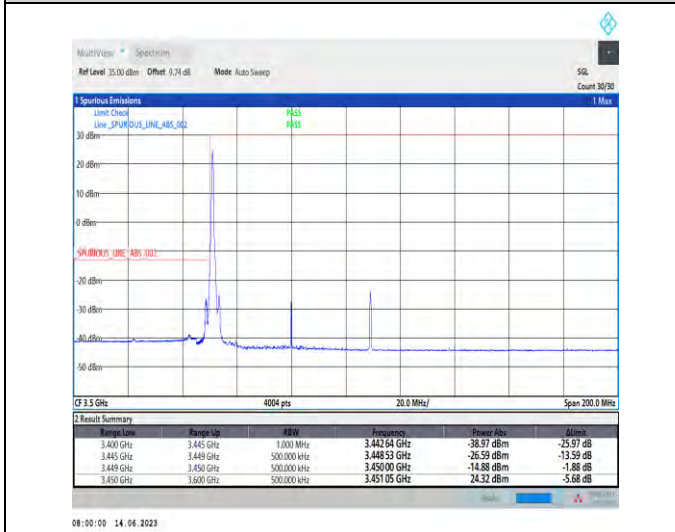
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1-N78-3450-3550-PC1.5-30-60-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-60-L-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant1-1-PASS-see graph

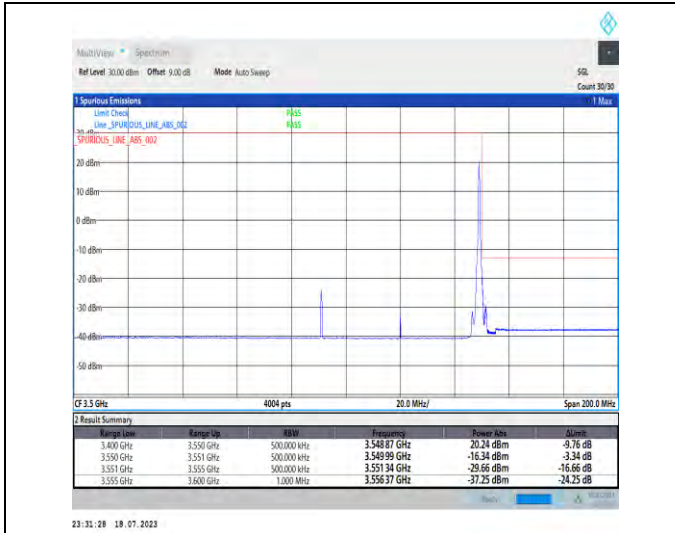


1-N78-3450-3550-PC1.5-30-60-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-60-L-6-CP-QPSK-Outer\_Full-162@0-Ant1-1-PASS-see graph

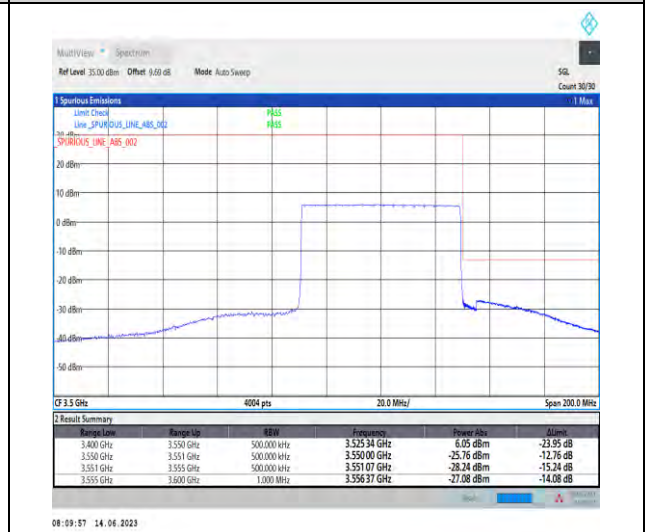
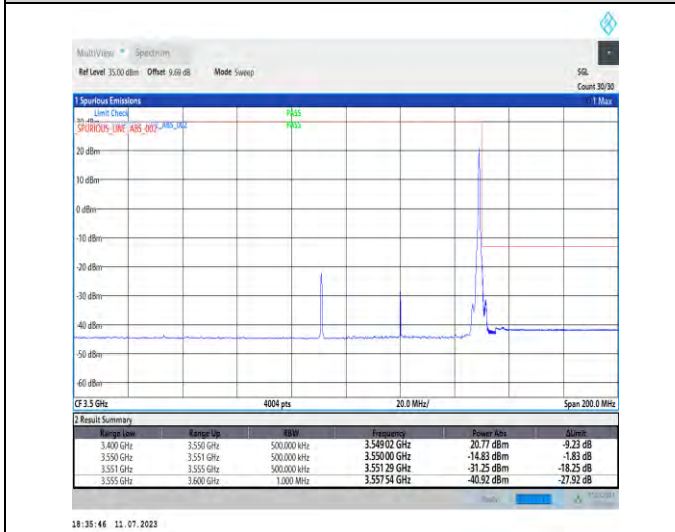






1-N78-3450-3550-PC1.5-30-60-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@161-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-60-H-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-60-H-5-CP-QPSK-Edge\_1RB\_Right-1@161-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-60-H-6-CP-QPSK-Outer\_Full-162@0-Ant1-1--PASS-see graph

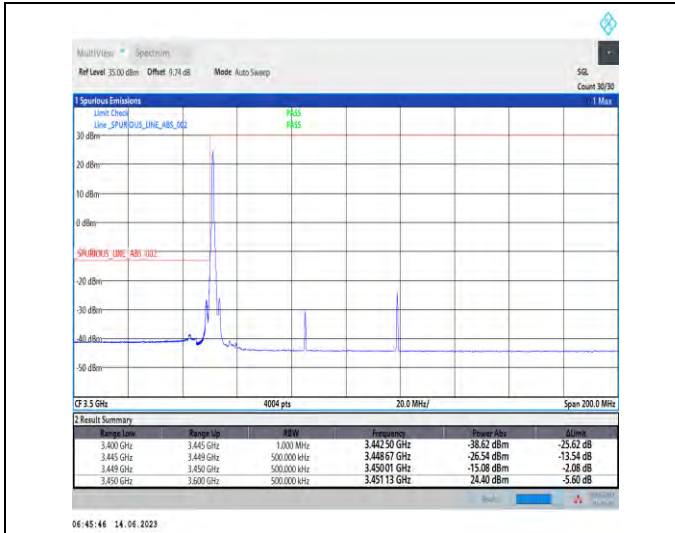


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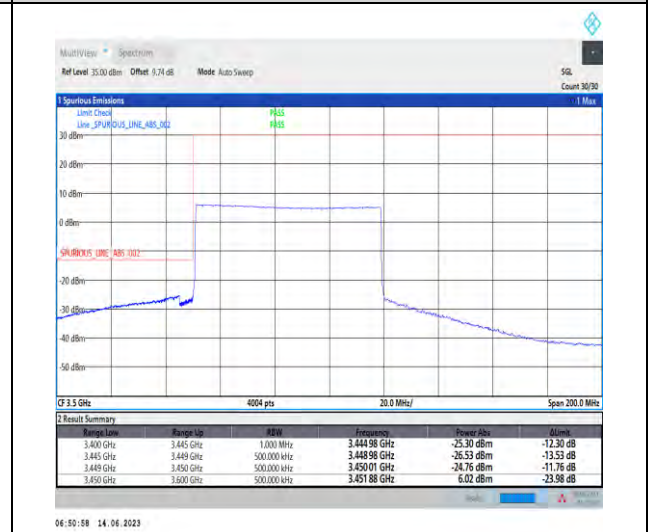
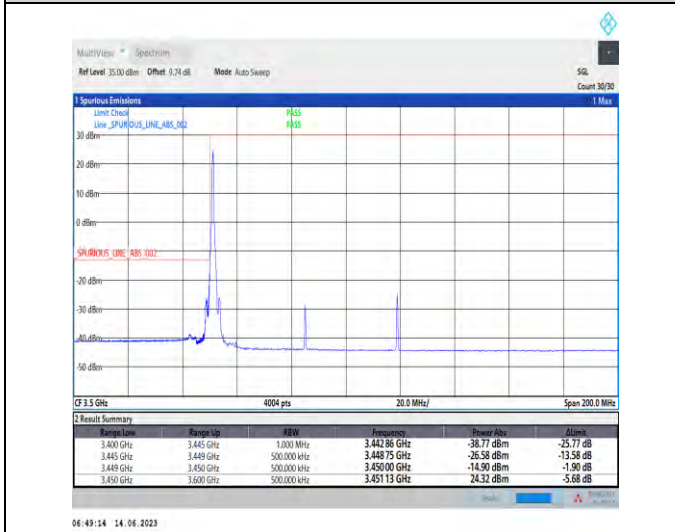
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1-N78-3450-3550-PC1.5-30-70-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-70-L-3-DFT-PI2BPSK-Outer\_Full-180@0-Ant1-1-PASS-see graph



1-N78-3450-3550-PC1.5-30-70-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-70-L-6-CP-QPSK-Outer\_Full-189@0-Ant1-1-PASS-see graph



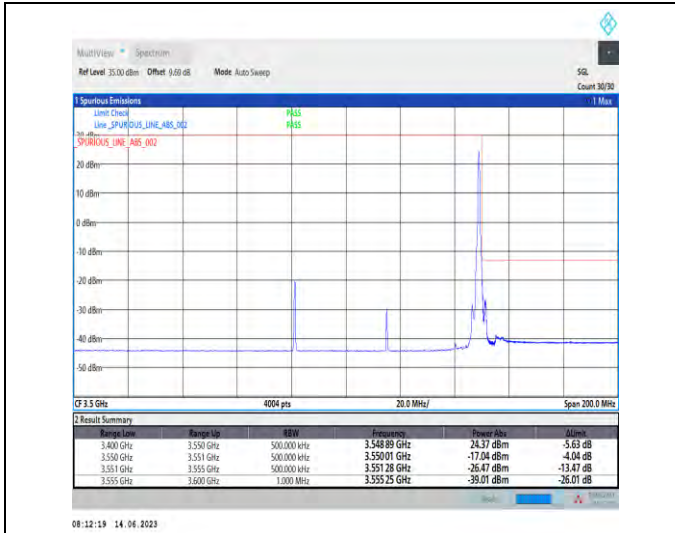
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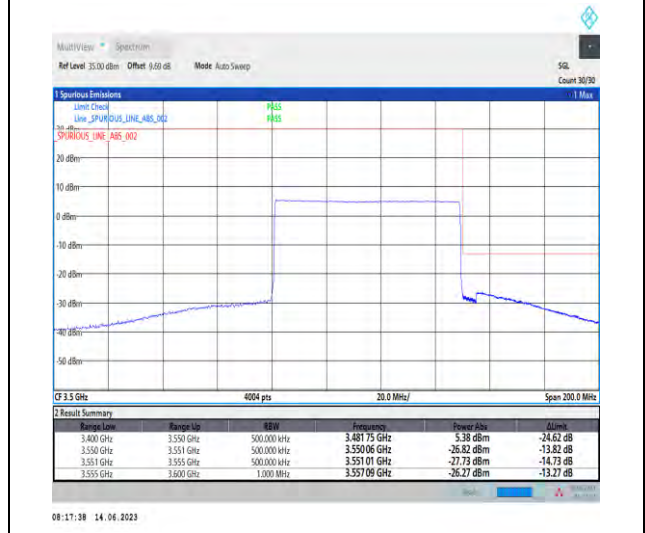
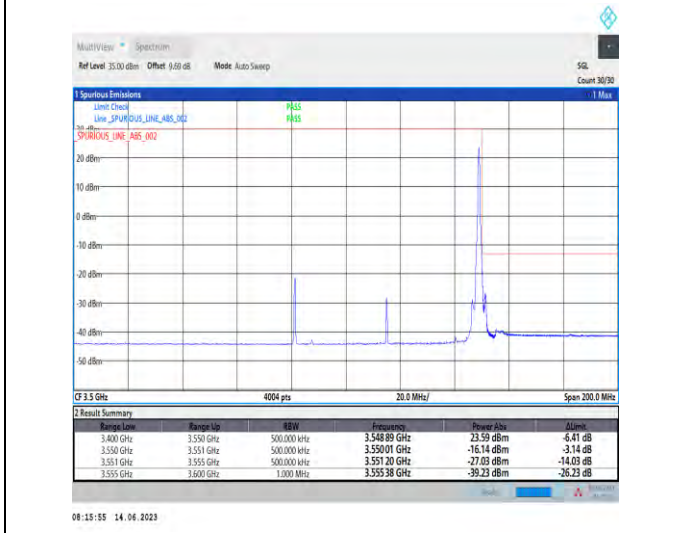
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1-N78-3450-3550-PC1.5-30-70-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@188-Ant1-1--PASS-see graph

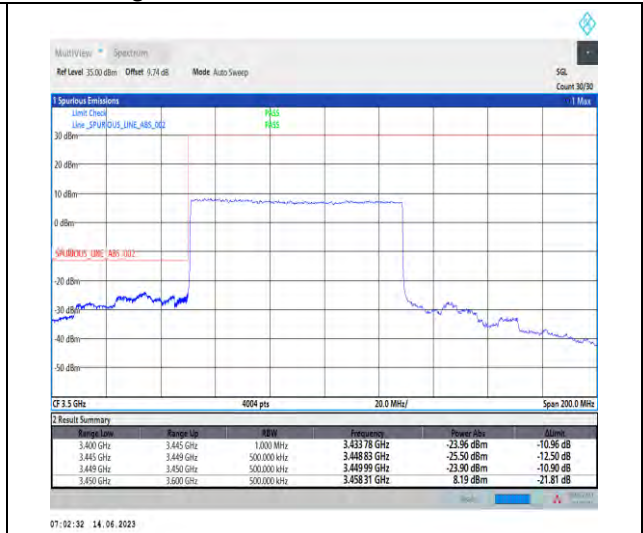
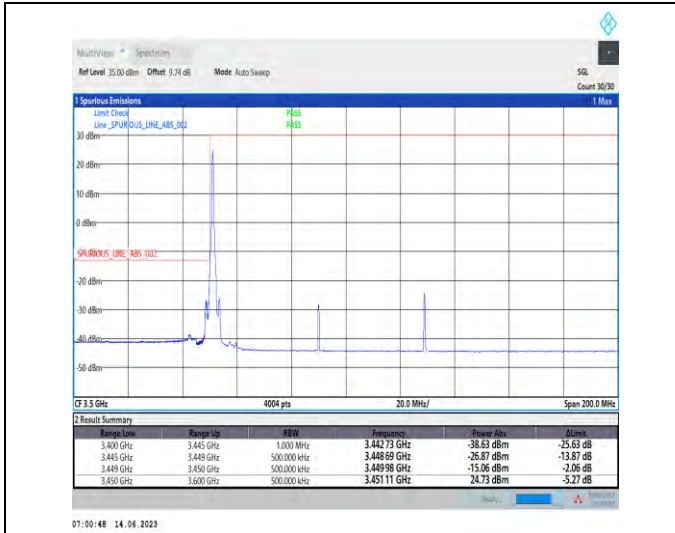
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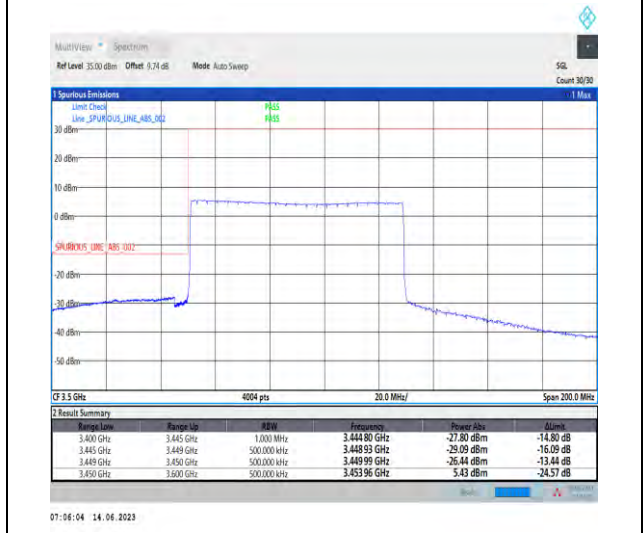
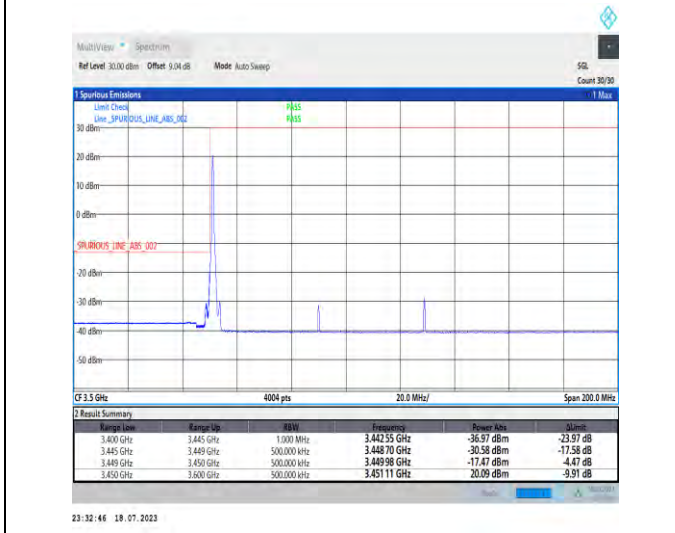
1-N78-3450-3550-PC1.5-30-70-H-6-CP-QPSK-Outer\_Full-189@0-Ant1-1--PASS-see graph





1-N78-3450-3550-PC1.5-30-80-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-80-L-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant1-1-PASS-see graph



1-N78-3450-3550-PC1.5-30-80-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-80-L-6-CP-QPSK-Outer\_Full-217@0-Ant1-1-PASS-see graph



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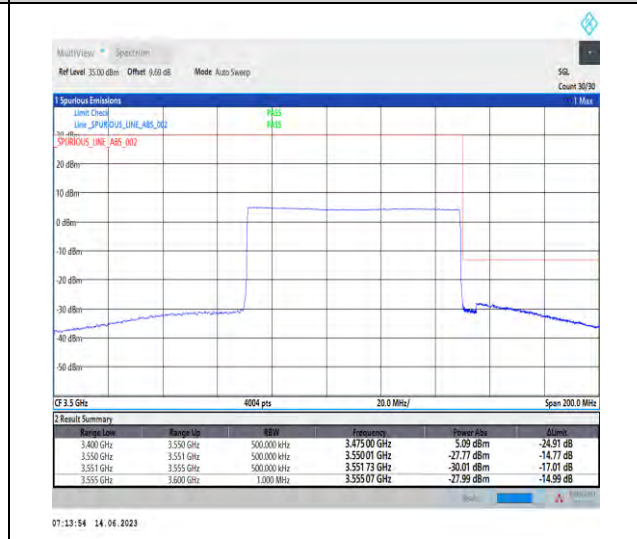
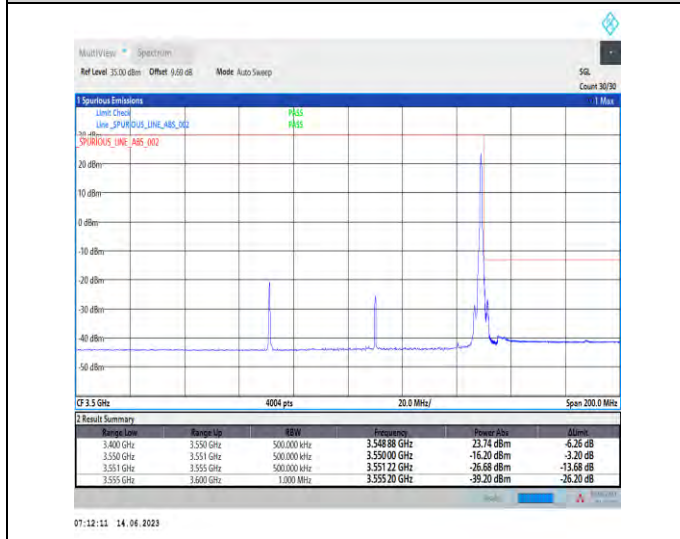
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1-N78-3450-3550-PC1.5-30-80-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@216-Ant1-1--PASS-see graph

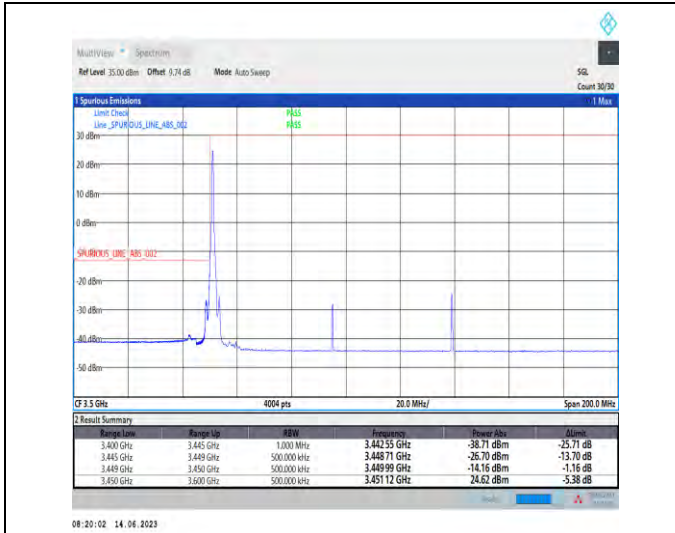
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1-N78-3450-3550-PC1.5-30-80-H-5-CP-QPSK-Edge\_1RB\_Right-1@216-Ant1-1--PASS-see graph

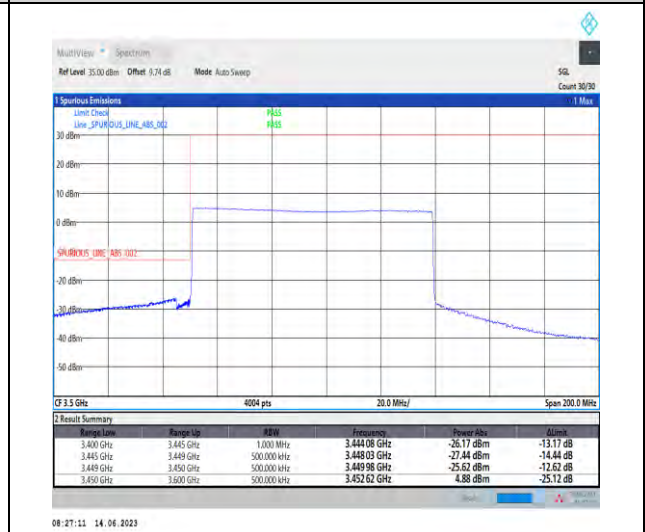
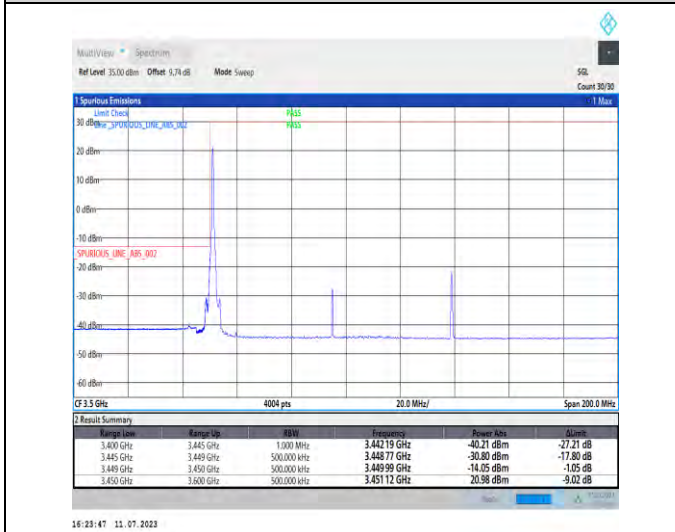
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1-N78-3450-3550-PC1.5-30-90-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-90-L-3-DFT-PI2BPSK-Outer\_Full-240@0-Ant1-1-PASS-see graph



1-N78-3450-3550-PC1.5-30-90-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-PASS-see graph

1-N78-3450-3550-PC1.5-30-90-L-6-CP-QPSK-Outer\_Full-245@0-Ant1-1-PASS-see graph



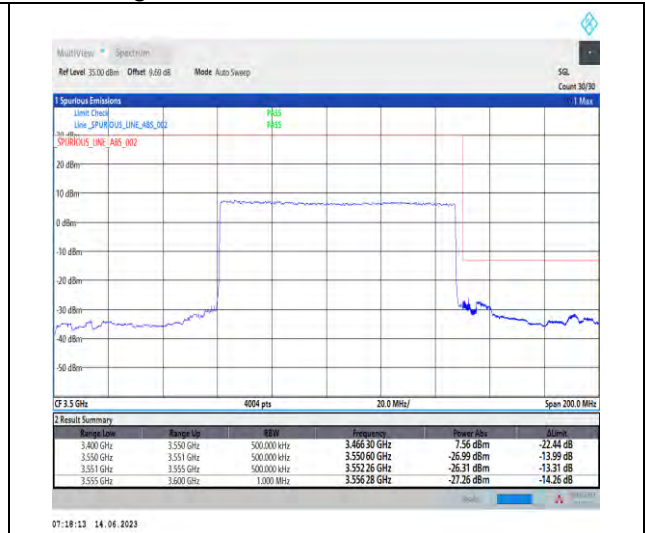
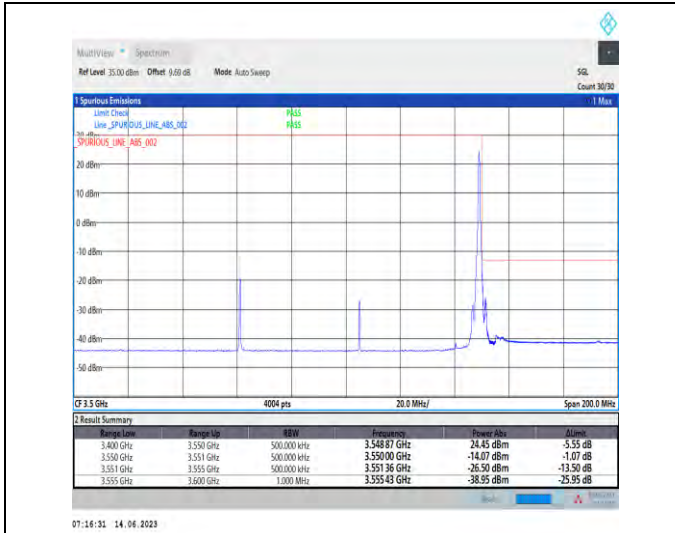
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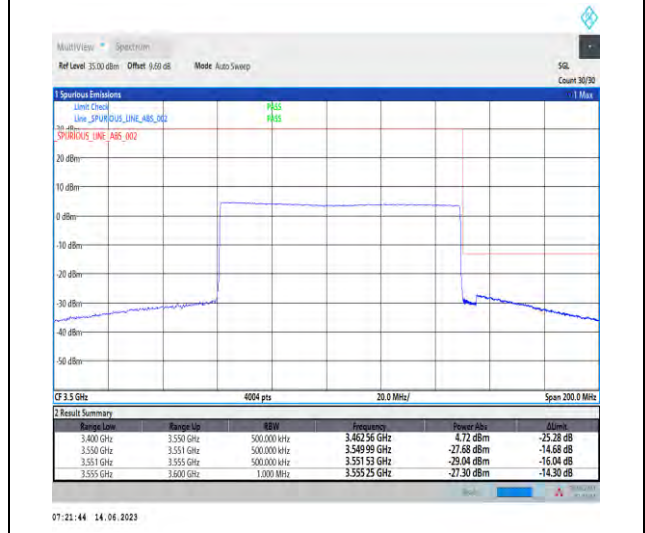
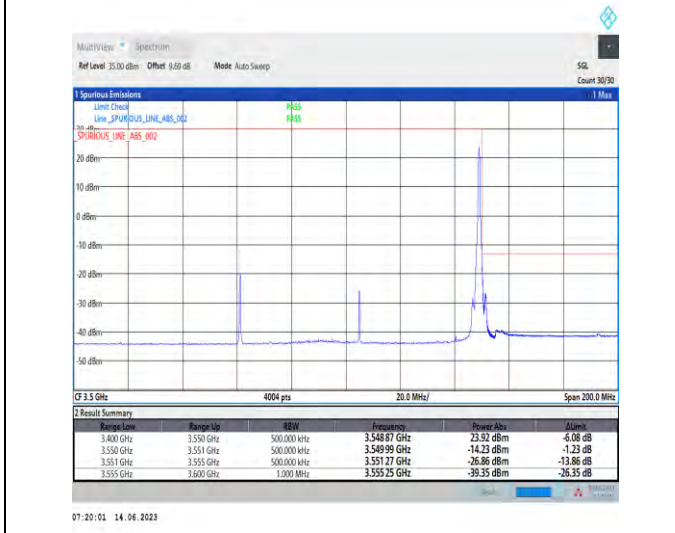
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1-N78-3450-3550-PC1.5-30-90-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@244-Ant1-1--PASS-see graph

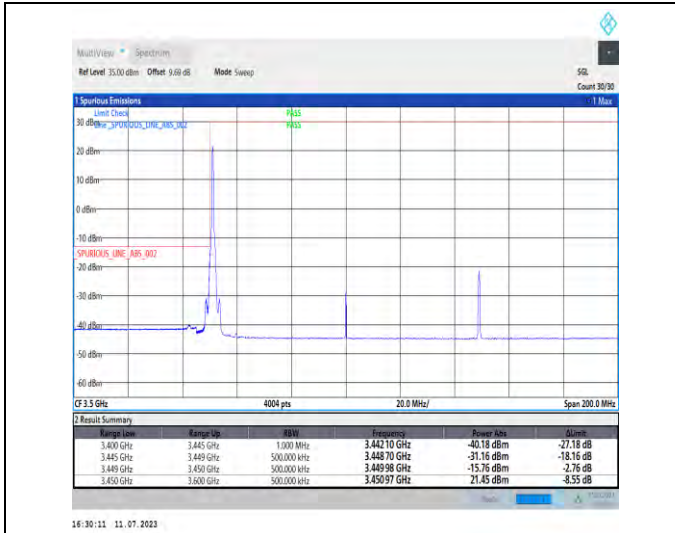
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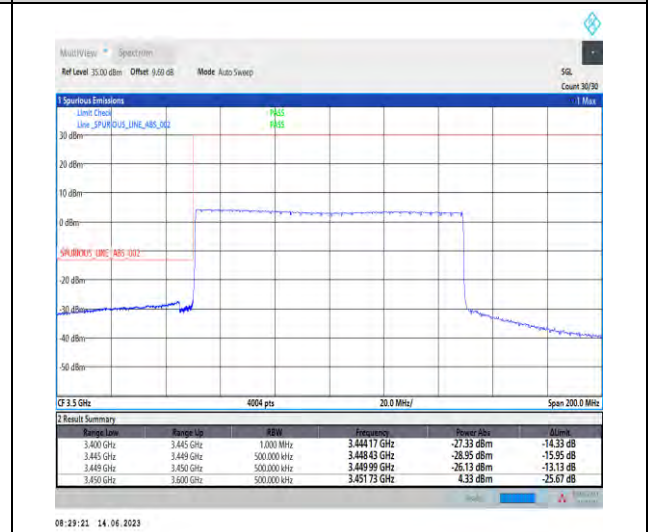
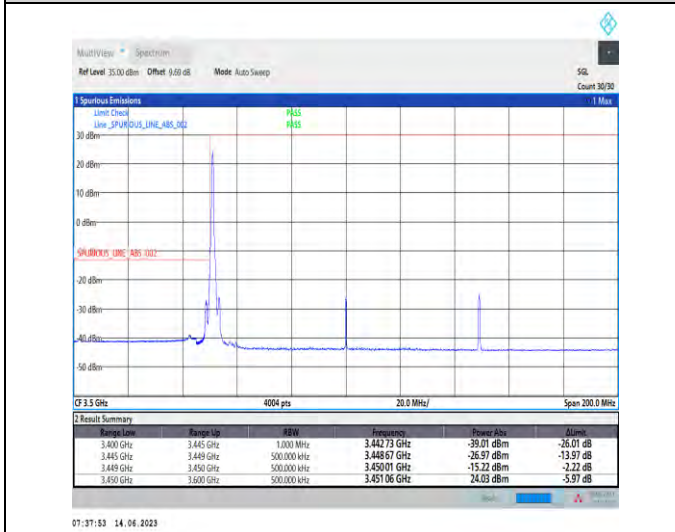
1-N78-3450-3550-PC1.5-30-90-H-6-CP-QPSK-Outer\_Full-245@0-Ant1-1--PASS-see graph





1-N78-3450-3550-PC1.5-30-100-L-1-DFT-PI2BPSK-E dge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-100-L-3-DFT-PI2BPS K-Outer\_Full-270@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-100-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-100-L-6-CP-QPSK-Outer\_Full-273@0-Ant1-1--PASS-see graph



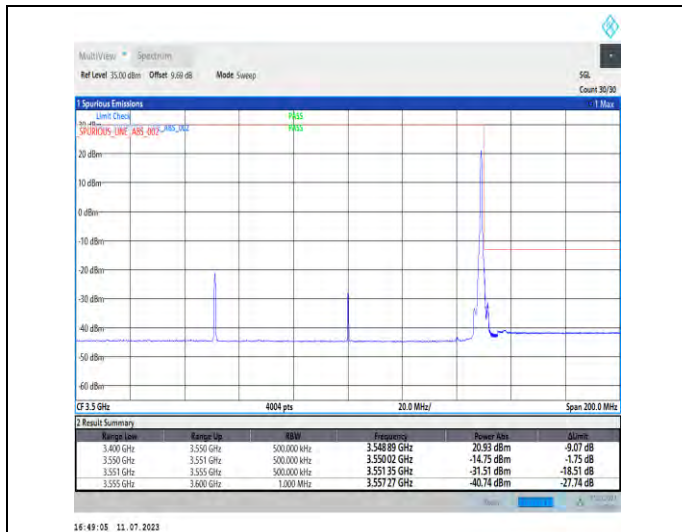
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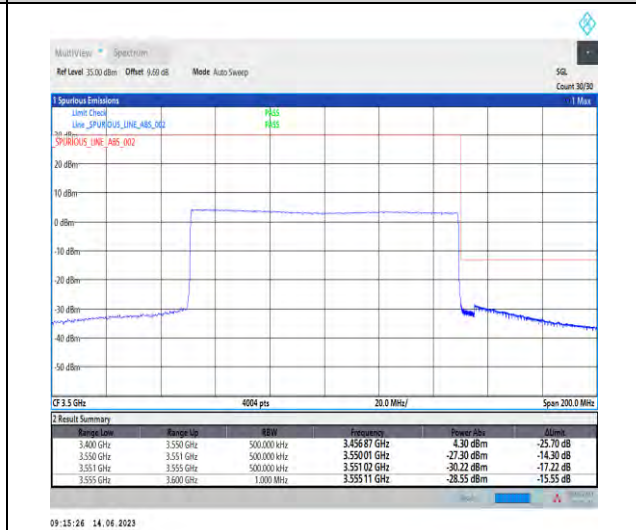
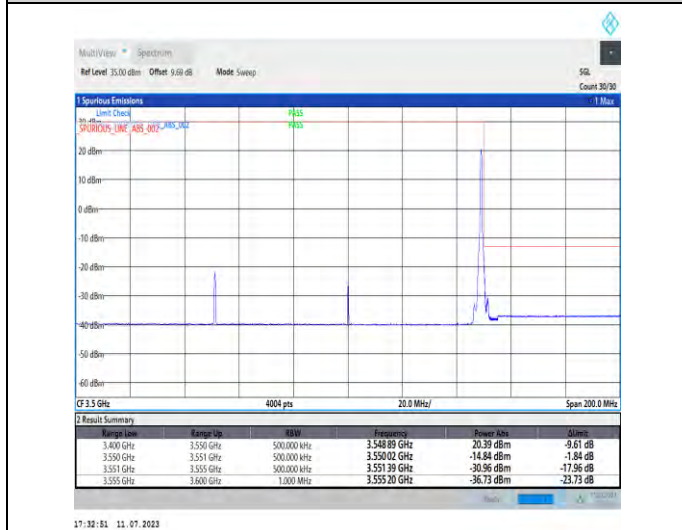
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1-N78-3450-3550-PC1.5-30-100-H-2-DFT-PI2BPSK-E dge\_1RB\_Right-1@272-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-100-H-3-DFT-PI2BPS K-Outer\_Full-270@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC1.5-30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1@272-Ant1-1--PASS-see graph

1-N78-3450-3550-PC1.5-30-100-H-6-CP-QPSK-O uter\_Full-273@0-Ant1-1--PASS-see graph



## Conducted Spurious Emission for UL MIMO

### Test Graphs

<p>1-N78-3450-3550-PC1.5-30-100-L-1-N/A-DFT-QPS K-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.02--75.16--43-PASS</p>	<p>1-N78-3450-3550-PC1.5-30-100-L-1-N/A-DFT-QPSK -Edge_1RB_Left-1@0-0.15-30-Ant1-0.15--74.73--33-PASS</p>
<p>1-N78-3450-3550-PC1.5-30-100-L-1-N/A-DFT-QPS K-Edge_1RB_Left-1@0-30-1000-Ant1-40.38--61.04--23-PASS</p>	<p>1-N78-3450-3550-PC1.5-30-100-L-1-N/A-DFT-QPSK -Edge_1RB_Left-1@0-1000-6000-Ant1-5997.50--45.30--13-PASS</p>



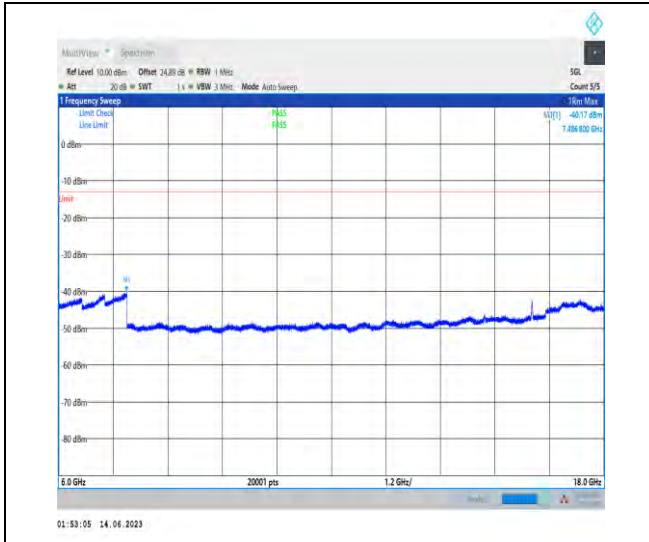
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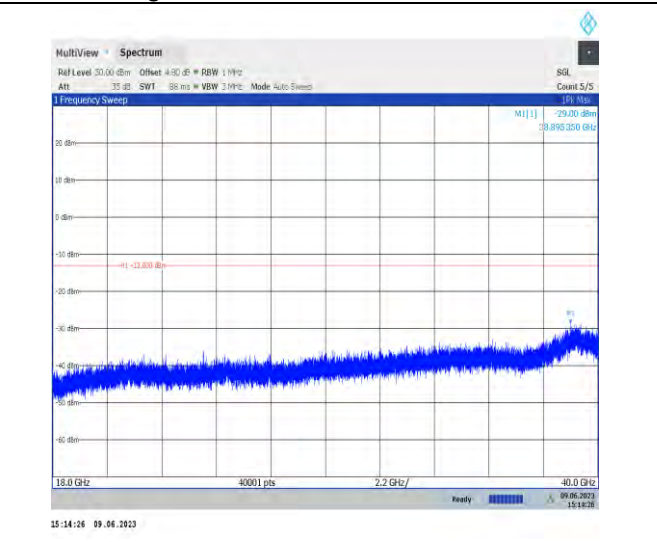
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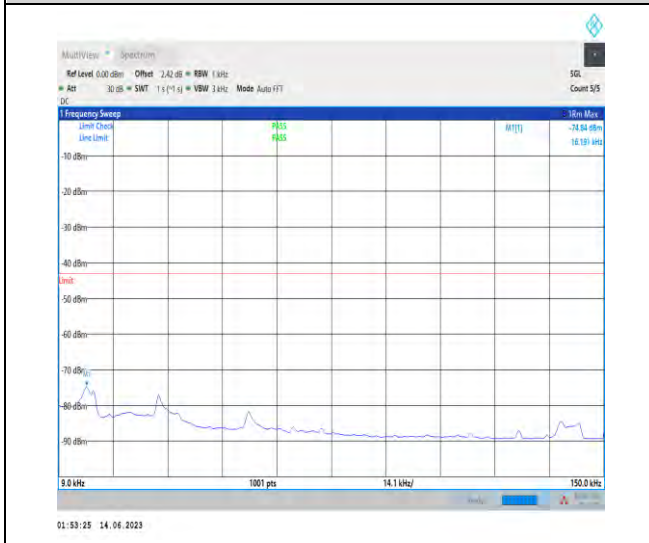




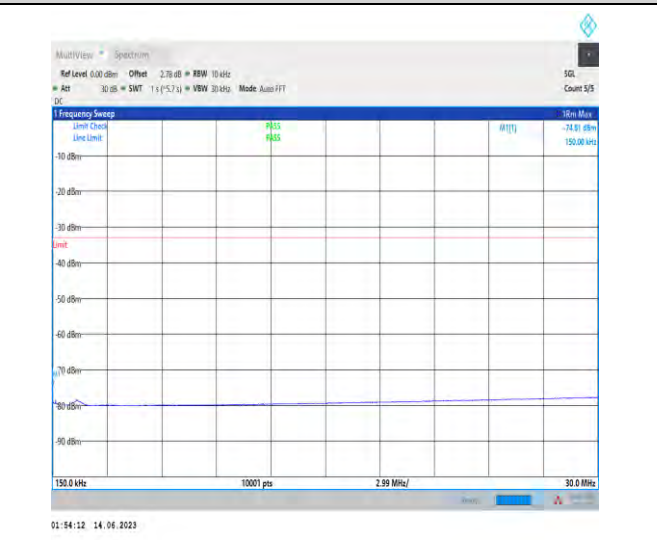
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40.17--13-PASS



1-N78-3450-3550-PC1.5-30-100-L-1-N/A-DFT-QPSK  
-Edge\_1RB\_Left-1@0-18000-38000-Ant1-18000.00--  
50.19--13-PASS



1-N78-3450-3550-PC1.5-30-100-M-1-N/A-DFT-QPS  
K-Edge\_1RB\_Left-1@0-0.009-0.15-Ant1-0.02--74.8  
4--43-PASS



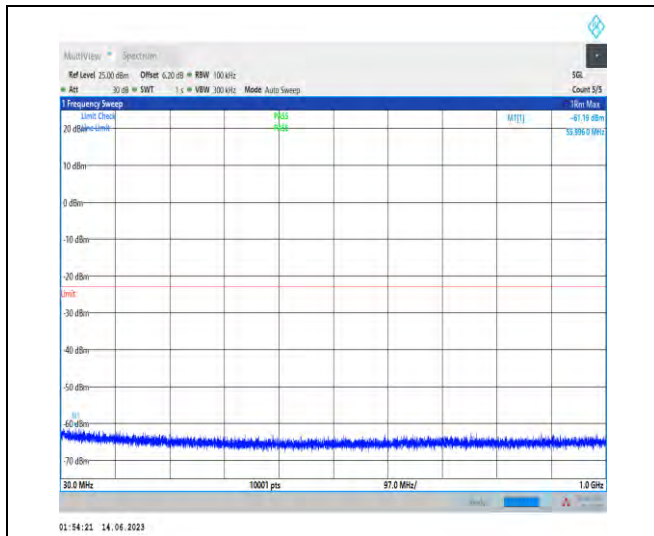
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-Edge\_1RB\_Left-1@0-0.15-30-Ant1-0.15--74.81--33-  
PASS



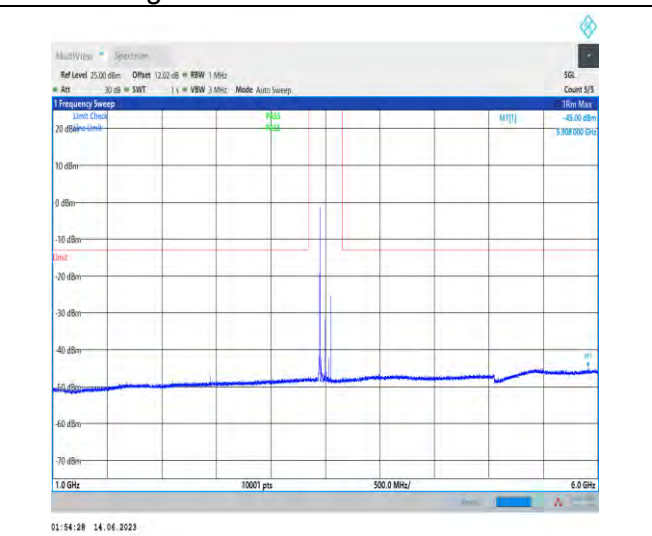
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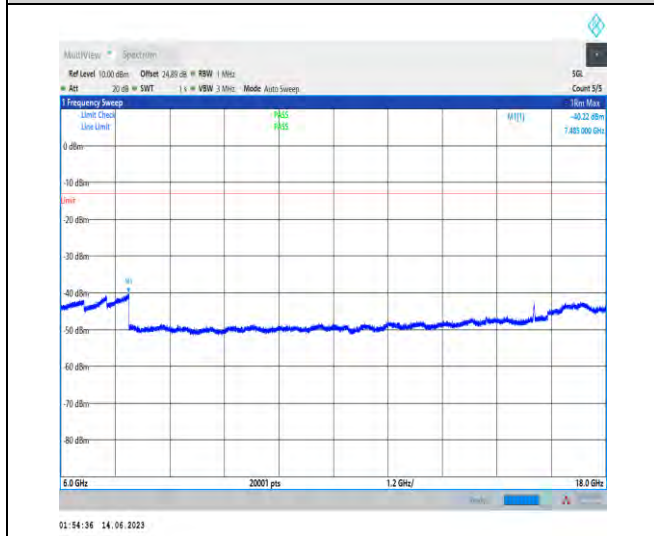
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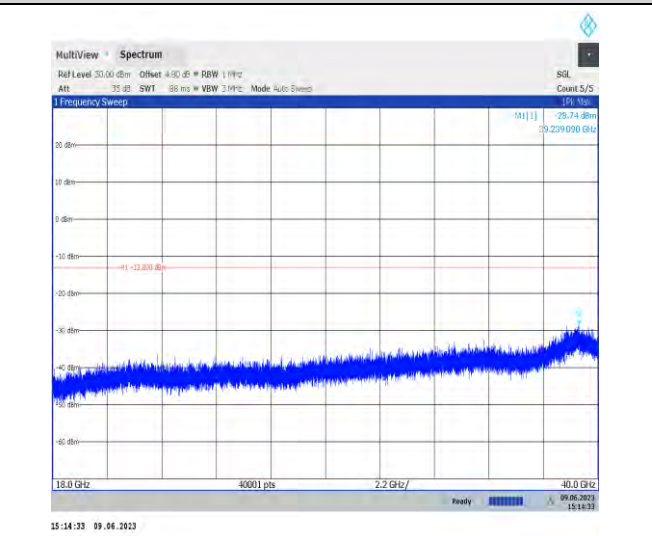
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 K-Edge\_1RB\_Left-1@0-30-1000-Ant1-56.00--61.19-  
 -23-PASS



1-N78-3450-3550-PC1.5-30-100-M-1-N/A-DFT-QPSK  
 -Edge\_1RB\_Left-1@0-1000-6000-Ant1-5908.00--45.  
 00--13-PASS



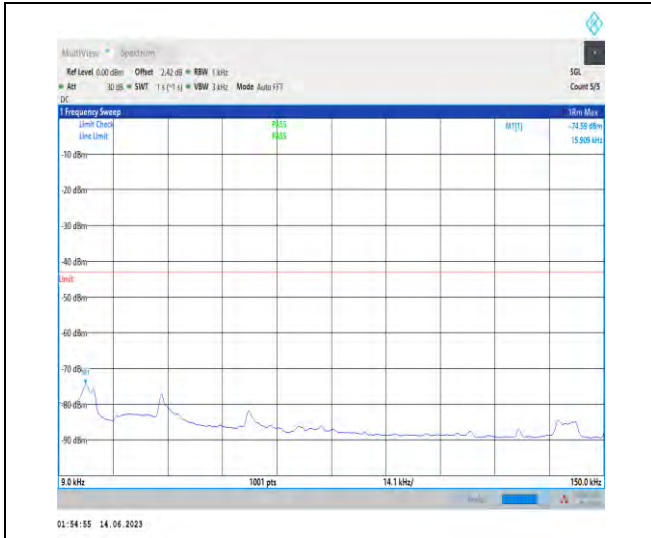
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 40.22--13-PASS



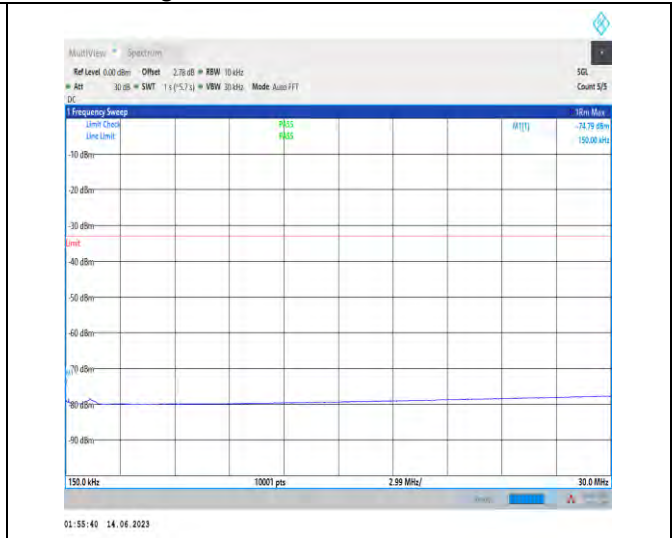
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 50.02--13-PASS



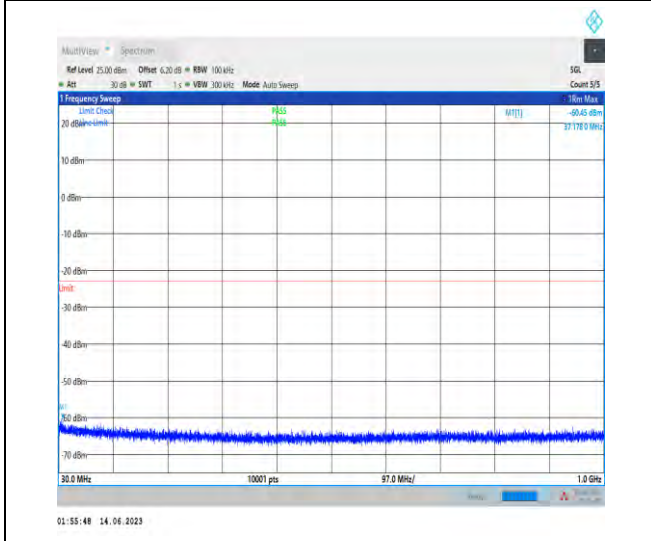




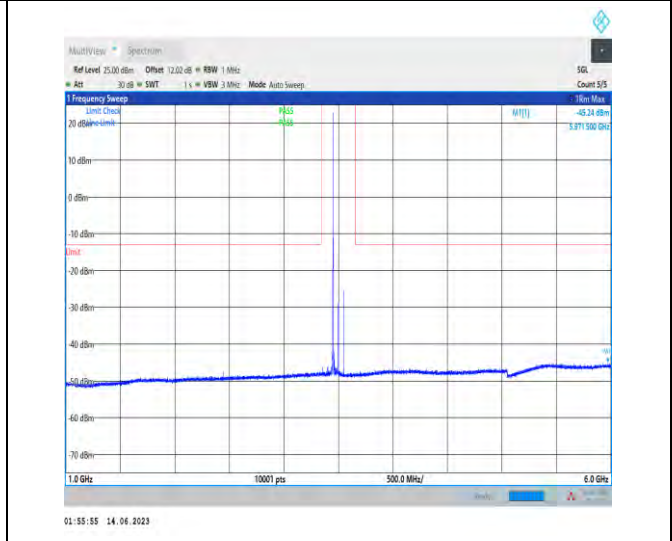
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9--43-PASS



1-N78-3450-3550-PC1.5-30-100-H-1-N/A-DFT-QPSK  
-Edge\_1RB\_Left-1@0-0.15-30-Ant1-0.15--74.79--33-  
PASS



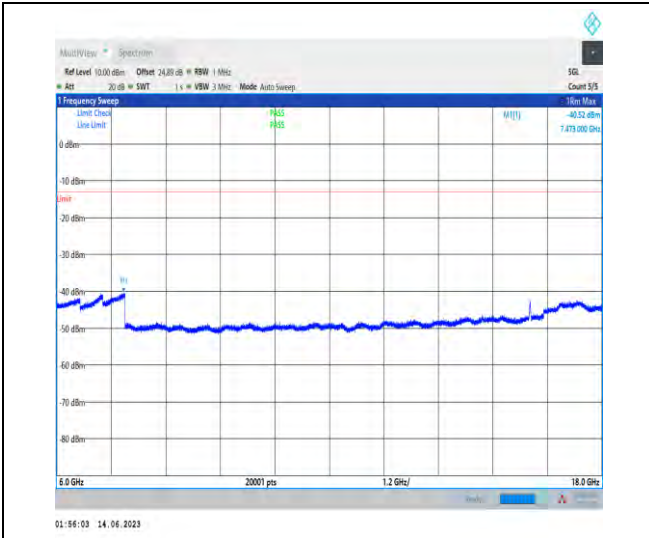
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K-Edge\_1RB\_Left-1@0-30-1000-Ant1-37.18--60.45-  
-23-PASS



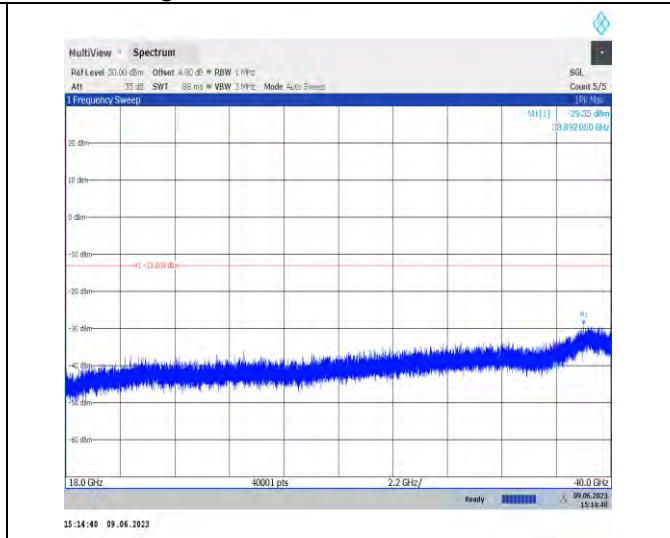
1-N78-3450-3550-PC1.5-30-100-H-1-N/A-DFT-QPSK  
-Edge\_1RB\_Left-1@0-1000-6000-Ant1-5971.50--45.  
24--13-PASS



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1-N78-3450-3550-PC1.5-30-100-H-1-N/A-DFT-QPSK  
K-Edge\_1RB\_Left-1@0-6000-18000-Ant1-7473.00--  
40.52--13-PASS



1-N78-3450-3550-PC1.5-30-100-H-1-N/A-DFT-QPSK  
-Edge\_1RB\_Left-1@0-18000-38000-Ant1-18000.00--  
49.88--13-PASS



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### Field Strength of Spurious Radiation

Test Band = 5G NR SA n78\_TM1

Test Channel = Low 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	39.72	-43.27	36.54	-62.27	-13.00	49.27	254	300	Horizontal
2	8344.025	41.37	-41.65	37.26	-58.28	-13.00	45.28	126	0	Horizontal
3	9807.975	38.39	-39.07	38.23	-57.71	-13.00	44.71	185	330	Horizontal
4	10965.2700	34.76	-37.67	39.10	-59.07	-13.00	46.07	145	130	Horizontal
5	12676.075	35.41	-36.92	39.41	-57.36	-13.00	44.36	163	193	Horizontal
6	14620.3600	33.42	-35.23	39.91	-57.16	-13.00	44.16	236	0	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	40.43	-43.27	36.54	-61.56	-13.00	48.56	245	47	Vertical
2	8410.15	41.50	-41.41	37.35	-57.82	-13.00	44.82	196	317	Vertical
3	9422.725	39.20	-39.93	38.48	-57.50	-13.00	44.50	142	357	Vertical
4	10965.2700	34.53	-37.67	39.10	-59.30	-13.00	46.30	125	227	Vertical
5	12830.175	35.62	-36.70	39.66	-56.68	-13.00	43.68	188	120	Vertical
6	14620.3600	33.06	-35.23	39.91	-57.52	-13.00	44.52	176	300	Vertical



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**Test Band = 5G NR SA n78\_TM1**  
**Test Channel = Mid 3450-3550**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	40.24	-42.78	36.39	-61.41	-13.00	48.41	255	274	Horizontal
2	8874.175	39.80	-40.97	38.12	-58.30	-13.00	45.30	142	92	Horizontal
3	10503.15	39.16	-38.74	38.96	-55.87	-13.00	42.87	136	243	Horizontal
4	11835.2700	33.34	-37.25	38.79	-60.38	-13.00	47.38	256	0	Horizontal
5	13632.875	34.44	-36.02	40.12	-56.72	-13.00	43.72	132	348	Horizontal
6	15180.3600	32.59	-33.90	38.98	-57.59	-13.00	44.59	199	243	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	41.37	-43.80	35.97	-61.72	-13.00	48.72	211	195	Vertical
2	7001.975	54.33	-43.00	36.09	-47.85	-13.00	34.85	145	330	Vertical
3	10365.2700	35.60	-38.81	38.85	-59.61	-13.00	46.61	199	287	Vertical
4	10503.15	43.84	-38.74	38.96	-51.19	-13.00	38.19	142	356	Vertical
5	13820.3600	33.42	-36.11	39.98	-57.97	-13.00	44.97	136	273	Vertical
6	17275.4500	33.53	-35.16	38.70	-58.18	-13.00	45.18	266	273	Vertical



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Test Band = 5G NR SA n78\_TM1

Test Channel = High 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	40.47	-43.06	36.11	-61.74	-13.00	48.74	148	59	Horizontal
2	7969.125	41.36	-42.32	36.97	-59.24	-13.00	46.24	175	211	Horizontal
3	9807.975	38.03	-39.07	38.23	-58.07	-13.00	45.07	146	299	Horizontal
4	10515.2700	35.12	-38.64	38.98	-59.81	-13.00	46.81	215	73	Horizontal
5	14020.3600	31.75	-35.04	40.15	-58.40	-13.00	45.40	109	239	Horizontal
6	17525.4500	33.31	-33.81	39.28	-56.48	-13.00	43.48	235	269	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	40.74	-43.06	36.11	-61.47	-13.00	48.47	254	58	Vertical
2	7402.175	45.95	-42.80	36.49	-55.62	-13.00	42.62	175	285	Vertical
3	10515.2700	35.34	-38.64	38.98	-59.59	-13.00	46.59	146	15	Vertical
4	12213.775	36.09	-37.05	39.13	-57.09	-13.00	44.09	129	209	Vertical
5	14020.3600	31.56	-35.04	40.15	-58.59	-13.00	45.59	183	240	Vertical
6	17525.4500	33.04	-33.81	39.28	-56.75	-13.00	43.75	265	0	Vertical



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Test Band = UL MIMO\_n78\_TM1

Test Channel = Mid 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3518	43.71	-46.24	28.62	-69.17	-13.00	56.17	114	145	Horizontal
2	4920	43.02	-45.55	31.22	-66.57	-13.00	53.57	156	288	Horizontal
3	6910.1800	39.49	-44.04	35.04	-64.77	-13.00	51.77	269	162	Horizontal
4	10365.2700	29.91	-39.04	38.38	-66.00	-13.00	53.00	231	36	Horizontal
5	13820.3600	26.25	-36.21	40.58	-64.64	-13.00	51.64	145	72	Horizontal
6	17275.4500	27.93	-35.36	43.54	-59.15	-13.00	46.15	258	356	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3455	44.41	-46.27	28.57	-68.55	-13.00	55.55	112	250	Vertical
2	4925	43.13	-45.56	31.24	-66.45	-13.00	53.45	236	88	Vertical
3	6910.1800	39.43	-44.04	35.04	-64.83	-13.00	51.83	254	360	Vertical
4	10365.2700	31.18	-39.04	38.38	-64.73	-13.00	51.73	154	88	Vertical
5	13820.3600	26.44	-36.21	40.58	-64.45	-13.00	51.45	158	196	Vertical
6	17275.4500	27.62	-35.36	43.54	-59.46	-13.00	46.46	232	69	Vertical



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Test Band = NSA 25A-n78A\_ TM1

Test Channel = Low 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	42.22	-43.61	35.85	-60.80	-13.00	47.80	214	360	Horizontal
2	8411.3	41.19	-41.42	37.35	-58.13	-13.00	45.13	135	360	Horizontal
3	9410.075	39.42	-39.92	38.49	-57.28	-13.00	44.28	185	105	Horizontal
4	10215.2700	36.12	-39.23	38.81	-59.56	-13.00	46.56	174	151	Horizontal
5	13620.3600	33.79	-36.03	40.13	-57.37	-13.00	44.37	169	359	Horizontal
6	17025.4500	34.13	-33.71	38.51	-56.33	-13.00	43.33	223	30	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	41.70	-43.61	35.85	-61.32	-13.00	48.32	225	273	Vertical
2	8021.45	40.85	-41.96	37.02	-59.35	-13.00	46.35	142	29	Vertical
3	9212.275	39.14	-39.96	38.35	-57.74	-13.00	44.74	185	359	Vertical
4	10215.2700	36.55	-39.23	38.81	-59.13	-13.00	46.13	145	4	Vertical
5	13620.3600	33.69	-36.03	40.13	-57.47	-13.00	44.47	136	90	Vertical
6	17025.4500	34.01	-33.71	38.51	-56.45	-13.00	43.45	291	346	Vertical



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Test Band = NSA 25A-n78A\_TM1

Test Channel = Mid 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	40.95	-43.80	35.97	-62.14	-13.00	49.14	217	284	Horizontal
2	7969.125	41.86	-42.32	36.97	-58.74	-13.00	45.74	145	209	Horizontal
3	8818.975	40.57	-41.10	38.09	-57.69	-13.00	44.69	183	284	Horizontal
4	10365.2700	35.98	-38.81	38.85	-59.23	-13.00	46.23	235	343	Horizontal
5	13820.3600	32.87	-36.11	39.98	-58.52	-13.00	45.52	169	3	Horizontal
6	17275.4500	34.65	-35.16	38.70	-57.06	-13.00	44.06	192	3	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	41.26	-43.80	35.97	-61.83	-13.00	48.83	214	329	Vertical
2	8012.25	41.02	-42.03	37.01	-59.26	-13.00	46.26	175	13	Vertical
3	8859.225	40.79	-41.00	38.12	-57.36	-13.00	44.36	142	3	Vertical
4	10365.2700	36.01	-38.81	38.85	-59.20	-13.00	46.20	135	148	Vertical
5	13820.3600	33.50	-36.11	39.98	-57.89	-13.00	44.89	126	3	Vertical
6	17275.4500	33.95	-35.16	38.70	-57.76	-13.00	44.76	288	360	Vertical



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Test Band = NSA 25A-n78A\_ TM1

Test Channel = High 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	41.36	-43.06	36.11	-60.85	-13.00	47.85	211	120	Horizontal
2	7969.125	42.08	-42.32	36.97	-58.52	-13.00	45.52	132	209	Horizontal
3	10515.2700	35.33	-38.64	38.98	-59.60	-13.00	46.60	156	359	Horizontal
4	12642.725	36.16	-37.04	39.35	-56.79	-13.00	43.79	192	43	Horizontal
5	14020.3600	31.77	-35.04	40.15	-58.38	-13.00	45.38	145	195	Horizontal
6	17525.4500	33.14	-33.81	39.28	-56.65	-13.00	43.65	172	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	40.83	-43.06	36.11	-61.38	-13.00	48.38	215	359	Vertical
2	8411.3	41.23	-41.42	37.35	-58.09	-13.00	45.09	142	60	Vertical
3	9429.05	39.74	-39.93	38.48	-56.97	-13.00	43.97	132	136	Vertical
4	10515.2700	34.86	-38.64	38.98	-60.07	-13.00	47.07	155	360	Vertical
5	14020.3600	32.47	-35.04	40.15	-57.68	-13.00	44.68	136	182	Vertical
6	17525.4500	33.49	-33.81	39.28	-56.30	-13.00	43.30	281	91	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



### Frequency Stability for UL MIMO

#### Test Result

#### Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	6.600000	0.001886	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-1.300000	-0.000371	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.200000	-0.000057	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-3.500000	-0.001000	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-1.000000	-0.000286	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-1.100000	-0.000314	PASS

#### Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.300000	-0.000943	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	2.700000	0.000771	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	4.000000	0.001143	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	8.400000	0.002400	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	6.000000	0.001714	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	10.500000	0.003000	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-1.900000	-0.000543	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-6.400000	-0.001829	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	4.700000	0.001343	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	6.300000	0.001800	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	2.900000	0.000829	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-0.200000	-0.000057	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	5.900000	0.001686	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	6.000000	0.001714	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	0.800000	0.000229	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	9.200000	0.002629	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	3.600000	0.001029	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	7.200000	0.002057	PASS

---End of Attachment---



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