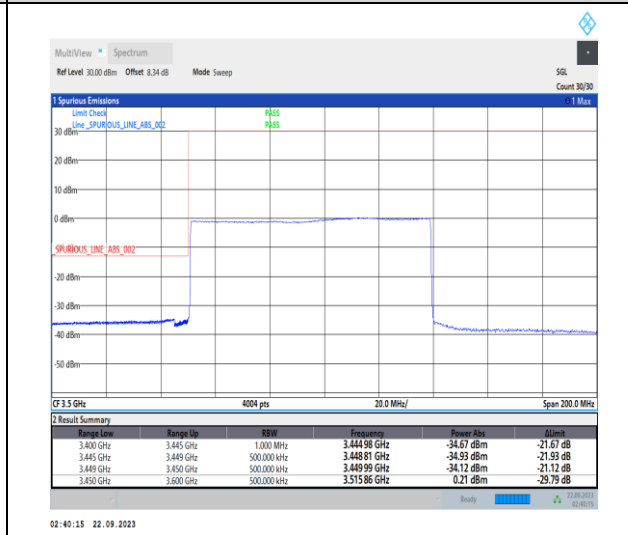
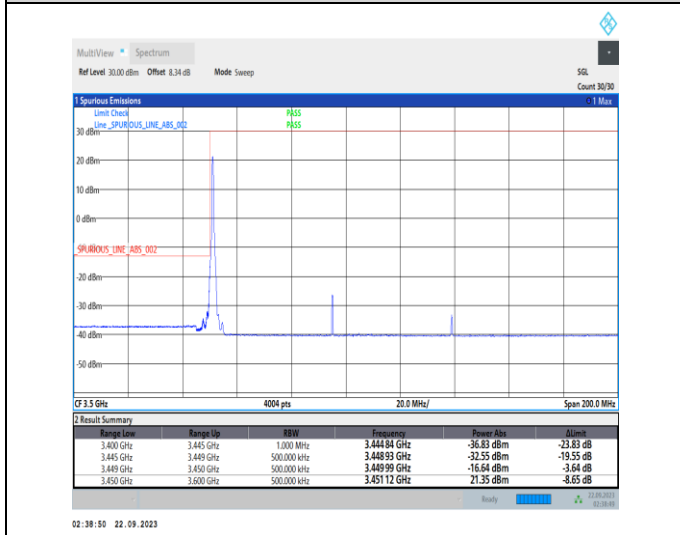


1-N78-3450-3550-PC2-30-90-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant12-1--PASS-see graph

1-N78-3450-3550-PC2-30-90-L-3-DFT-PI2BPSK-Outer_Full-240@0-Ant12-1--PASS-see graph



1-N78-3450-3550-PC2-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant12-1--PASS-see graph

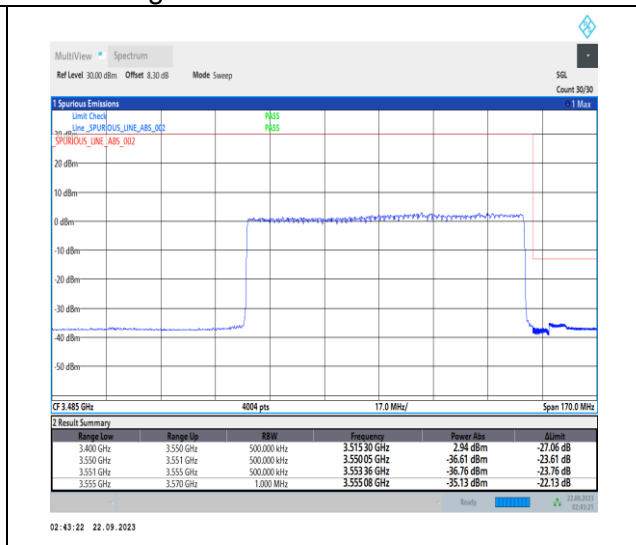
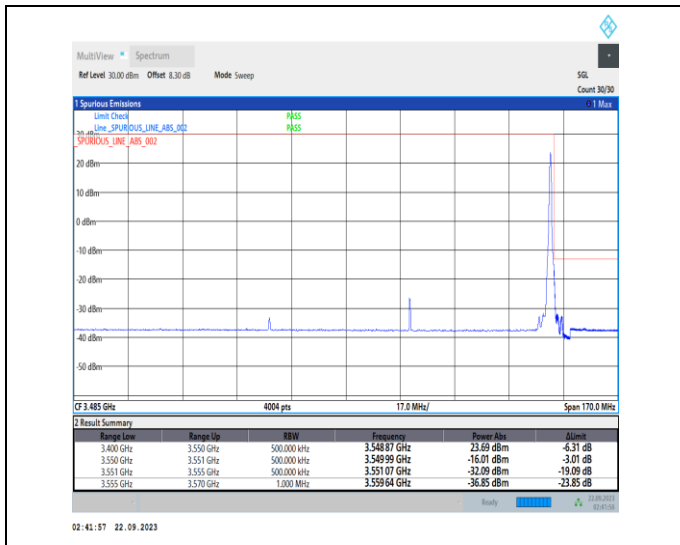
1-N78-3450-3550-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant12-1--PASS-see graph



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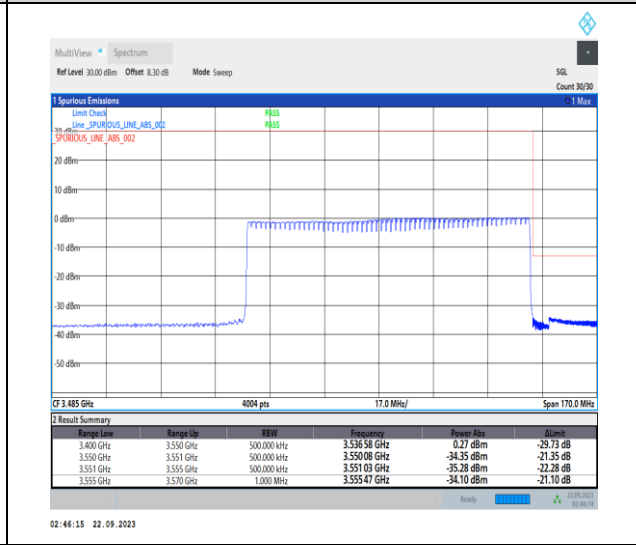
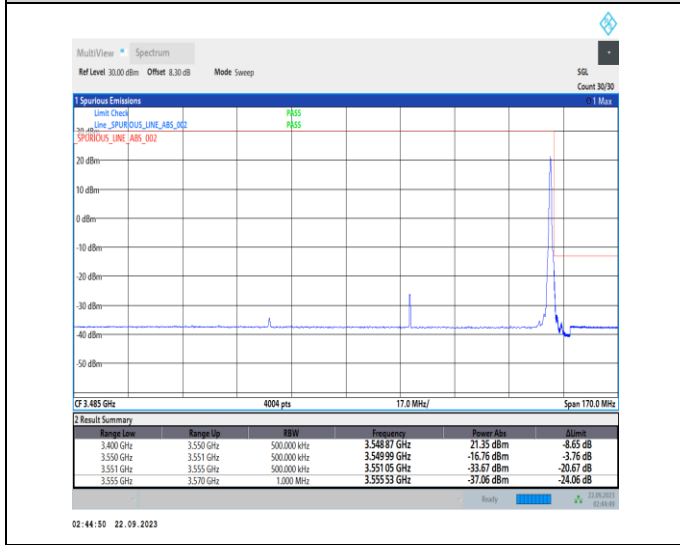
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1-N78-3450-3550-PC2-30-90-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@244-Ant12-1--PASS-see graph

1-N78-3450-3550-PC2-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant12-1--PASS-see graph



1-N78-3450-3550-PC2-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant12-1--PASS-see graph

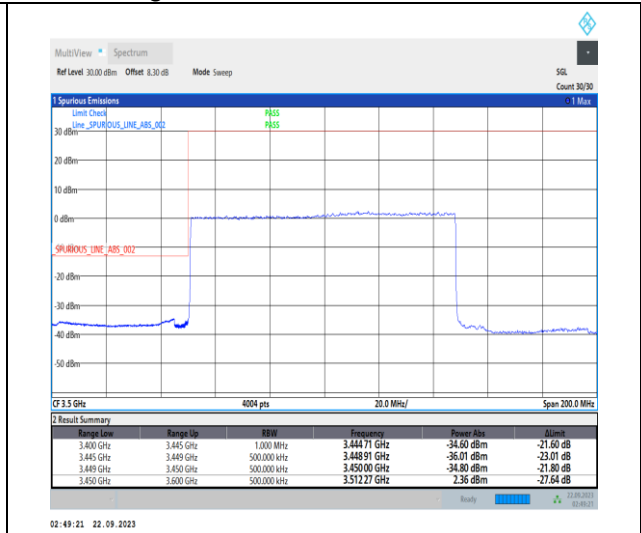
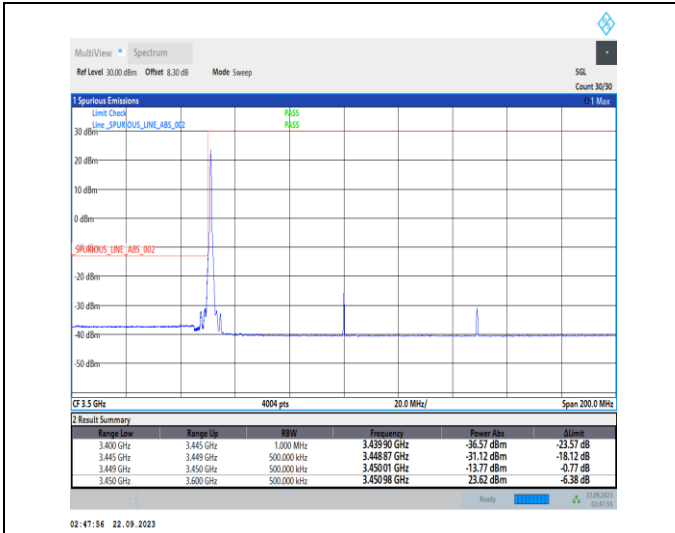
1-N78-3450-3550-PC2-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant12-1--PASS-see graph



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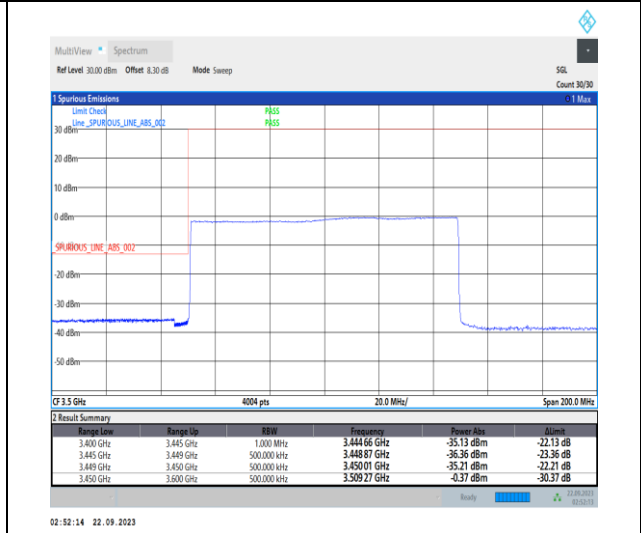
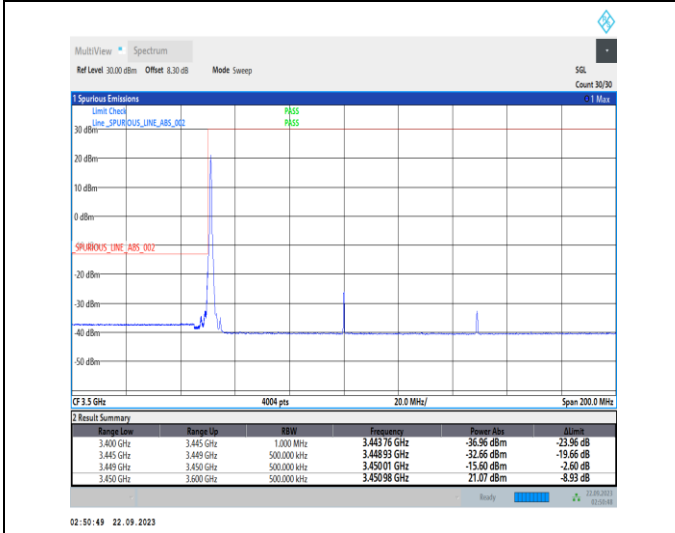
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1-N78-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant12-1--PASS-see graph

1-N78-3450-3550-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant12-1--PASS-see graph



1-N78-3450-3550-PC2-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant12-1--PASS-see graph

1-N78-3450-3550-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant12-1--PASS-see graph

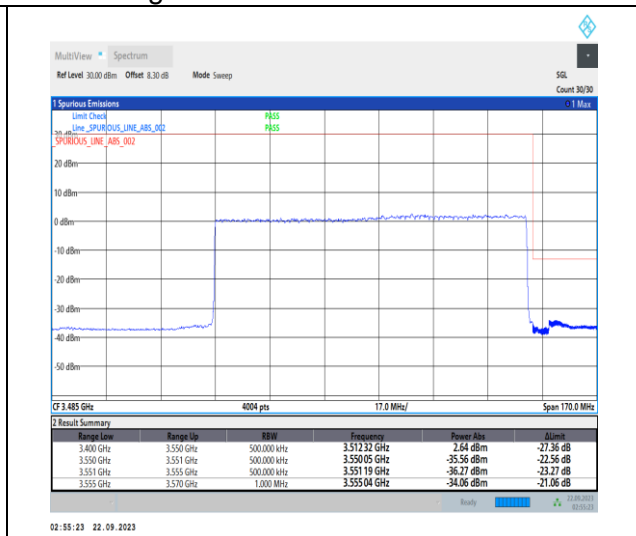
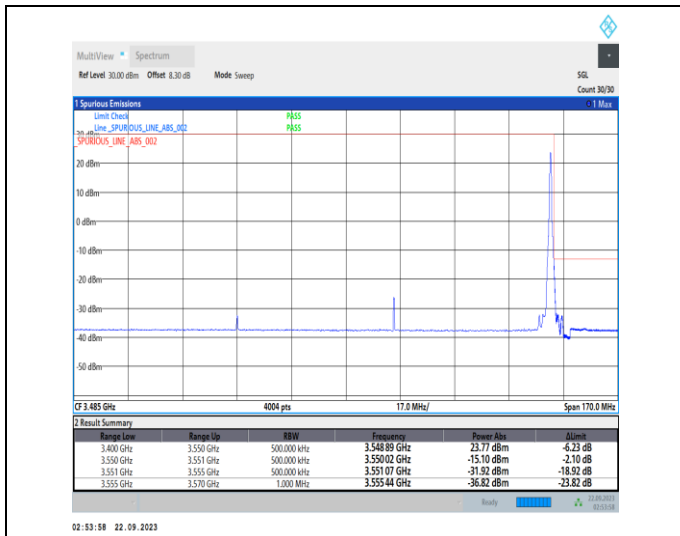


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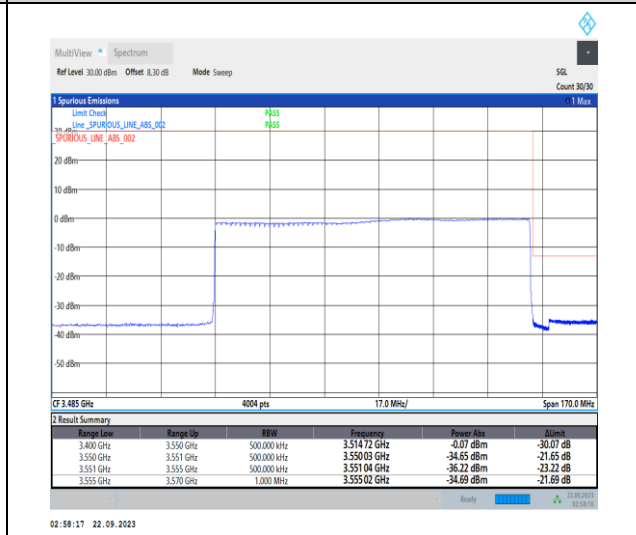
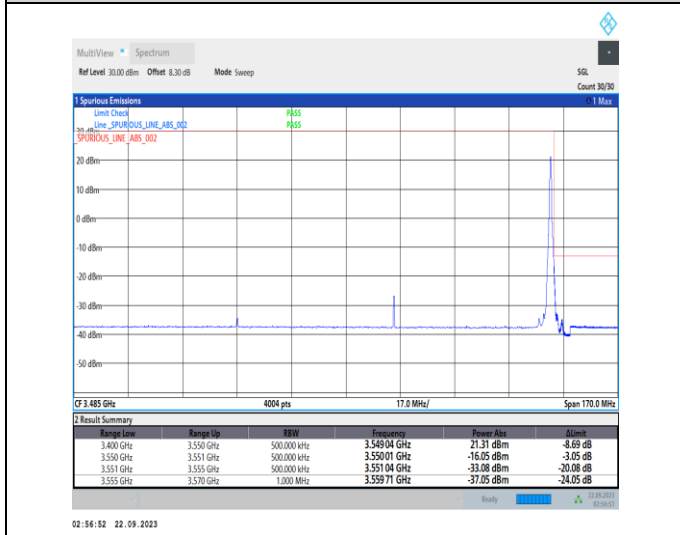
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1-N78-3450-3550-PC2-30-100-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@272-Ant12-1--PASS-see graph

1-N78-3450-3550-PC2-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant12-1--PASS-see graph



1-N78-3450-3550-PC2-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant12-1--PASS-see graph

1-N78-3450-3550-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant12-1--PASS-see graph



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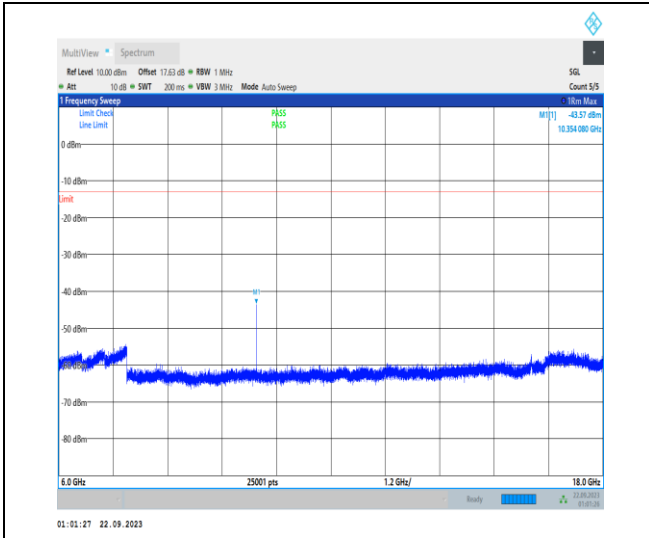
Test Graphs

<p>1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant12-0.01--74.77--43-PASS</p>	<p>1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant12-0.15--84.90--33-PASS</p>
<p>1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant12-32.91--64.70--13-PASS</p>	<p>1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant12-5981.00--38.75--13-PASS</p>

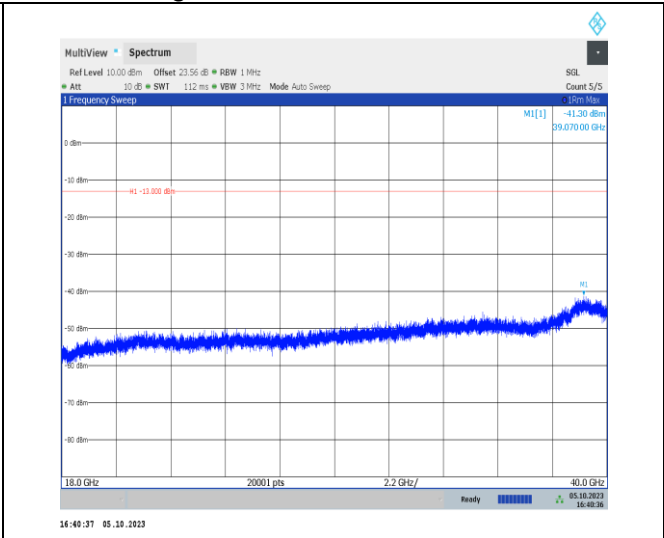


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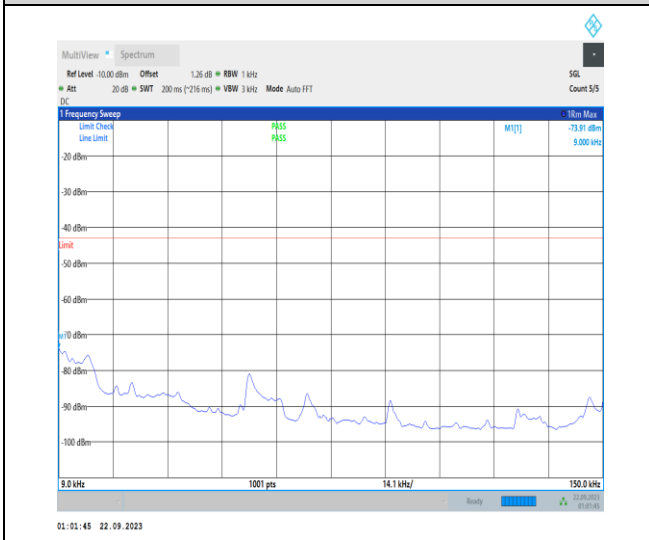
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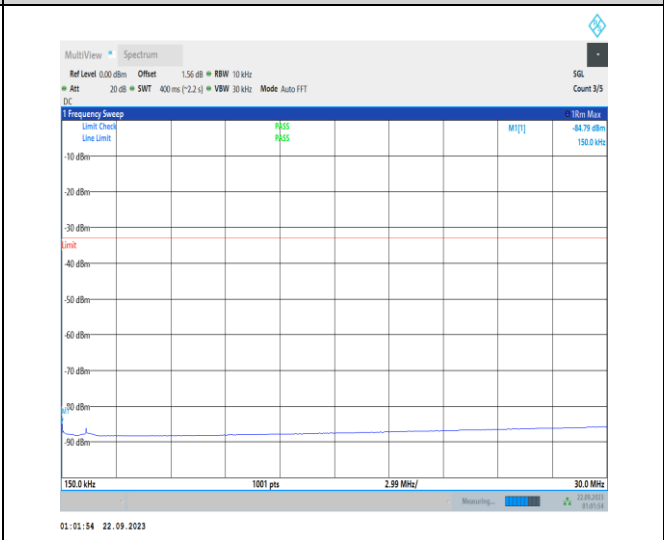
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1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant12-18000.00--58.72--13-PASS



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant12-0.01--73.91--43-PASS

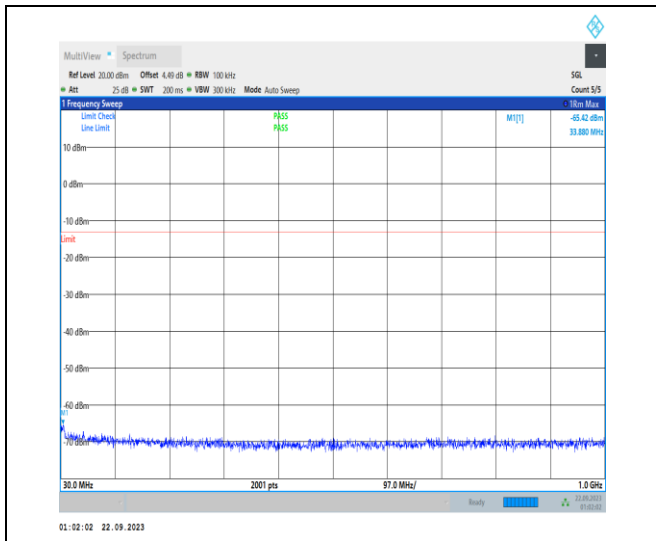


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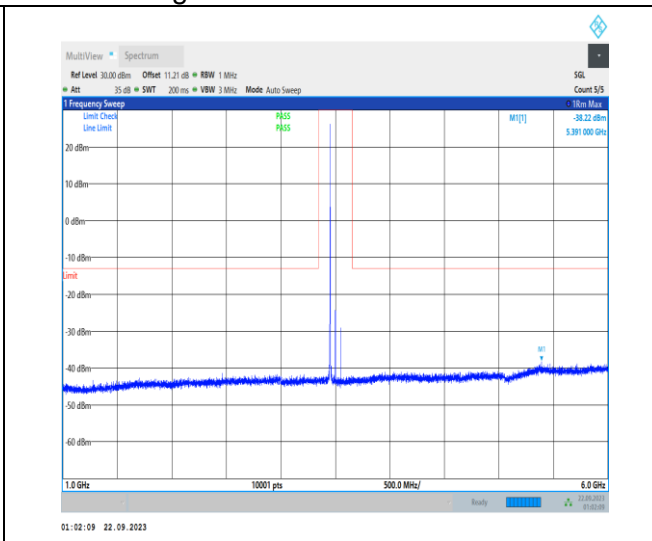


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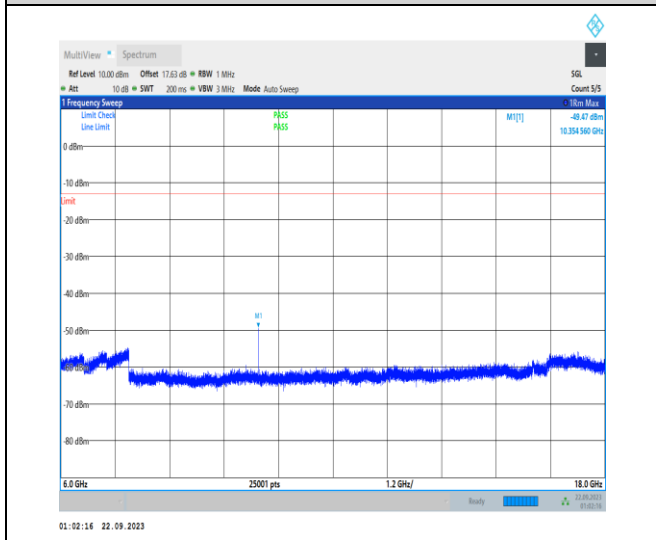
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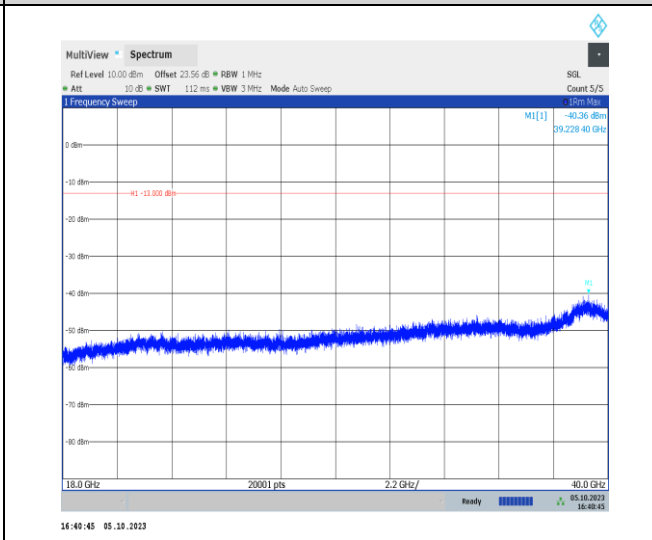
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1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant12-5391.00--38.22--13-PASS



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant12-10354.56--49.47--13-PASS

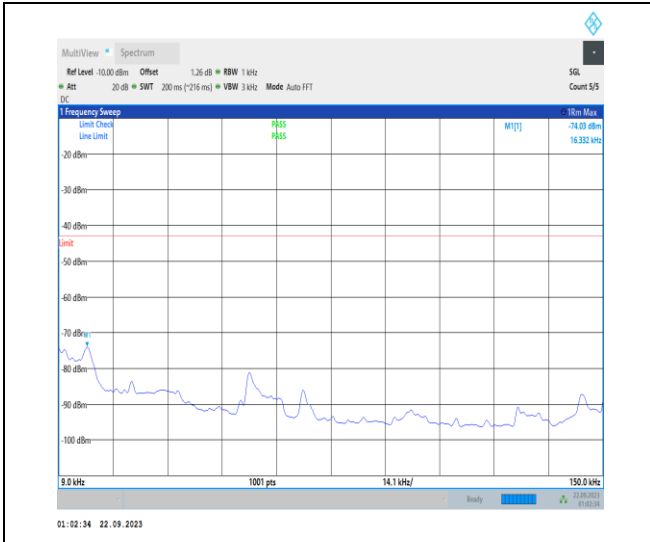


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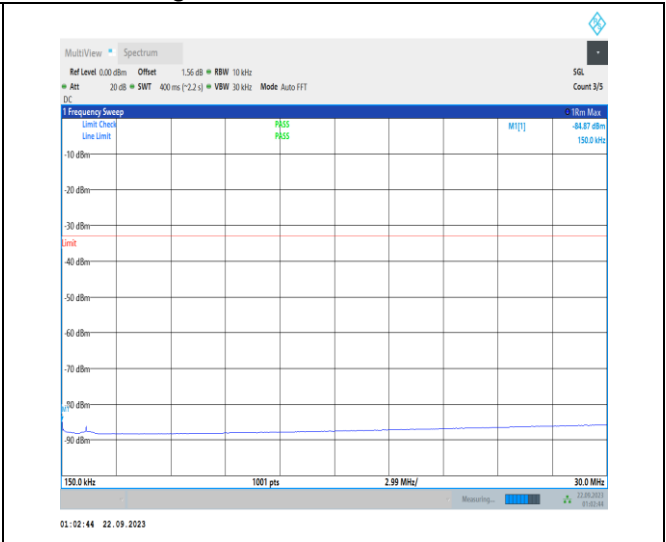


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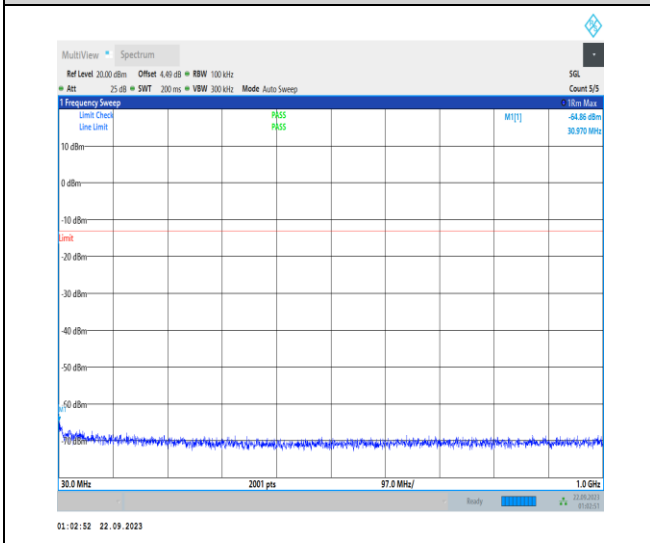
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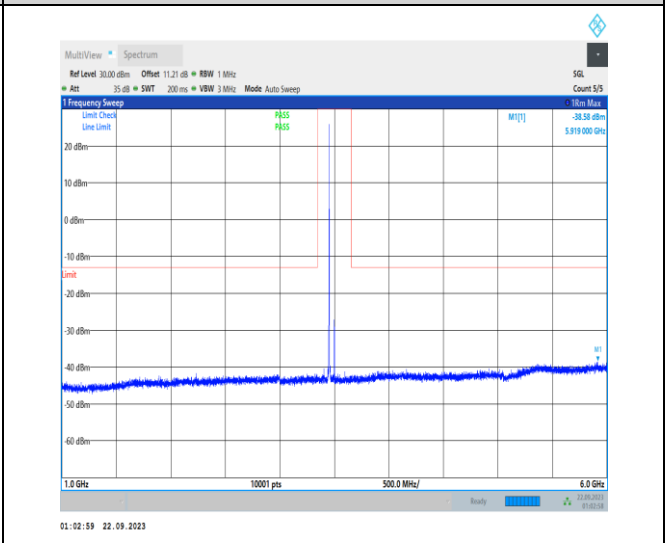
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1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant12-0.15--84.87--33-PASS



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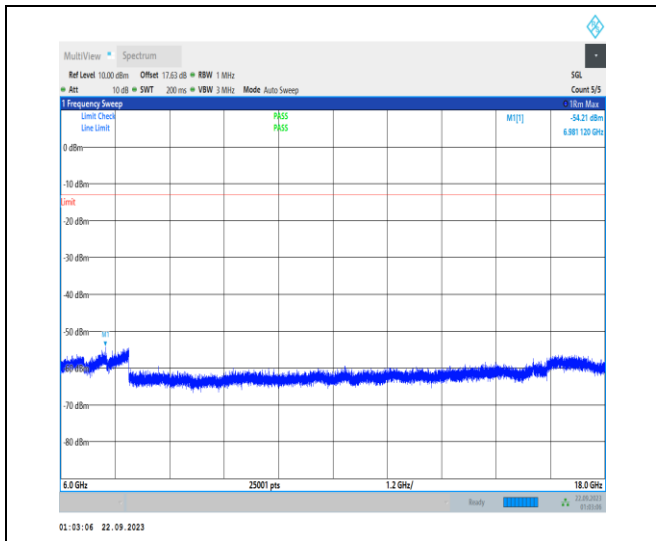


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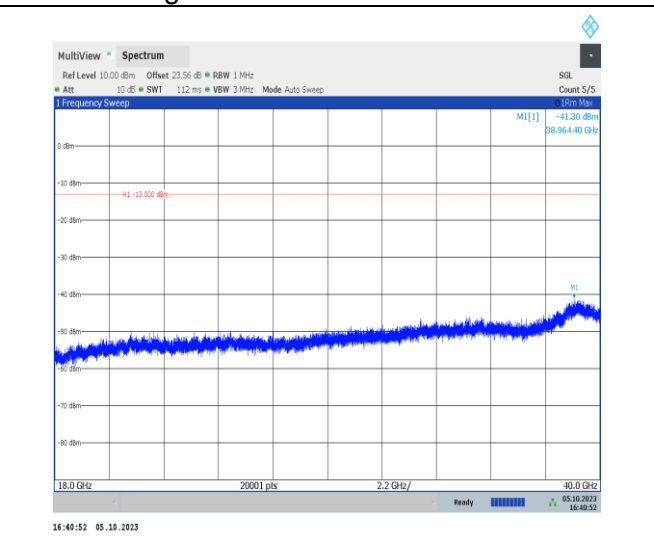


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1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant12-69811.12--54.21-13-PASS



1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant12-18000.00--59.03-13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band78_ 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]	Polarity
1	7359.625	38.58	-43.01	36.21	-63.48	-13.00	50.48	Horizontal
2	7905.3	38.17	-42.71	36.76	-63.04	-13.00	50.04	Horizontal
3	9087.5	35.27	-40.47	36.47	-63.99	-13.00	50.99	Horizontal
4	10099.5	31.59	-38.70	38.25	-64.12	-13.00	51.12	Horizontal
5	11936.625	26.32	-37.29	38.79	-67.43	-13.00	54.43	Horizontal
6	13759.95	26.69	-36.15	40.47	-64.25	-13.00	51.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7637.925	38.72	-42.82	36.66	-62.70	-13.00	49.70	Vertical
2	8929.95	36.06	-40.90	36.34	-63.76	-13.00	50.76	Vertical
3	9987.95	31.87	-39.36	38.18	-64.57	-13.00	51.57	Vertical
4	11271.925	29.39	-37.05	38.73	-64.20	-13.00	51.20	Vertical
5	13318.35	26.07	-36.85	39.67	-66.36	-13.00	53.36	Vertical
6	13975	25.27	-34.98	40.86	-64.11	-13.00	51.11	Vertical



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Test Band = NSA 5A-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]	Polarity
1	6910.1800	39.06	-43.80	35.04	-64.97	-13.00	51.97	Horizontal
2	7631.6	38.57	-42.81	36.65	-62.84	-13.00	49.84	Horizontal
3	10365.2700	29.62	-38.81	38.38	-66.06	-13.00	53.06	Horizontal
4	13820.3600	26.36	-36.11	40.58	-64.43	-13.00	51.43	Horizontal
5	15155.475	25.58	-34.08	40.97	-62.79	-13.00	49.79	Horizontal
6	17275.4500	26.80	-35.16	43.54	-60.08	-13.00	47.08	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6910.1800	38.91	-43.80	35.04	-65.12	-13.00	52.12	Vertical
2	7624.125	38.80	-42.79	36.65	-62.60	-13.00	49.60	Vertical
3	10365.2700	29.94	-38.81	38.38	-65.74	-13.00	52.74	Vertical
4	13820.3600	25.69	-36.11	40.58	-65.10	-13.00	52.10	Vertical
5	15345.225	25.46	-33.98	40.58	-63.21	-13.00	50.21	Vertical
6	17275.4500	26.41	-35.16	43.54	-60.47	-13.00	47.47	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	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	1.400000	0.000400	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	8.400000	0.002400	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	10.700000	0.003057	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-2.000000	-0.000571	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	1.600000	0.000457	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-0.200000	-0.000057	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
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	5.900000	0.001686	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	5.400000	0.001543	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	10.900000	0.003114	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-8.700000	-0.002486	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	2.700000	0.000771	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.500000	0.002143	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	11.200000	0.003200	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	6.900000	0.001971	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.200000	-0.001200	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	0.500000	0.000143	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-6.200000	-0.001771	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-0.900000	-0.000257	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	2.700000	0.000771	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-1.200000	-0.000343	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	8.500000	0.002429	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	2.600000	0.000743	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	7.000000	0.002000	PASS



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-3450-3550										
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	2.600000	0.000743	PASS

---End of Attachment---



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