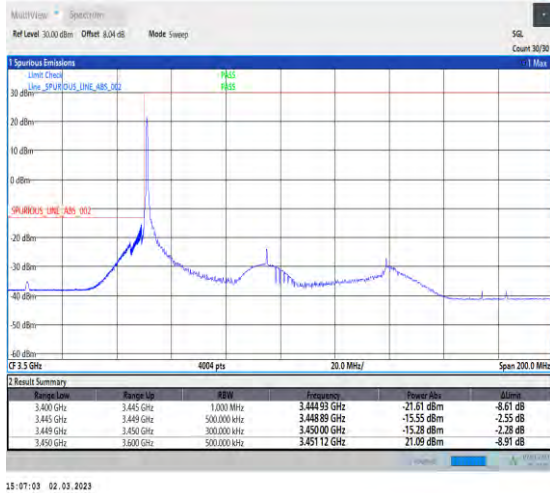


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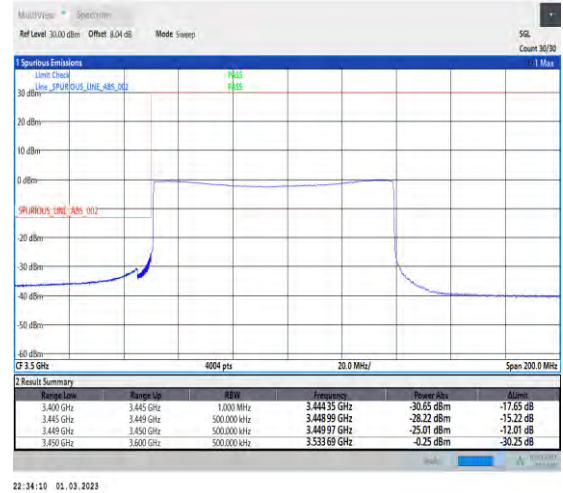
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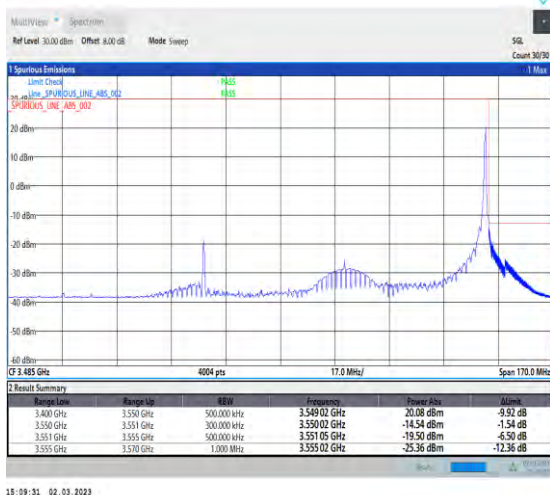
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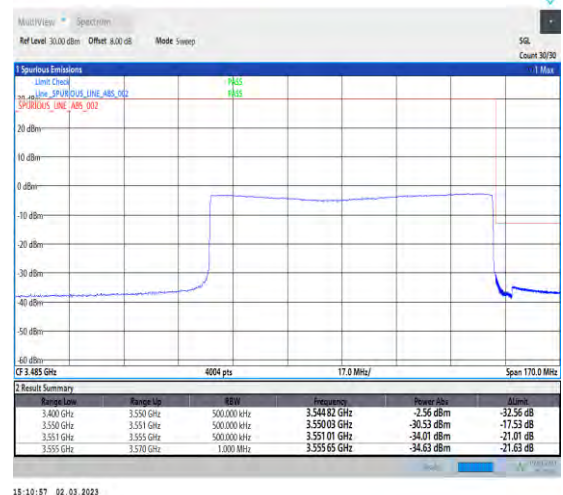
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15:10:57 02.02.2023

1-N78-3450-3550-PC2-30-90-H-6-CP-QPSK-Outer
_Full-245@0-Ant1-1--PASS-see graph



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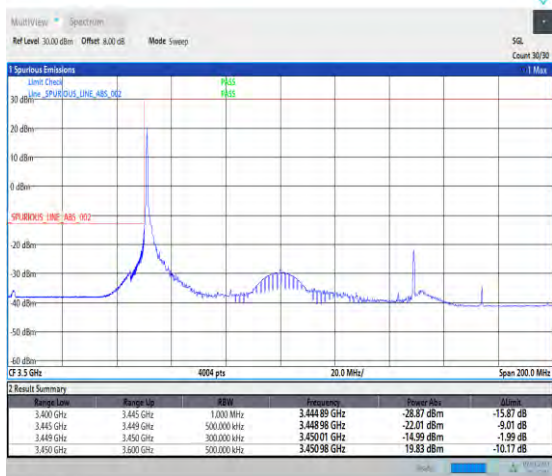
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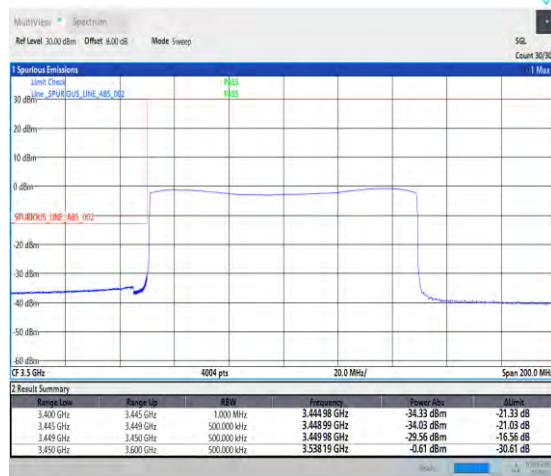
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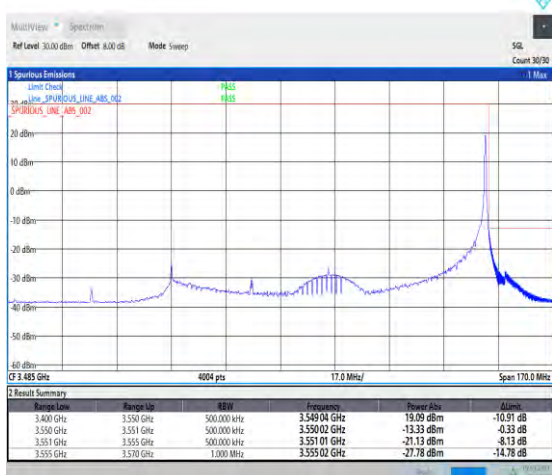
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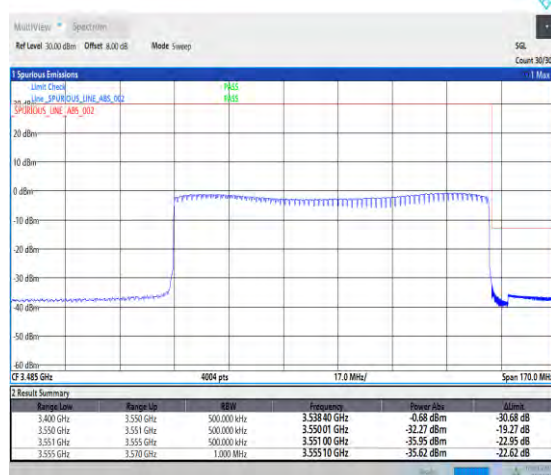
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22:43:26 01.03.2023

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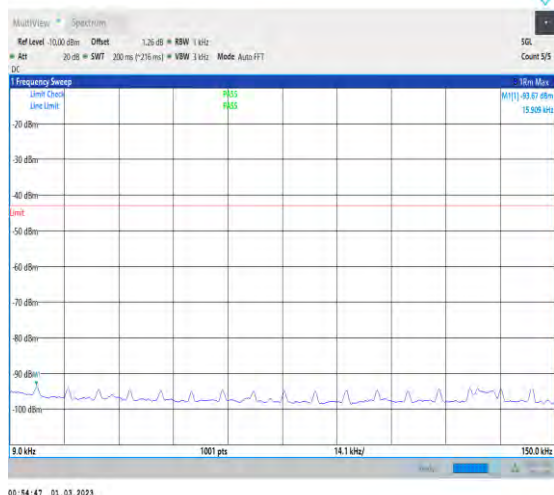
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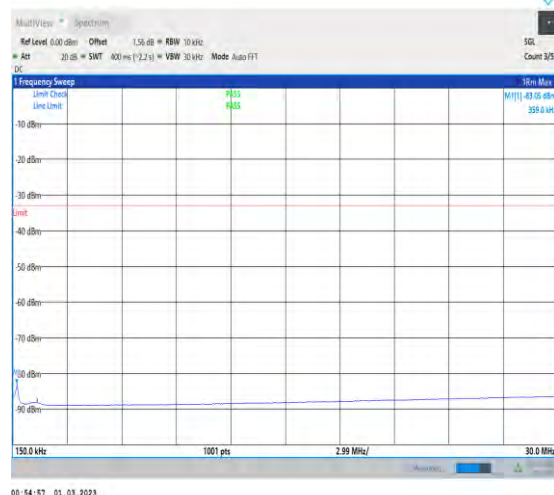
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Test Graphs



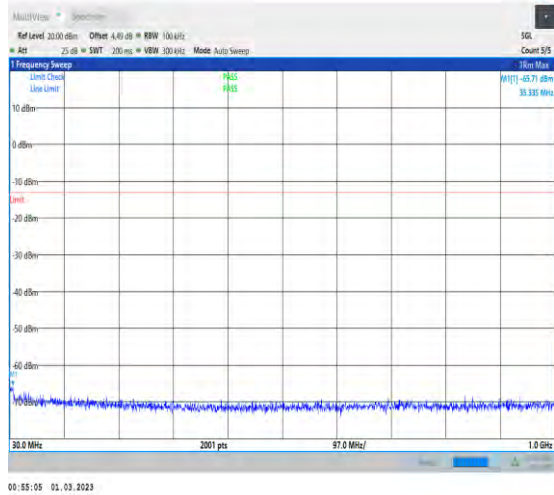
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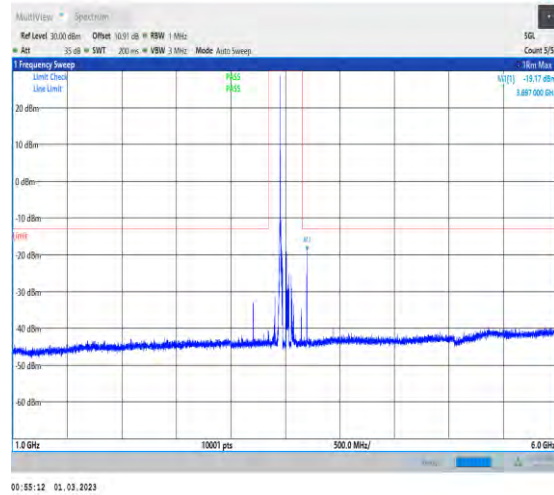
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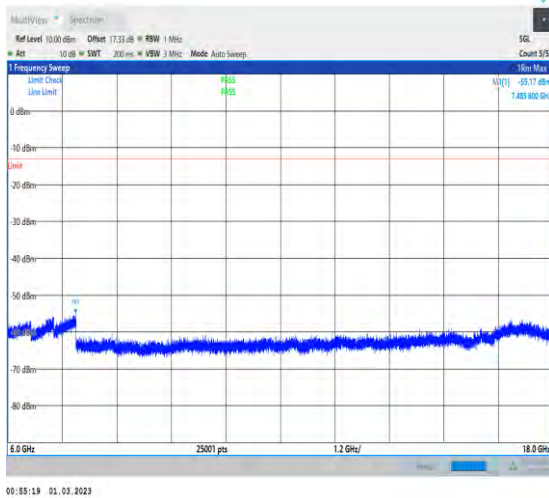
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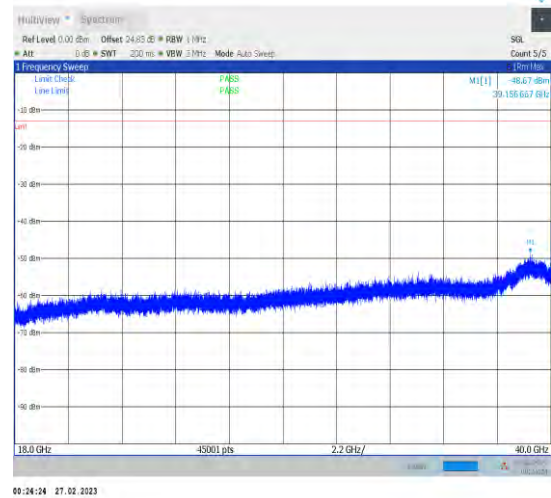
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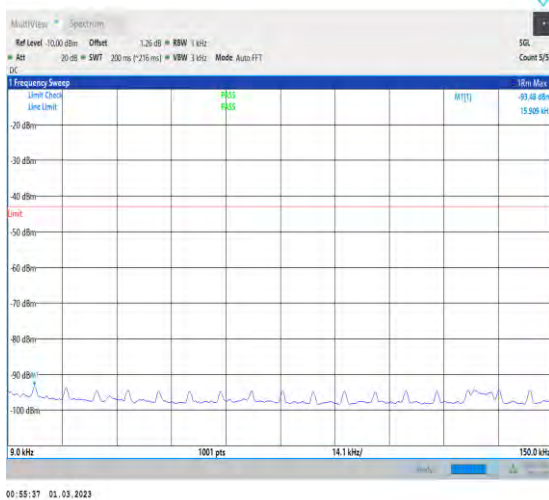
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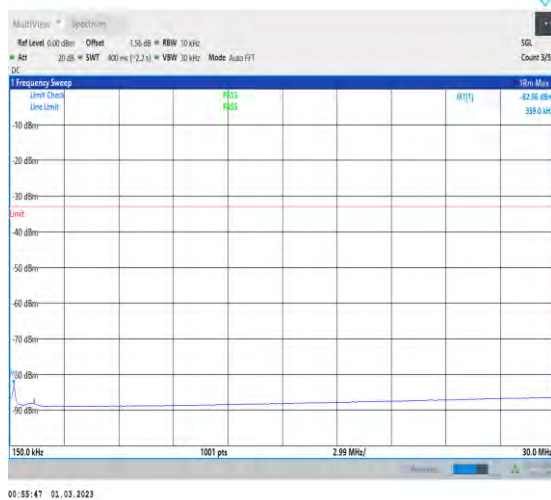
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1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.02--93.48--43-PASS



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.36--82.96--33-PASS



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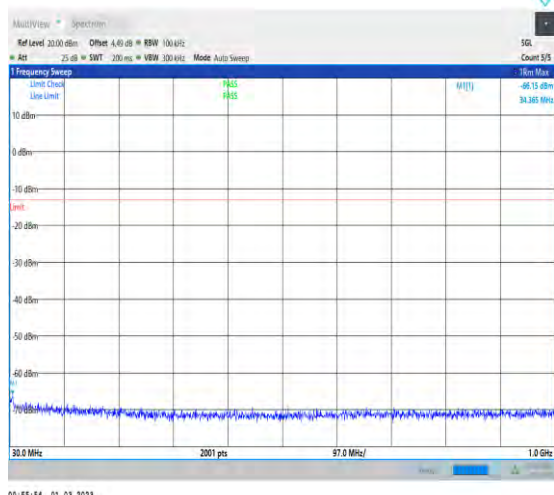
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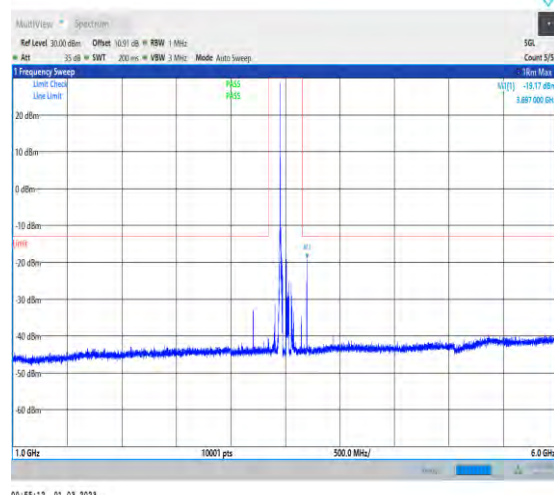
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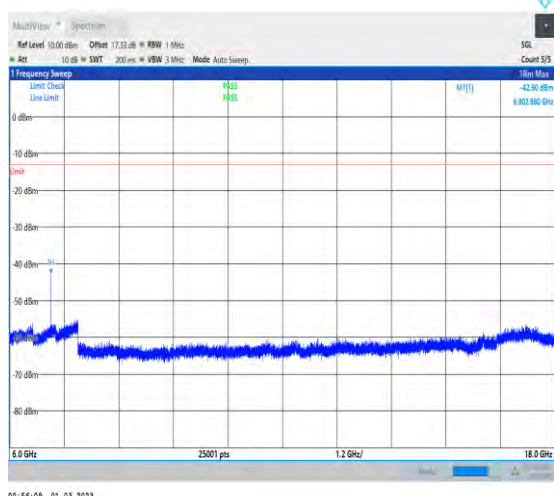
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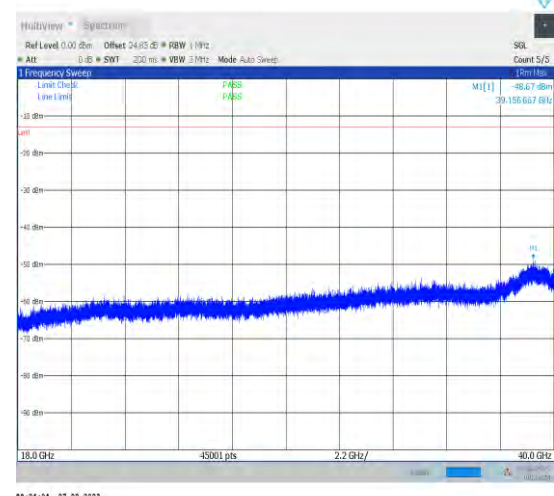
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ASS



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3-PASS



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--58.31--13-PASS

3-PASS



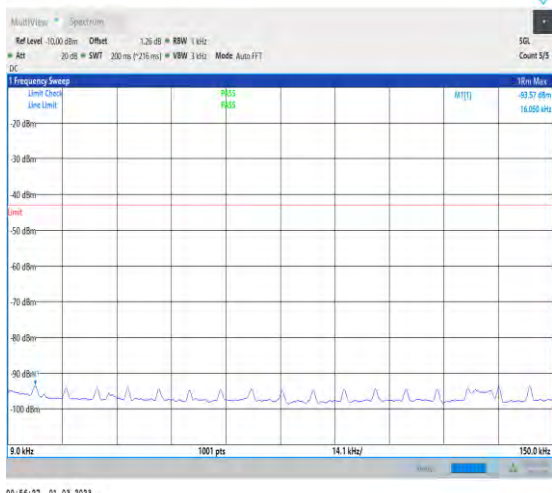
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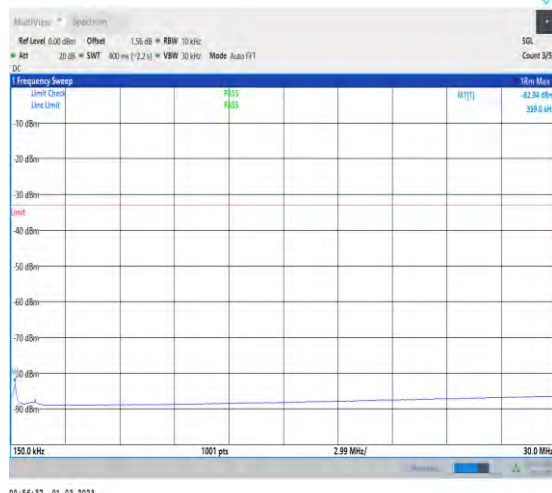
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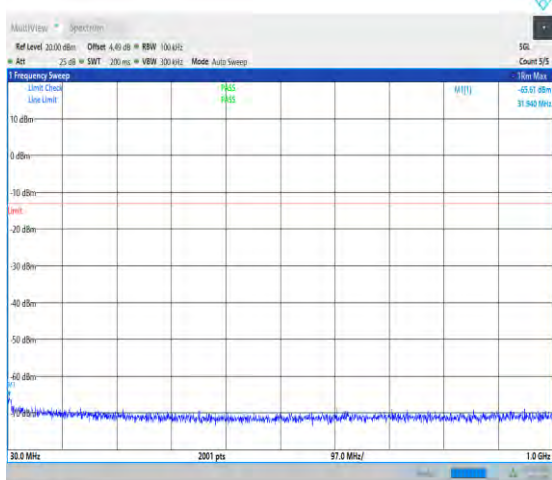
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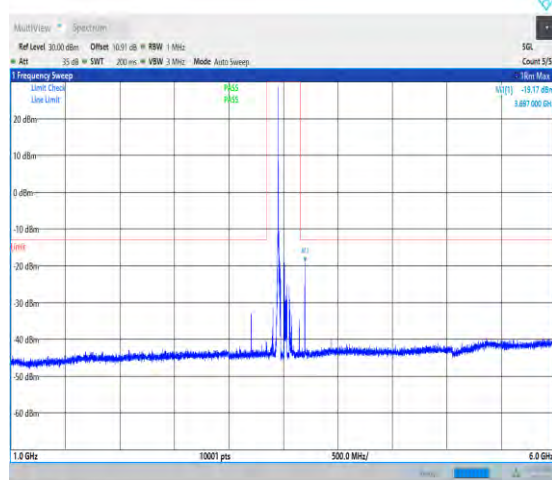
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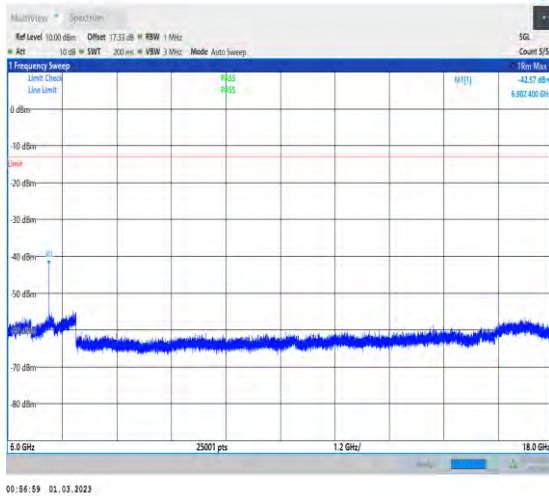
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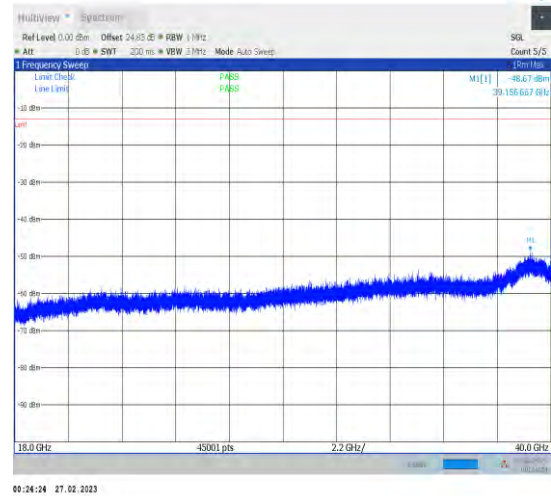
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1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--58.49--1
3-PASS



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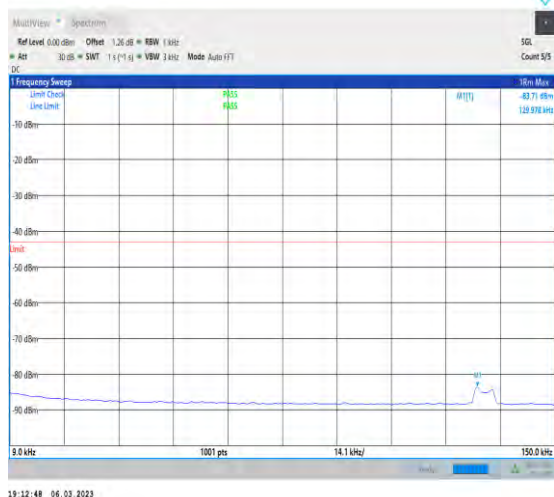
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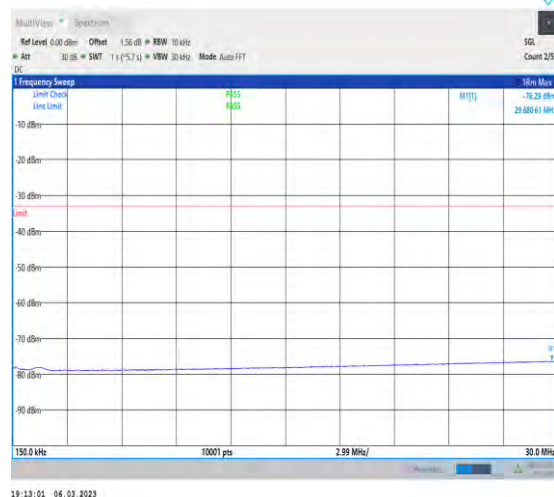
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Conducted Spurious Emission for MIMO

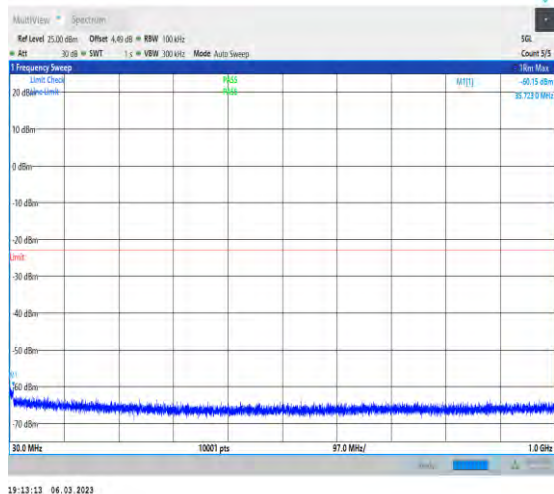
Test Graphs



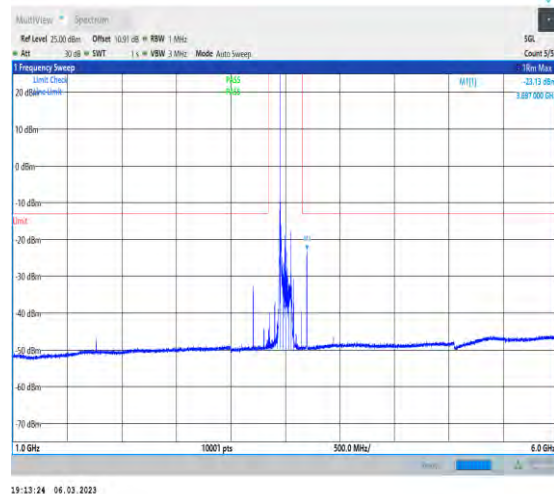
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1-N78-3450-3550-PC2-30-100-L-1-DFT-QPSK-Edge
_1RB_Left-1@0-1000-6000-Ant1-3697.00--23.13--13
-PASS



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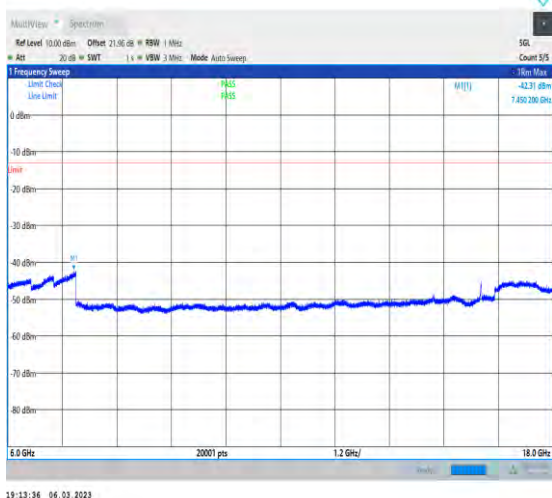
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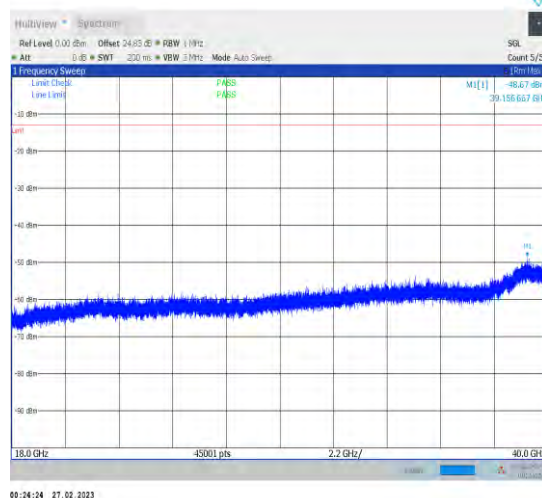
Report No.: SEWM2302000040RG02

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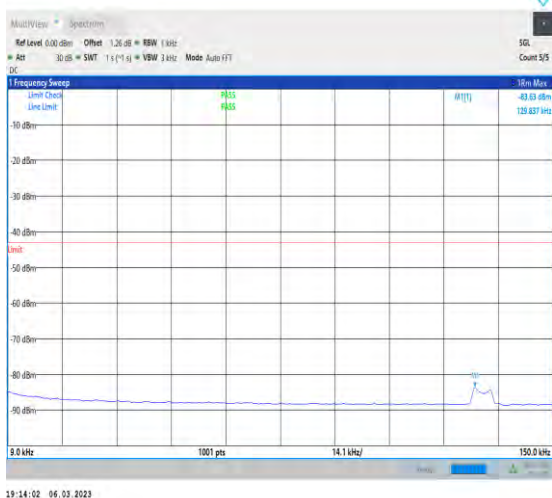
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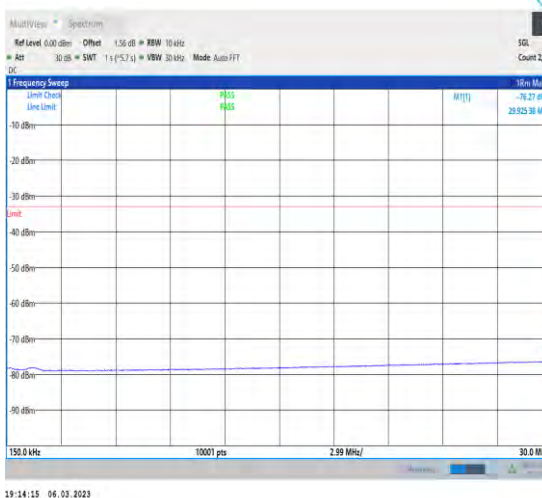
1-N78-3450-3550-PC2-30-100-L-1-DFT-QPSK-Edge
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-13-PASS



1-N78-3450-3550-PC2-30-100-L-1-DFT-QPSK-Edge
_1RB_Left-1@0-18000-38000-Ant1-18000.00--46.84-
-13-PASS



1-N78-3450-3550-PC2-30-100-M-1-DFT-QPSK-Edge
e_1RB_Left-1@0-0.009-0.15-Ant1-0.13--83.63--43-
PASS



1-N78-3450-3550-PC2-30-100-M-1-DFT-QPSK-Edge
_1RB_Left-1@0-0.15-30-Ant1-29.93--76.27--33-PAS
S



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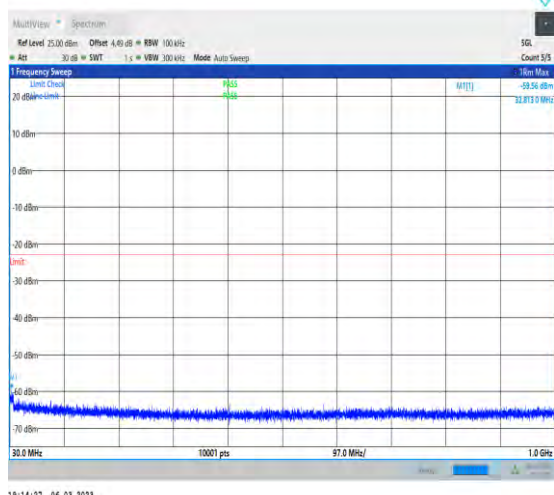
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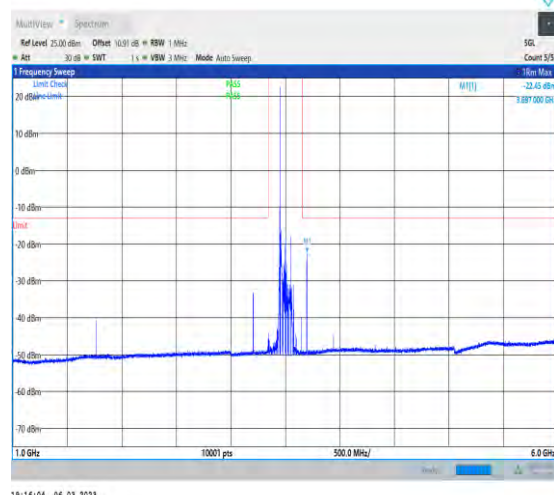
Report No.: SEWM2302000040RG02

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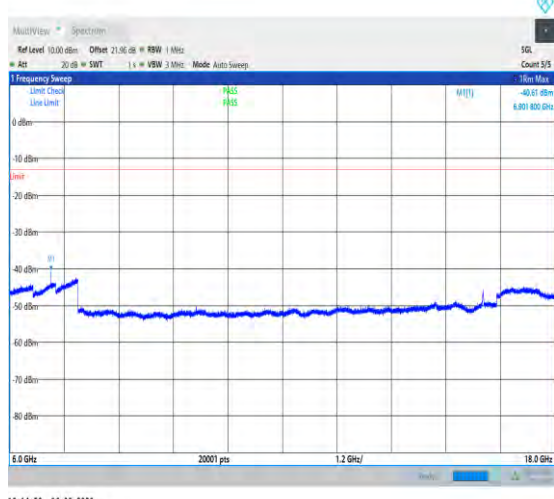
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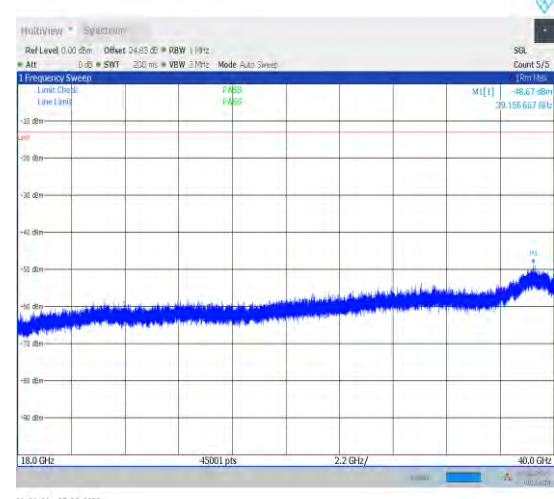
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1-N78-3450-3550-PC2-30-100-M-1-DFT-QPSK-Edge_1RB_Left-1@0-1000-6000-Ant1-3696.50--25.50--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-DFT-QPSK-Edge_1RB_Left-1@0-6000-18000-Ant1-6901.80--40.61--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-DFT-QPSK-Edge_1RB_Left-1@0-18000-38000-Ant1-18000.00--46.76--13-PASS



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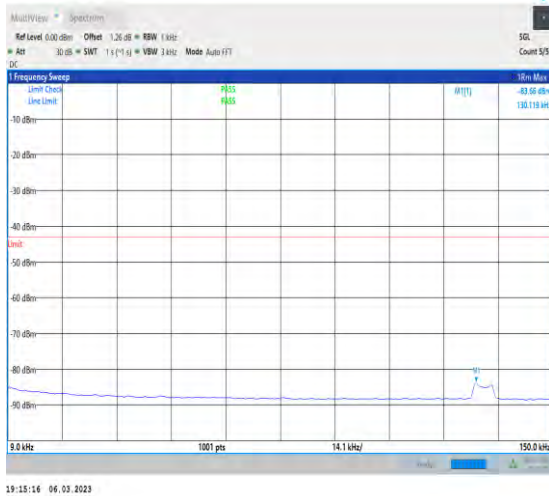
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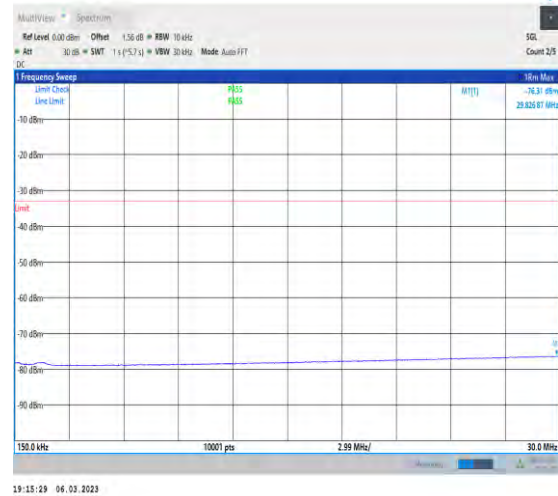
Report No.: SEWM2302000040RG02

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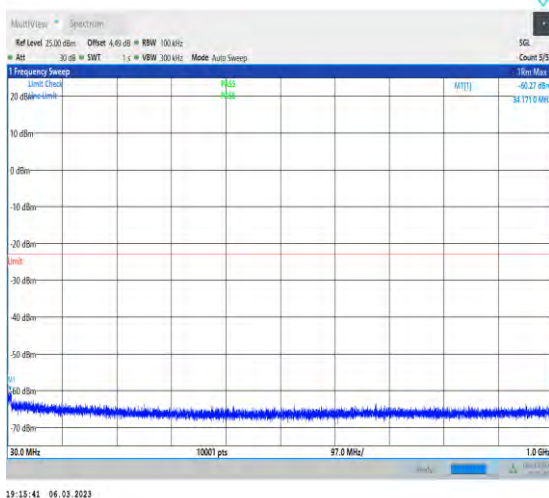
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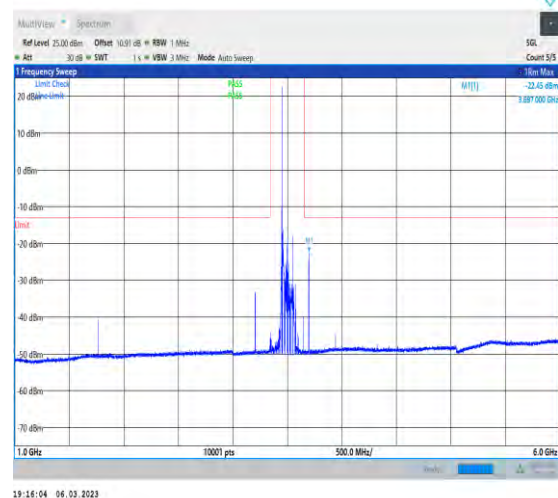
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1-N78-3450-3550-PC2-30-100-H-1-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant1-29.83--76.31--33-PASS



1-N78-3450-3550-PC2-30-100-H-1-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant1-34.17--60.27--23-PASS



1-N78-3450-3550-PC2-30-100-H-1-DFT-QPSK-Edge_1RB_Left-1@0-1000-6000-Ant1-3697.00--22.45--13-PASS



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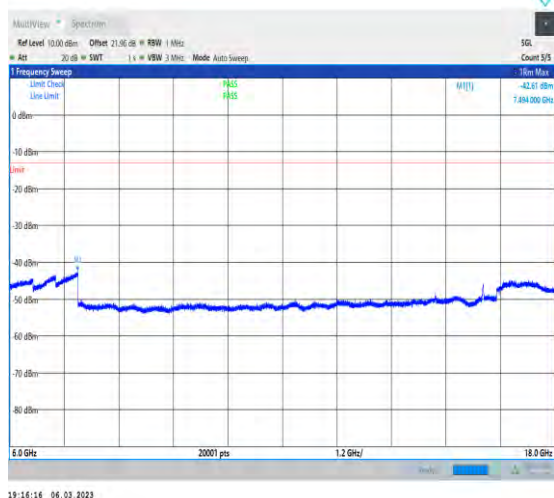
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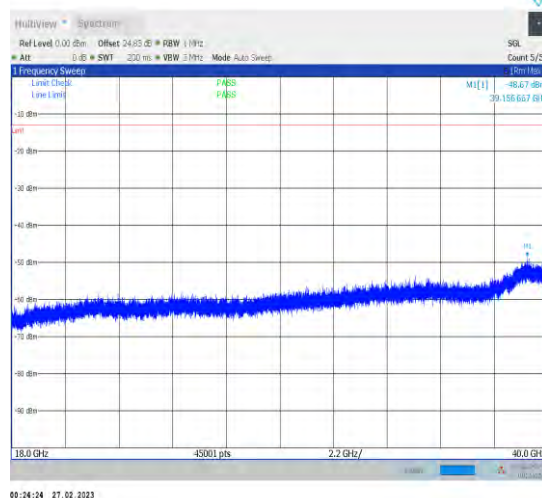
Report No.: SEWM2302000040RG02

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1-N78-3450-3550-PC2-30-100-H-1-DFT-QPSK-Edg
e_1RB_Left-1@0-6000-18000-Ant1-7494.00--42.61-
-13-PASS



1-N78-3450-3550-PC2-30-100-H-1-DFT-QPSK-Edge
_1RB_Left-1@0-18000-38000-Ant1-18000.00--46.99-
-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]	Height [cm]	Angle [°]	Polarity
1	6982.1800	40.27	-43.15	36.06	-62.08	-13.00	49.08	211	330	Horizontal
2	8246.275	40.43	-42.02	37.14	-59.71	-13.00	46.71	158	1	Horizontal
3	8378.525	40.86	-41.48	37.30	-58.57	-13.00	45.57	189	164	Horizontal
4	10473.2700	35.36	-38.75	38.93	-59.72	-13.00	46.72	175	119	Horizontal
5	13964.3600	32.08	-35.06	40.11	-58.13	-13.00	45.13	146	1	Horizontal
6	17455.4500	32.64	-34.25	39.05	-57.83	-13.00	44.83	183	316	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	6982.1800	40.15	-43.15	36.06	-62.20	-13.00	49.20	222	74	Vertical
2	8270.425	40.21	-41.95	37.17	-59.83	-13.00	46.83	155	120	Vertical
3	9418.7	38.80	-39.93	38.49	-57.90	-13.00	44.90	143	74	Vertical
4	10473.2700	34.89	-38.75	38.93	-60.19	-13.00	47.19	258	195	Vertical
5	13964.3600	32.62	-35.06	40.11	-57.59	-13.00	44.59	174	303	Vertical
6	17455.4500	32.83	-34.25	39.05	-57.64	-13.00	44.64	196	226	Vertical



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Test Band = n78 ULMIMO_ 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	6982.1800	39.92	-43.15	36.06	-62.43	-13.00	49.43	211	0	Horizontal
2	8409.575	40.36	-41.41	37.35	-58.96	-13.00	45.96	142	0	Horizontal
3	9090.375	38.64	-40.45	38.26	-58.81	-13.00	45.81	156	151	Horizontal
4	10473.2700	35.35	-38.75	38.93	-59.73	-13.00	46.73	236	76	Horizontal
5	13964.3600	31.29	-35.06	40.11	-58.92	-13.00	45.92	256	347	Horizontal
6	17455.4500	32.35	-34.25	39.05	-58.12	-13.00	45.12	291	273	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	6982.1800	39.80	-43.15	36.06	-62.55	-13.00	49.55	214	194	Vertical
2	8379.675	40.53	-41.47	37.30	-58.90	-13.00	45.90	156	0	Vertical
3	9415.25	38.04	-39.93	38.49	-58.66	-13.00	45.66	188	208	Vertical
4	10473.2700	36.24	-38.75	38.93	-58.84	-13.00	45.84	153	303	Vertical
5	13964.3600	32.30	-35.06	40.11	-57.91	-13.00	44.91	261	254	Vertical
6	17455.4500	33.27	-34.25	39.05	-57.20	-13.00	44.20	199	7	Vertical



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Test Band = NSA 7A-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	6982.1800	40.03	-43.15	36.06	-62.32	-13.00	49.32	245	2	Horizontal
2	8415.9	40.39	-41.44	37.36	-58.94	-13.00	45.94	156	316	Horizontal
3	8814.95	38.88	-41.11	38.09	-59.40	-13.00	46.40	136	44	Horizontal
4	10473.2700	35.01	-38.75	38.93	-60.07	-13.00	47.07	256	73	Horizontal
5	13964.3600	31.04	-35.06	40.11	-59.17	-13.00	46.17	211	178	Horizontal
6	17455.4500	32.12	-34.25	39.05	-58.35	-13.00	45.35	155	193	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	6982.1800	39.72	-43.15	36.06	-62.63	-13.00	49.63	211	357	Vertical
2	8407.85	39.99	-41.40	37.35	-59.33	-13.00	46.33	145	0	Vertical
3	8902.925	39.09	-40.91	38.14	-58.94	-13.00	45.94	156	165	Vertical
4	10473.2700	34.84	-38.75	38.93	-60.24	-13.00	47.24	236	195	Vertical
5	13964.3600	31.44	-35.06	40.11	-58.77	-13.00	45.77	256	195	Vertical
6	17455.4500	32.04	-34.25	39.05	-58.43	-13.00	45.43	199	224	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	-1.800000	-0.000514	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.300000	0.001229	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.600000	0.000171	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	1.700000	0.000486	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	6.300000	0.001800	PASS
N78-3450-3550	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	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.300000	0.002657	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	1.600000	0.000457	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-0.800000	-0.000229	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	1.400000	0.000400	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	3.300000	0.000943	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	8.200000	0.002343	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	2.200000	0.000629	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	9.700000	0.002771	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	7.900000	0.002257	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-3.100000	-0.000886	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	0.500000	0.000143	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-0.500000	-0.000143	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-2.500000	-0.000714	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-1.800000	-0.000514	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	3.800000	0.001086	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	1.000000	0.000286	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-0.200000	-0.000057	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-4.900000	-0.001400	PASS

---End of Attachment---



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