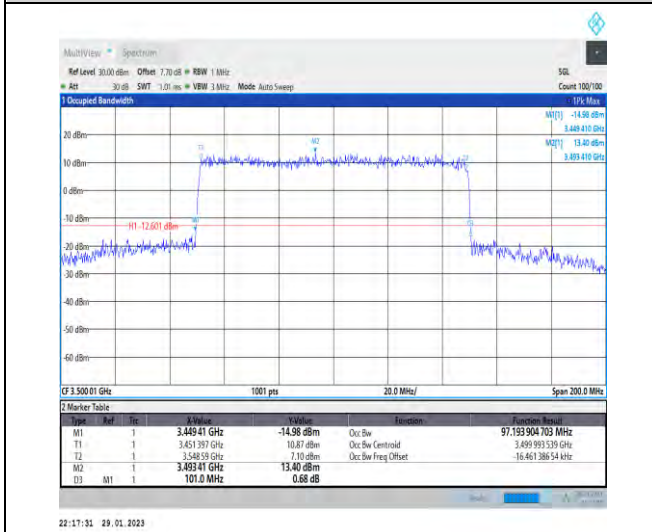


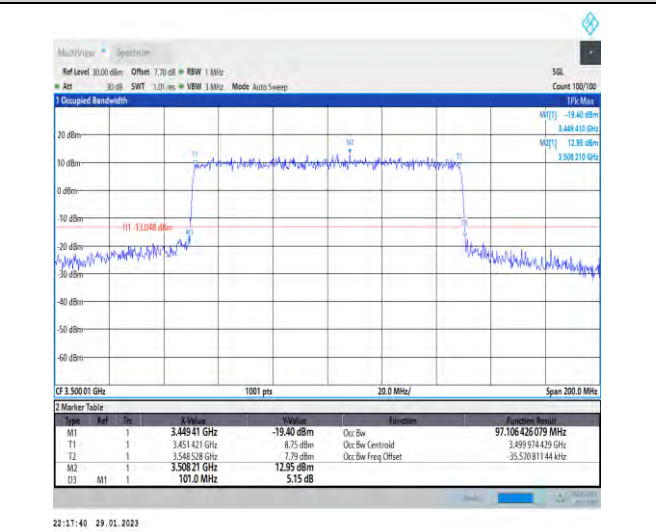
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1-N78-3450-3550-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant1-97.132-100.800-≤100-PASS



1-N78-3450-3550-30-100-L-7-CP-16QAM-Outer_Full-273@0-Ant1-97.194-101.000-≤100-PASS



1-N78-3450-3550-30-100-L-8-CP-64QAM-Outer_Full-273@0-Ant1-97.106-101.000-≤100-PASS



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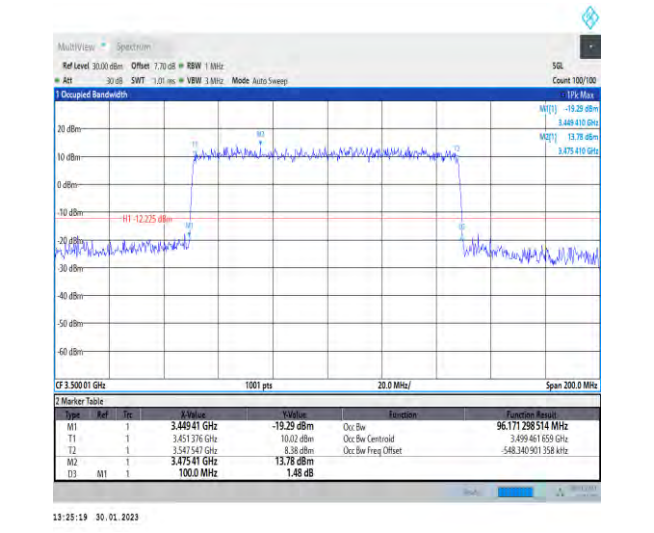
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1-N78-3450-3550-30-100-L-9-CP-256QAM-Outer_Full-273@0-Ant1-97.252-100.800-≤100-PASS

1-N78-3450-3550-30-100-M-1-DFT-QPSK-Outer_Full-270@0-Ant1-96.364-99.800-≤100-PASS



1-N78-3450-3550-30-100-M-2-DFT-PI2BPSK-Outer_Full-270@0-Ant1-96.406-99.600-≤100-PASS

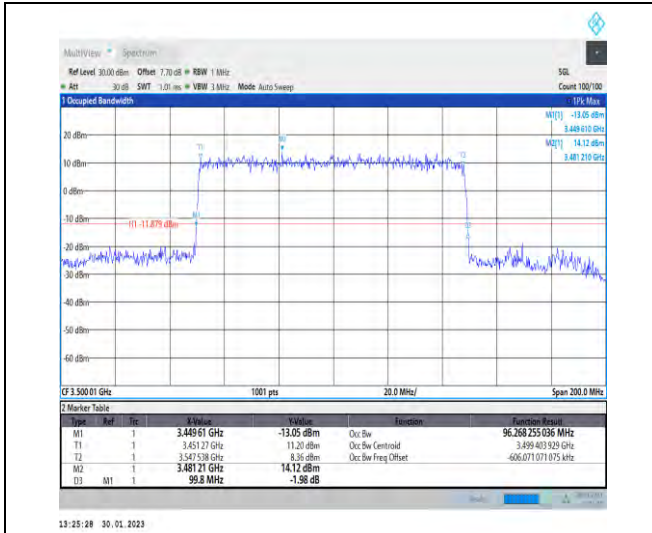
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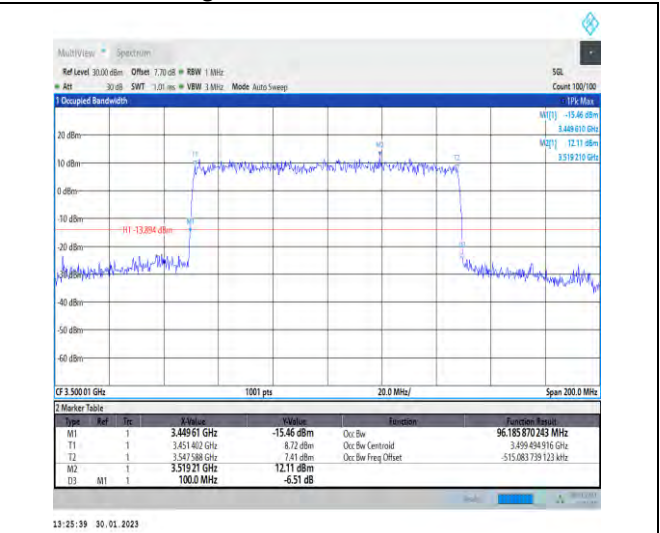
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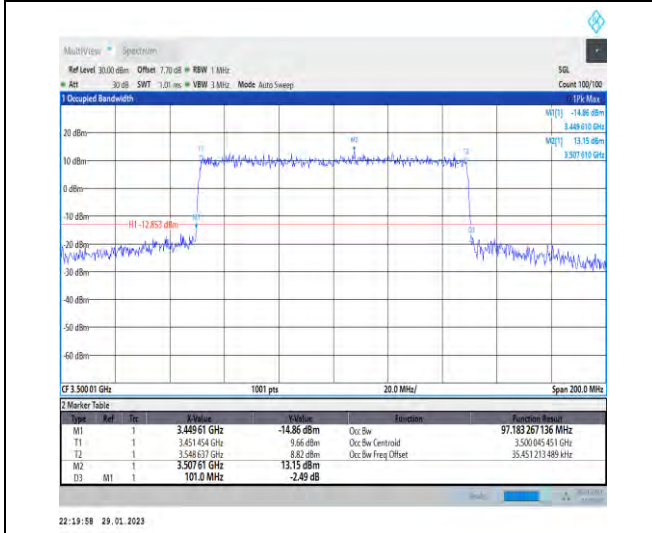
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1-N78-3450-3550-30-100-M-4-DFT-64QAM-Outer_Full-270@0-Ant1-96.268-99.800-≤100-PASS



1-N78-3450-3550-30-100-M-5-DFT-256QAM-Outer_Full-270@0-Ant1-96.186-100.000-≤100-PASS



1-N78-3450-3550-30-100-M-6-CP-QPSK-Outer_Full-273@0-Ant1-97.183-101.000-≤100-PASS



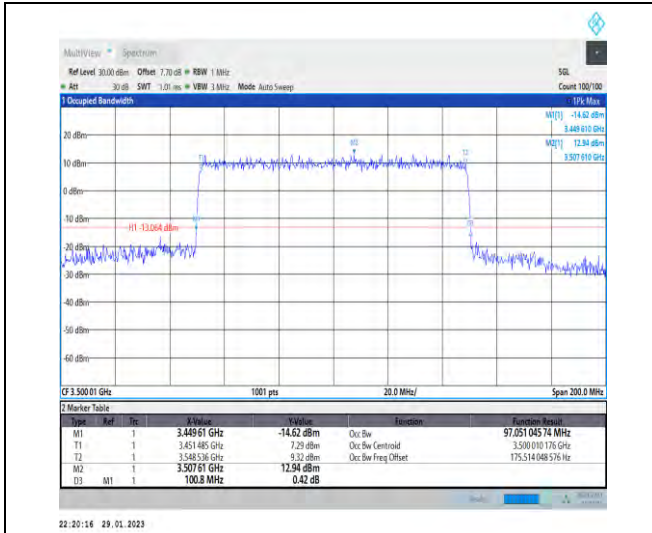
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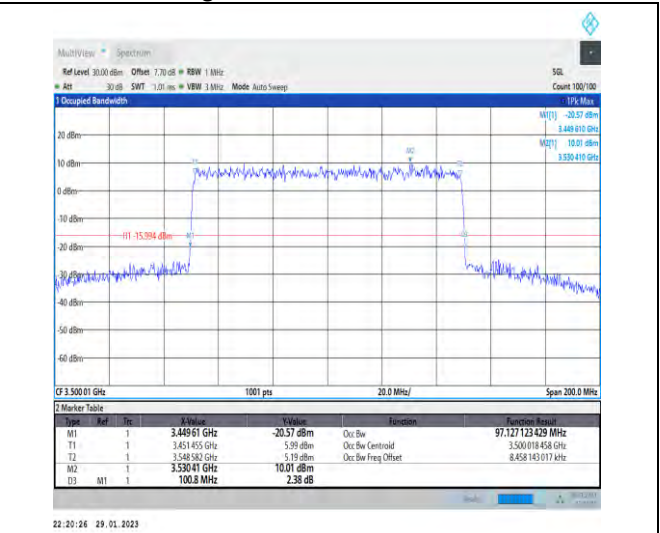
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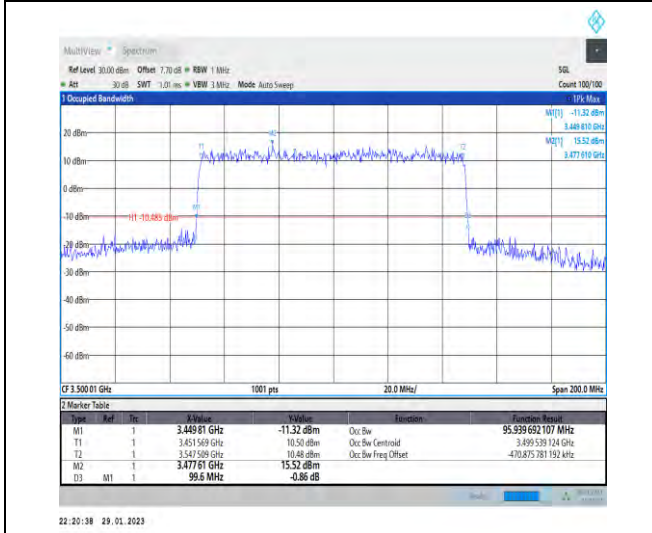
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1-N78-3450-3550-30-100-M-8-CP-64QAM-Outer_Fu II-273@0-Ant1-97.051-100.800-≤100-PASS



1-N78-3450-3550-30-100-M-9-CP-256QAM-Outer_Full-273@0-Ant1-97.127-100.800-≤100-PASS



1-N78-3450-3550-30-100-H-1-DFT-QPSK-Outer_Full-270@0-Ant1-95.94-99.600-≤100-PASS



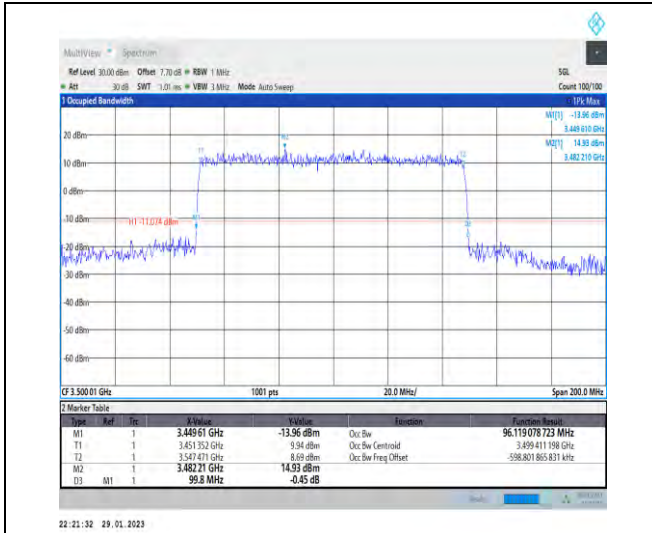
1-N78-3450-3550-30-100-H-2-DFT-PI2BPSK-Outer_Full-270@0-Ant1-95.917-100.000-≤100-PASS



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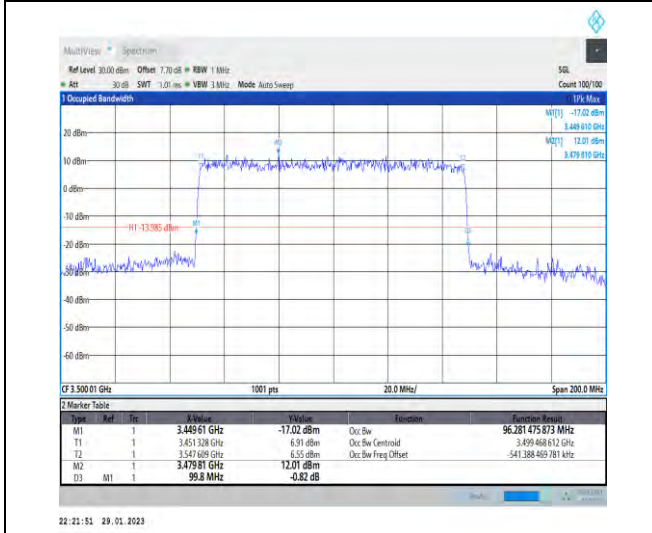
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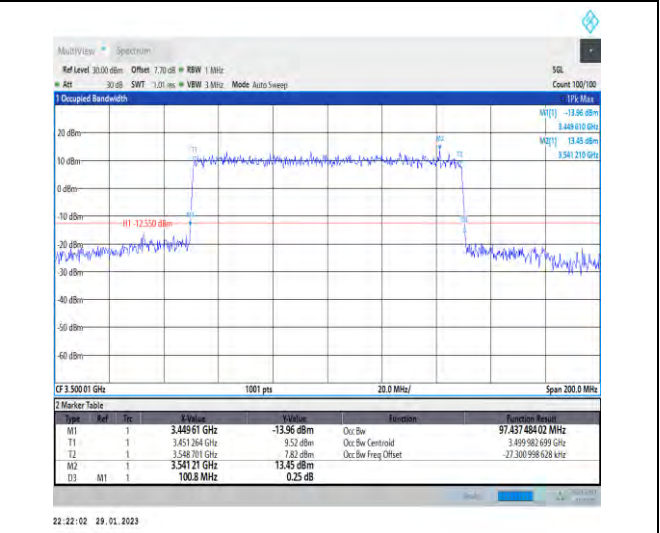
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1-N78-3450-3550-30-100-H-5-DFT-256QAM-Outer_Full-270@0-Ant1-96.281-99.800-≤100-PASS



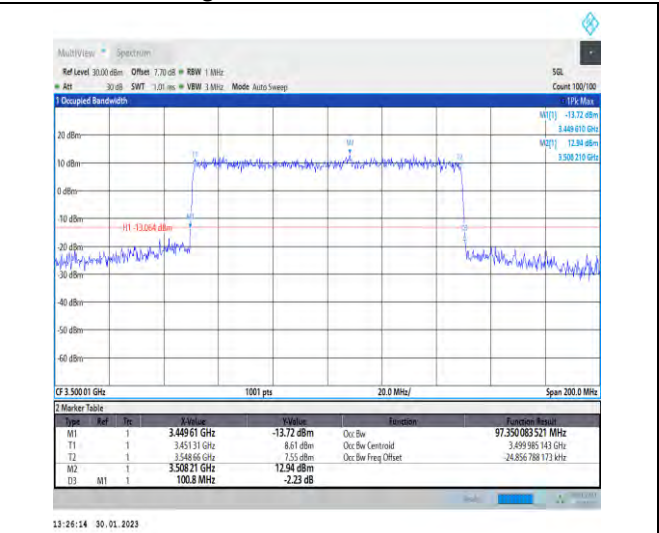
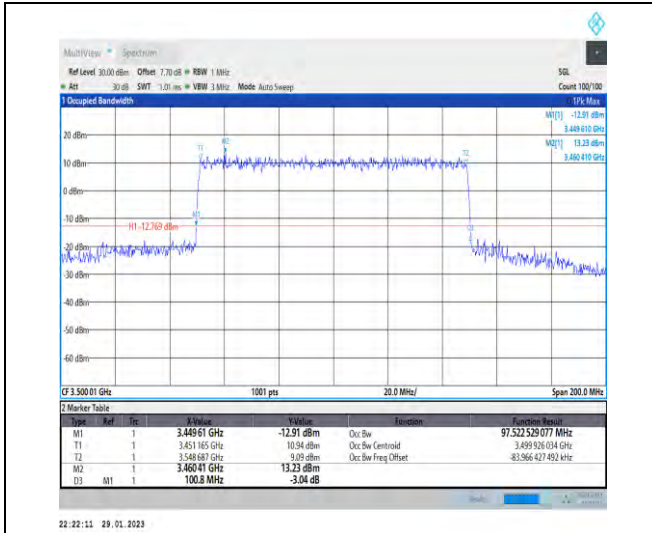
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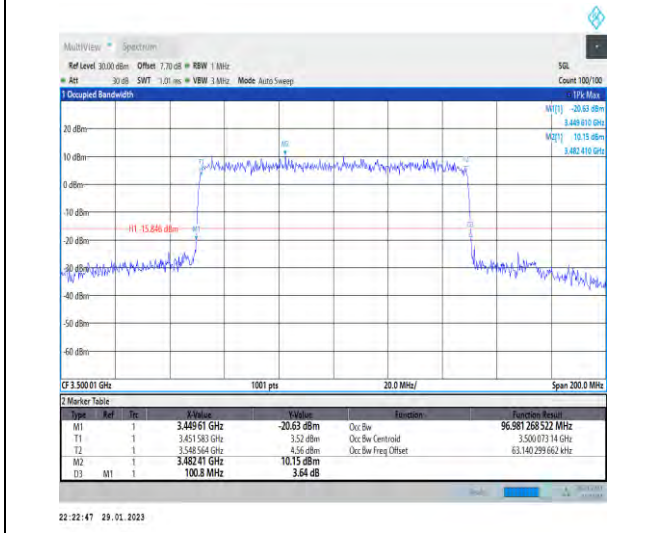
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1-N78-3450-3550-30-100-H-7-CP-16QAM-Outer_Fu II-273@0-Ant1-97.523-100.800-≤100-PASS

1-N78-3450-3550-30-100-H-8-CP-64QAM-Outer_Ful I-273@0-Ant1-97.35-100.800-≤100-PASS



1-N78-3450-3550-30-100-H-9-CP-256QAM-Outer_Full-273@0-Ant1-96.981-100.800-≤100-PASS



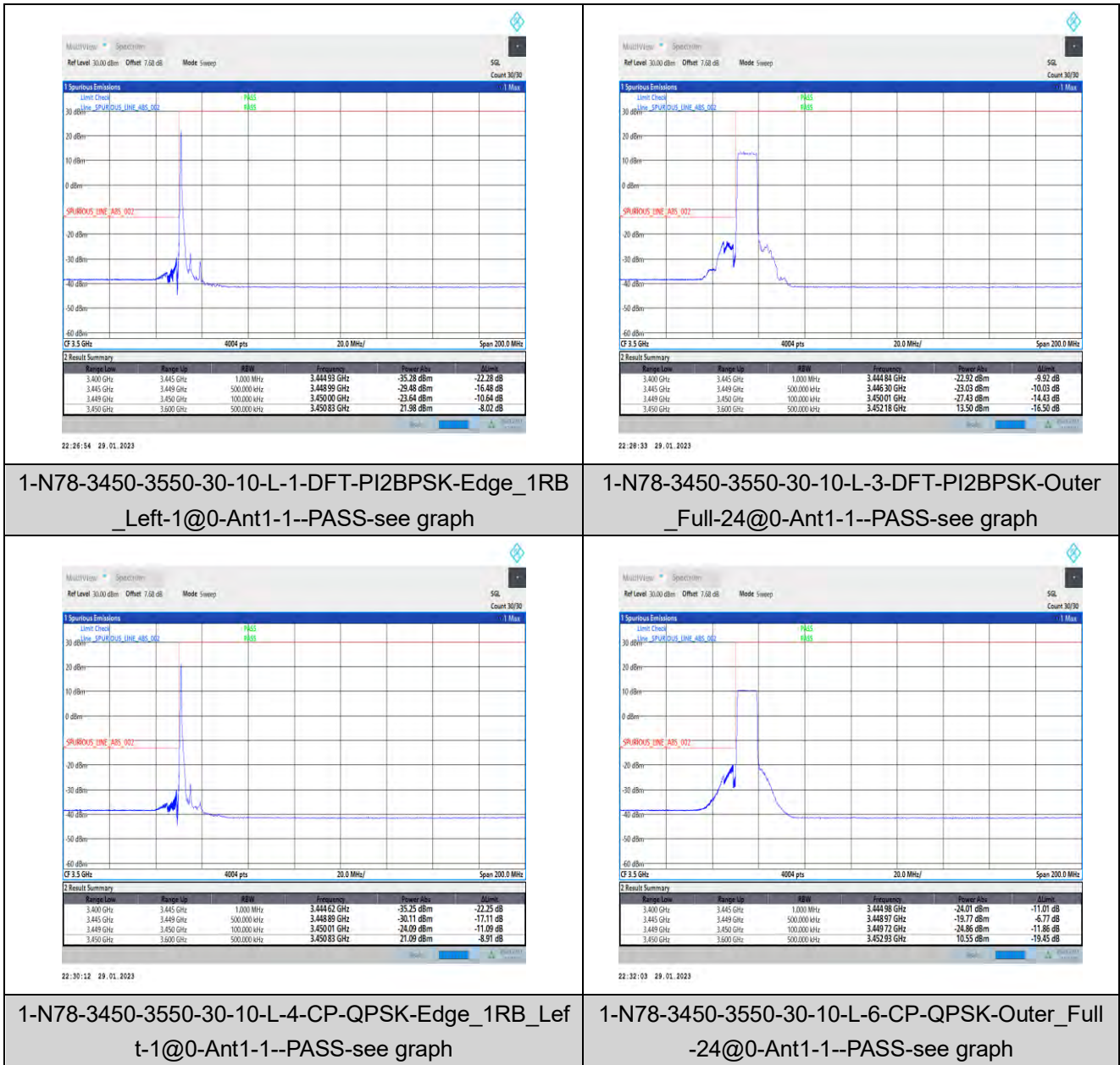
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Band Edge for SA

Test Graphs



1-N78-3450-3550-30-10-L-1-DFT-PI2BPSK-Edge_1RB
 _Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-10-L-3-DFT-PI2BPSK-Outer
 _Full-24@0-Ant1-1--PASS-see graph

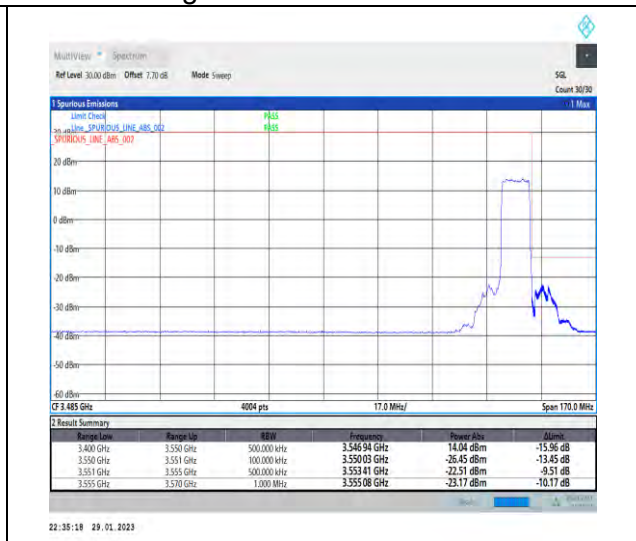
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 t-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-10-L-6-CP-QPSK-Outer_Full
 -24@0-Ant1-1--PASS-see graph



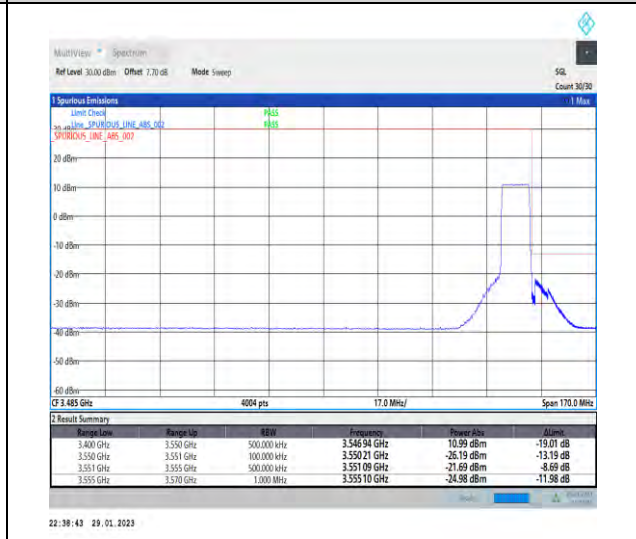
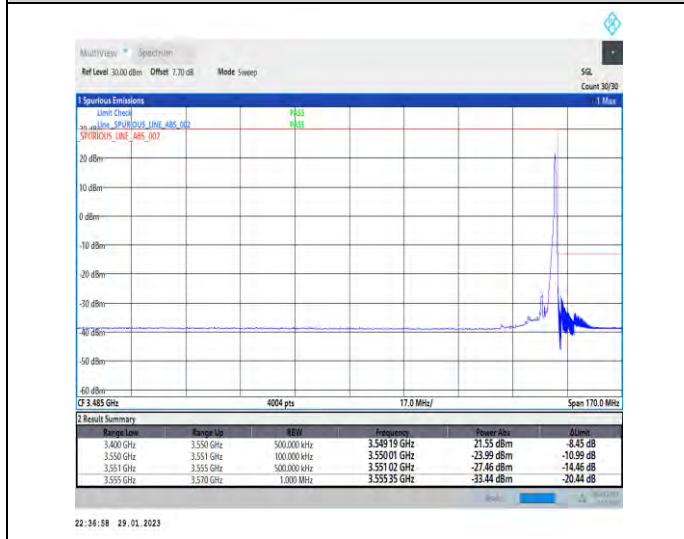
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1-N78-3450-3550-30-10-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@23-Ant1-1--PASS-see graph

1-N78-3450-3550-30-10-H-3-DFT-PI2BPSK-Outer_Full-24@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant1-1--PASS-see graph

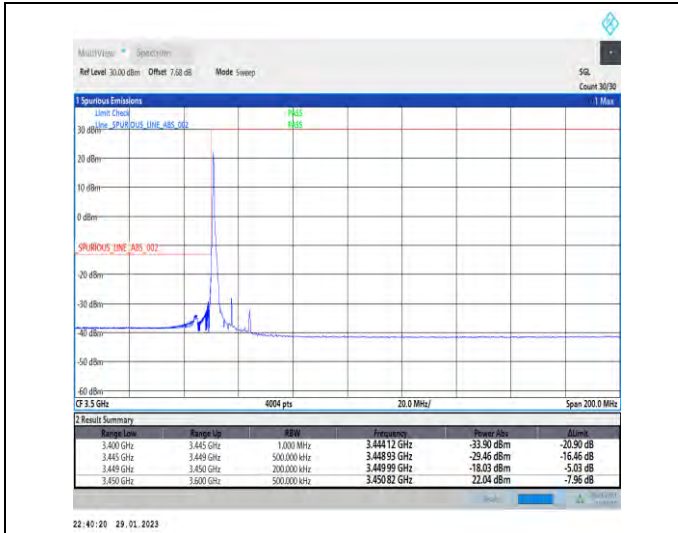
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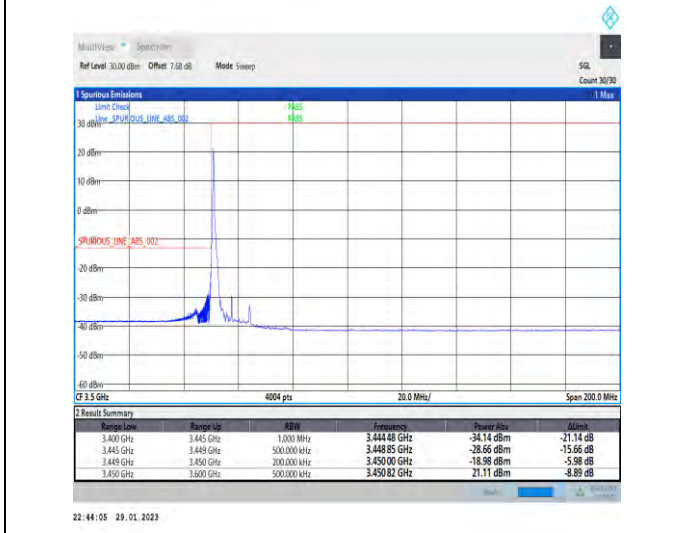
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1-N78-3450-3550-30-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-15-L-3-DFT-PI2BPSK-Outer_Full-36@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-15-L-4-CP-QPSK-Edge_1RB_Lef t-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-15-L-6-CP-QPSK-Outer_Full -38@0-Ant1-1--PASS-see graph



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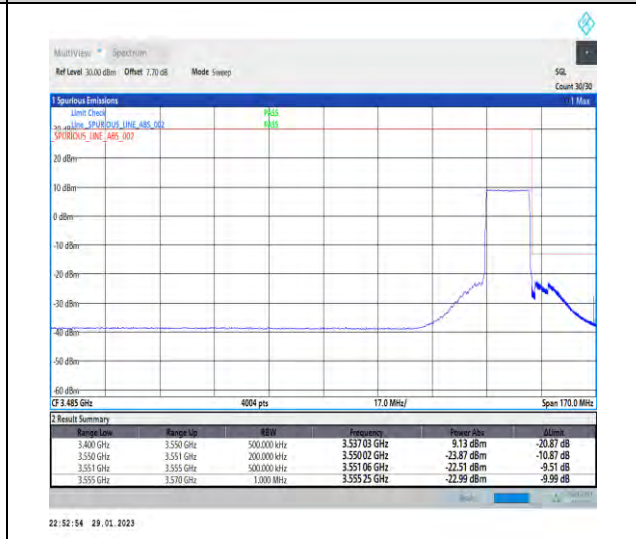
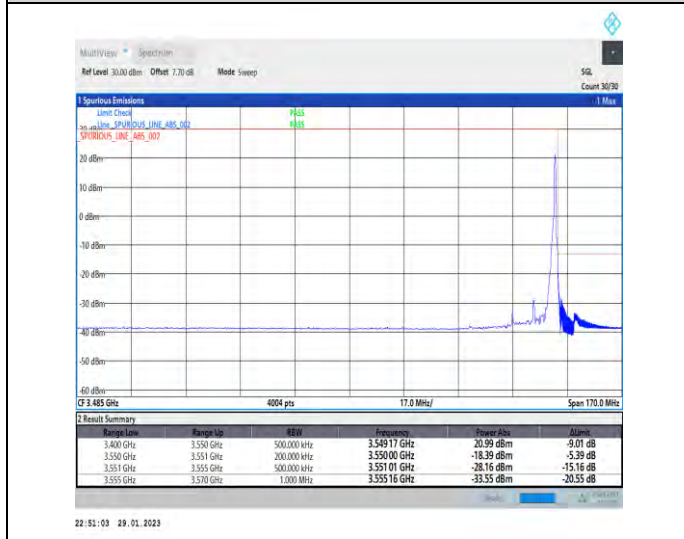
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1-N78-3450-3550-30-15-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@37-Ant1-1--PASS-see graph

1-N78-3450-3550-30-15-H-3-DFT-PI2BPSK-Outer_Full-36@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-15-H-5-CP-QPSK-Edge_1RB_Right-1@37-Ant1-1--PASS-see graph

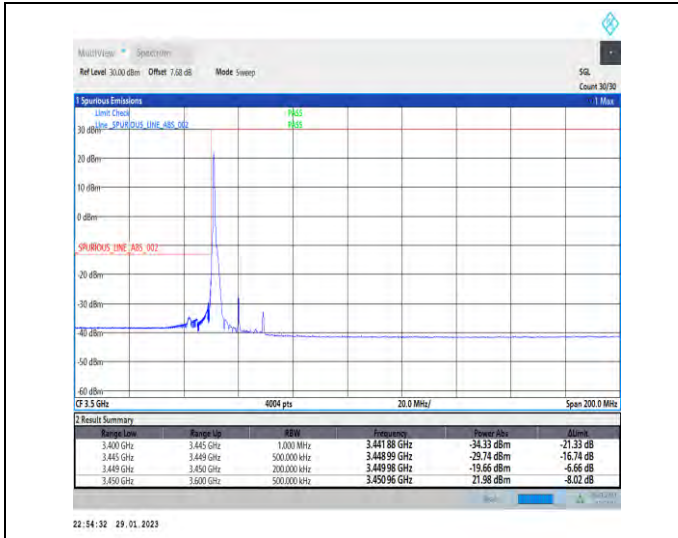
1-N78-3450-3550-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant1-1--PASS-see graph



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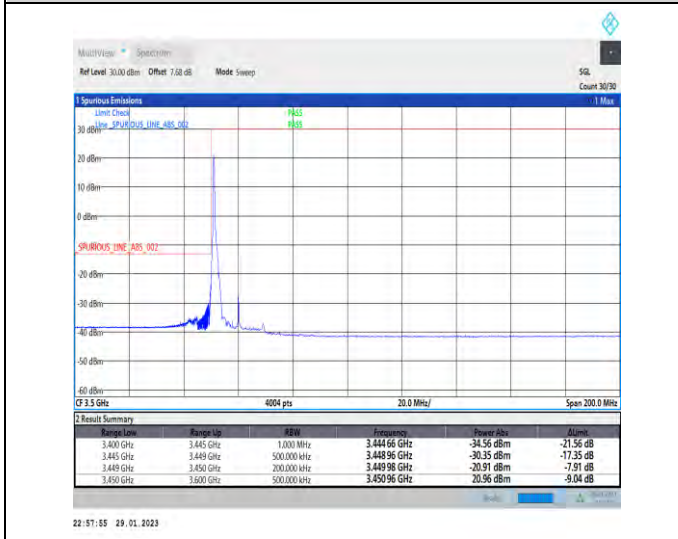
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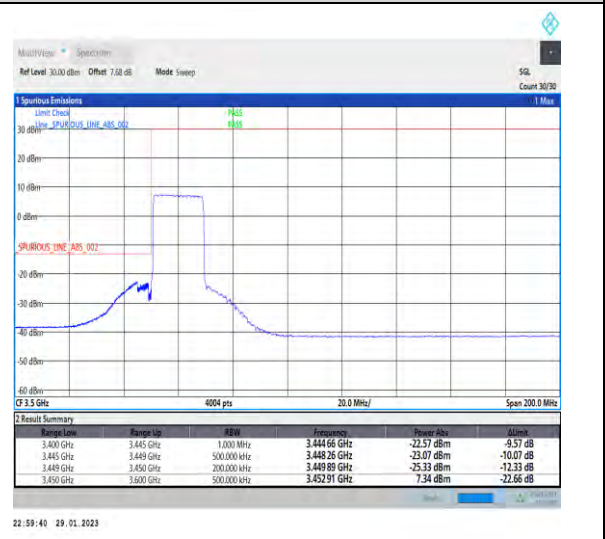
1-N78-3450-3550-30-20-L-1-DFT-PI2BPSK-Edge_1RB
 _Left-1@0-Ant1-1--PASS-see graph



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



1-N78-3450-3550-30-20-L-4-CP-QPSK-Edge_1RB_Lef
 t-1@0-Ant1-1--PASS-see graph

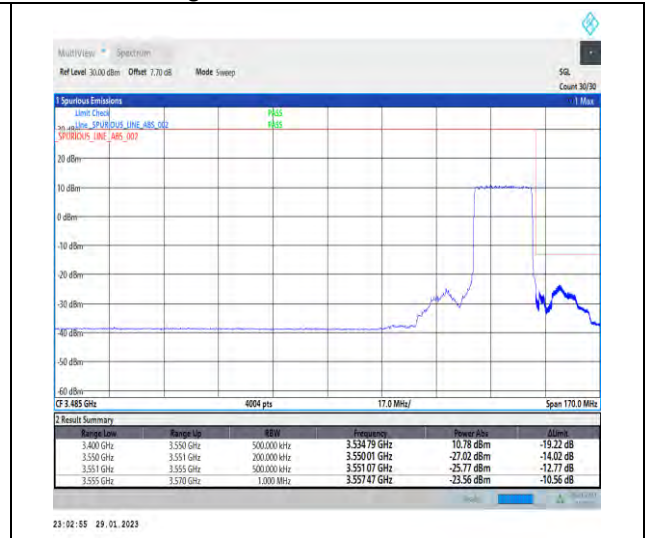


1-N78-3450-3550-30-20-L-6-CP-QPSK-Outer_Full
 -51@0-Ant1-1--PASS-see graph



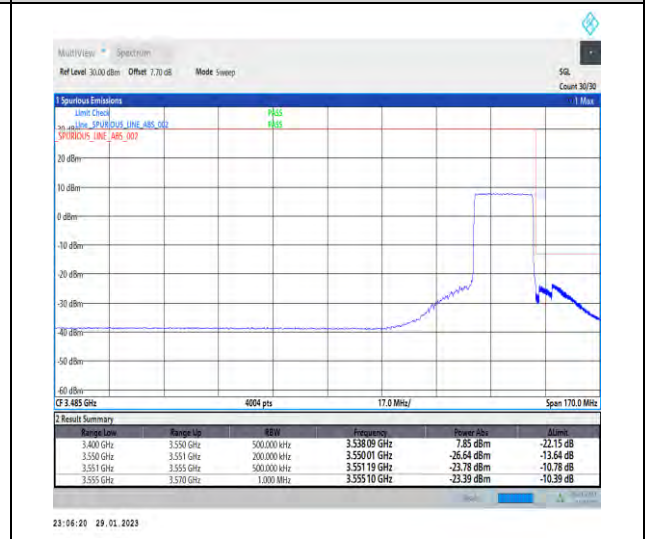
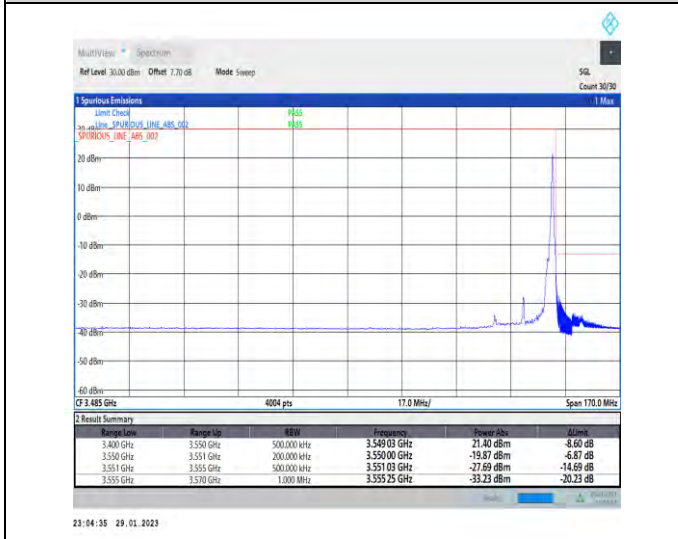
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1-N78-3450-3550-30-20-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@50-Ant1-1--PASS-see graph

1-N78-3450-3550-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant1-1--PASS-see graph

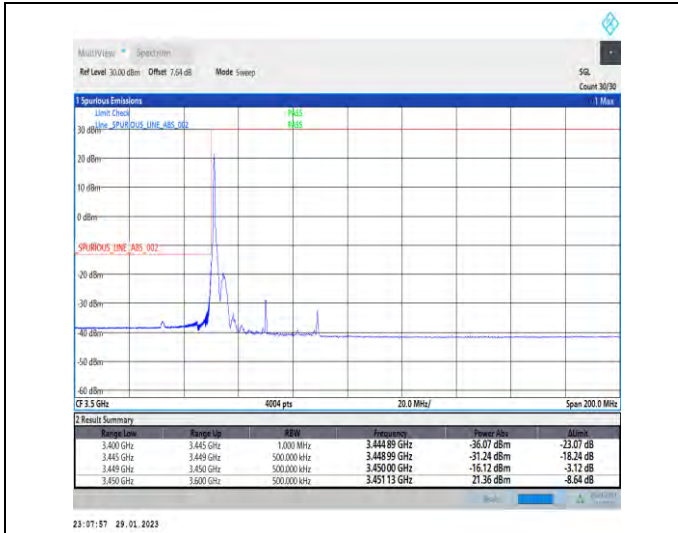
1-N78-3450-3550-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant1-1--PASS-see graph



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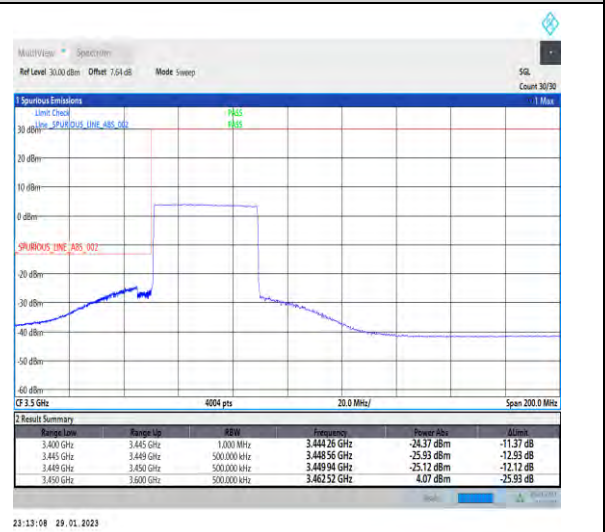
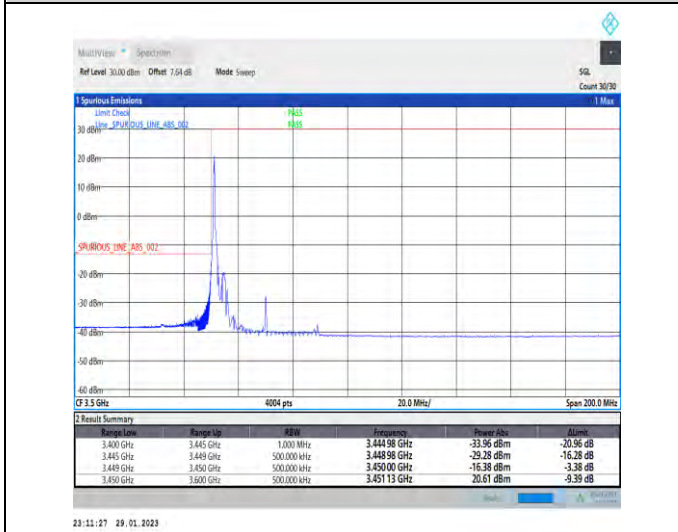
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1-N78-3450-3550-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-40-L-4-CP-QPSK-Edge_1RB_Lef t-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-40-L-6-CP-QPSK-Outer_Full -106@0-Ant1-1--PASS-see graph



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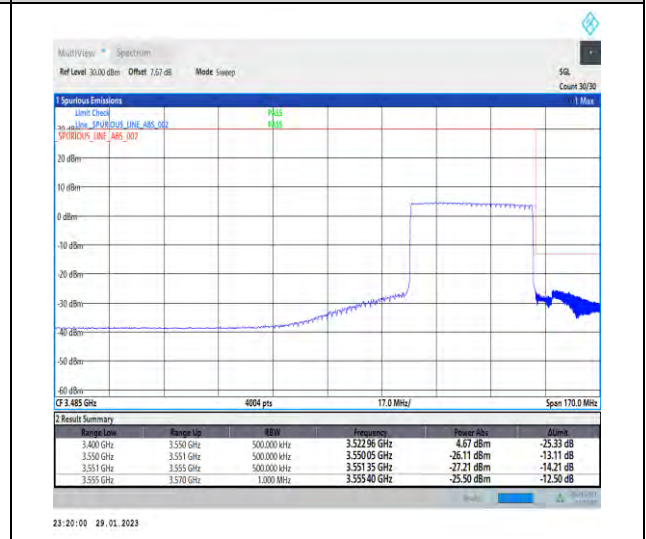
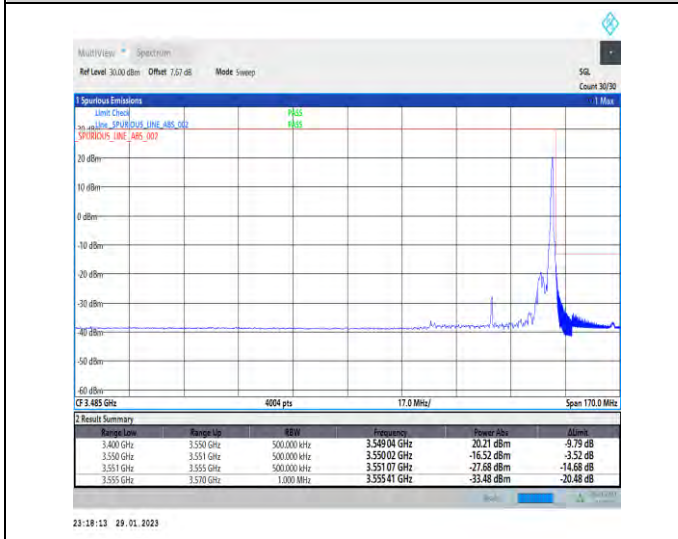
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1-N78-3450-3550-30-40-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@105-Ant1-1--PASS-see graph

1-N78-3450-3550-30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph

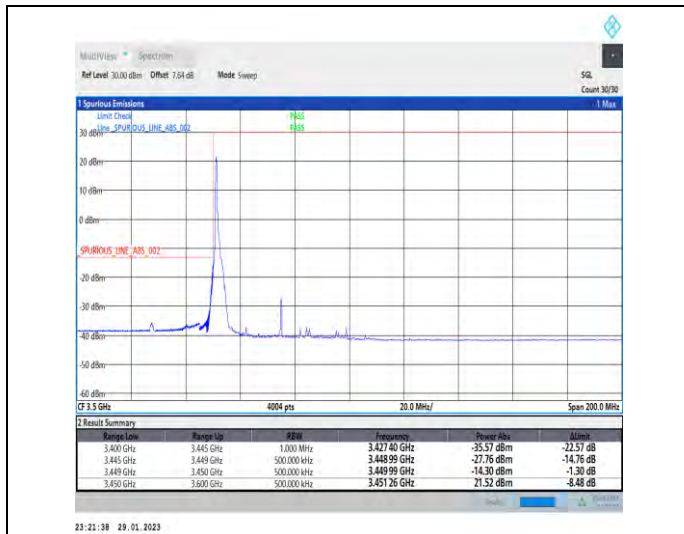
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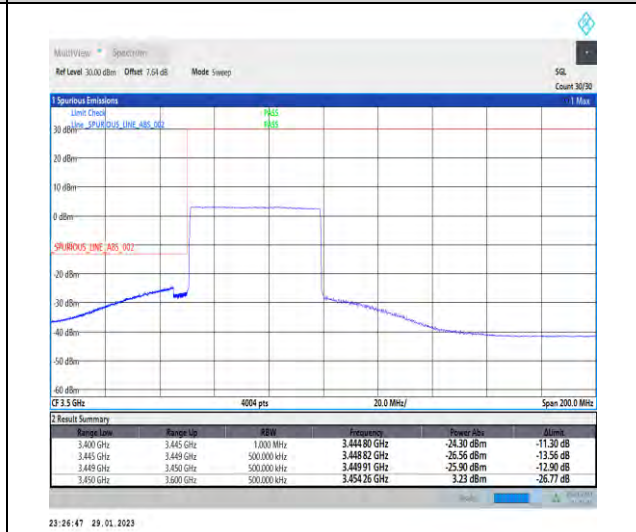
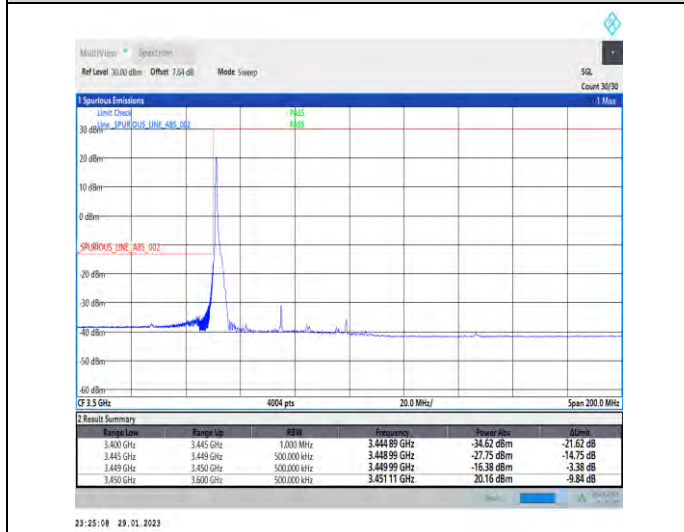
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1-N78-3450-3550-30-50-L-1-DFT-PI2BPSK-Edge_1RB
 _Left-1@0-Ant1-1--PASS-see graph

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



1-N78-3450-3550-30-50-L-4-CP-QPSK-Edge_1RB_Lef t-1@0-Ant1-1--PASS-see graph

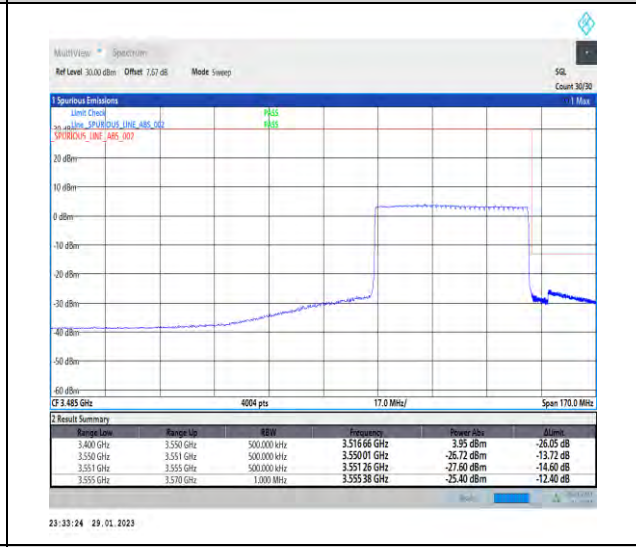
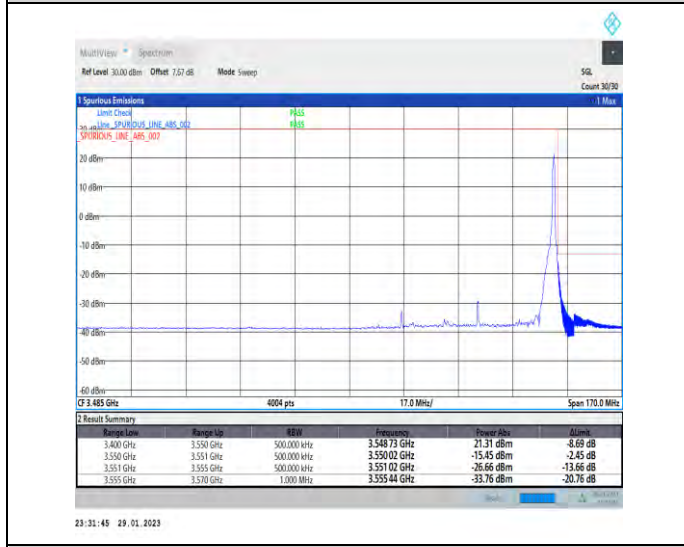
1-N78-3450-3550-30-50-L-6-CP-QPSK-Outer_Full -133@0-Ant1-1--PASS-see graph





1-N78-3450-3550-30-50-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@132-Ant1-1--PASS-see graph

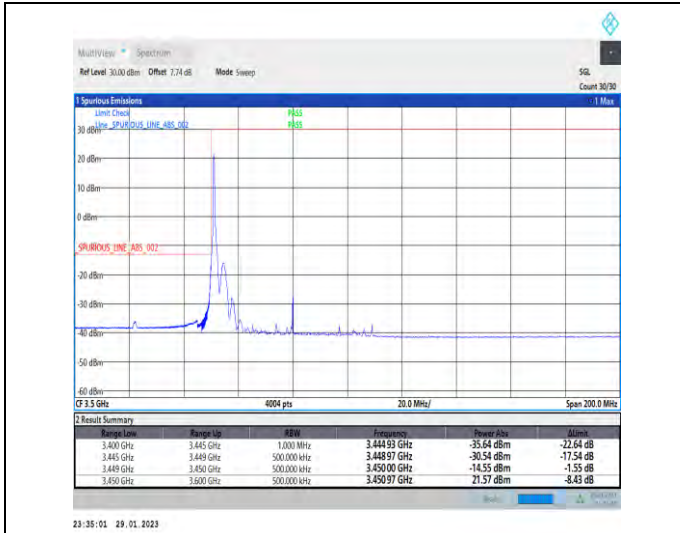
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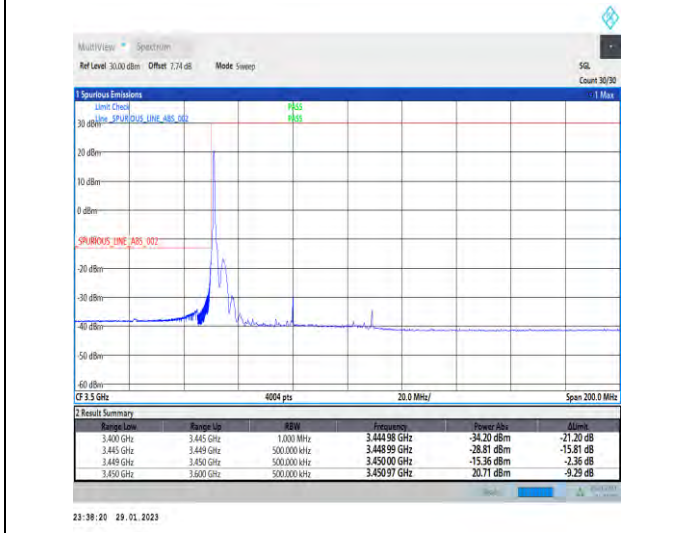
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1-N78-3450-3550-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-60-L-4-CP-QPSK-Edge_1RB_Lef t-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-60-L-6-CP-QPSK-Outer_Full -162@0-Ant1-1--PASS-see graph



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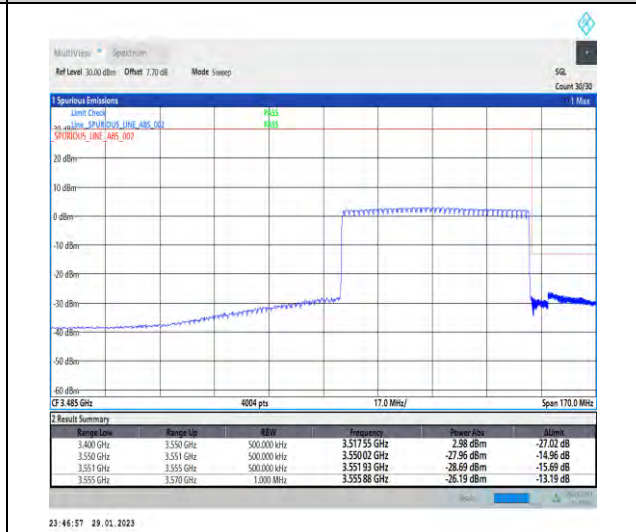
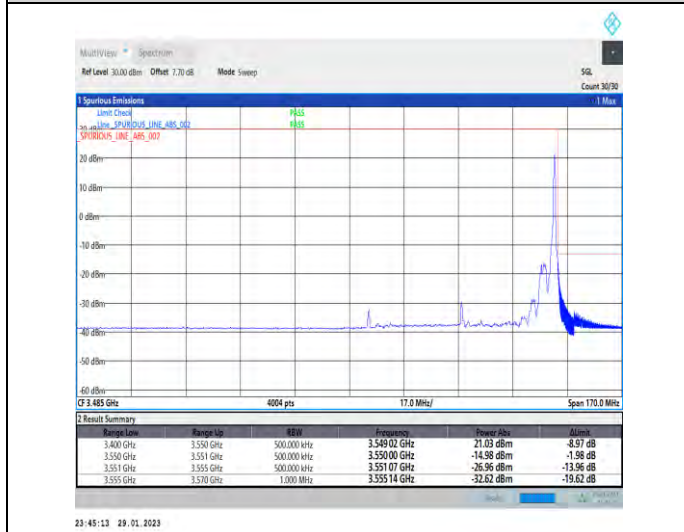
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1-N78-3450-3550-30-60-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@161-Ant1-1--PASS-see graph

1-N78-3450-3550-30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph

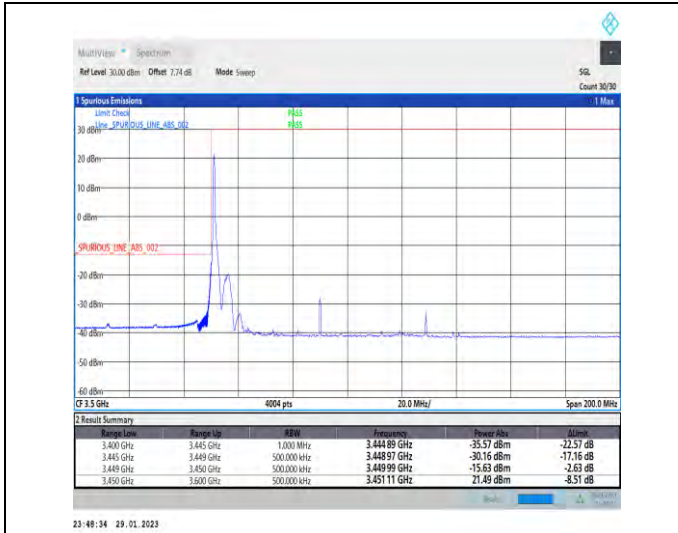
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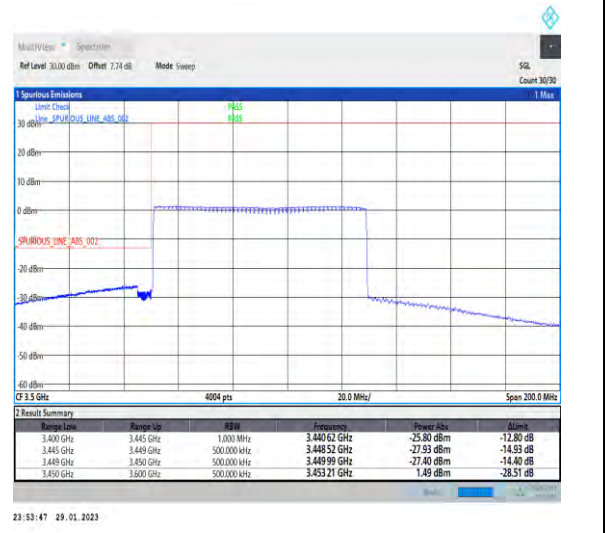
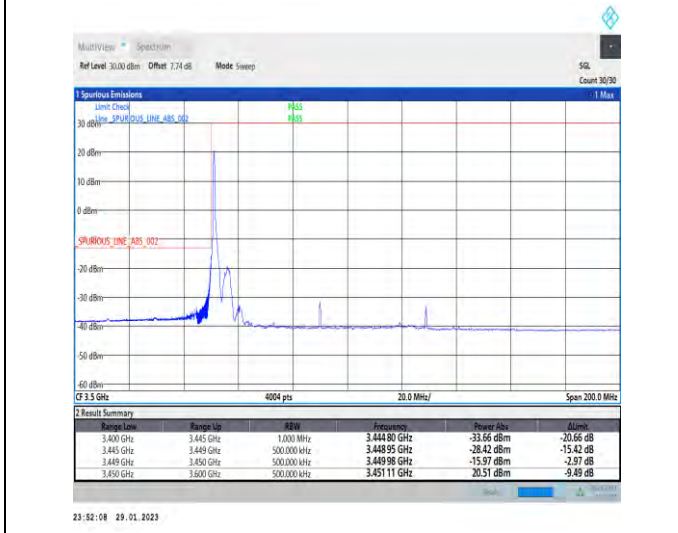
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1-N78-3450-3550-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-80-L-4-CP-QPSK-Edge_1RB_Lef t-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-80-L-6-CP-QPSK-Outer_Full -217@0-Ant1-1--PASS-see graph



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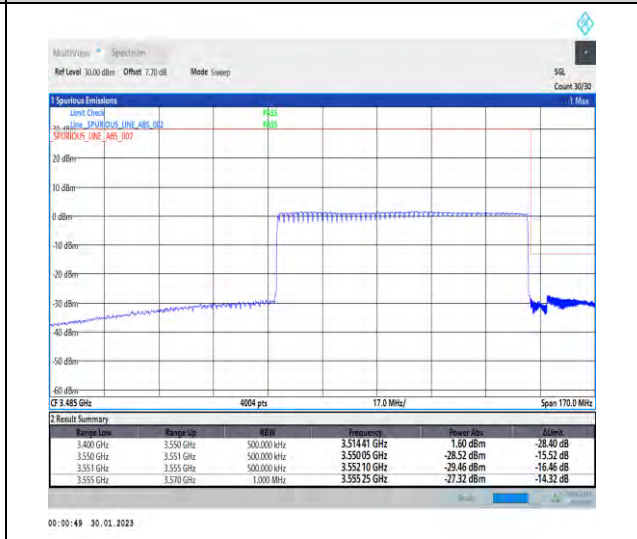
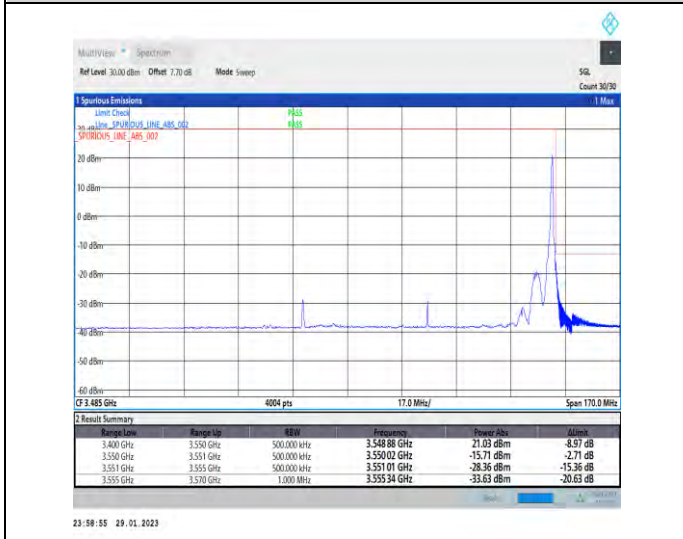
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1-N78-3450-3550-30-80-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@216-Ant1-1--PASS-see graph

1-N78-3450-3550-30-80-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant1-1--PASS-see graph

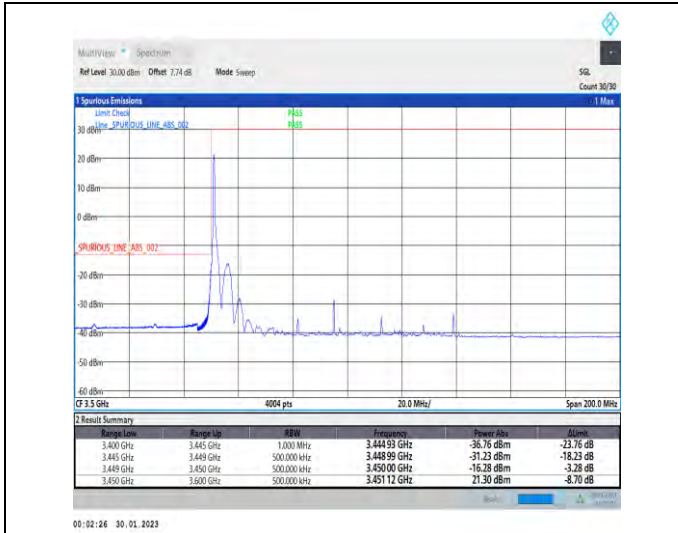
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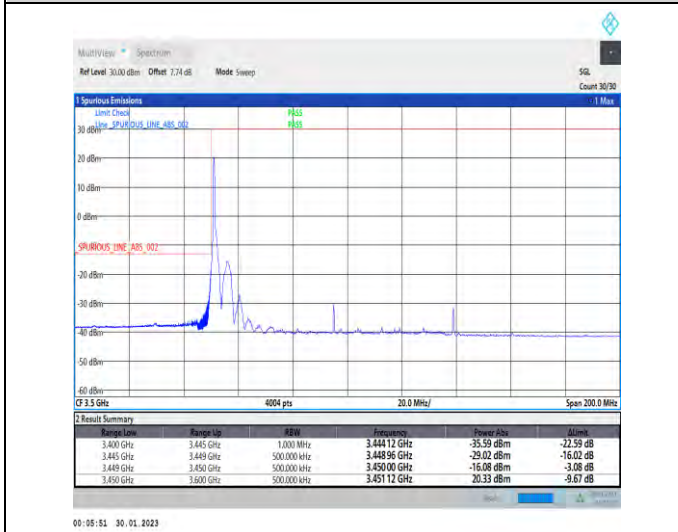
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1-N78-3450-3550-30-90-L-1-DFT-PI2BPSK-Edge_1RB
_Left-1@0-Ant1-1--PASS-see graph



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



1-N78-3450-3550-30-90-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-90-L-6-CP-QPSK-Outer_Full
-245@0-Ant1-1--PASS-see graph



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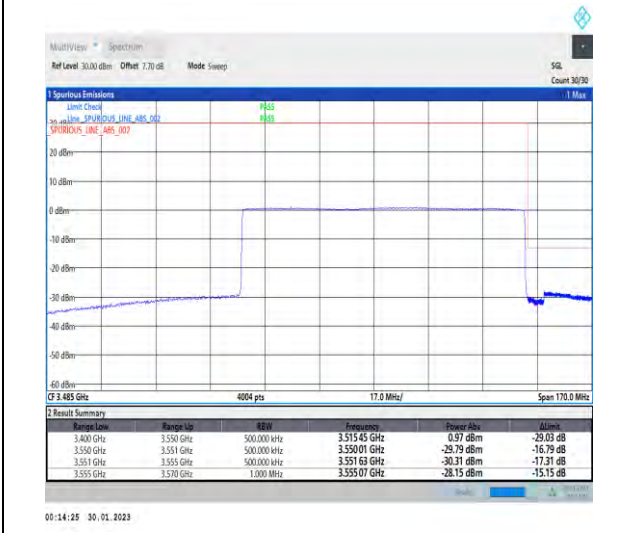
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1-N78-3450-3550-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-1--PASS-see graph



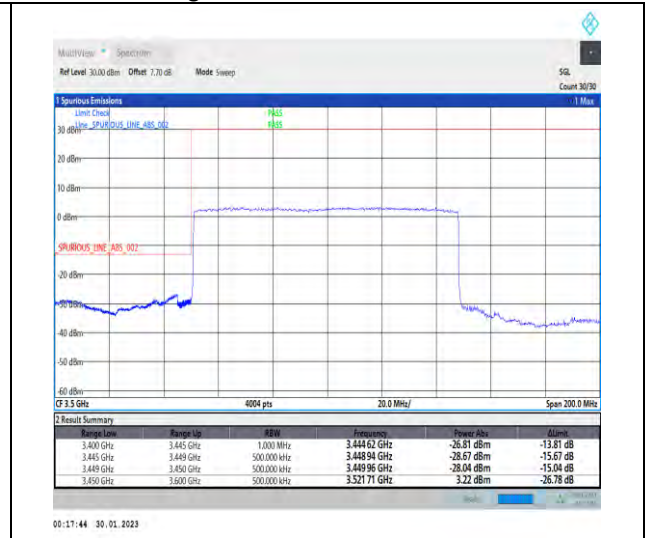
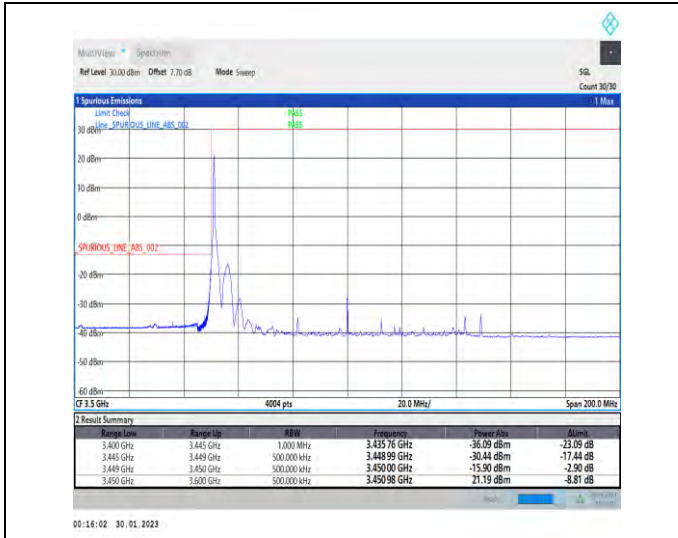
1-N78-3450-3550-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph



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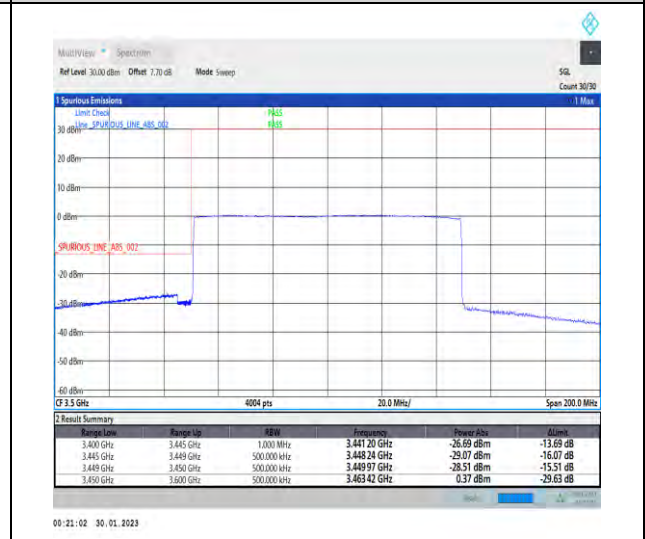
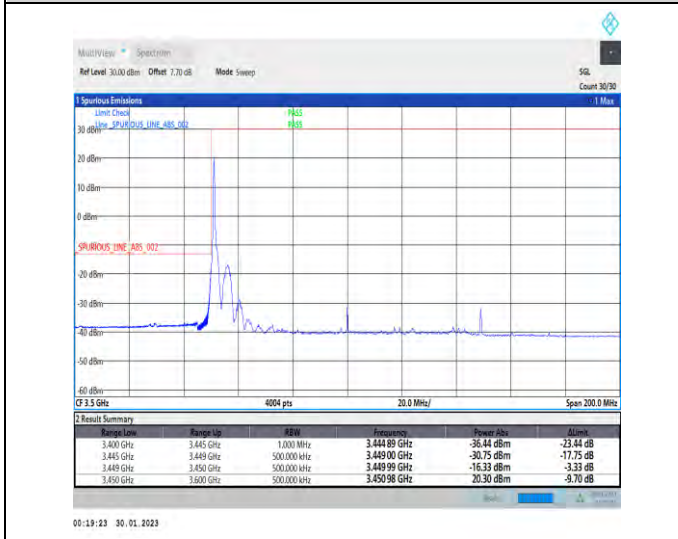
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1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



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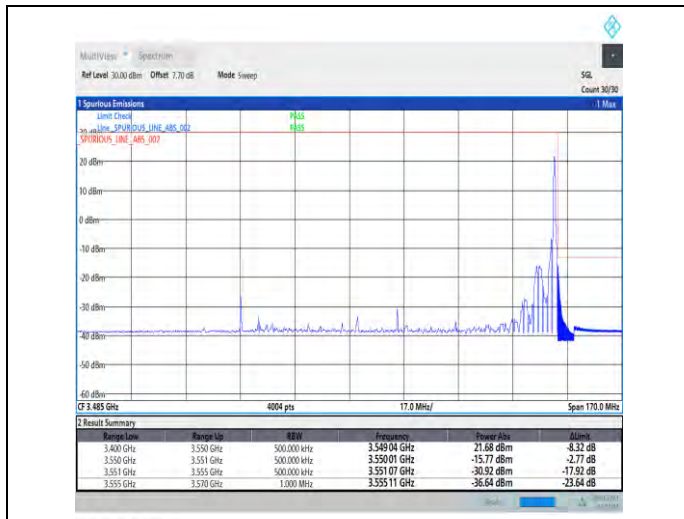
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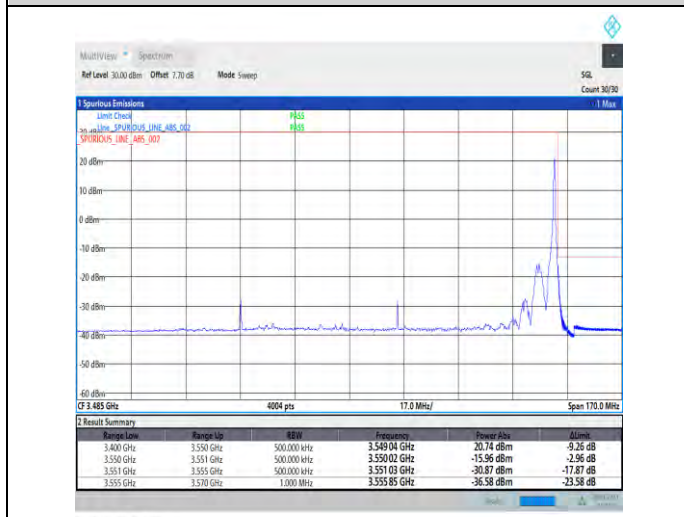
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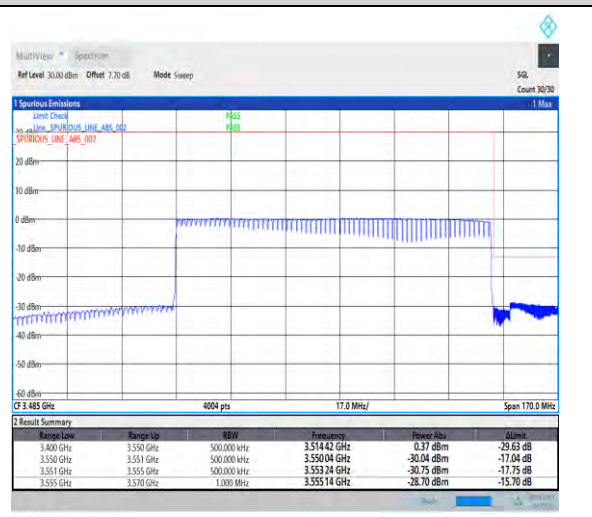
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1-N78-3450-3550-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N78-3450-3550-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph



1-N78-3450-3550-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



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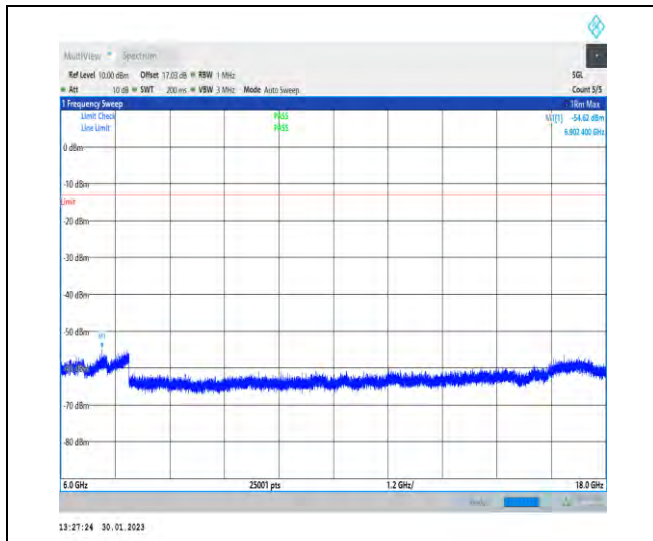
Test Graphs

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<p>1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-33.88--66.06--13-PASS</p>	<p>1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5385.00--39.66--13-PASS</p>

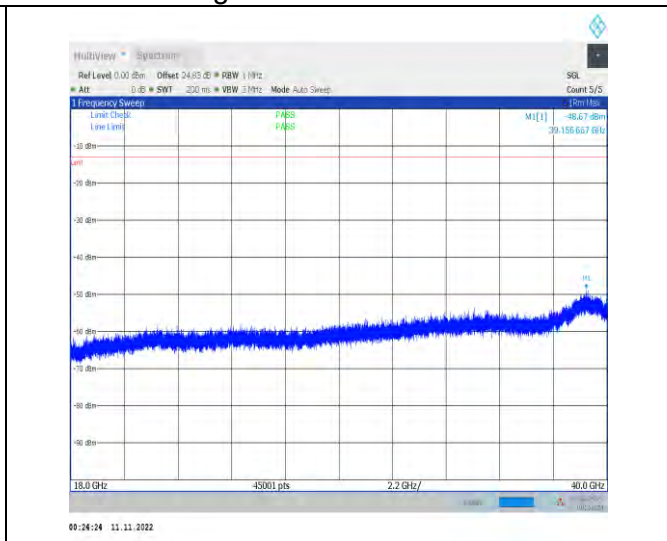


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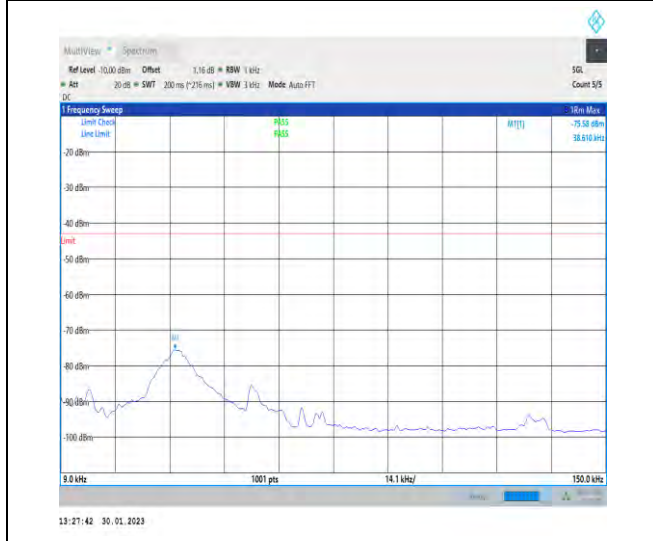
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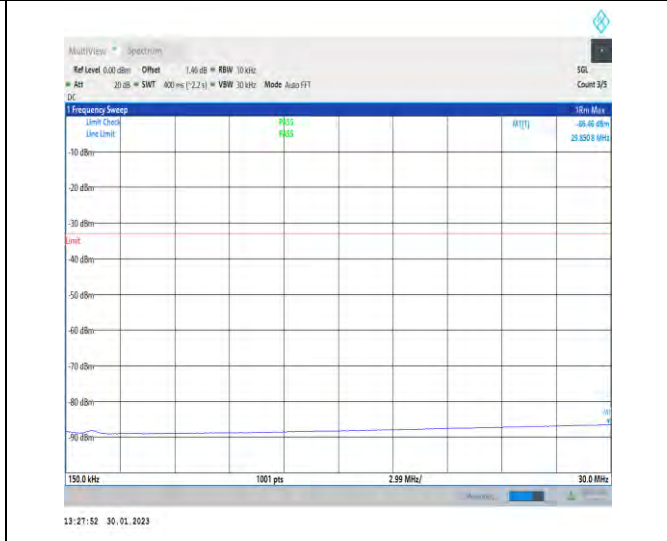
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1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--59.52--1 3-PASS



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.04--75.58--43-PASS



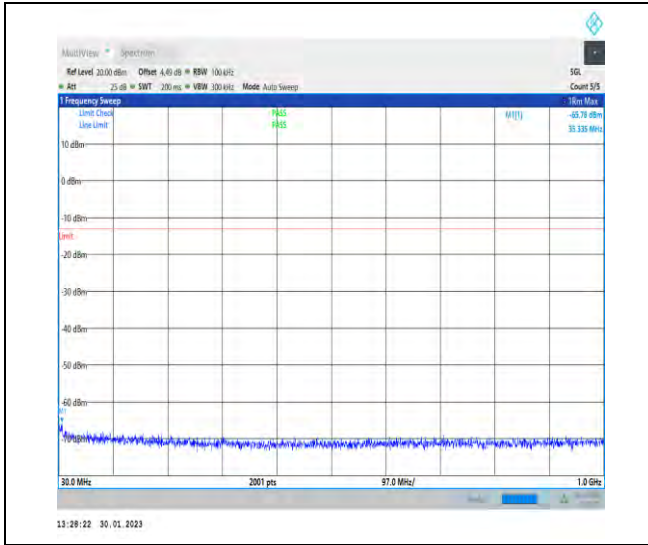
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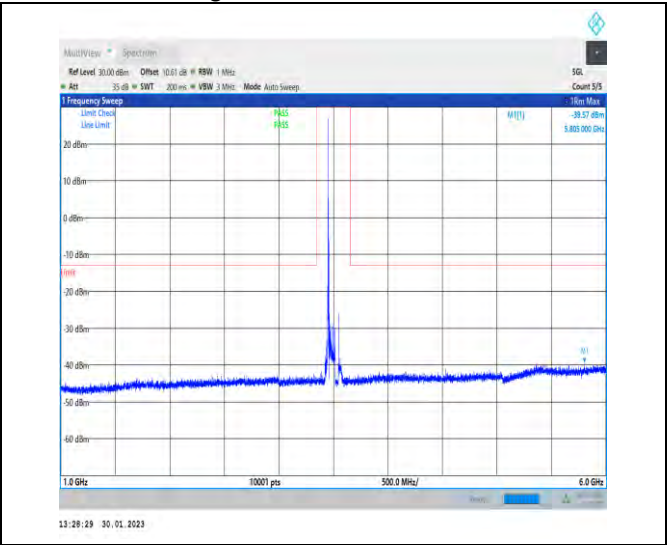
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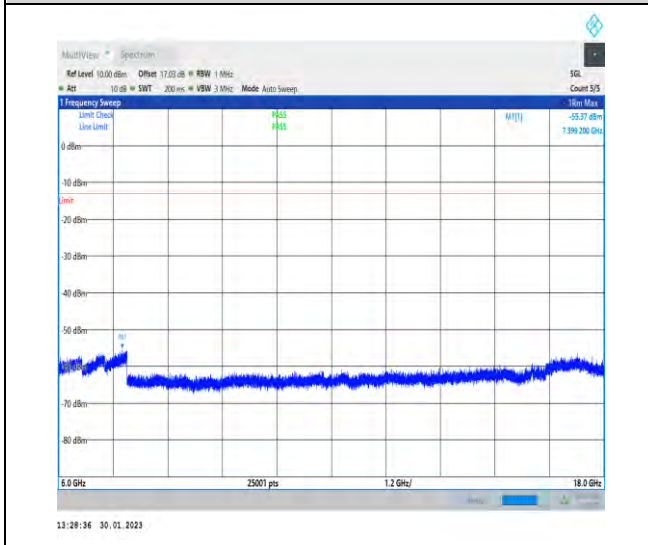
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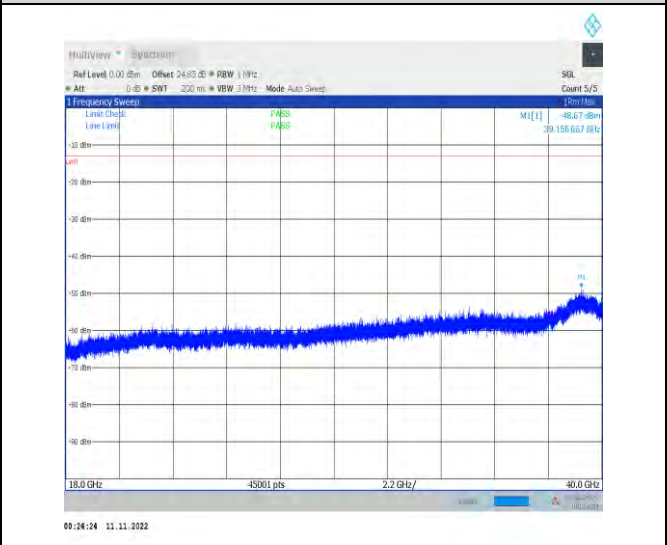
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S



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5805.00--39.57--13-PASS



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1-7399.20--55.37--13-PASS

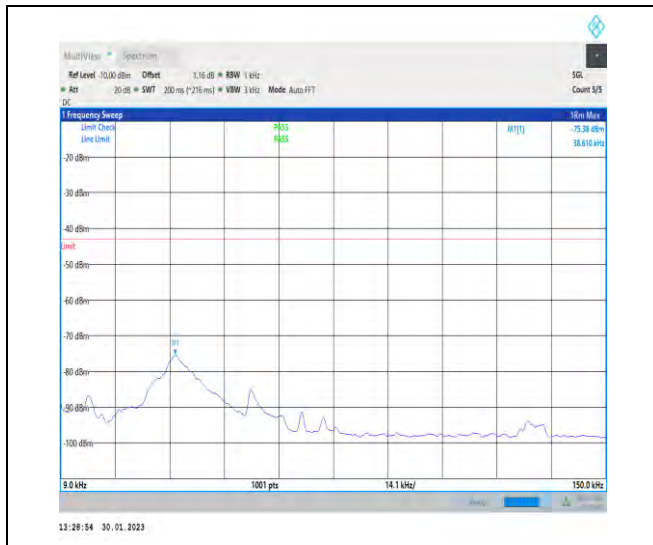


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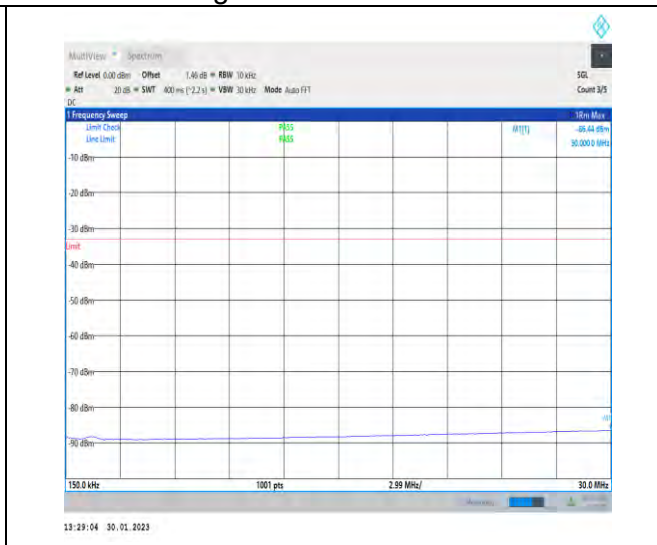


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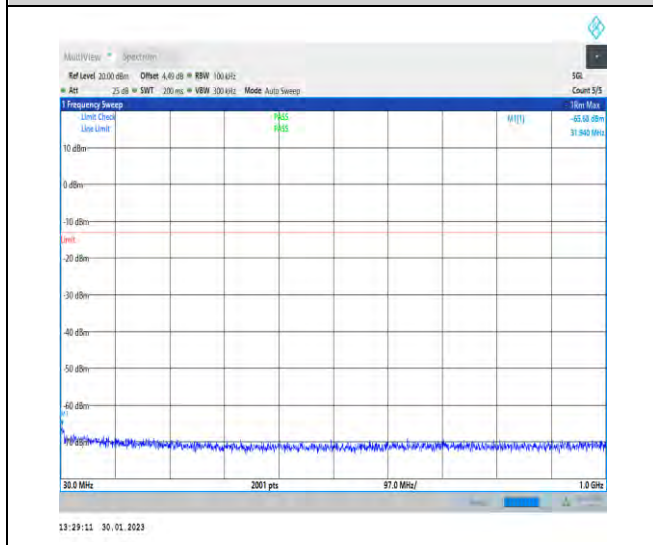
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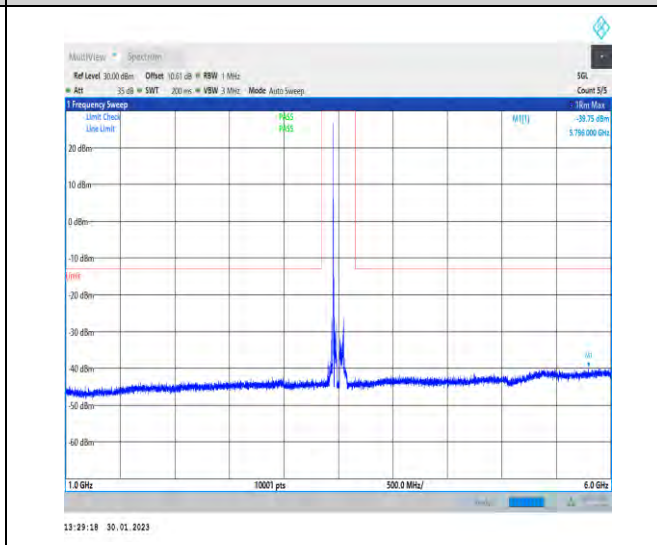
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1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-30.00--86.44--33-PASS



1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-31.94--65.68--13-PAS S

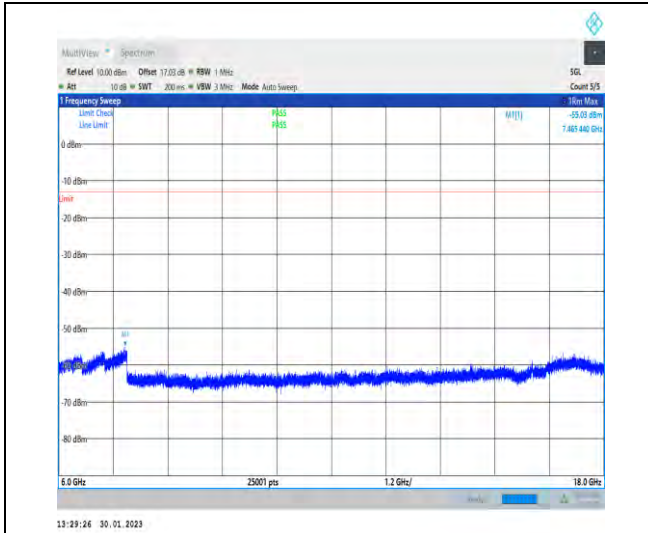


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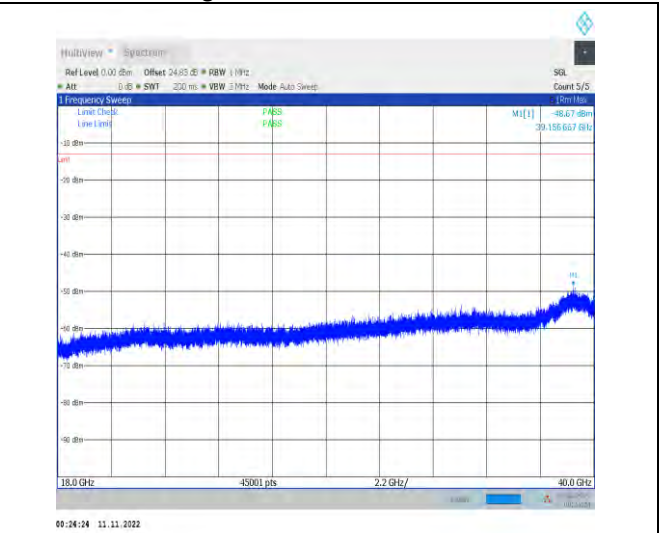


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3-PASS



1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--59.37--1
3-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band78_100MHz_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	39.84	-43.80	35.97	-63.25	-13.00	50.25	144	125	Horizontal
2	8231.9	39.79	-42.06	37.12	-60.41	-13.00	47.41	186	77	Horizontal
3	9015.625	38.83	-40.80	38.21	-59.02	-13.00	46.02	259	210	Horizontal
4	10365.2700	34.50	-38.81	38.85	-60.71	-13.00	47.71	192	151	Horizontal
5	13820.3600	30.75	-36.11	39.98	-60.64	-13.00	47.64	173	0	Horizontal
6	17275.4500	32.49	-35.16	38.70	-59.22	-13.00	46.22	216	105	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	39.77	-43.80	35.97	-63.32	-13.00	50.32	184	73	Vertical
2	8375.65	39.97	-41.49	37.30	-59.48	-13.00	46.48	174	0	Vertical
3	9269.2	38.03	-40.03	38.39	-58.87	-13.00	45.87	153	59	Vertical
4	10365.2700	34.61	-38.81	38.85	-60.60	-13.00	47.60	236	254	Vertical
5	13820.3600	31.09	-36.11	39.98	-60.30	-13.00	47.30	256	285	Vertical
6	17275.4500	33.11	-35.16	38.70	-58.60	-13.00	45.60	291	209	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.800000	-0.000514	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.300000	0.001229	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.600000	0.000171	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	1.700000	0.000486	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	6.300000	0.001800	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	2.300000	0.000657	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.300000	0.002657	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	1.600000	0.000457	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-0.800000	-0.000229	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	1.400000	0.000400	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	3.300000	0.000943	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	8.200000	0.002343	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	2.200000	0.000629	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	9.700000	0.002771	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	7.900000	0.002257	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-3.100000	-0.000886	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	0.500000	0.000143	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-0.500000	-0.000143	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-2.500000	-0.000714	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-1.800000	-0.000514	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	3.800000	0.001086	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	1.000000	0.000286	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-0.200000	-0.000057	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-4.900000	-0.001400	PASS

---End of Attachment---



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