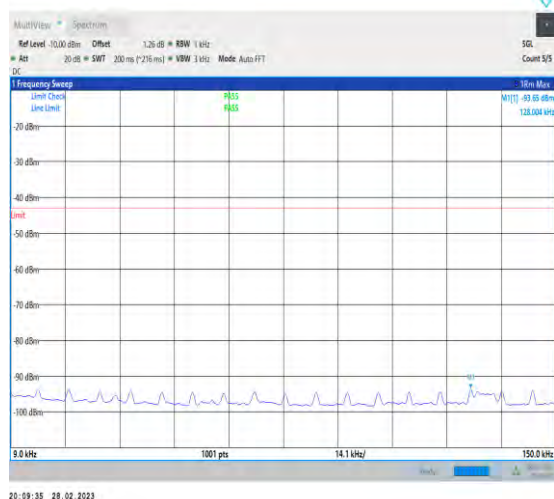


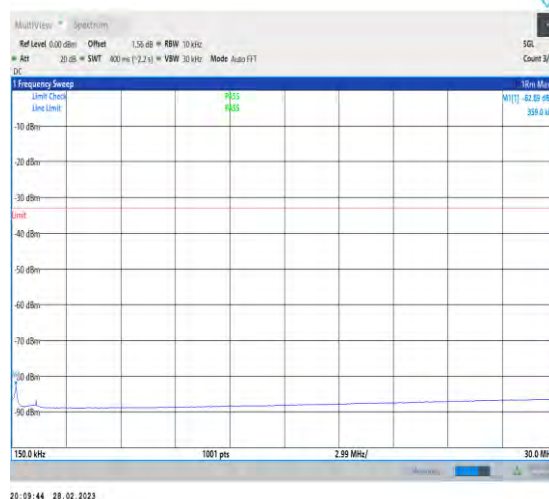
Report No.: SEWM2302000040RG02
Rev.: 01
Page: 137 of 151

Conducted Spurious Emission for SA

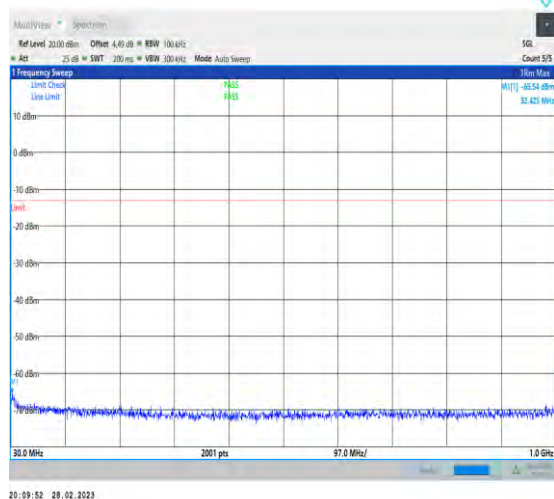
Test Graphs



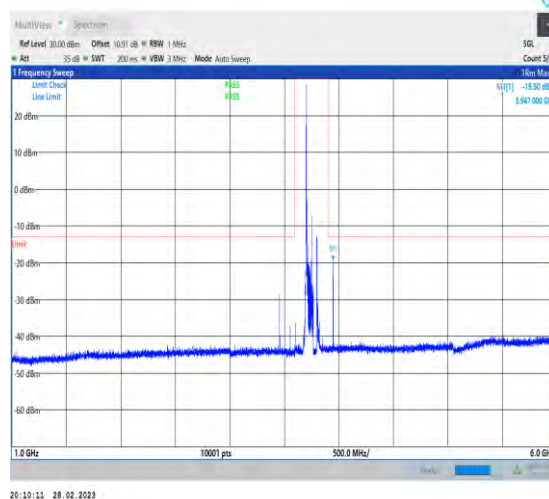
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SS



1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.36--82.89--33-PASS



1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-32.43--65.54--13-PAS
S



1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-3947.00--19.50--13-P
ASS



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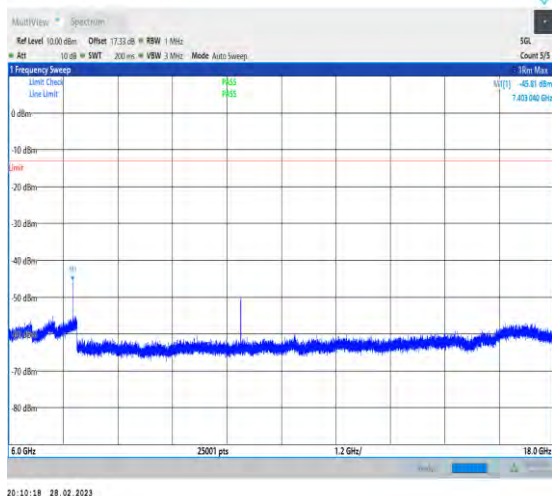
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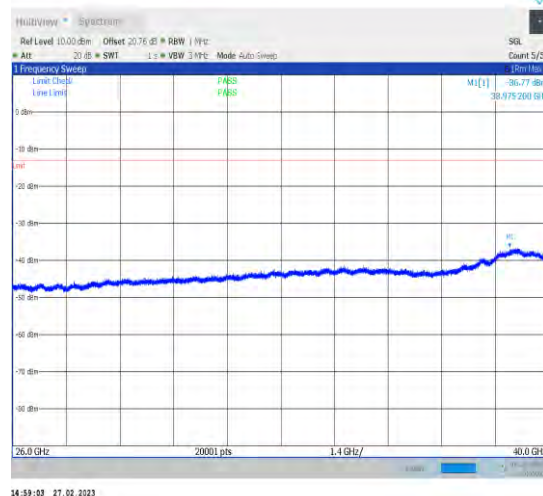
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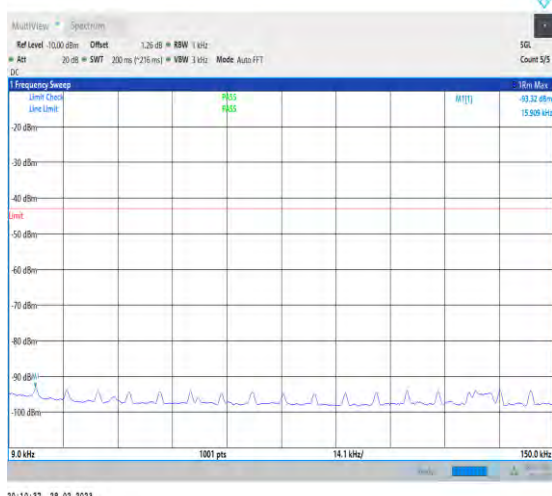
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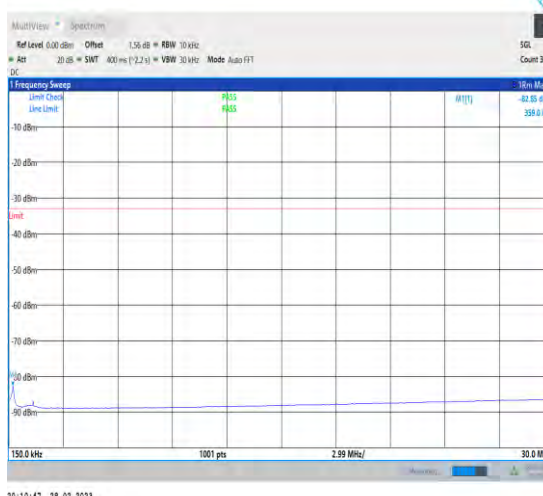
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20:10:37 29.02.2023



20:10:47 29.02.2023

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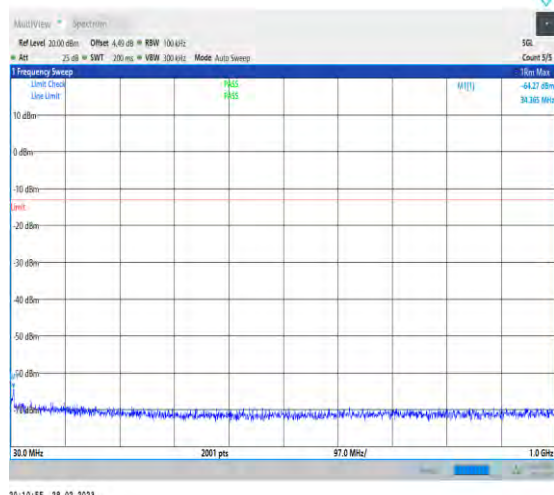
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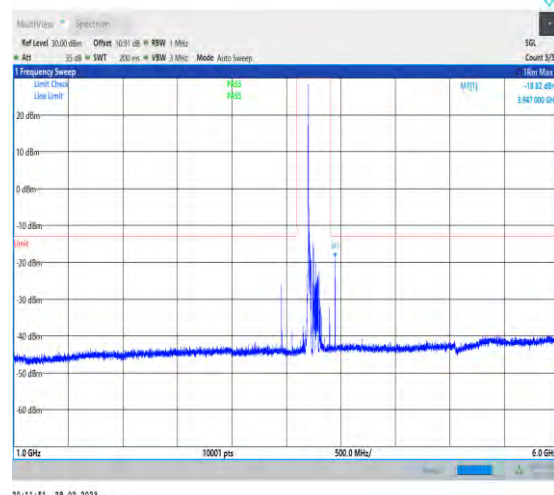
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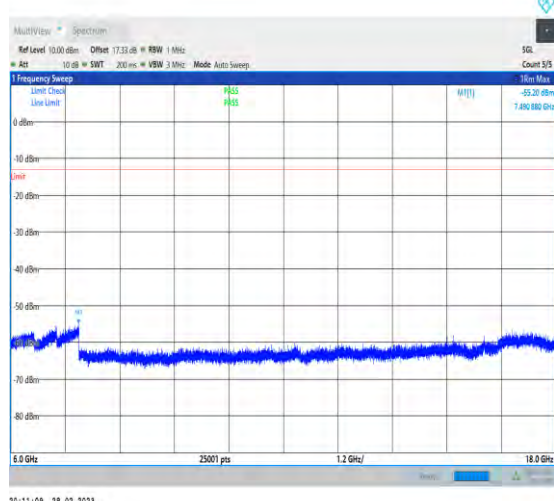
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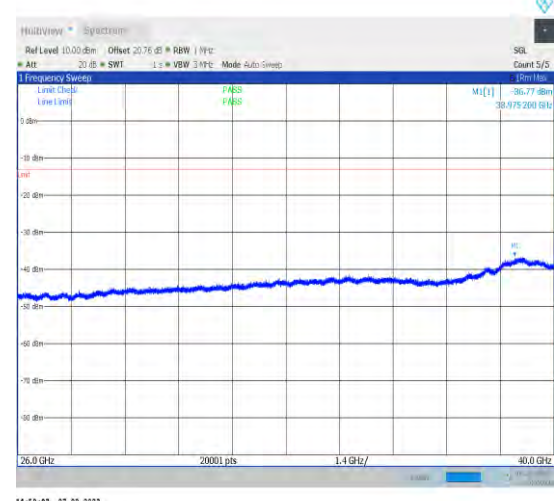
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S



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PASS



1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1-7490.88--55.20--13-PASS
3-PASS



1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--58.96--13-PASS
13-PASS



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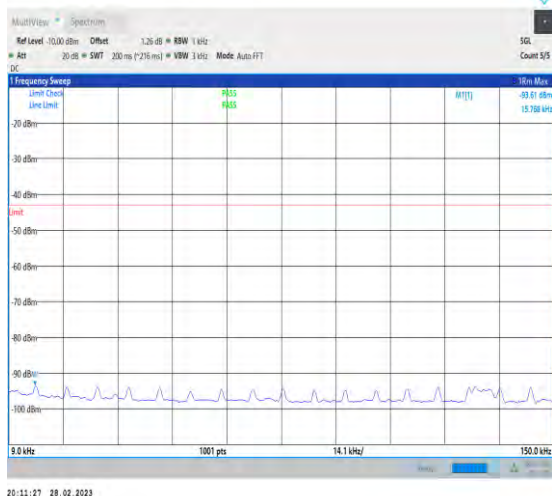
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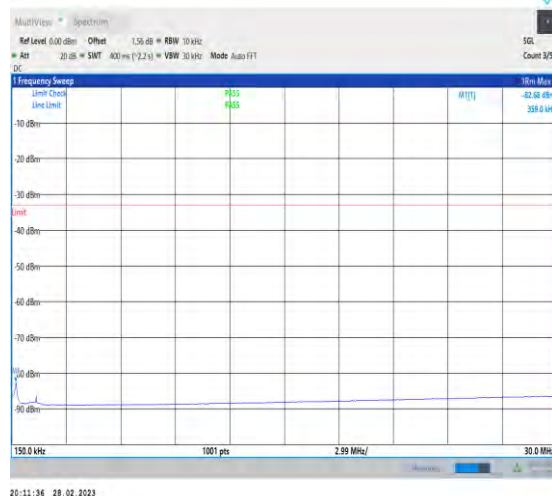
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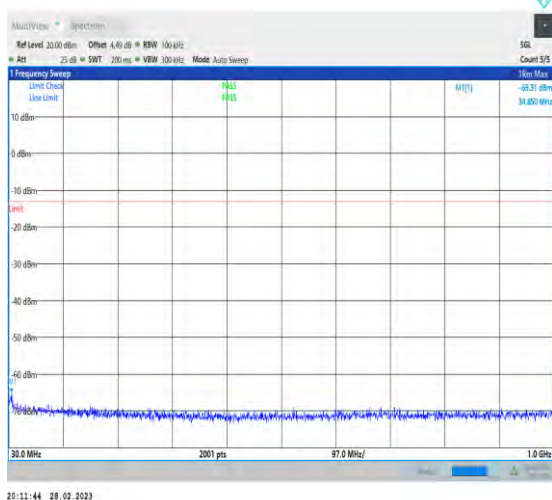
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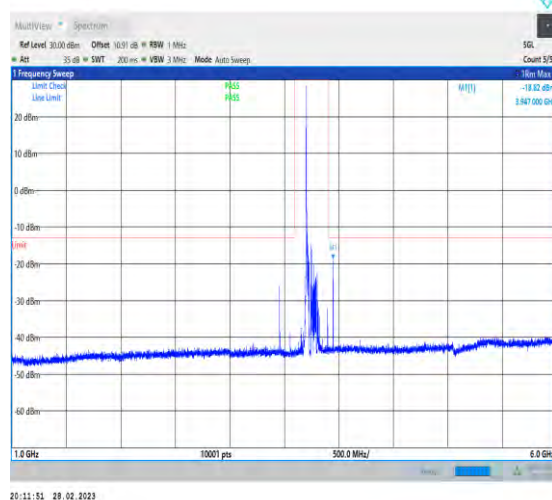
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1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-34.85--65.31--13-PAS S



1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-3947.00--18.82--13-P ASS



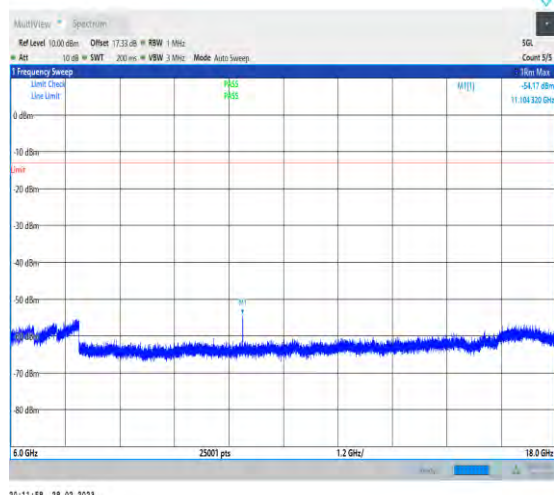
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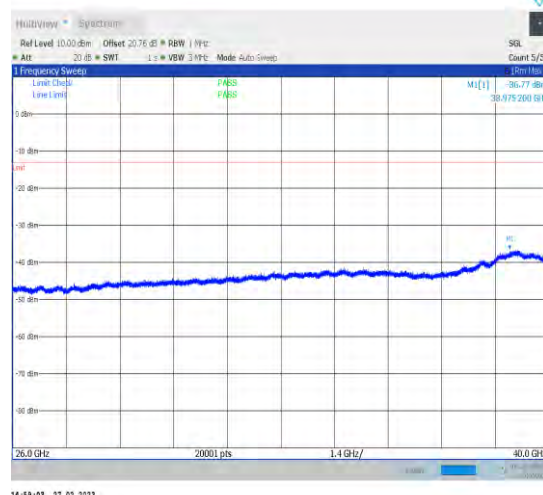
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14:59:03 27.02.2023

1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--58.49--13-PASS



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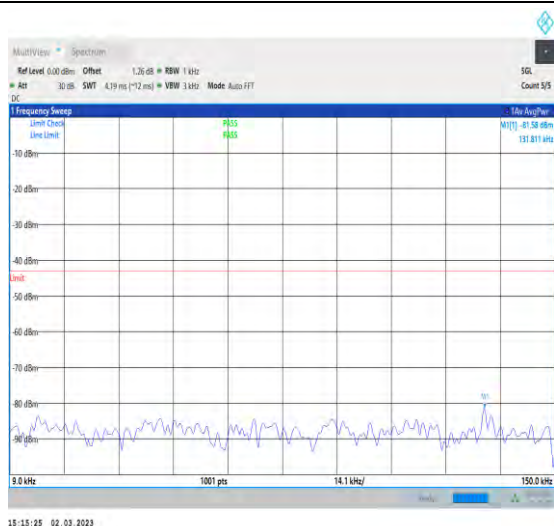
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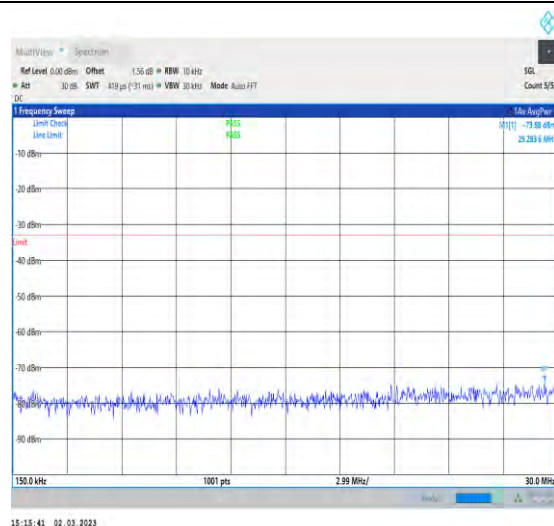
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Conducted Spurious Emission for MIMO

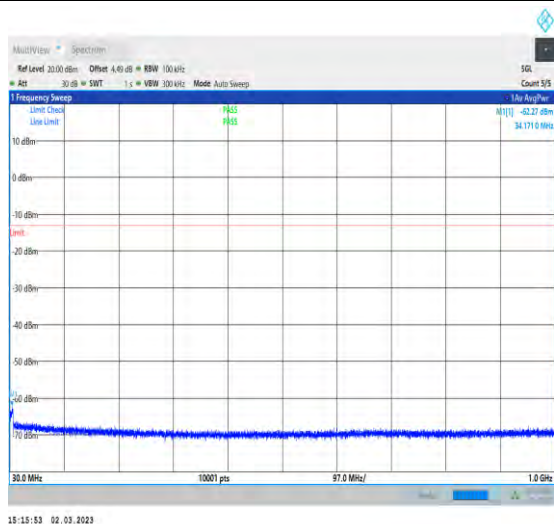
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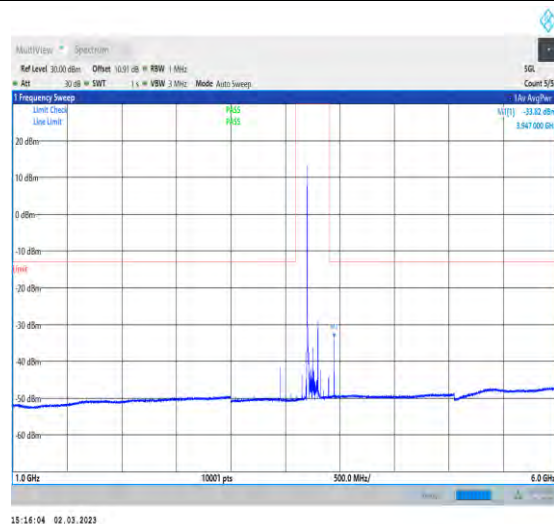
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S



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1-N78-3700-3800-PC2-30-100-L-1-DFT-QPSK-Edge
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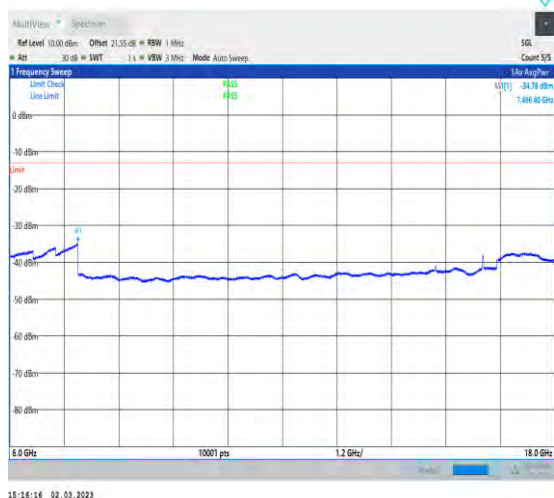
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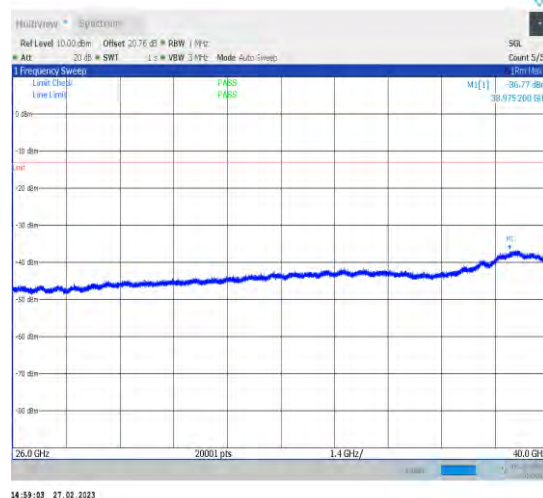
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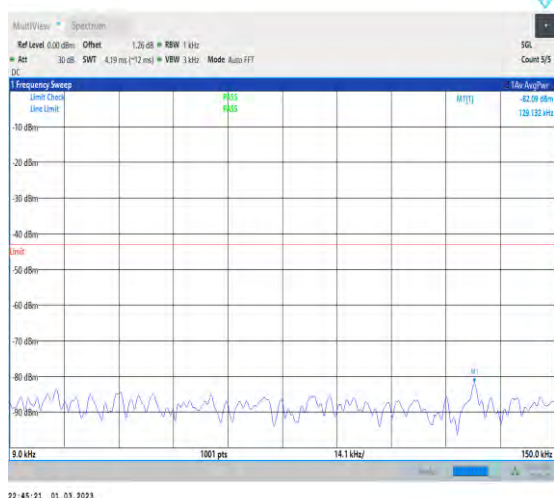
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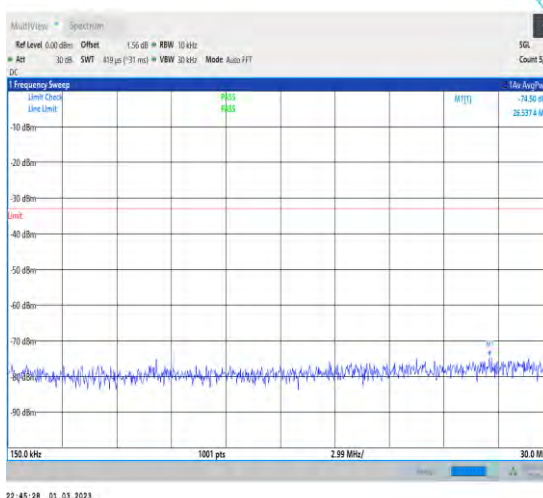
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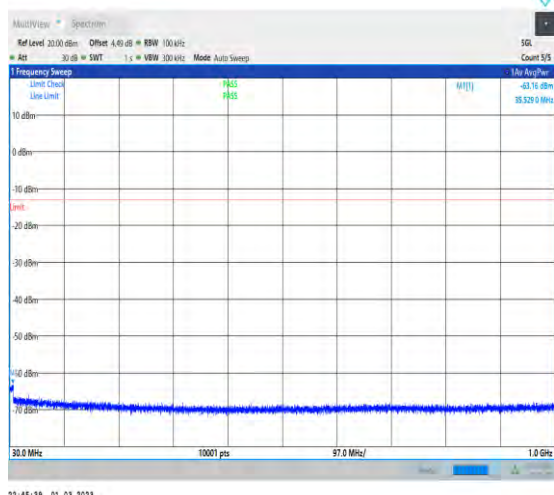
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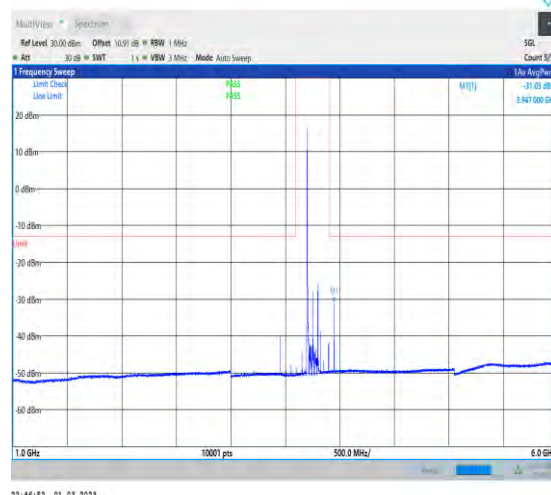
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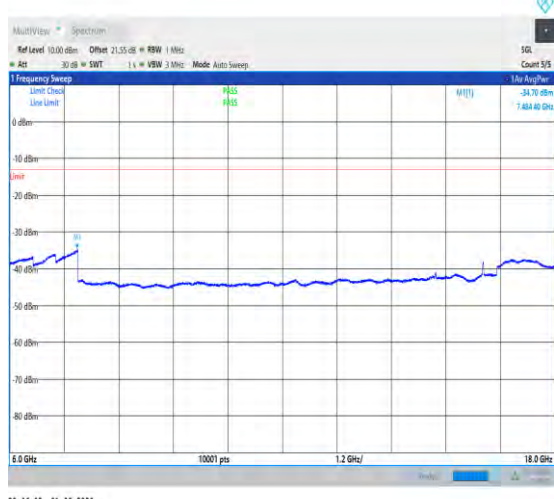
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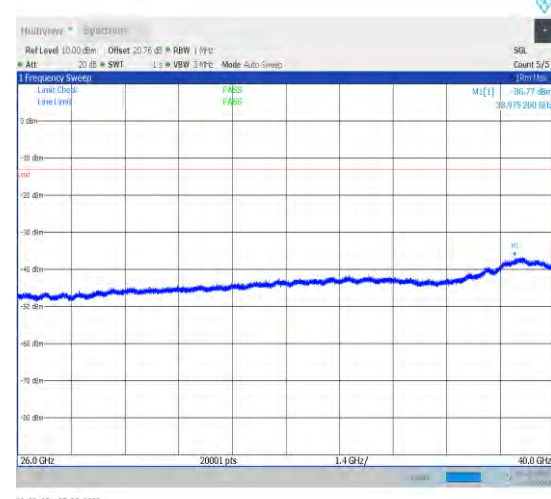
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1-N78-3700-3800-PC2-30-100-M-1-DFT-QPSK-Edge_1RB_Left-1@0-18000-40000-Ant1-18000.00--38.94--13-PASS



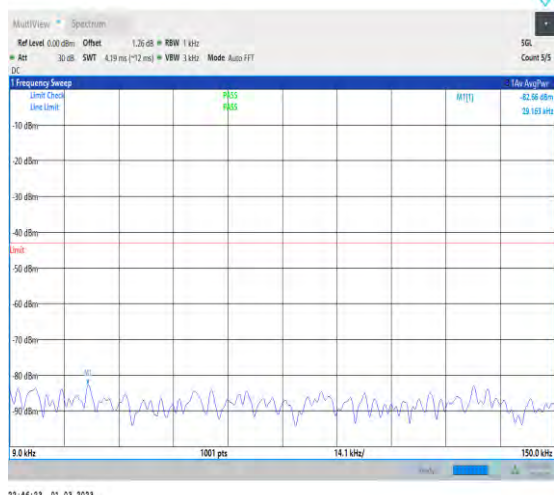
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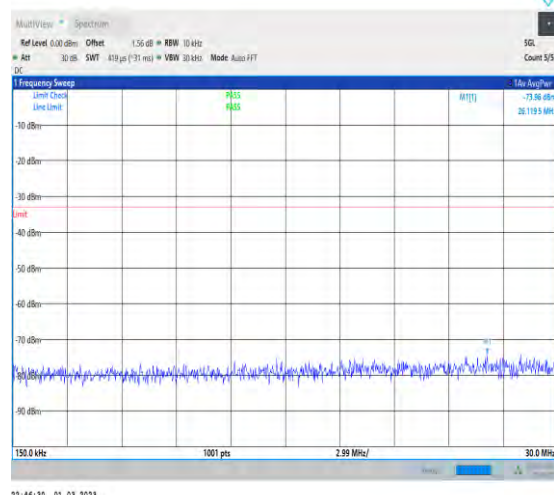
Report No.: SEWM2302000040RG02

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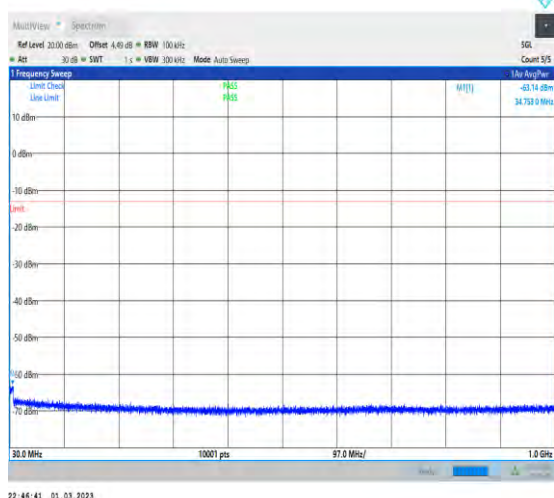
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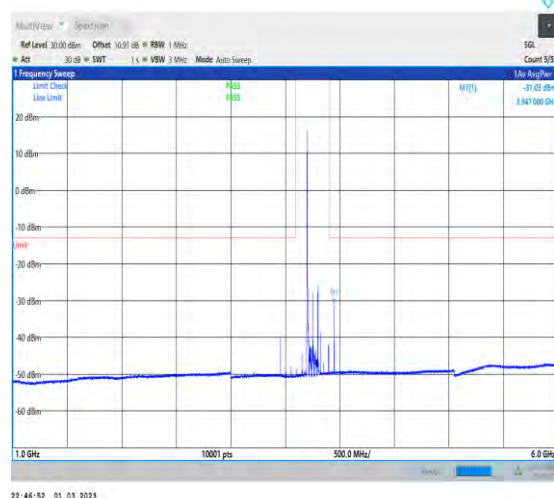
1-N78-3700-3800-PC2-30-100-H-1-DFT-QPSK-Edge
e_1RB_Left-1@0-0.009-0.15-Ant1-0.03--82.66--43-
PASS



1-N78-3700-3800-PC2-30-100-H-1-DFT-QPSK-Edge
_1RB_Left-1@0-0.15-30-Ant1-26.12--73.96--33-PAS
S



1-N78-3700-3800-PC2-30-100-H-1-DFT-QPSK-Edge
e_1RB_Left-1@0-30-1000-Ant1-34.75--63.14--13-P
ASS



1-N78-3700-3800-PC2-30-100-H-1-DFT-QPSK-Edge
_1RB_Left-1@0-1000-6000-Ant1-3947.00--31.03--13
-PASS



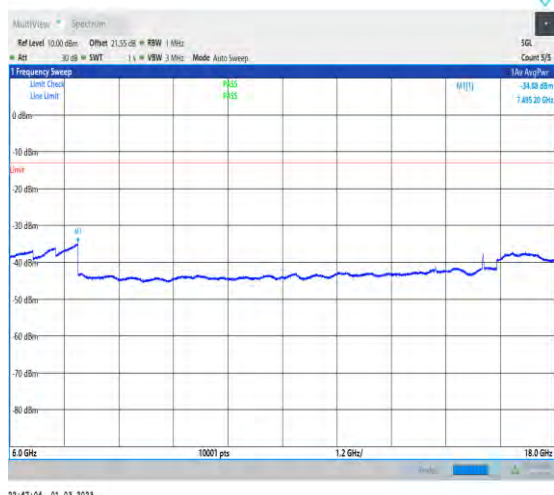
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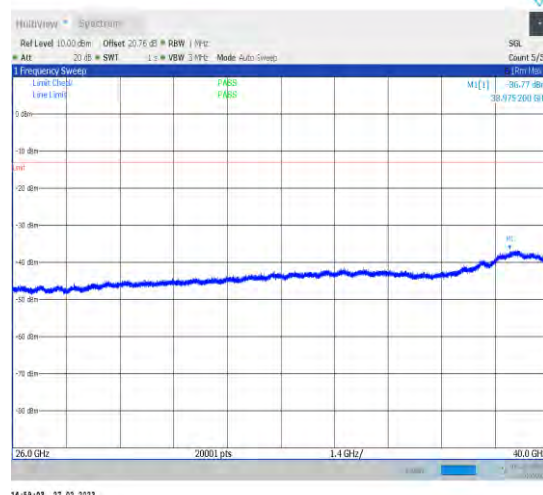
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1-N78-3700-3800-PC2-30-100-H-1-DFT-QPSK-Edge
e_1RB_Left-1@0-6000-18000-Ant1-7495.20--34.88-
-13-PASS



1-N78-3700-3800-PC2-30-100-H-1-DFT-QPSK-Edge
_1RB_Left-1@0-18000-40000-Ant1-18000.00--38.99-
-13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band78_ TM1

Test Channel = Mid 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7482.1800	40.24	-43.10	36.45	-61.68	-13.00	48.68	245	180	Horizontal
2	8683.275	39.64	-41.26	37.89	-59.00	-13.00	46.00	156	135	Horizontal
3	9420.425	38.09	-39.93	38.48	-58.61	-13.00	45.61	136	17	Horizontal
4	11223.2700	34.30	-36.75	39.11	-58.60	-13.00	45.60	258	286	Horizontal
5	13331.575	34.72	-36.72	40.07	-57.19	-13.00	44.19	174	105	Horizontal
6	14964.3600	31.06	-34.67	39.30	-59.57	-13.00	46.57	160	226	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	7482.1800	39.83	-43.10	36.45	-62.09	-13.00	49.09	165	150	Vertical
2	8381.4	40.55	-41.46	37.31	-58.87	-13.00	45.87	142	76	Vertical
3	9291.625	38.28	-40.06	38.41	-58.63	-13.00	45.63	188	242	Vertical
4	11223.2700	34.41	-36.75	39.11	-58.49	-13.00	45.49	174	150	Vertical
5	13109.05	34.15	-36.61	39.88	-57.84	-13.00	44.84	153	90	Vertical
6	14964.3600	31.15	-34.67	39.30	-59.48	-13.00	46.48	261	135	Vertical



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Test Band = n78 ULMIMO_ TM1
Test Channel = Mid 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7482.1800	38.87	-43.10	36.45	-63.05	-13.00	50.05	244	242	Horizontal
2	8416.475	40.58	-41.44	37.36	-58.76	-13.00	45.76	158	347	Horizontal
3	9420.425	37.77	-39.93	38.48	-58.93	-13.00	45.93	196	0	Horizontal
4	11223.2700	33.85	-36.75	39.11	-59.05	-13.00	46.05	145	92	Horizontal
5	12823.85	33.41	-36.68	39.65	-58.88	-13.00	45.88	172	121	Horizontal
6	14964.3600	30.42	-34.67	39.30	-60.21	-13.00	47.21	153	318	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	7482.1800	38.94	-43.10	36.45	-62.98	-13.00	49.98	244	1	Vertical
2	8661.425	39.71	-41.17	37.85	-58.87	-13.00	45.87	184	0	Vertical
3	9603.275	37.36	-39.21	38.44	-58.67	-13.00	45.67	175	212	Vertical
4	11223.2700	33.37	-36.75	39.11	-59.53	-13.00	46.53	146	226	Vertical
5	12830.175	33.84	-36.70	39.66	-58.46	-13.00	45.46	156	357	Vertical
6	14964.3600	30.31	-34.67	39.30	-60.32	-13.00	47.32	233	302	Vertical



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Test Band = NSA 7A-n78A_ TM1
Test Channel = Mid 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7482.1800	38.75	-43.10	36.45	-63.17	-13.00	50.17	211	75	Horizontal
2	8931.1	38.44	-40.90	38.16	-59.56	-13.00	46.56	154	3	Horizontal
3	9596.375	36.74	-39.23	38.44	-59.31	-13.00	46.31	136	318	Horizontal
4	11223.2700	32.88	-36.75	39.11	-60.02	-13.00	47.02	256	152	Horizontal
5	13703.025	32.69	-36.00	40.05	-58.52	-13.00	45.52	291	301	Horizontal
6	14964.3600	28.95	-34.67	39.30	-61.68	-13.00	48.68	144	17	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	7482.1800	39.27	-43.10	36.45	-62.65	-13.00	49.65	211	317	Vertical
2	8666.6	39.70	-41.19	37.86	-58.89	-13.00	45.89	145	120	Vertical
3	9279.55	37.58	-40.05	38.40	-59.33	-13.00	46.33	185	0	Vertical
4	11223.2700	32.64	-36.75	39.11	-60.26	-13.00	47.26	156	209	Vertical
5	12797.975	32.82	-36.62	39.63	-59.44	-13.00	46.44	136	209	Vertical
6	14964.3600	28.46	-34.67	39.30	-62.17	-13.00	49.17	256	0	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	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	6.800000	0.001771	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	1.600000	0.000417	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.200000	-0.000052	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VH	NT	9.000000	0.002344	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VN	NT	-1.300000	-0.000339	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VL	NT	2.400000	0.000625	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	3.600000	0.000938	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	7.000000	0.001823	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	9.700000	0.002526	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	1.200000	0.000313	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	5.900000	0.001536	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.200000	0.001875	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	6.900000	0.001797	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	3.500000	0.000911	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.900000	-0.000495	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-30	-0.600000	-0.000156	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.600000	0.001719	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-10	13.500000	0.003516	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	0	1.400000	0.000365	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	10	-1.100000	-0.000286	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	20	1.000000	0.000260	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	30	4.700000	0.001224	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	40	-3.800000	-0.000990	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	50	-0.300000	-0.000078	PASS

---End of Attachment---



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