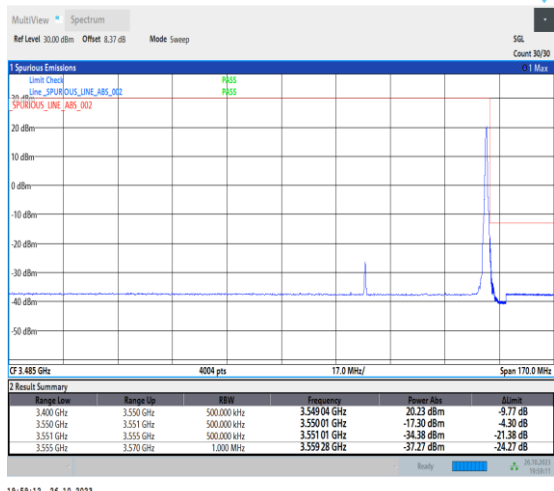


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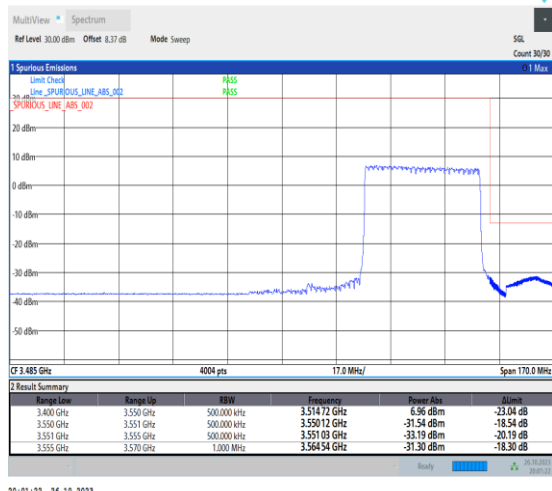
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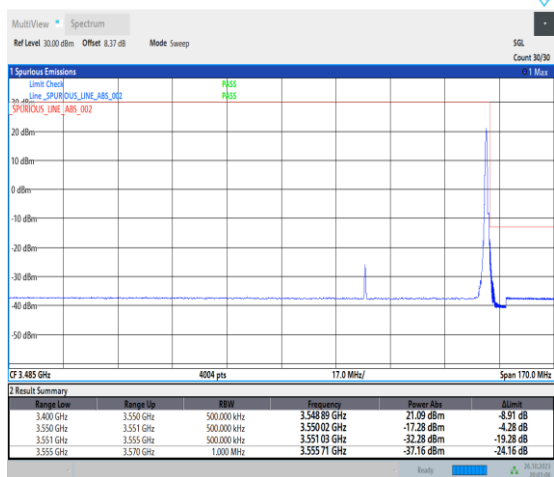
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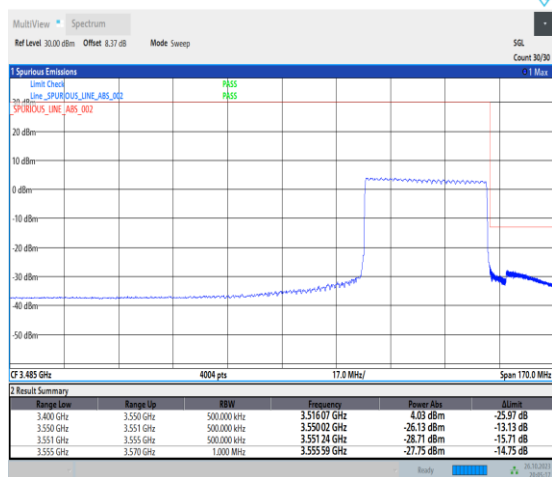
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20:05:07 26.10.2023

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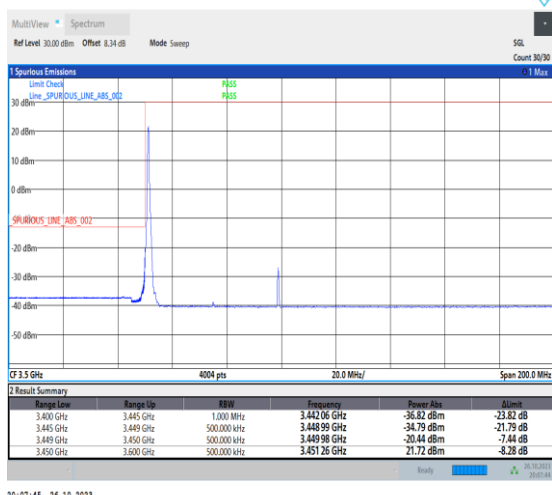
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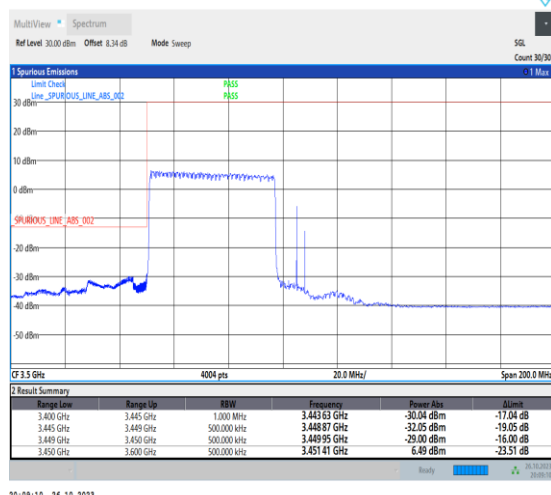
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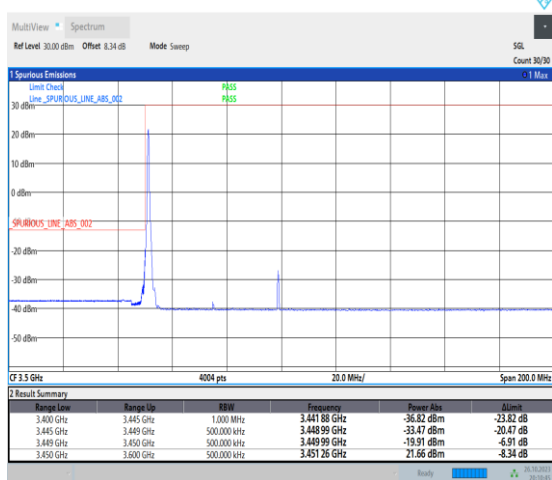
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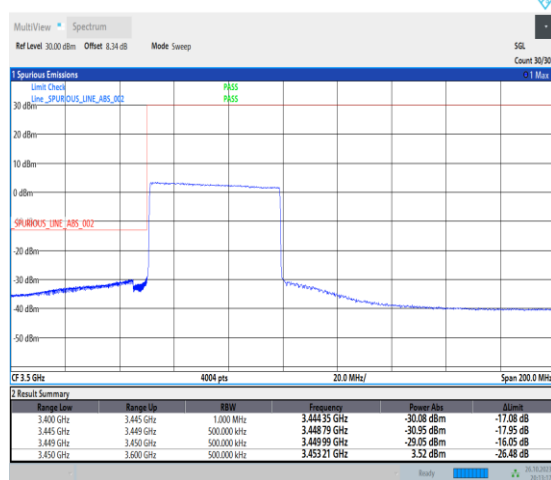
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20:13:17 26.10.2023

1-N78-3450-3550-PC2-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant0-1--PASS-see graph



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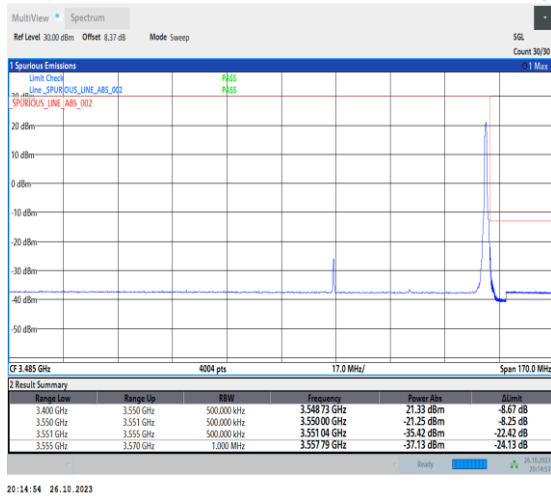
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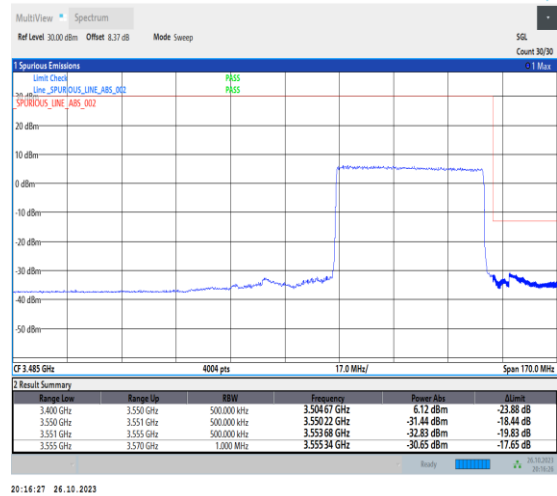
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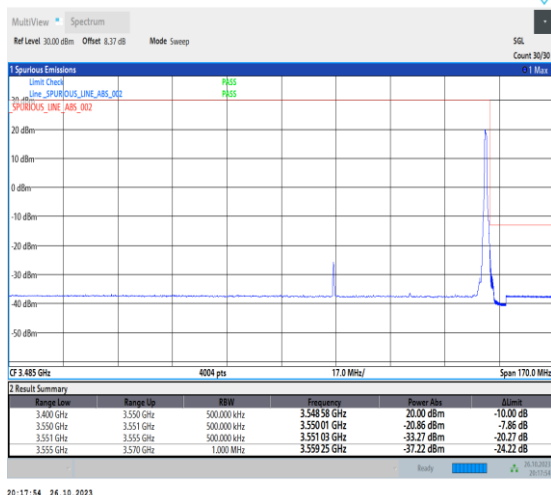
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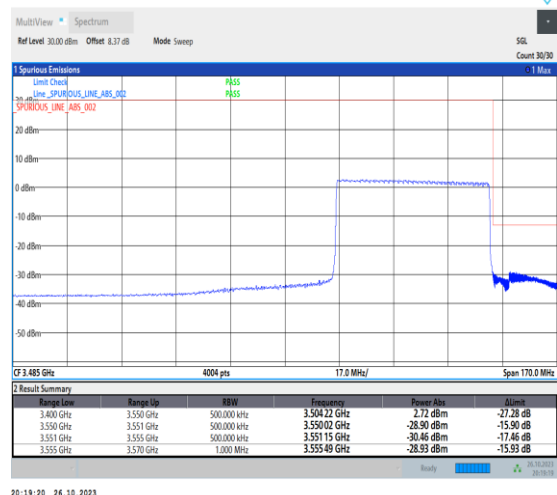
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20:19:20 26.10.2023

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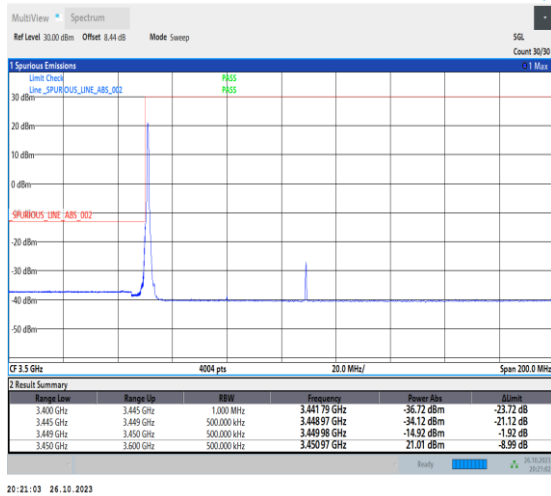
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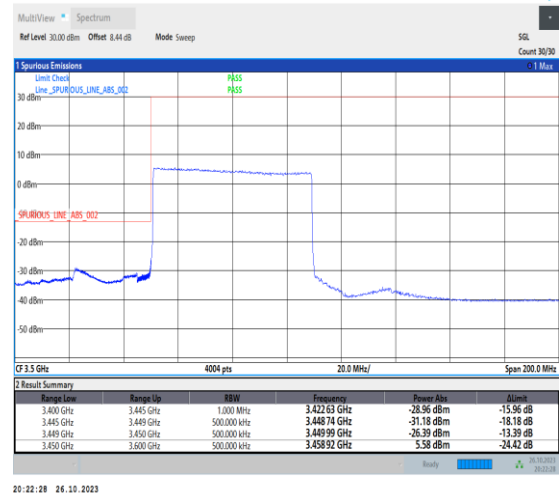
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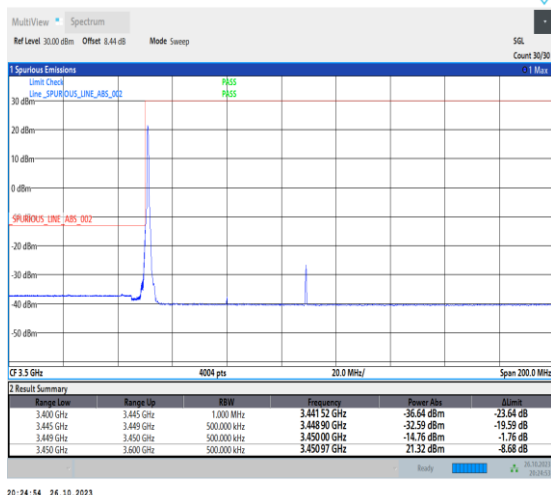
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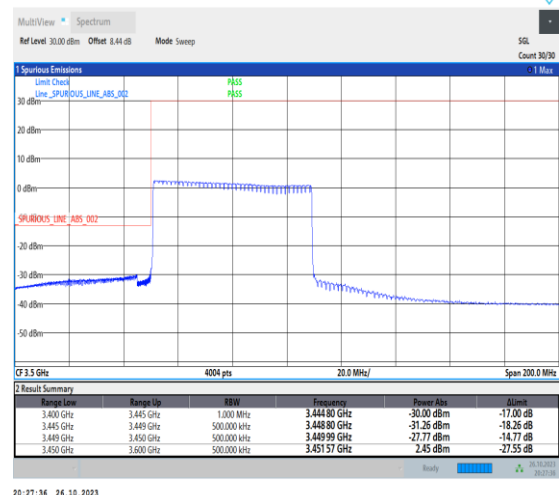
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20:24:54 26.10.2023

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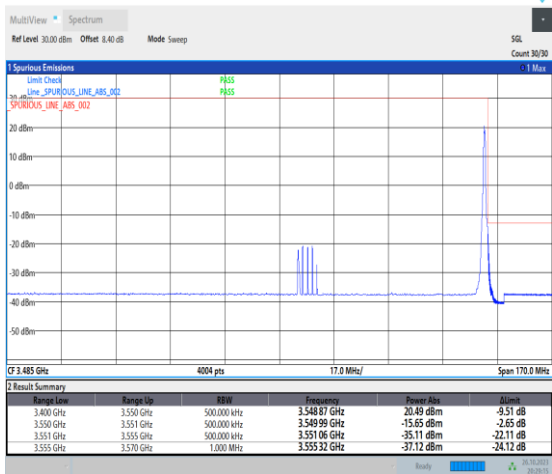


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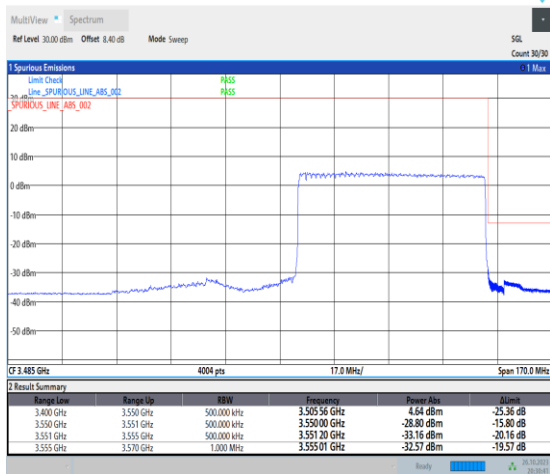
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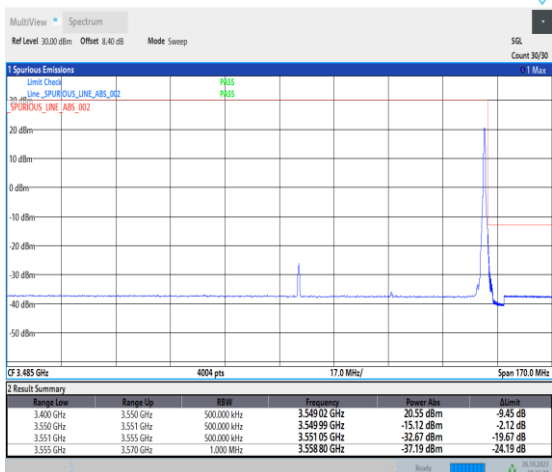
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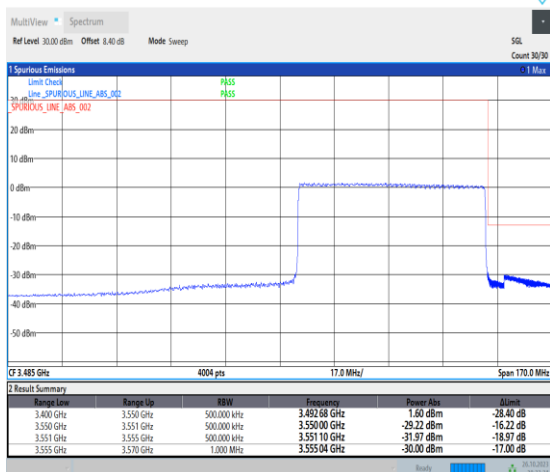
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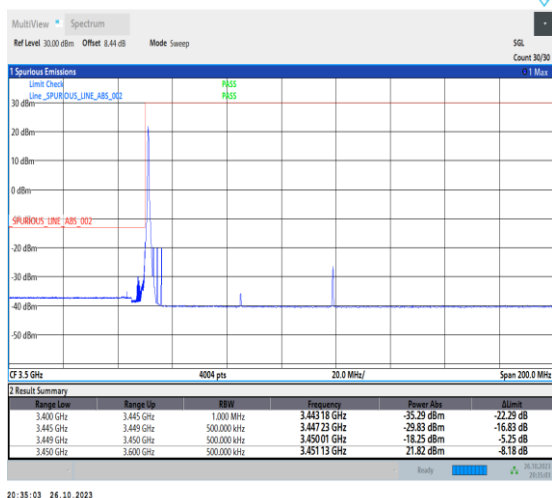


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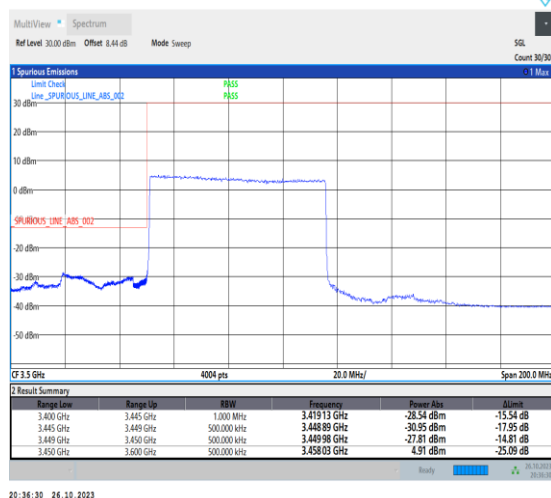
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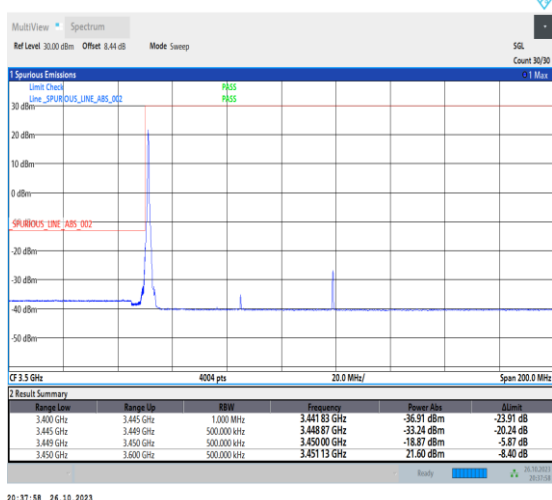
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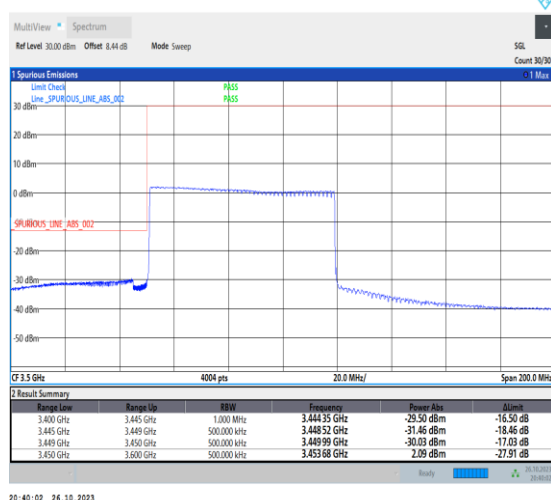
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1-N78-3450-3550-PC2-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant0-1--PASS-see graph



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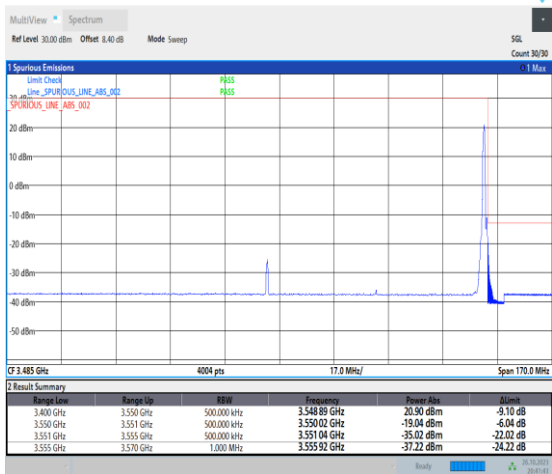
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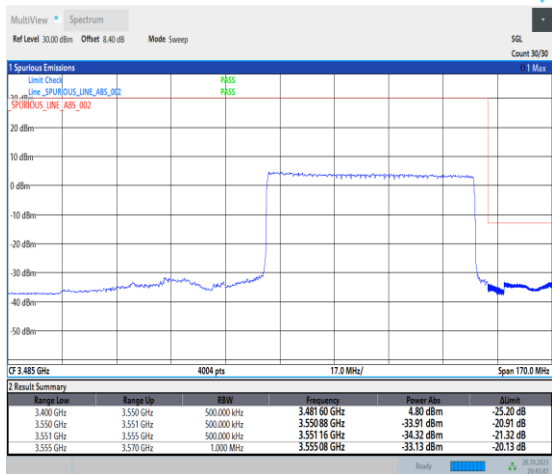
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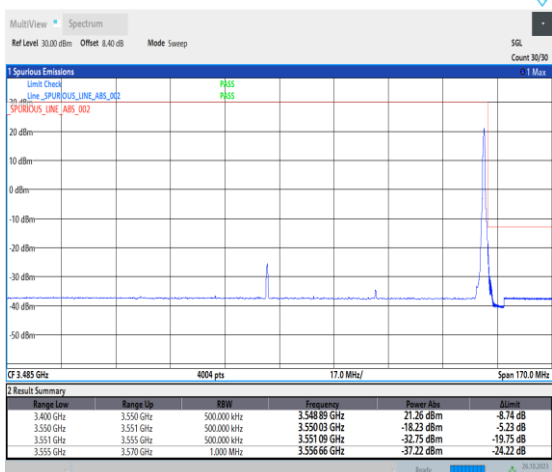
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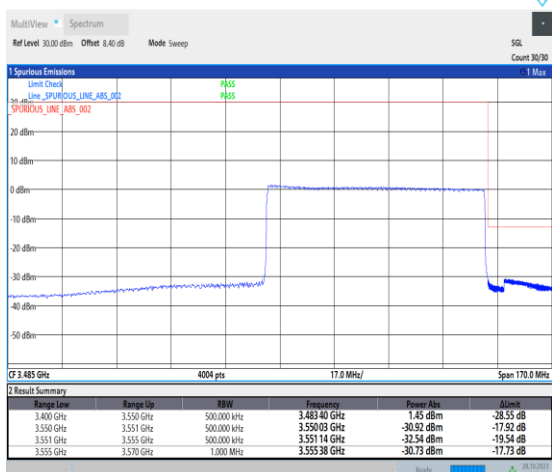
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20:44:36 26.10.2023

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16:24:58 26.10.2023

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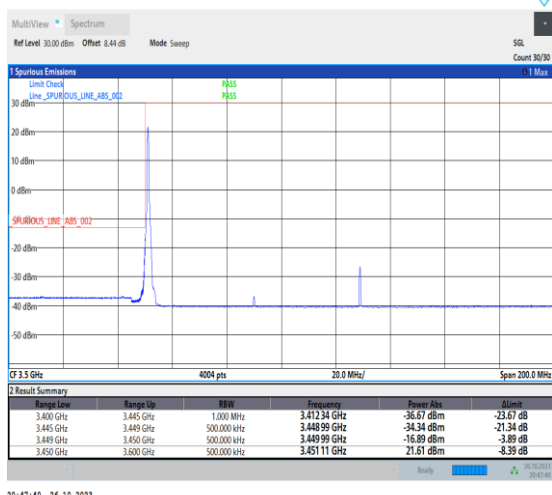
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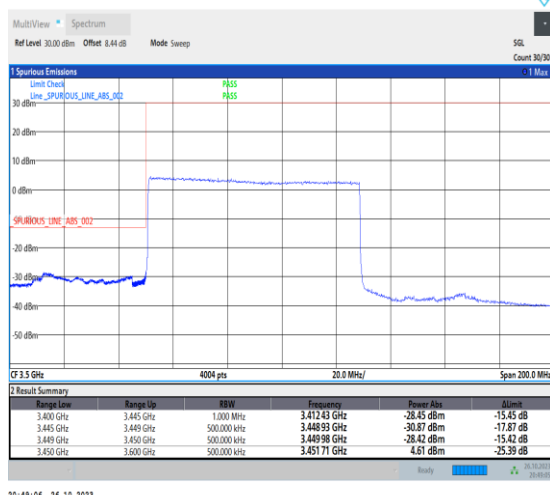
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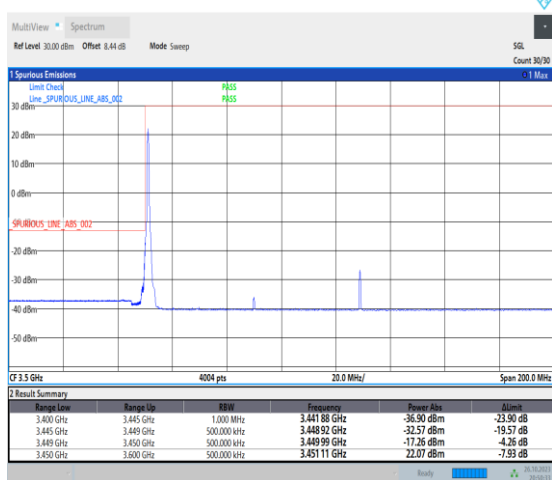
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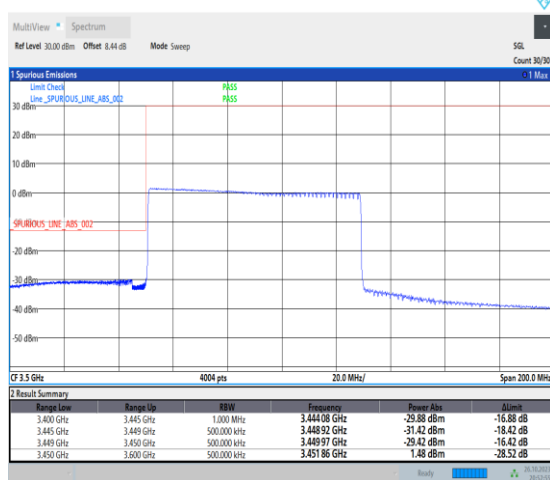
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20:52:55 26.10.2023

1-N78-3450-3550-PC2-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant0-1--PASS-see graph



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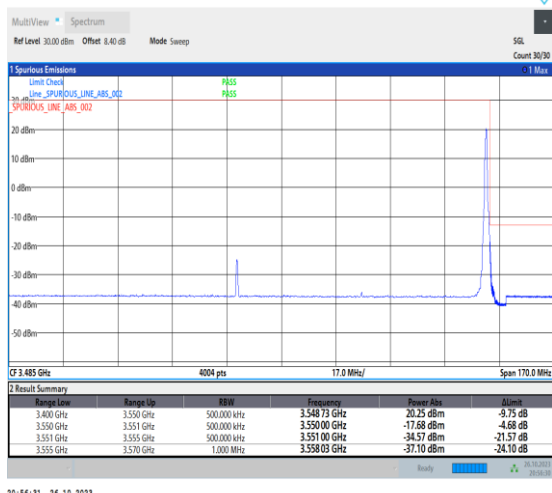
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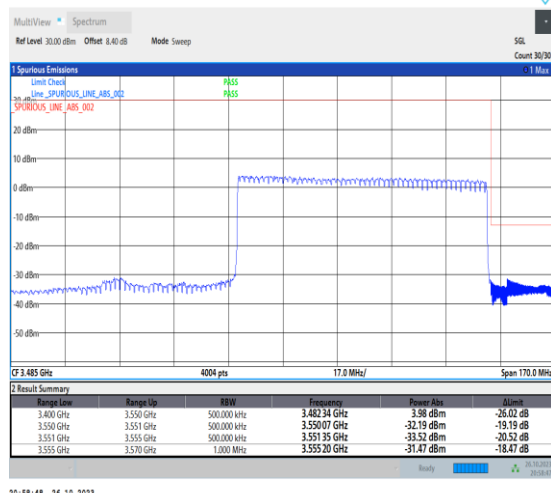
Rev.: 01

Page: 51 of 64



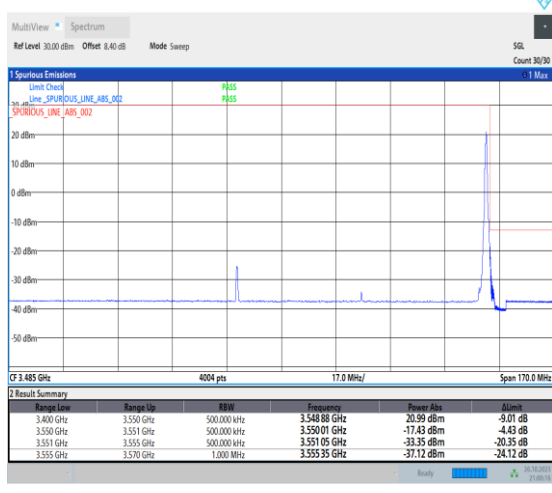
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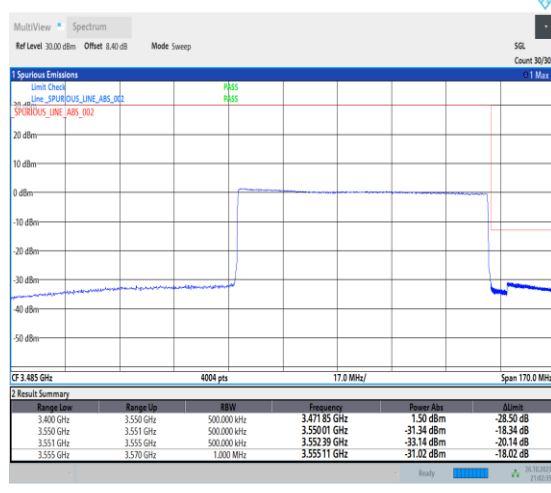
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21:02:17 26.10.2023

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21:02:25 26.10.2023

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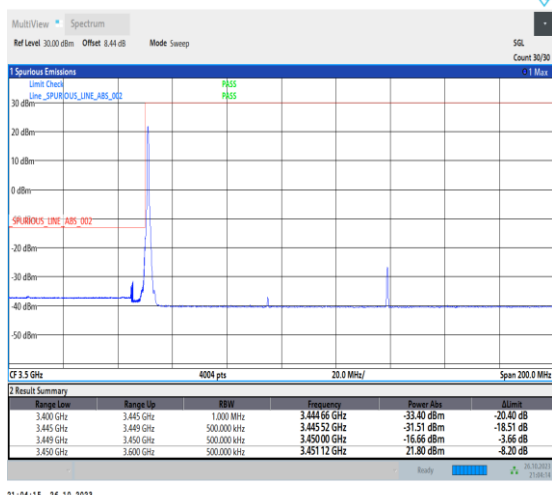
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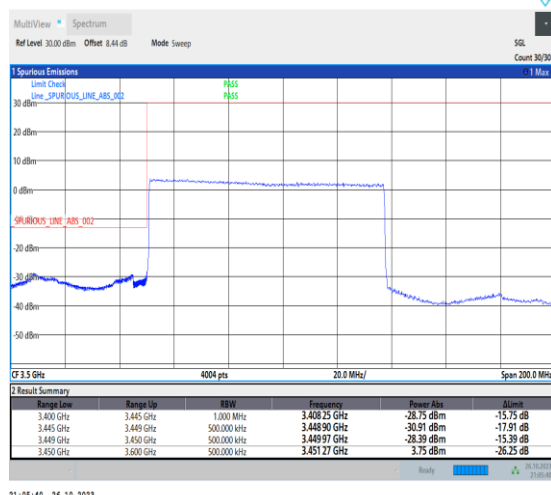
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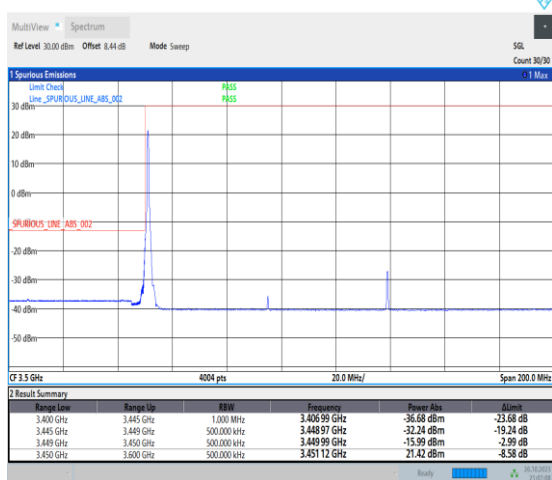
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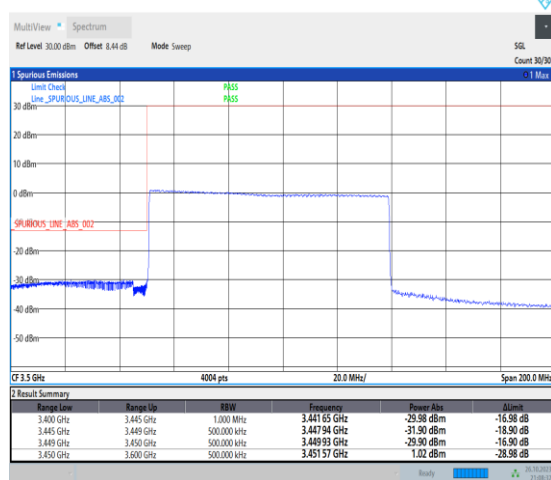
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21:07:08 26.10.2023

1-N78-3450-3550-PC2-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph



21:08:33 26.10.2023

1-N78-3450-3550-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant0-1--PASS-see graph

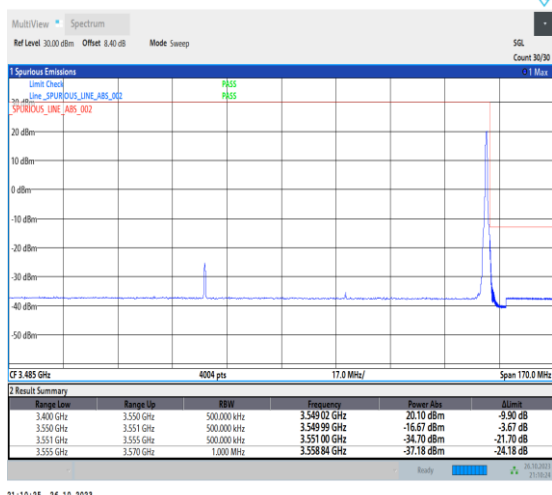


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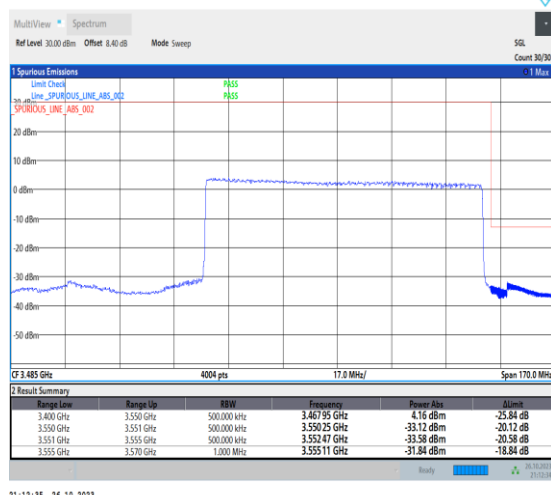
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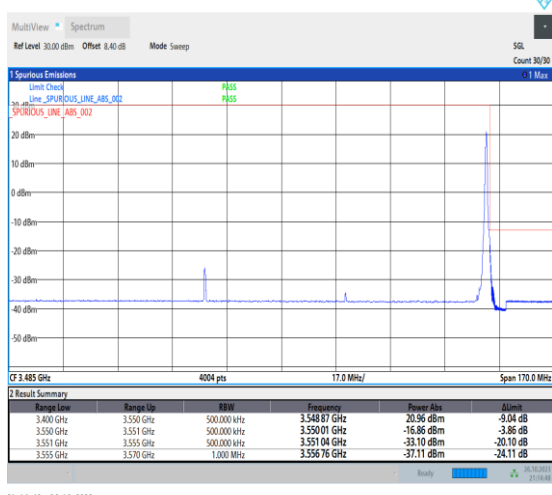
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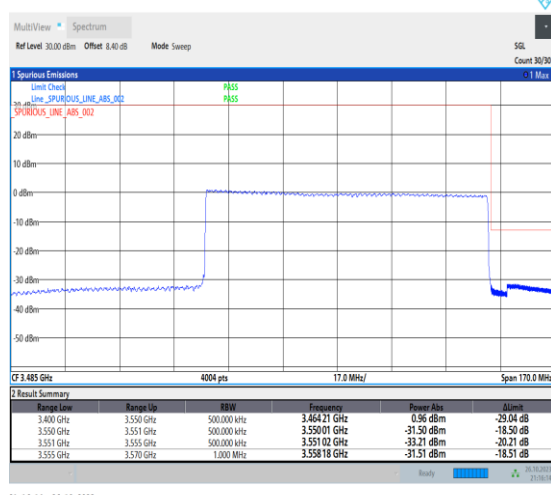
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21:14:49 26.10.2023

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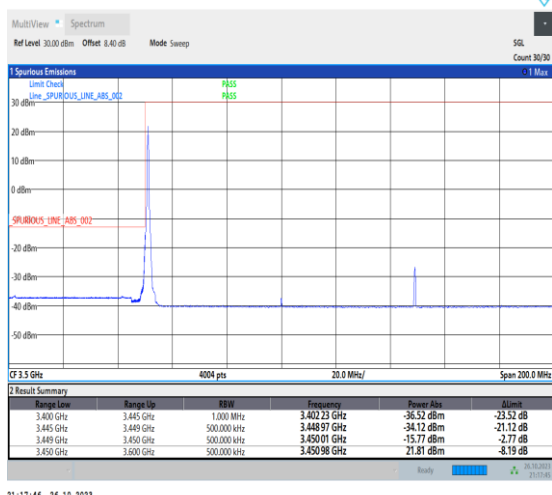
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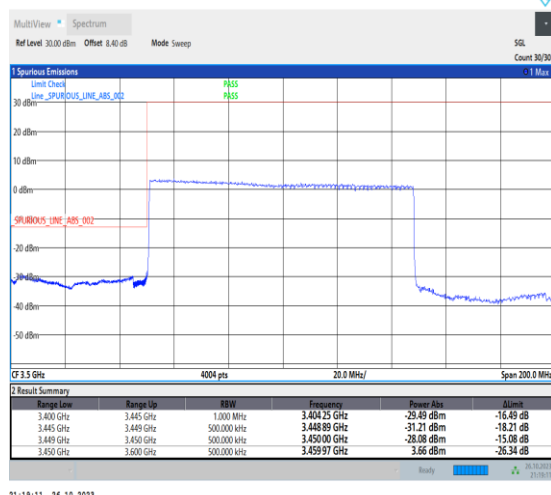
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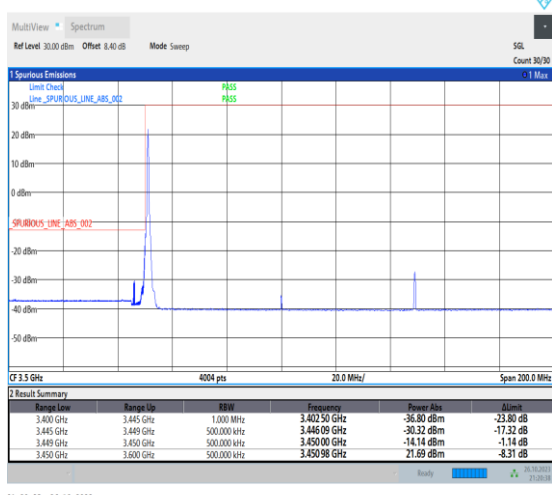
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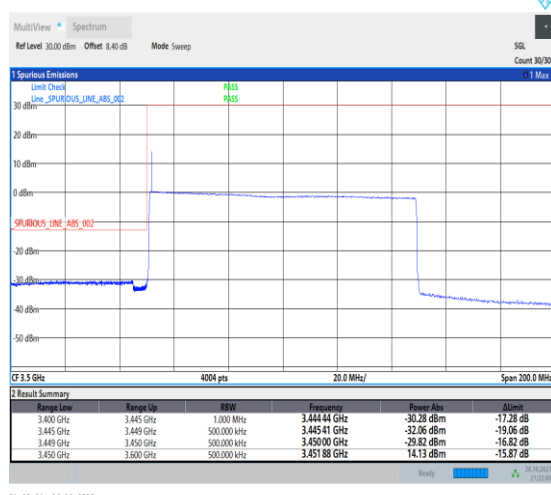
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1-N78-3450-3550-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant0-1--PASS-see graph



21:20:38 26.10.2023



21:22:04 26.10.2023

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1-N78-3450-3550-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant0-1--PASS-see graph

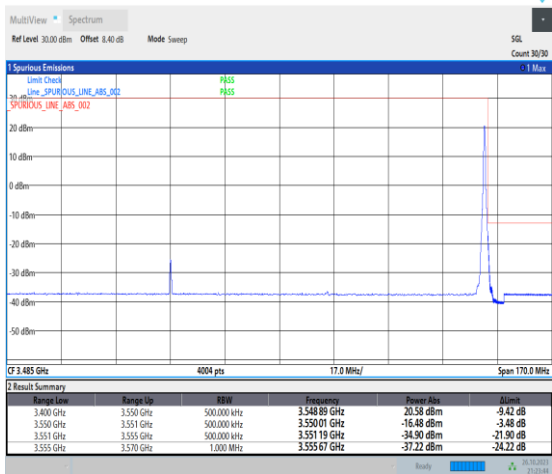


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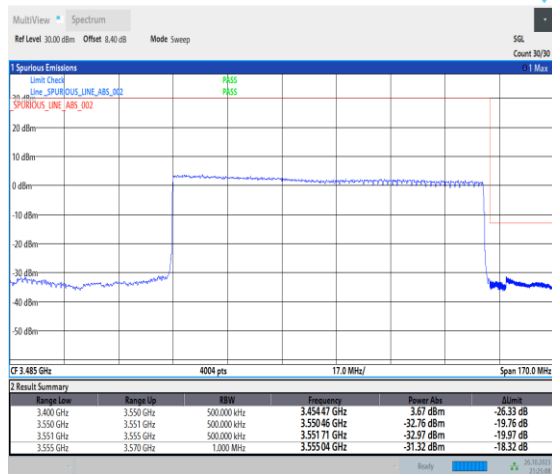
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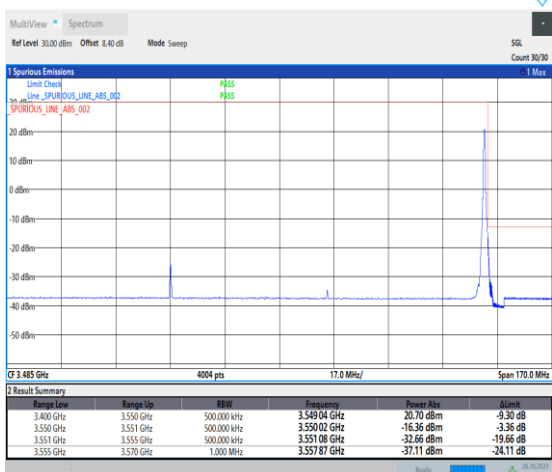
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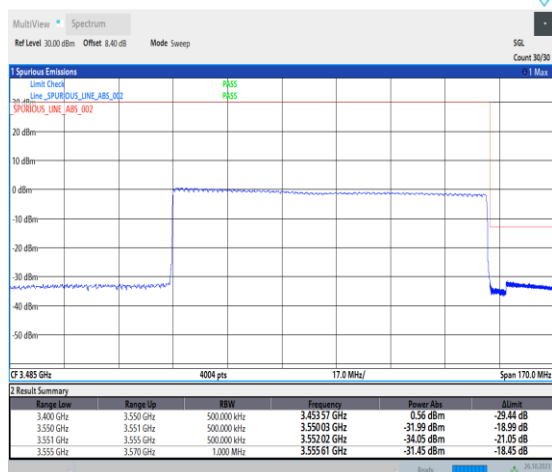
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21:27:27 26.10.2023

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21:28:52 26.10.2023

1-N78-3450-3550-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant0-1--PASS-see graph



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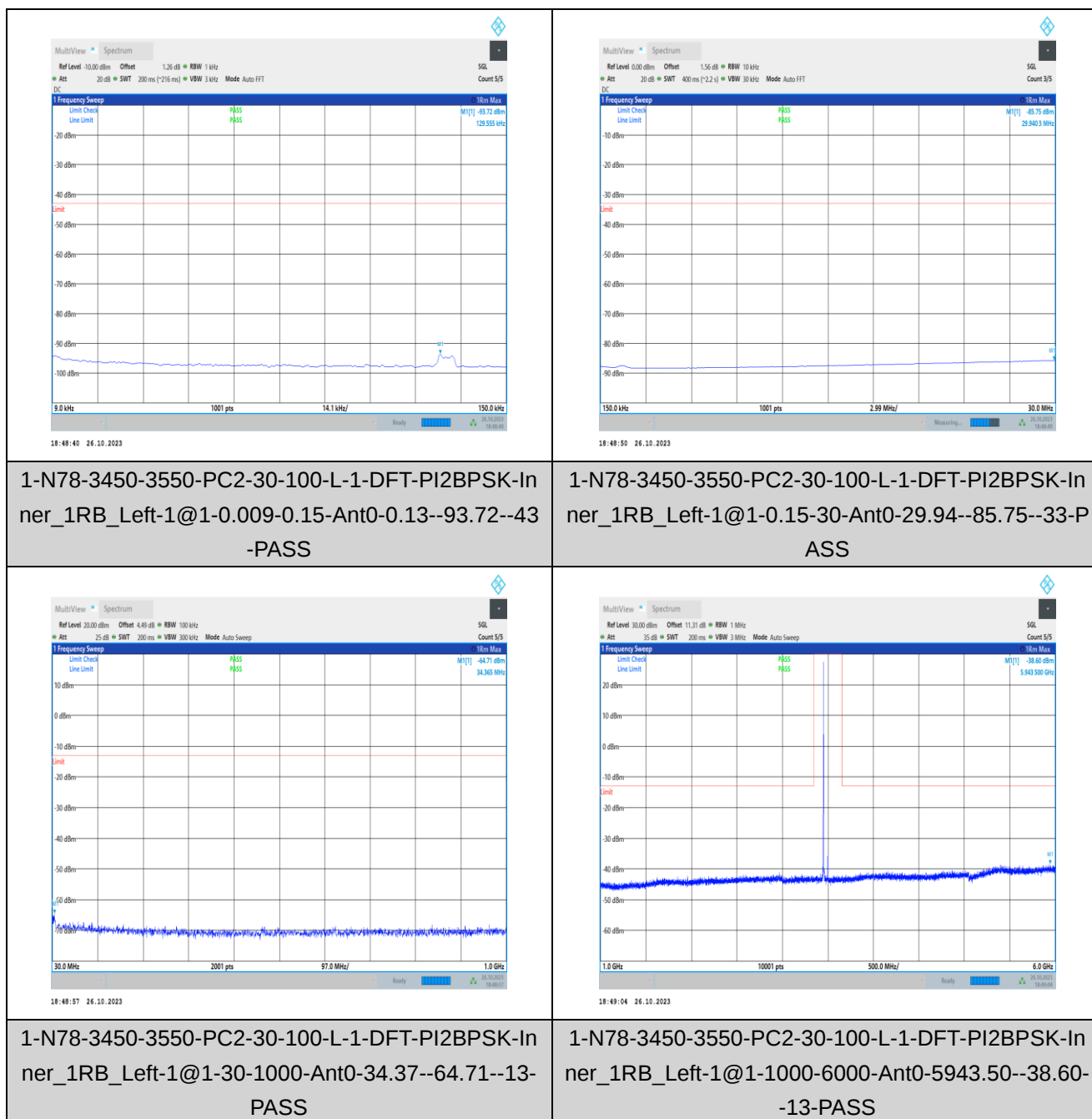
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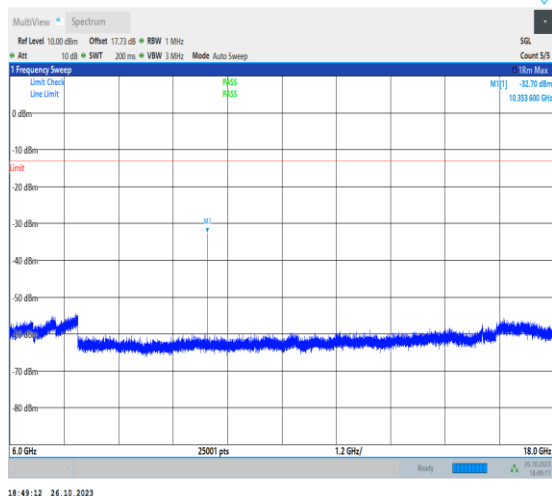
Test Graphs



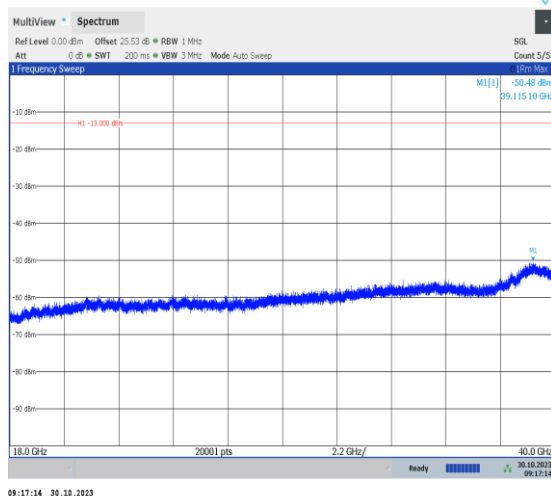
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Rev.: 01

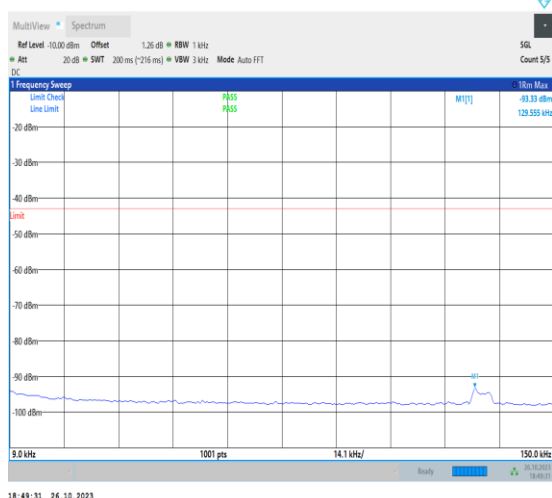
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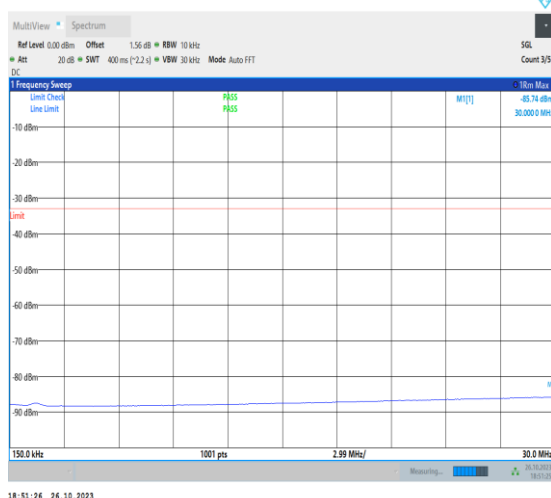
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1-N78-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant0-0.13--93.33--4.3-PASS



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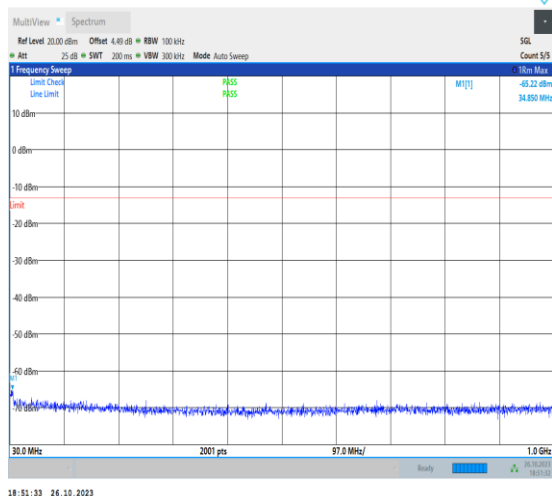
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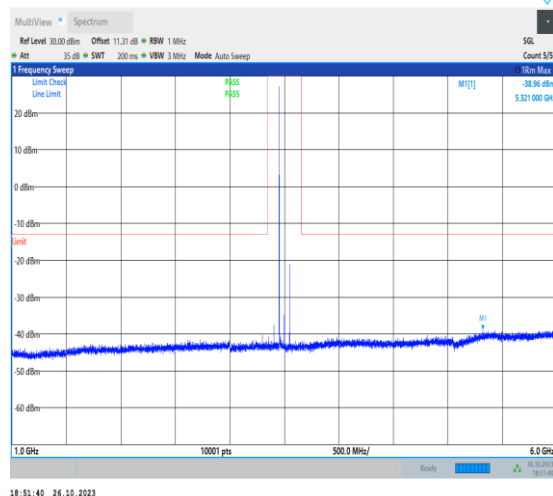
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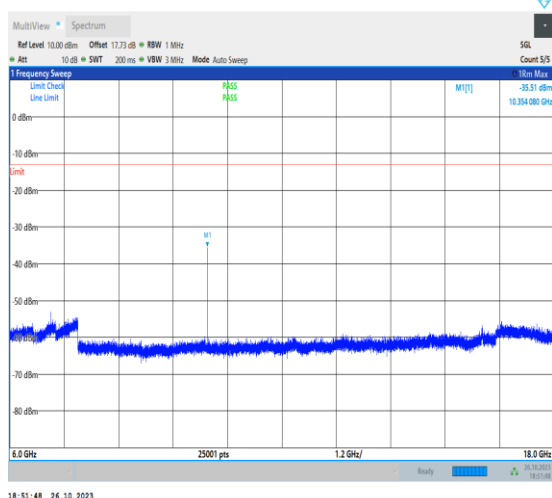
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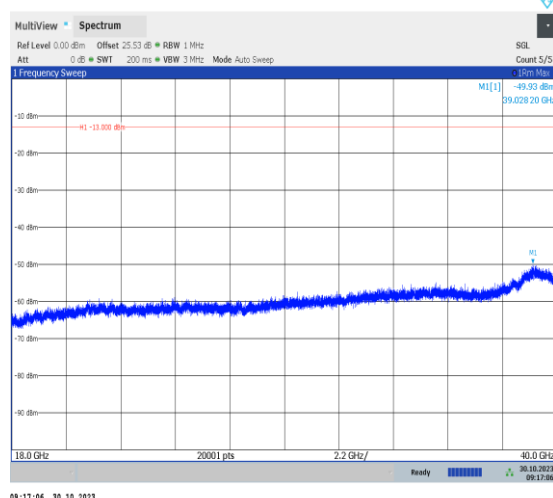
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13-PASS



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5.51--13-PASS



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.05--13-PASS



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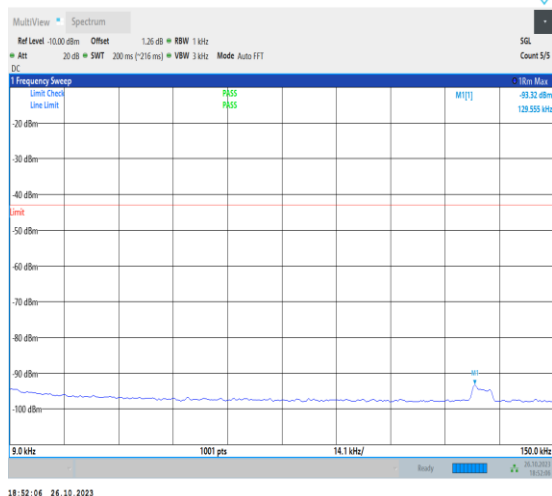
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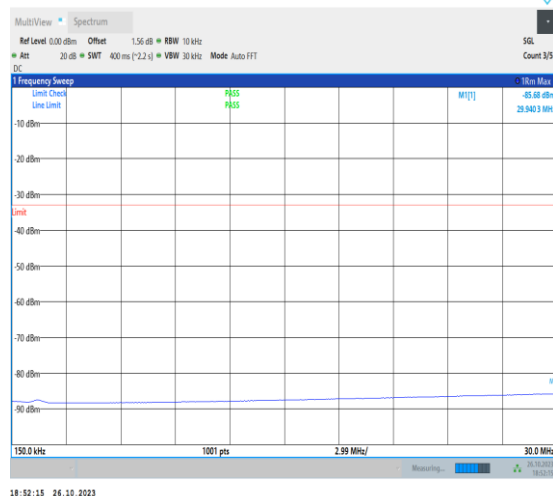
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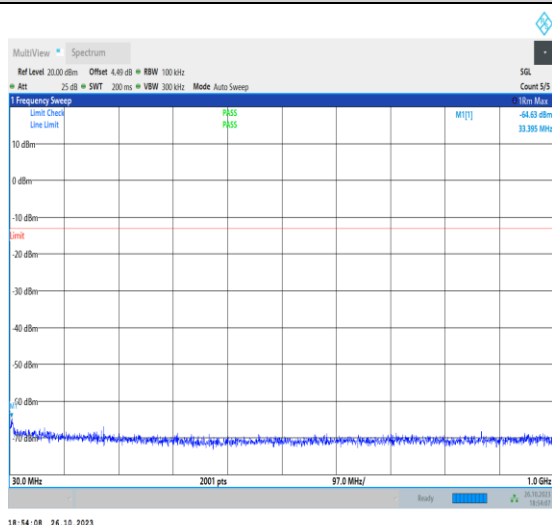
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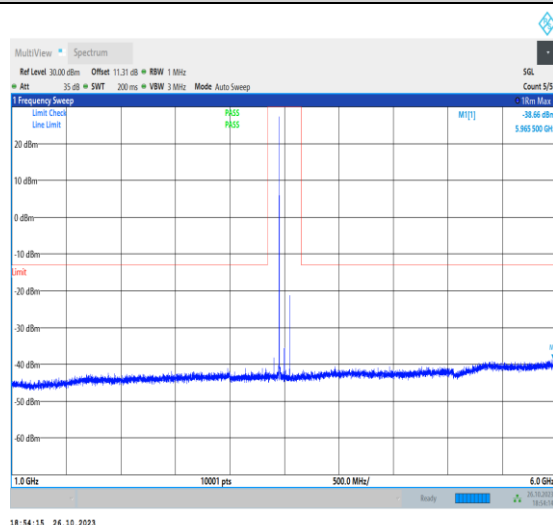
1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant0-0.13--93.32--43
-PASS



1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant0-29.94--85.68--33-PASS



1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant0-33.40--64.63--13-PASS



1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant0-5965.50--38.66--13-PASS



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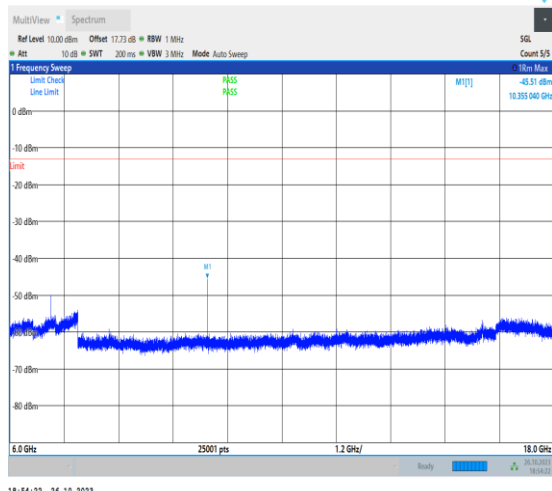
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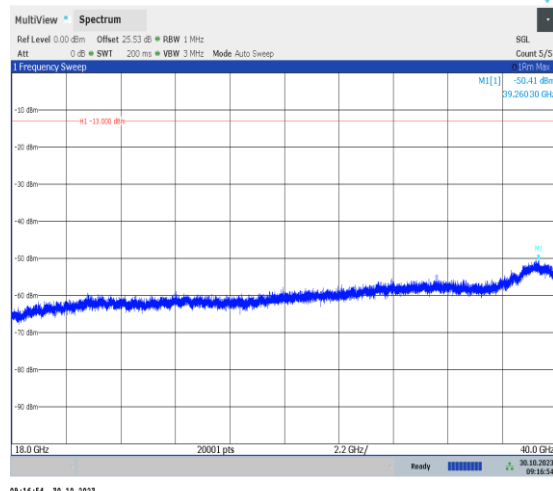
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1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-In
ner_1RB_Left-1@1-6000-18000-Ant0-10355.04--45.
51--13-PASS



1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-In
ner_1RB_Left-1@1-18000-40000-Ant0-18000.00--58
.29--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	4090.5	43.09	-45.79	29.32	-68.64	-13.00	55.64	Horizontal
2	5894.5	42.31	-44.96	32.68	-65.23	-13.00	52.23	Horizontal
3	7389	40.47	-43.45	36.29	-61.95	-13.00	48.95	Horizontal
4	9093.5	36.53	-40.39	36.48	-62.64	-13.00	49.64	Horizontal
5	11332.5	31.62	-37.40	38.73	-62.31	-13.00	49.31	Horizontal
6	12708	29.43	-36.69	39.01	-63.51	-13.00	50.51	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4315	42.93	-45.58	29.86	-68.06	-13.00	55.06	Vertical
2	5409.5	42.49	-45.29	32.38	-65.68	-13.00	52.68	Vertical
3	6692.5	41.51	-43.85	34.65	-62.95	-13.00	49.95	Vertical
4	8029.5	39.31	-42.06	36.79	-61.22	-13.00	48.22	Vertical
5	9950.5	34.29	-39.28	38.11	-62.15	-13.00	49.15	Vertical
6	12350	30.64	-37.49	38.91	-63.20	-13.00	50.20	Vertical



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Test Band = NSA 7A_n78A 3450-3550_ 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	7208.4	40.14	-43.59	35.78	-62.92	-13.00	49.92	Horizontal
2	8177.275	37.99	-41.97	36.71	-62.52	-13.00	49.52	Horizontal
3	9425.025	35.98	-39.93	37.11	-62.10	-13.00	49.10	Horizontal
4	10361.7	32.98	-38.82	38.38	-62.71	-13.00	49.71	Horizontal
5	11775.625	28.57	-36.93	38.78	-64.84	-13.00	51.84	Horizontal
6	13602.4	28.91	-36.04	40.18	-62.20	-13.00	49.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7388.95	40.14	-42.85	36.29	-61.68	-13.00	48.68	Vertical
2	8085.85	38.00	-41.45	36.76	-61.95	-13.00	48.95	Vertical
3	9426.175	35.34	-39.93	37.11	-62.74	-13.00	49.74	Vertical
4	10204.15	41.10	-39.27	38.30	-55.13	-13.00	42.13	Vertical
5	11251.8	30.72	-36.93	38.73	-62.74	-13.00	49.74	Vertical
6	12755.425	32.49	-36.71	39.03	-60.46	-13.00	47.46	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:

$$AF = \text{Antenna Factor (dB/m)}$$

$$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$


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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
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.200000	-0.002653	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-10.300000	-0.002943	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.300000	-0.000657	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-1.200000	-0.000343	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-2.000000	-0.000571	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-7.200000	-0.002057	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.700000	-0.000486	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	-3.900000	-0.001114	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	2.400000	0.000686	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.700000	-0.001343	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-4.500000	-0.001286	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-1.300000	-0.000371	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-1.600000	-0.000457	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.900000	-0.000829	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-8.900000	-0.002543	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-3.200000	-0.000914	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-11.300000	-0.003229	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-10.000000	-0.002857	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	5.700000	0.001629	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	-4.100000	-0.001171	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	-2.300000	-0.000657	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-6.900000	-0.001971	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-14.300000	-0.004086	PASS

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