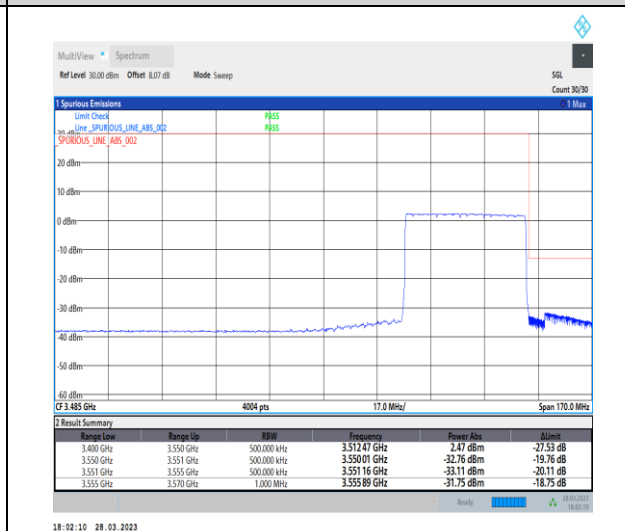
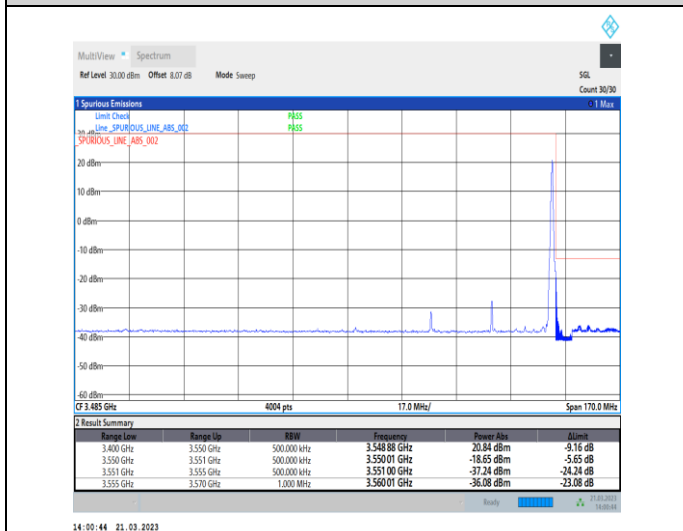


1-N78-3450-3550-30-40-L-4-CP-QPSK-Edge\_1RB\_Lef t-1@0-Ant0-1--PASS-see graph

1-N78-3450-3550-30-40-L-6-CP-QPSK-Outer\_Full -106@0-Ant0-1--PASS-see graph



1-N78-3450-3550-30-40-H-5-CP-QPSK-Edge\_1RB\_Ri ght-1@105-Ant0-1--PASS-see graph

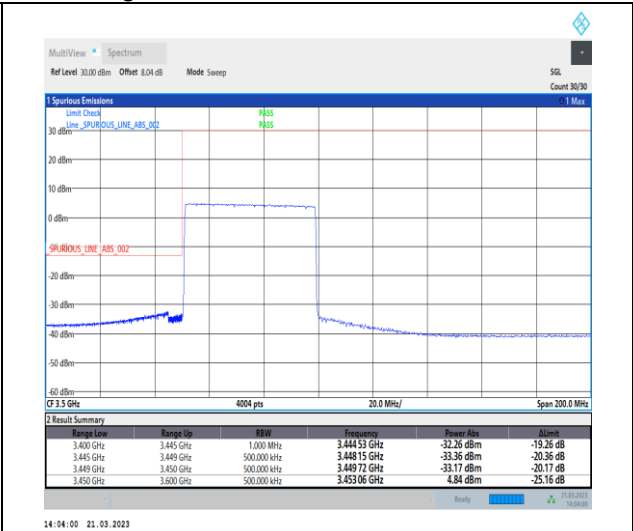
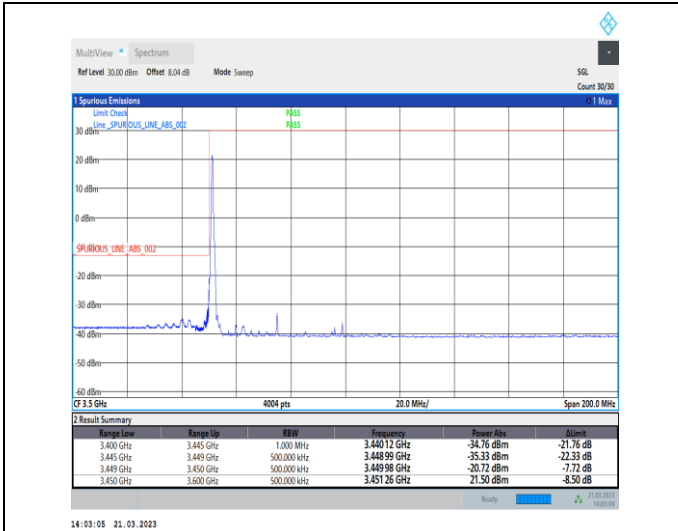
1-N78-3450-3550-30-40-H-6-CP-QPSK-Outer\_Full -106@0-Ant0-1--PASS-see graph



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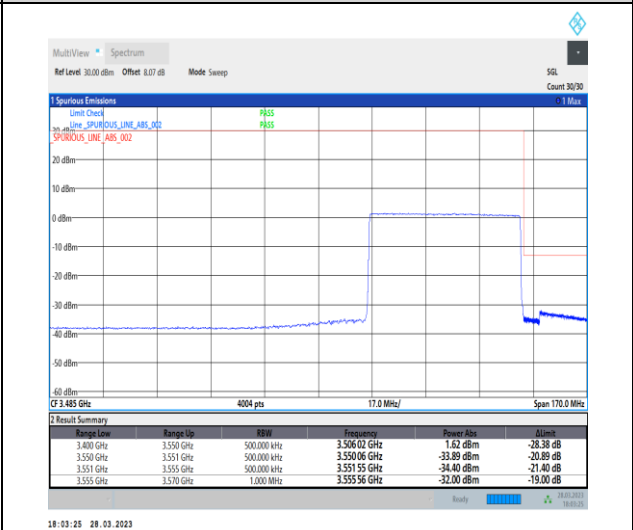
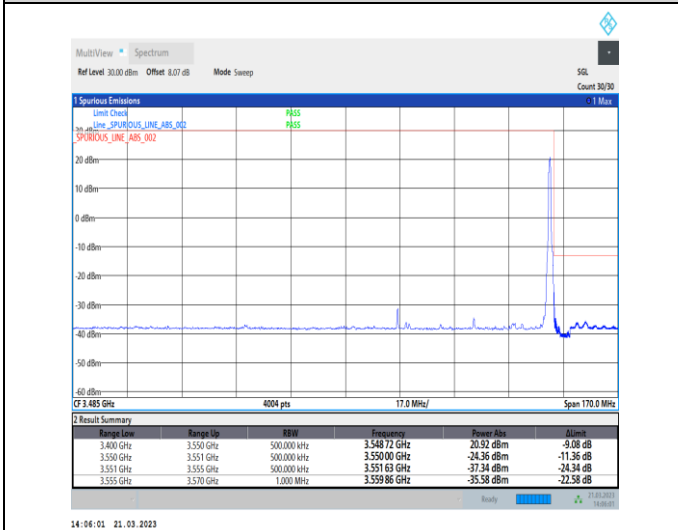
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1-N78-3450-3550-30-50-L-4-CP-QPSK-Edge\_1RB\_Lef t-1@0-Ant0-1--PASS-see graph

1-N78-3450-3550-30-50-L-6-CP-QPSK-Outer\_Full -133@0-Ant0-1--PASS-see graph



1-N78-3450-3550-30-50-H-5-CP-QPSK-Edge\_1RB\_Ri ght-1@132-Ant0-1--PASS-see graph

1-N78-3450-3550-30-50-H-6-CP-QPSK-Outer\_Full -133@0-Ant0-1--PASS-see graph



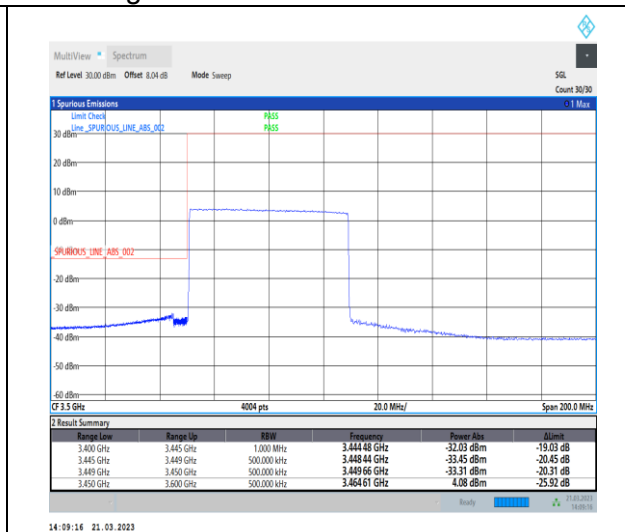
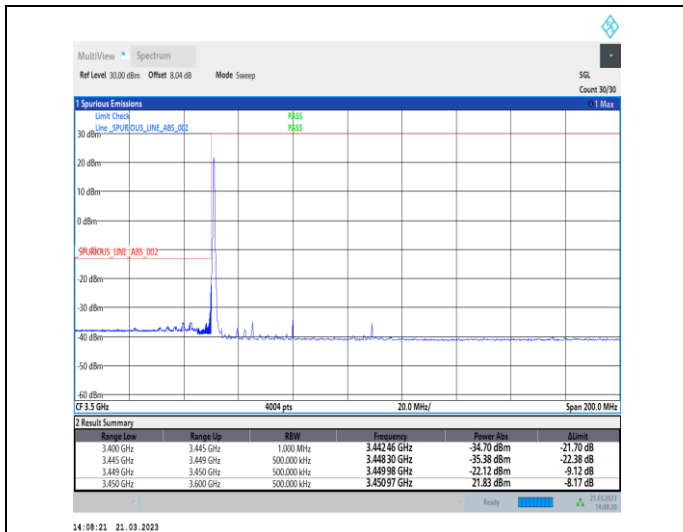
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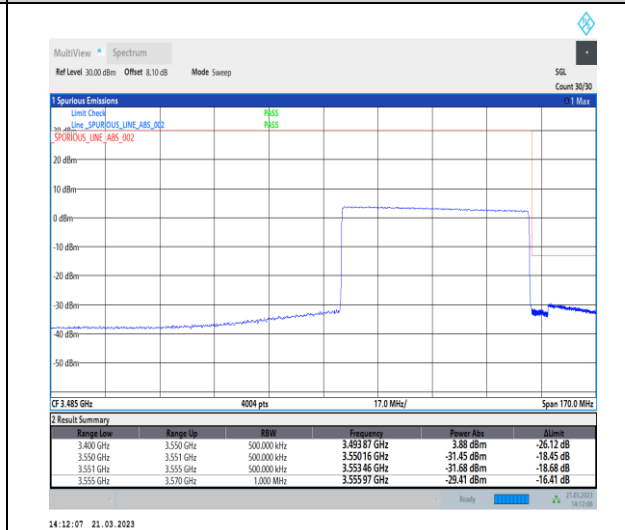
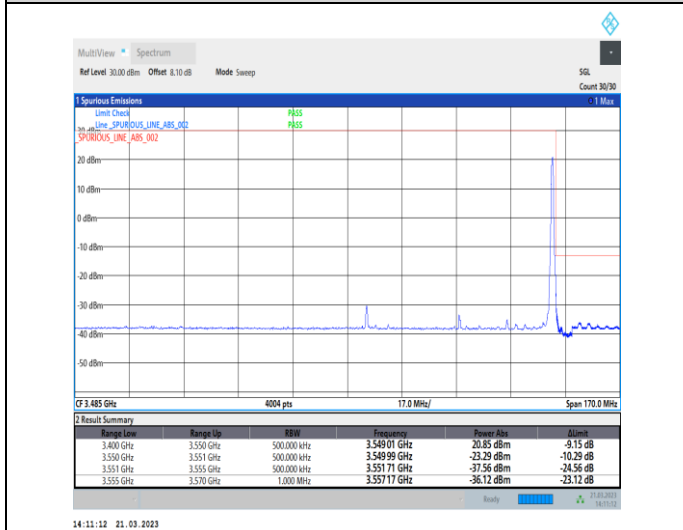
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1-N78-3450-3550-30-60-L-4-CP-QPSK-Edge\_1RB\_Lef t-1@0-Ant0-1--PASS-see graph

1-N78-3450-3550-30-60-L-6-CP-QPSK-Outer\_Full -162@0-Ant0-1--PASS-see graph



1-N78-3450-3550-30-60-H-5-CP-QPSK-Edge\_1RB\_Ri ght-1@161-Ant0-1--PASS-see graph

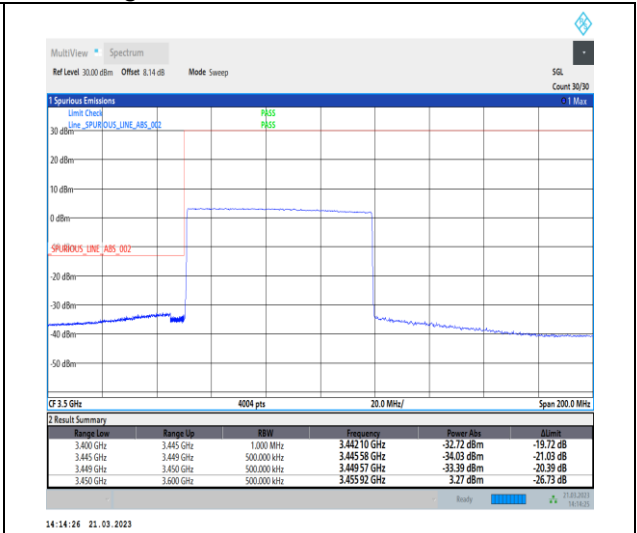
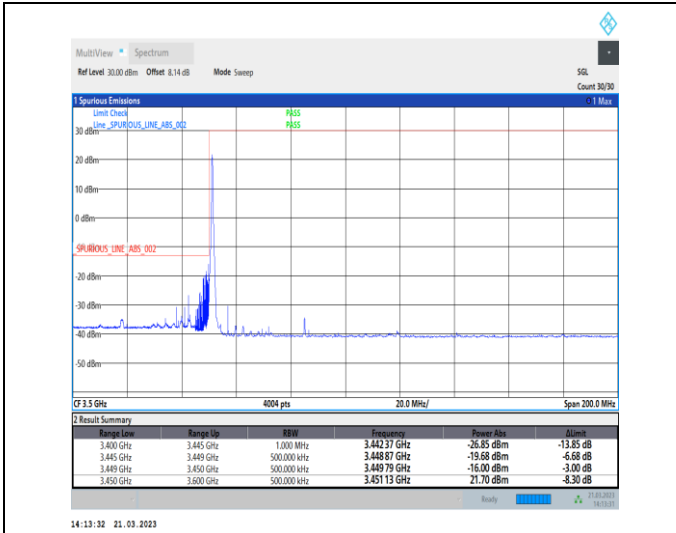
1-N78-3450-3550-30-60-H-6-CP-QPSK-Outer\_Full -162@0-Ant0-1--PASS-see graph



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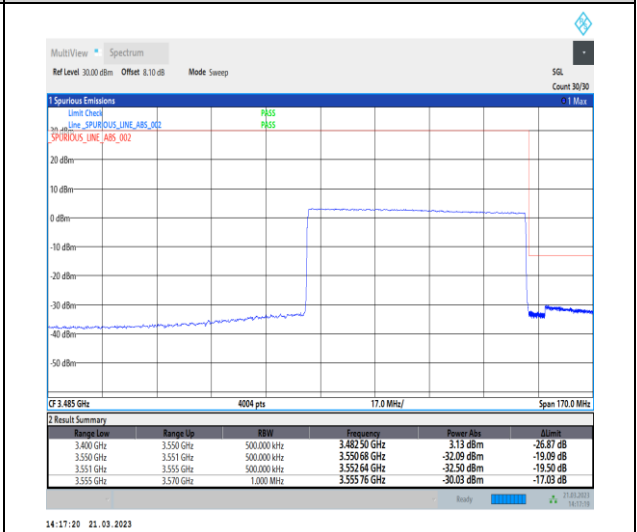
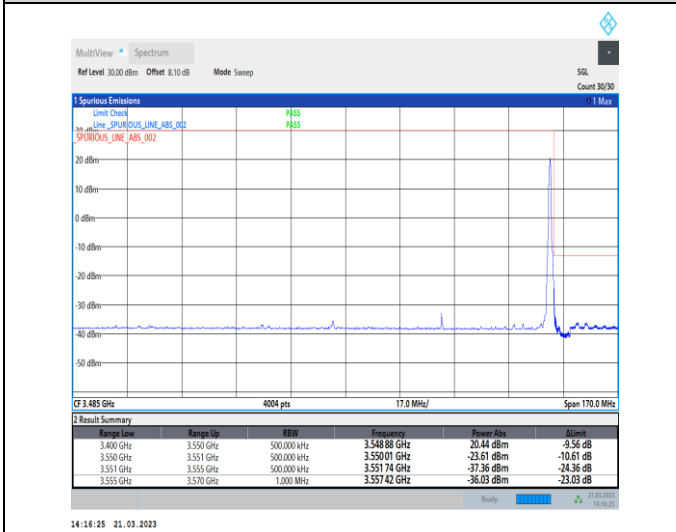
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1-N78-3450-3550-30-70-L-4-CP-QPSK-Edge\_1RB\_Lef t-1@0-Ant0-1--PASS-see graph

1-N78-3450-3550-30-70-L-6-CP-QPSK-Outer\_Full -189@0-Ant0-1--PASS-see graph



1-N78-3450-3550-30-70-H-5-CP-QPSK-Edge\_1RB\_Ri ght-1@188-Ant0-1--PASS-see graph

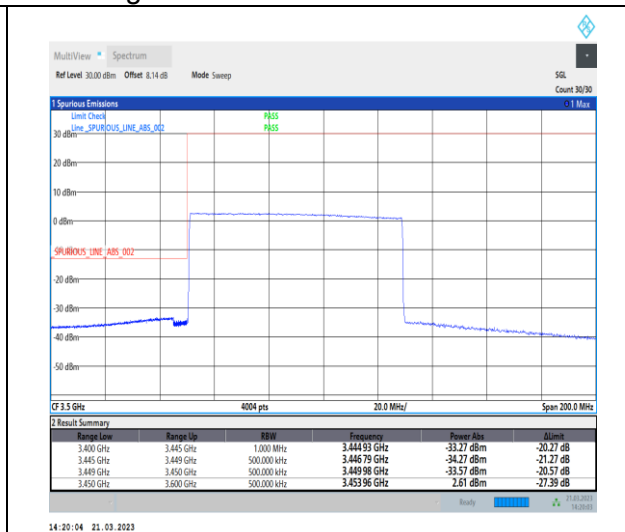
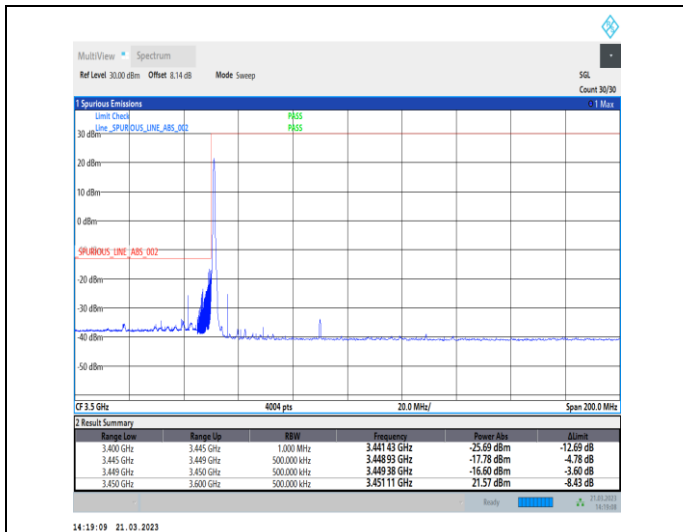
1-N78-3450-3550-30-70-H-6-CP-QPSK-Outer\_Full -189@0-Ant0-1--PASS-see graph



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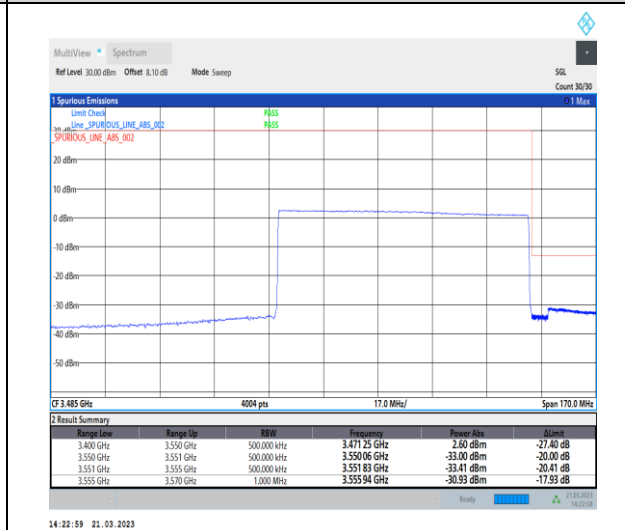
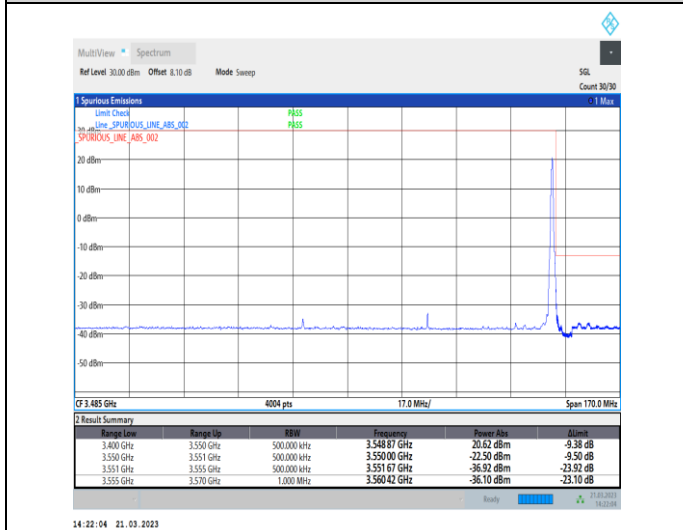
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1-N78-3450-3550-30-80-L-4-CP-QPSK-Edge\_1RB\_Lef t-1@0-Ant0-1--PASS-see graph

1-N78-3450-3550-30-80-L-6-CP-QPSK-Outer\_Full -217@0-Ant0-1--PASS-see graph



1-N78-3450-3550-30-80-H-5-CP-QPSK-Edge\_1RB\_Ri ght-1@216-Ant0-1--PASS-see graph

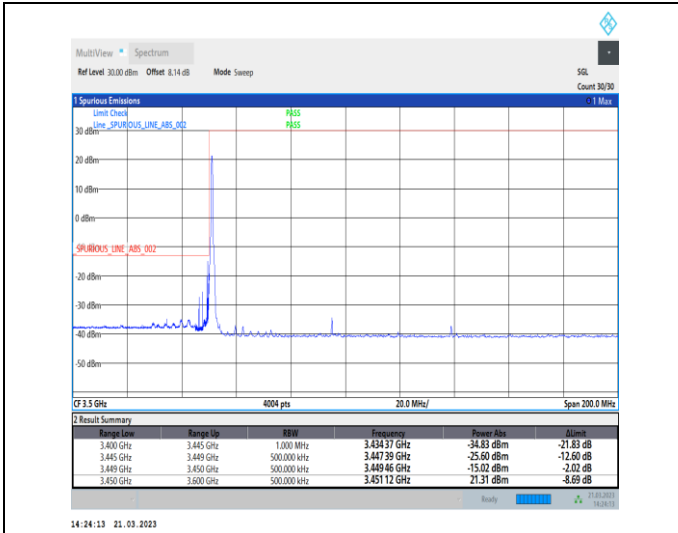
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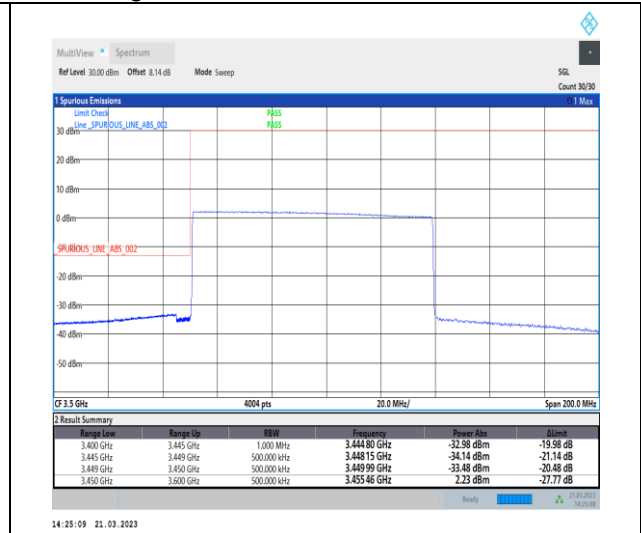
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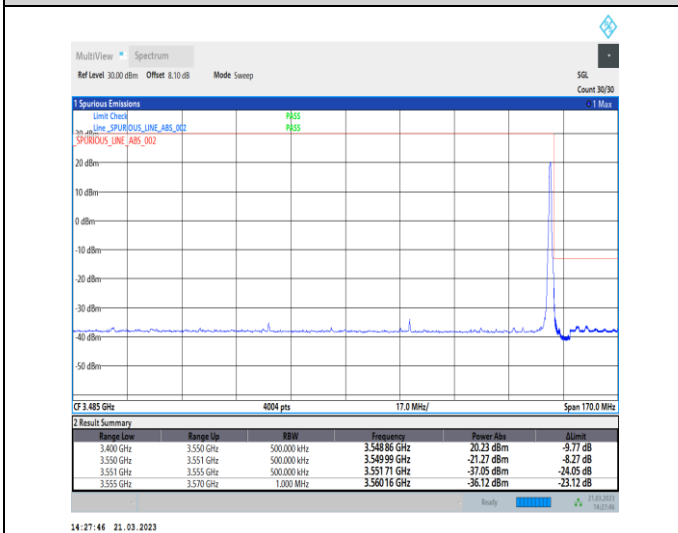
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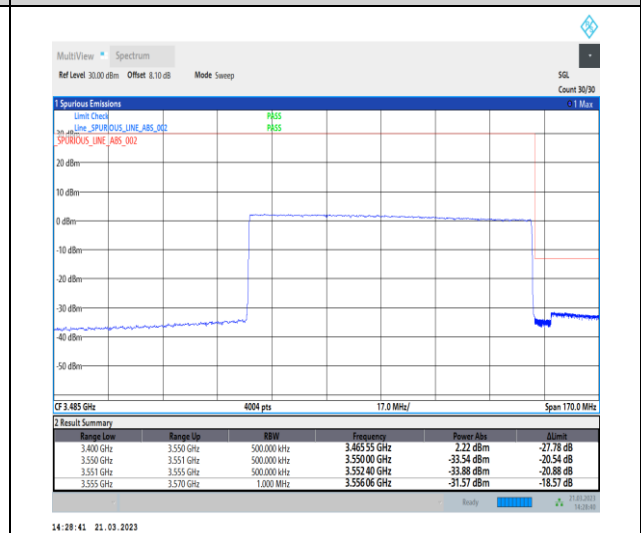
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1-N78-3450-3550-30-90-L-6-CP-QPSK-Outer\_Full -245@0-Ant0-1--PASS-see graph



1-N78-3450-3550-30-90-H-5-CP-QPSK-Edge\_1RB\_Ri ght-1@244-Ant0-1--PASS-see graph



1-N78-3450-3550-30-90-H-6-CP-QPSK-Outer\_Full -245@0-Ant0-1--PASS-see graph



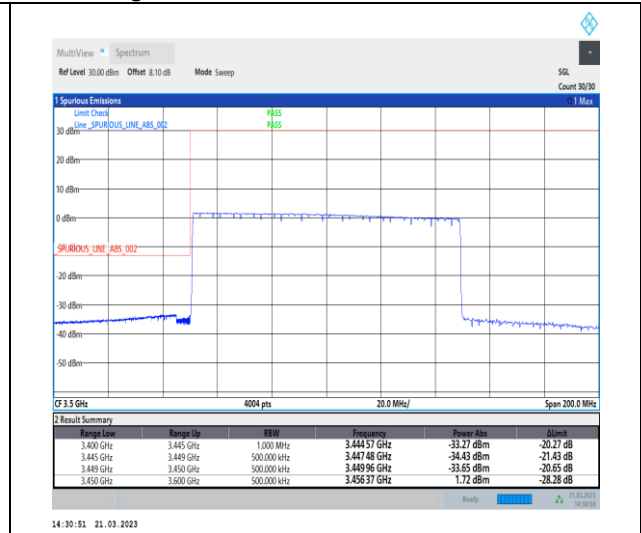
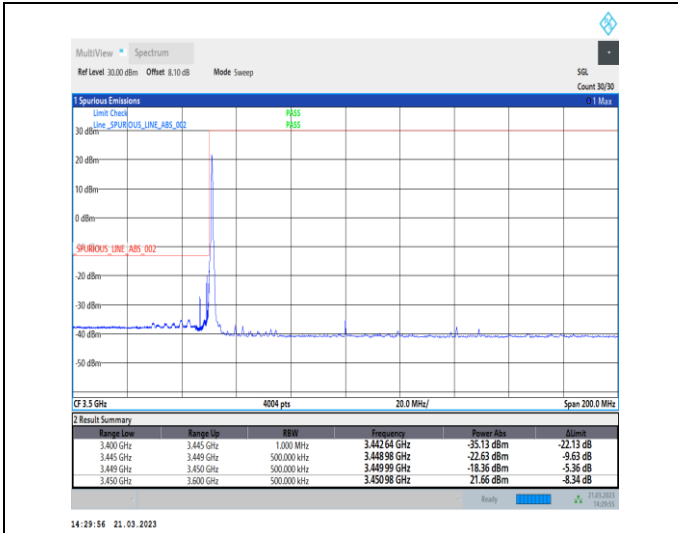
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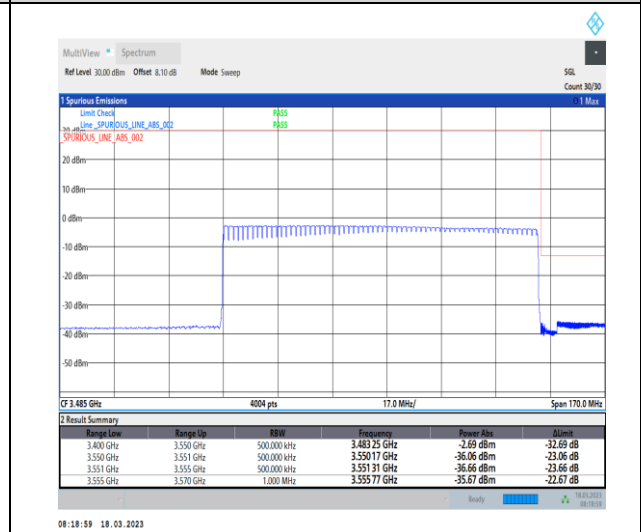
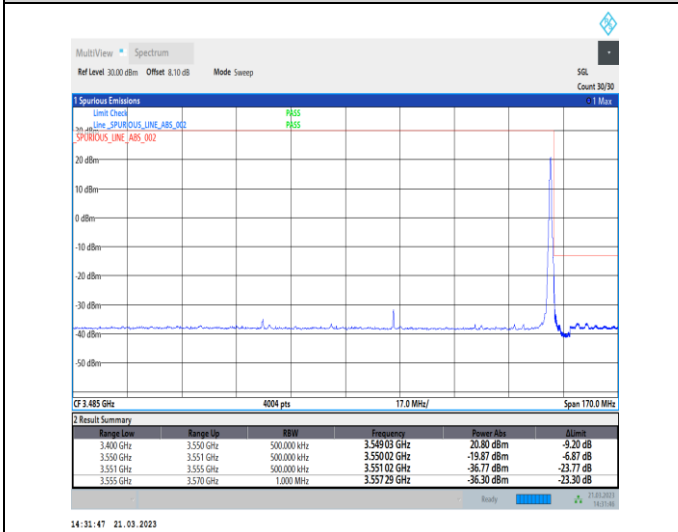
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1-N78-3450-3550-30-100-L-4-CP-QPSK-Edge\_1RB\_L  
eft-1@0-Ant0-1--PASS-see graph

1-N78-3450-3550-30-100-L-6-CP-QPSK-Outer\_Fu  
II-273@0-Ant0-1--PASS-see graph



1-N78-3450-3550-30-100-H-5-CP-QPSK-Edge\_1RB\_R  
ight-1@272-Ant0-1--PASS-see graph

1-N78-3450-3550-30-100-H-6-CP-QPSK-Outer\_F  
ull-273@0-Ant0-1--PASS-see graph



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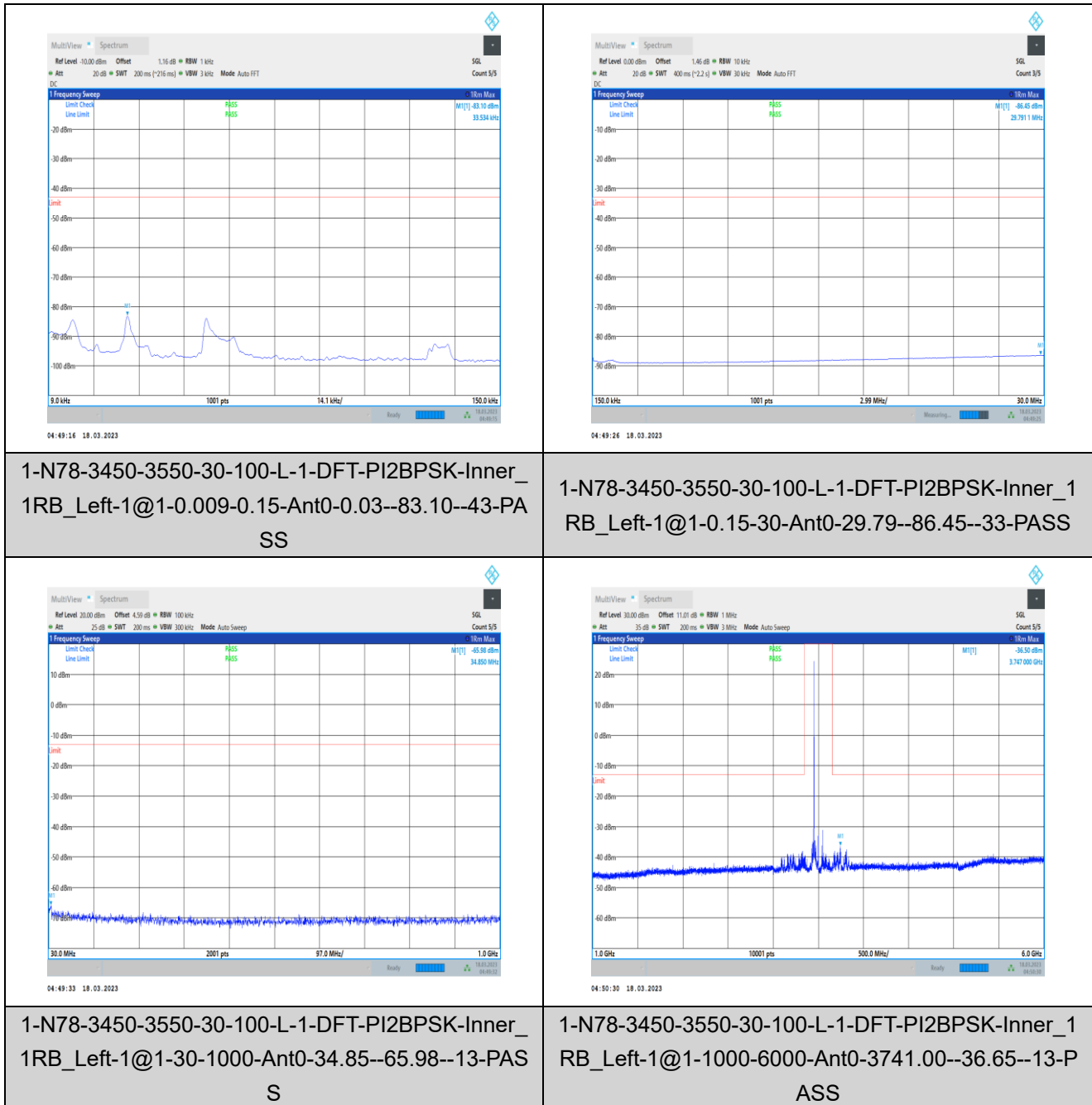
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### Test Graphs

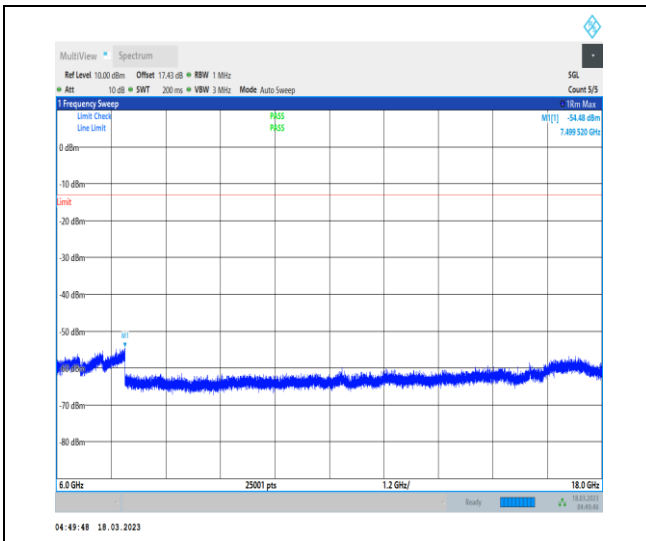


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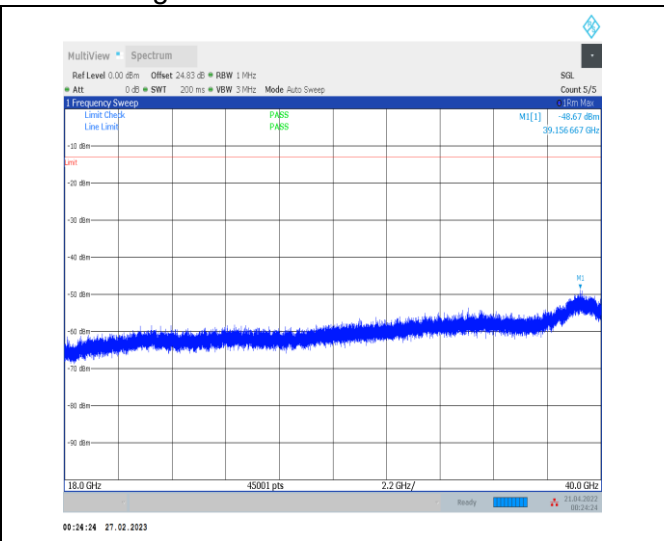
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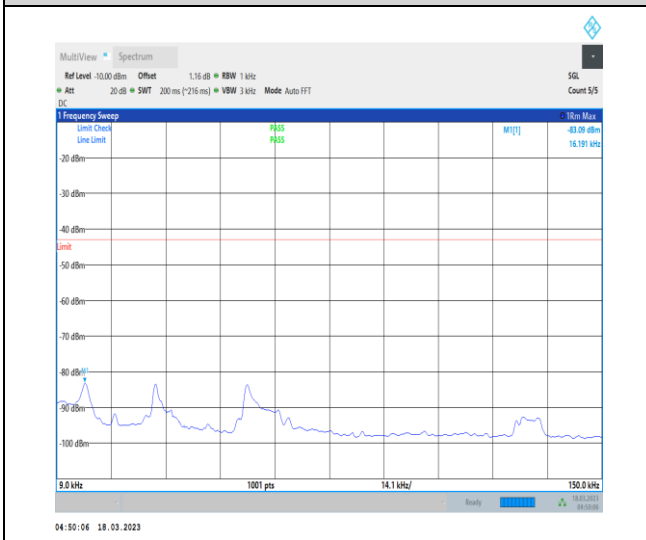




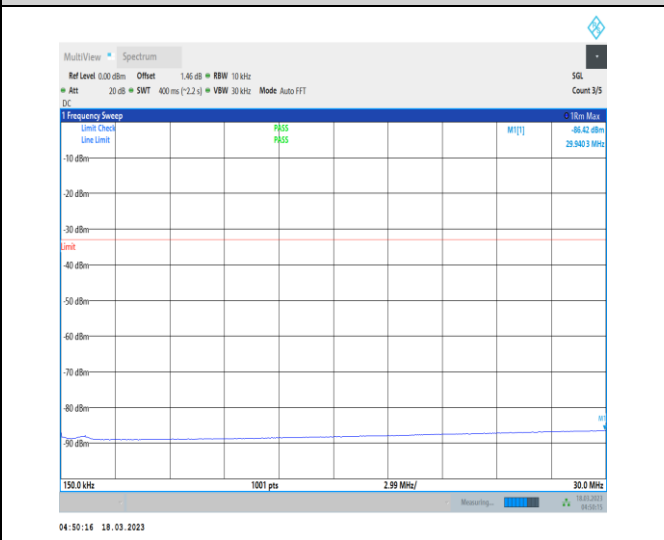
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1-N78-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant0-18000.00--58.72--1 3-PASS



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant0-0.02--83.09--43-PASS



1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant0-29.94--86.42--33-PASS



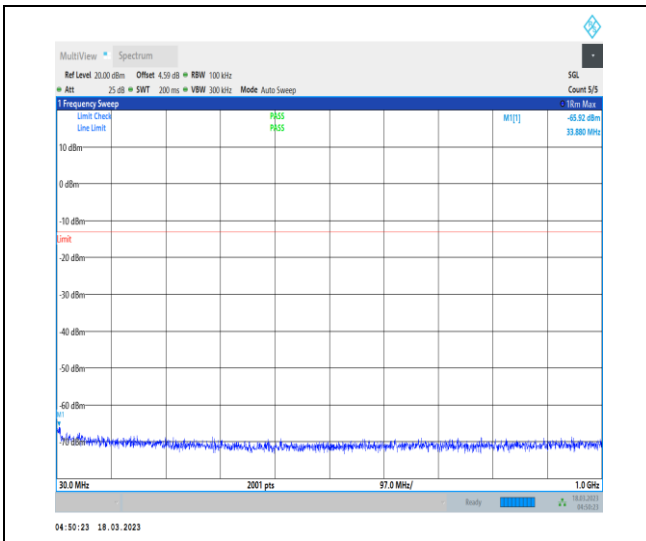
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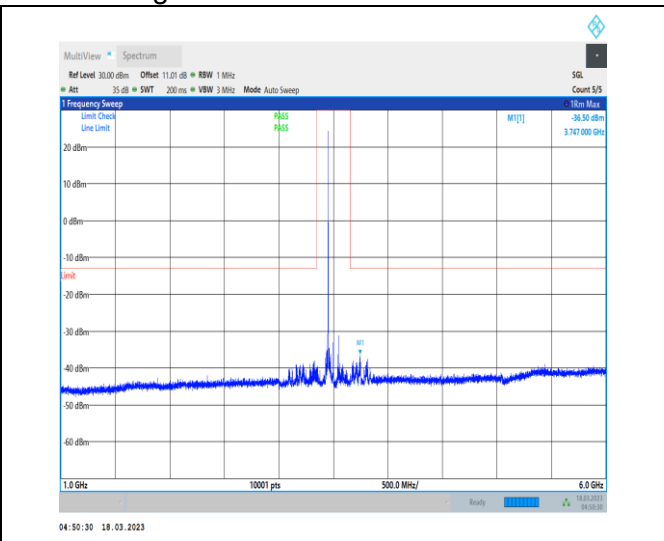
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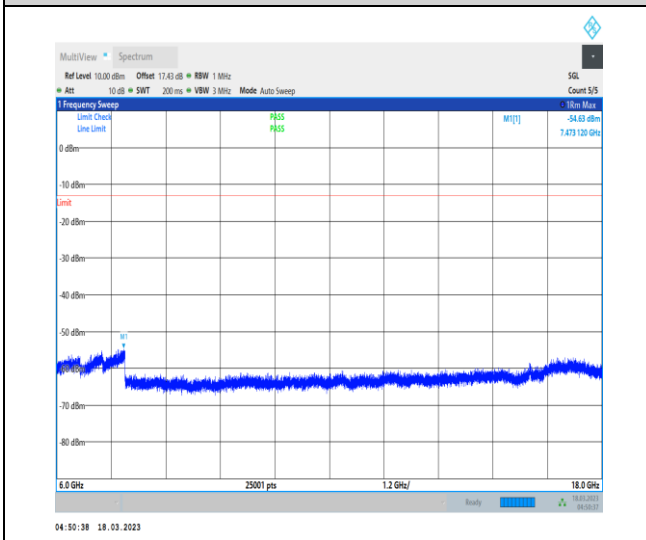
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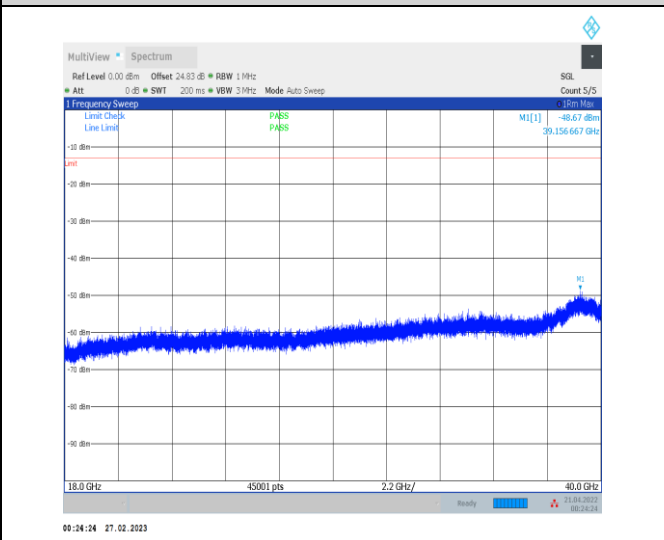
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1-N78-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant0-3747.00--36.50--13-PASS



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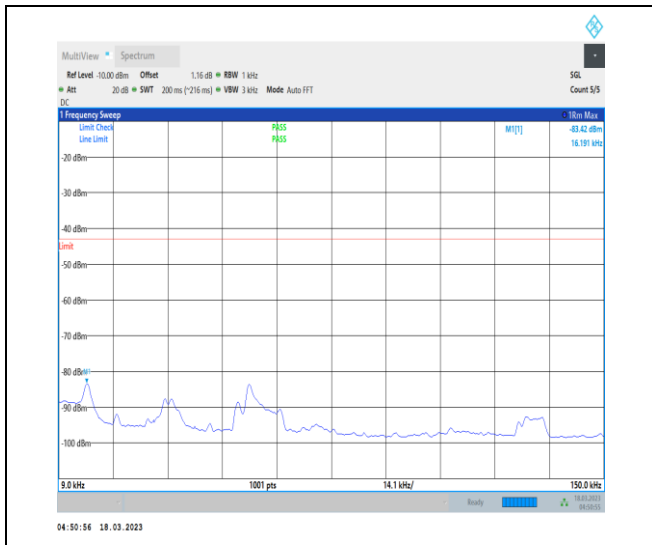
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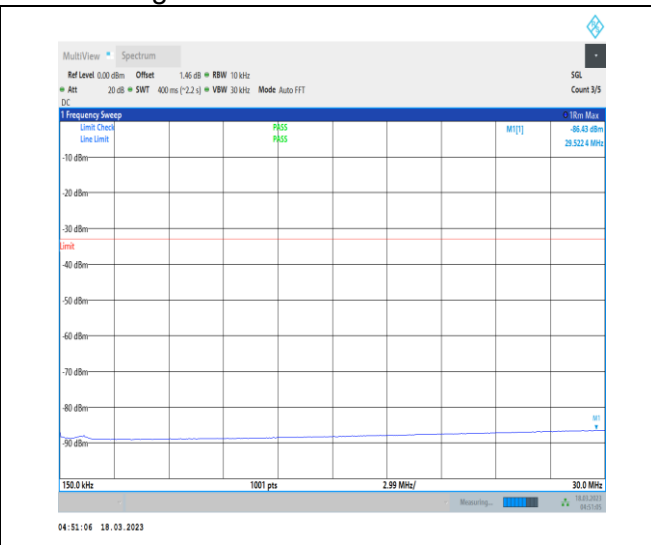
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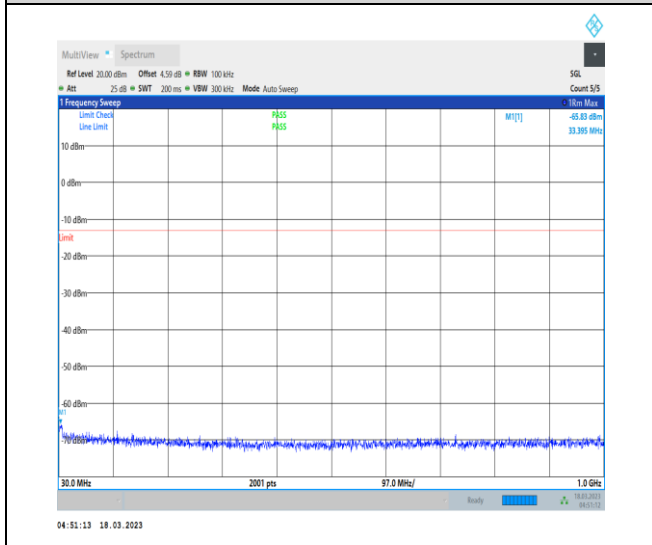
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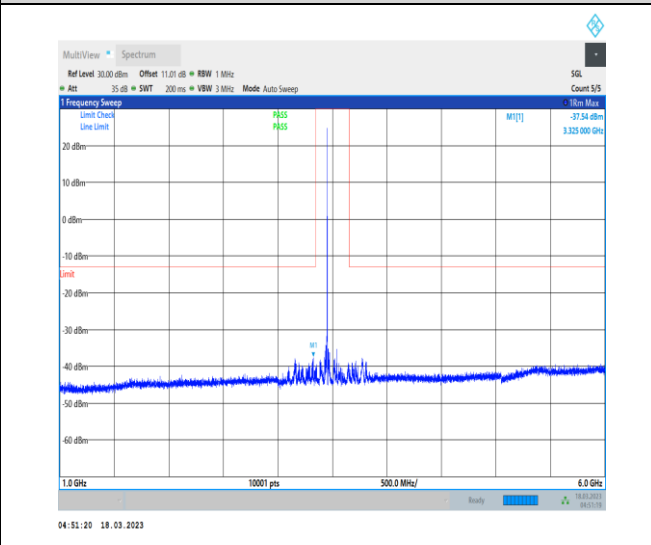
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1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant0-29.52--86.43--33-PASS



1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant0-33.40--65.83--13-PASS



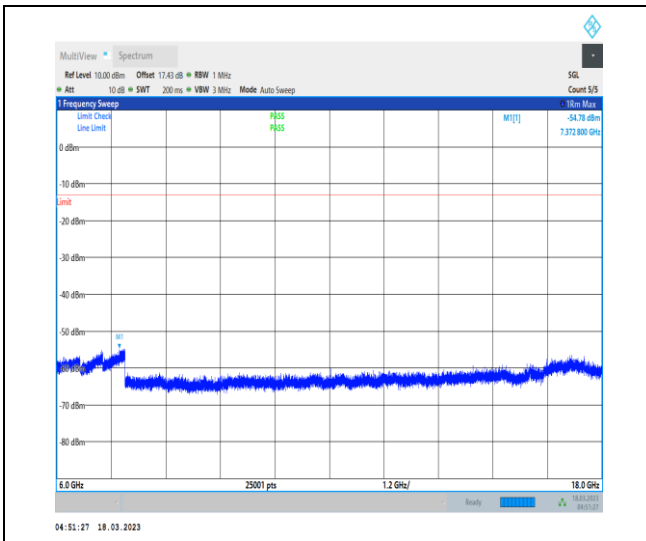
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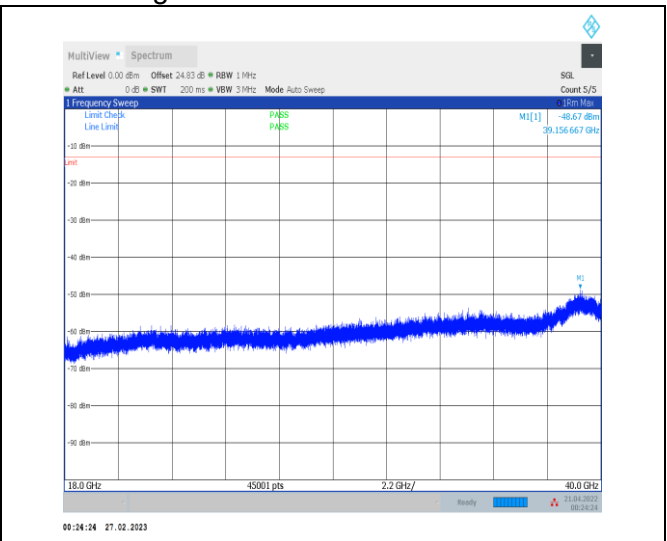
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1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant0-7372.80--54.78--1  
3-PASS



1-N78-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant0-18000.00--59.03--1  
3-PASS



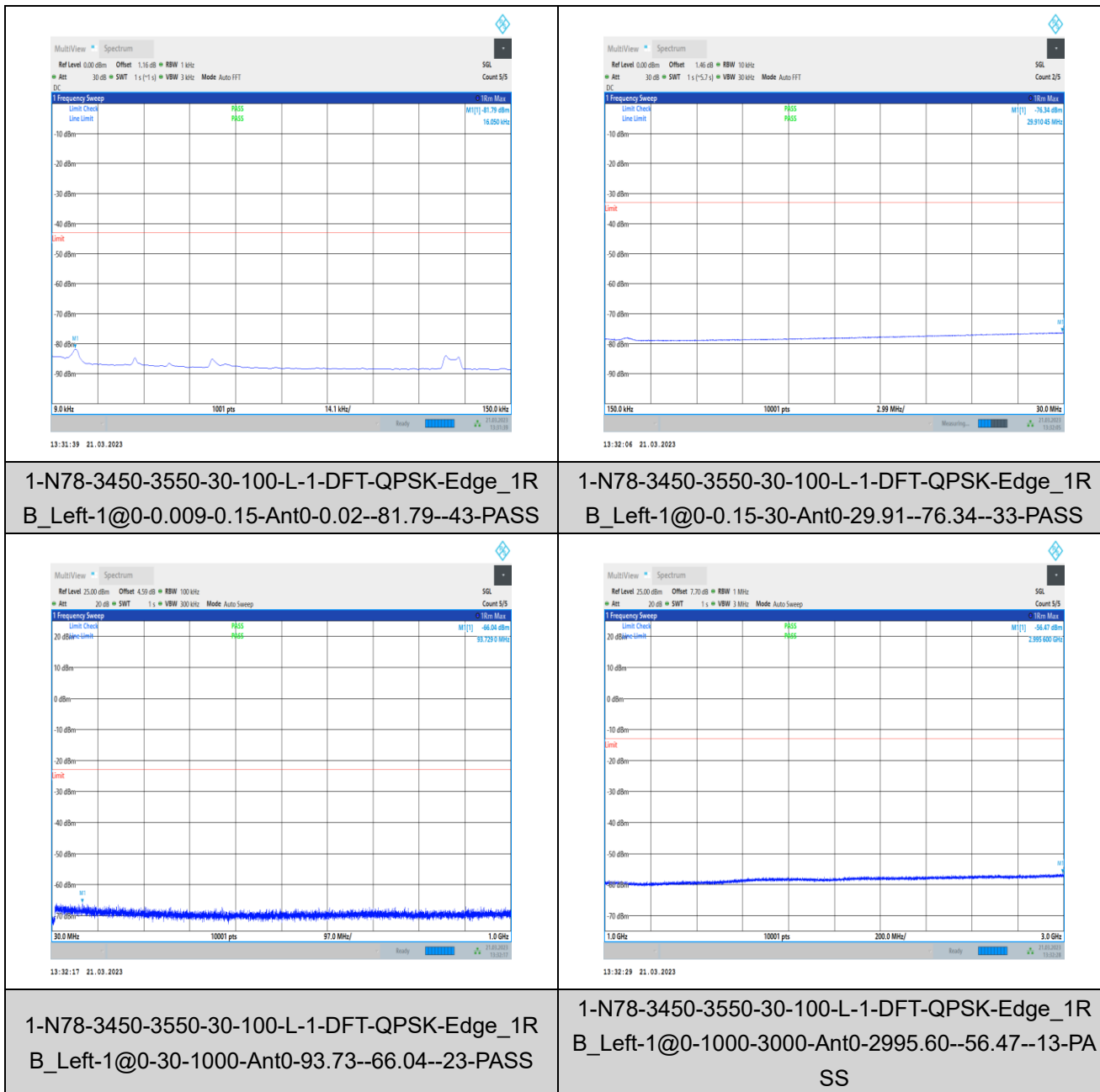
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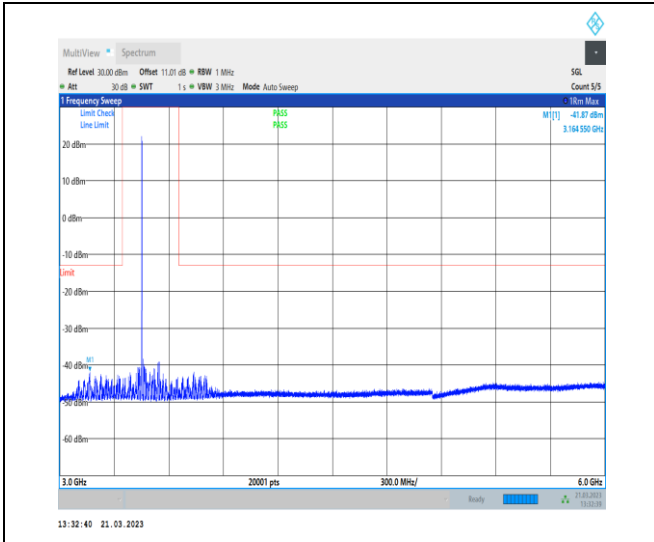
### Test Graphs



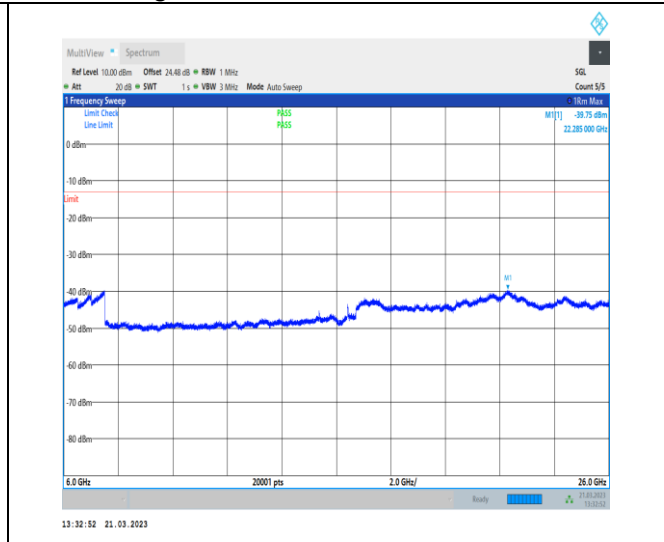
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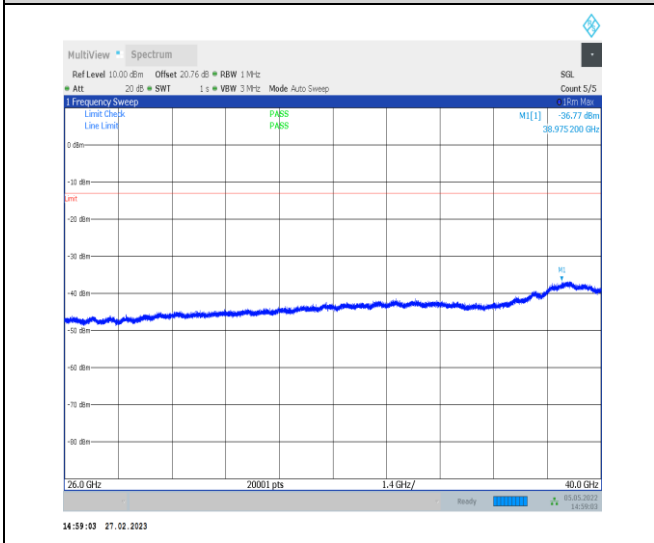
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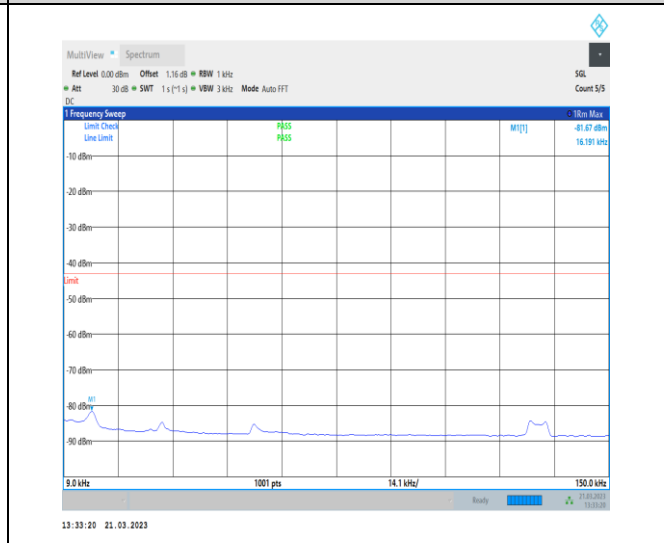
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SS



1-N78-3450-3550-30-100-L-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-6000-26000-Ant0-22285.00--39.75--13-  
PASS



1-N78-3450-3550-30-100-L-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-26000-40000-Ant0-26000.00--45.34--13  
-PASS



1-N78-3450-3550-30-100-M-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-0.009-0.15-Ant0-0.02--81.67--43-PASS



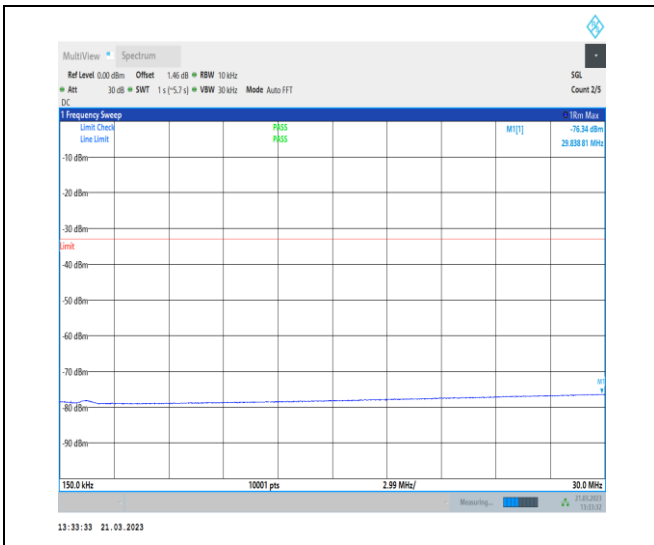
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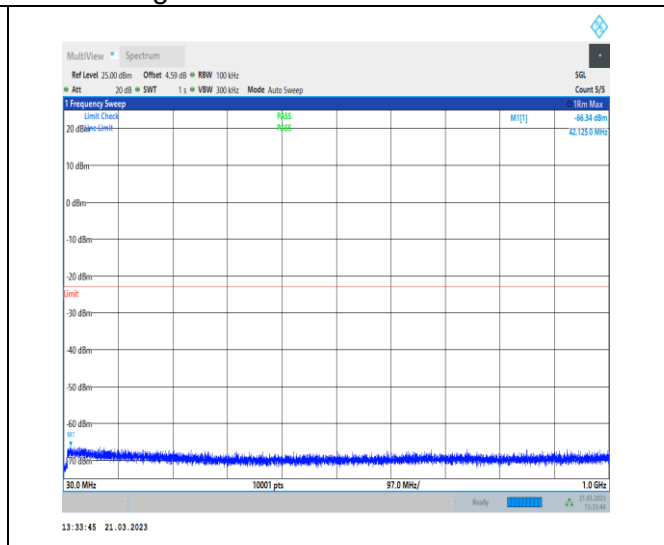
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t (86-512) 62992980 sgs.china@sgs.com

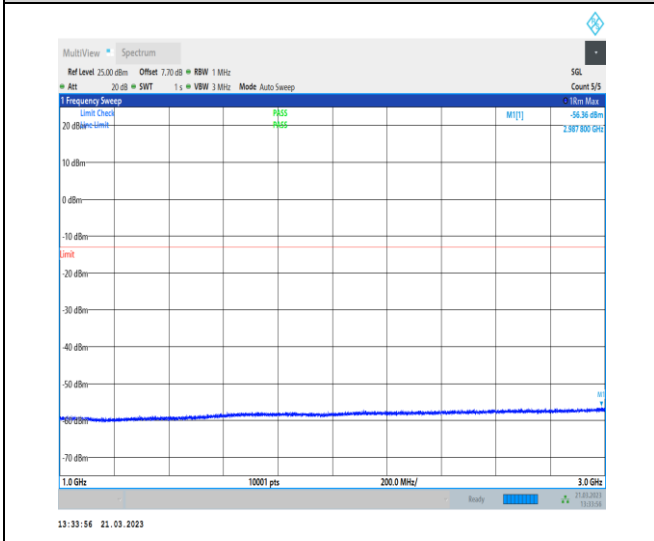
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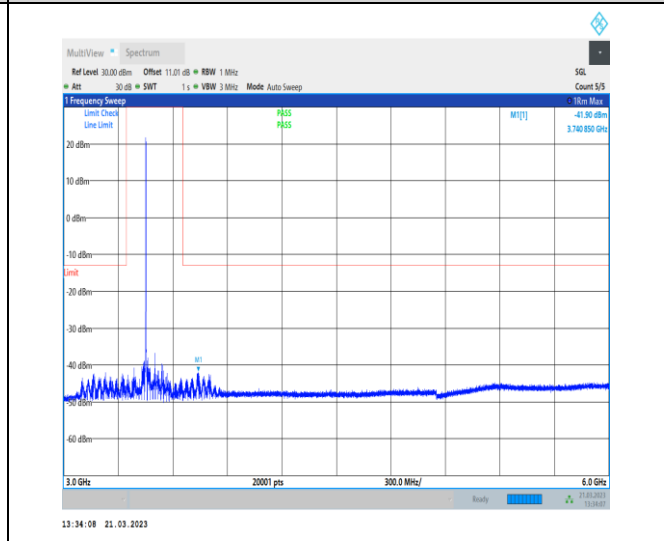


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1-N78-3450-3550-30-100-M-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-1000-3000-Ant0-2987.80--56.36--13-PA

SS



1-N78-3450-3550-30-100-M-1-DFT-QPSK-Edge\_1R  
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SS

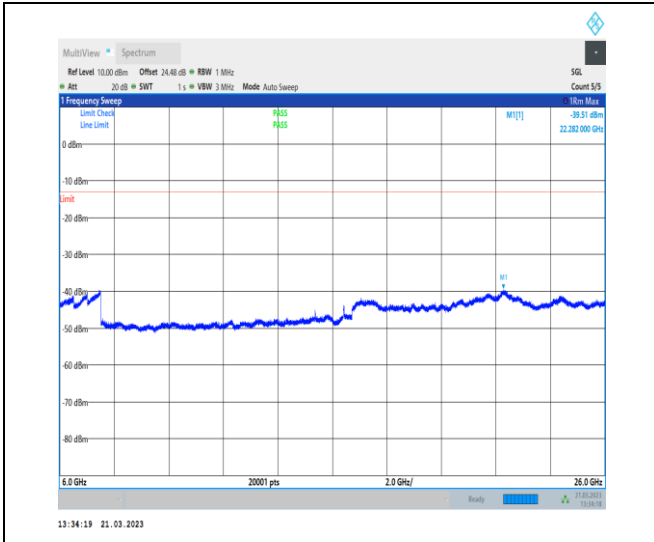


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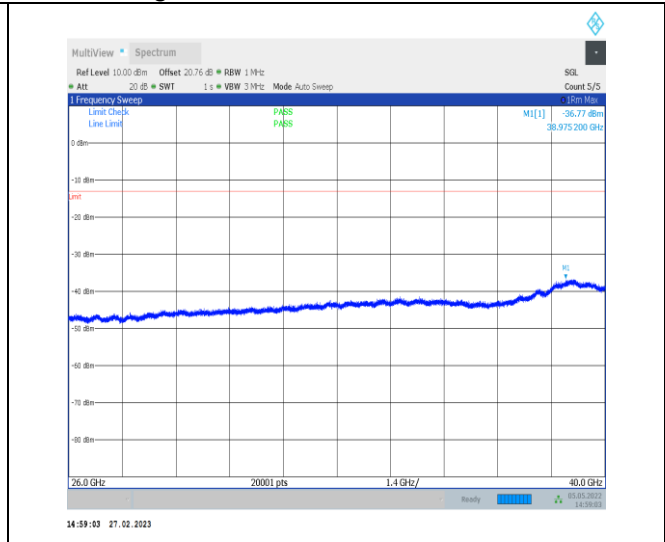
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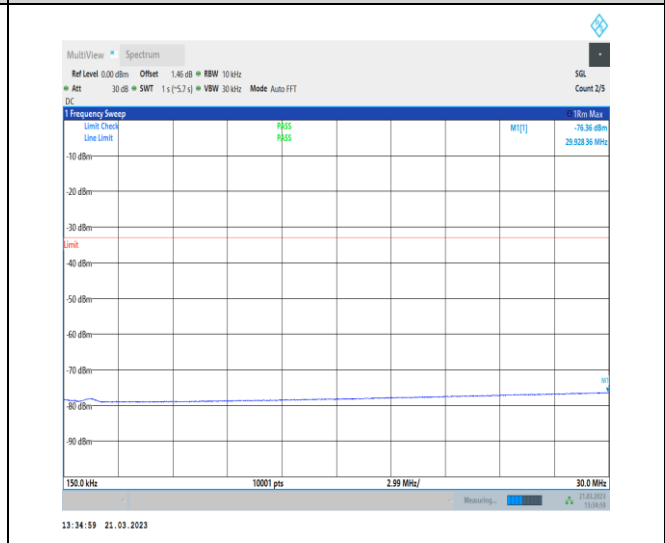
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PASS



1-N78-3450-3550-30-100-M-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-26000-40000-Ant0-26000.00--45.11--13  
-PASS



1-N78-3450-3550-30-100-H-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-0.009-0.15-Ant0-0.02--81.37--43-PASS



1-N78-3450-3550-30-100-H-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-0.15-30-Ant0-29.93--76.36--33-PASS

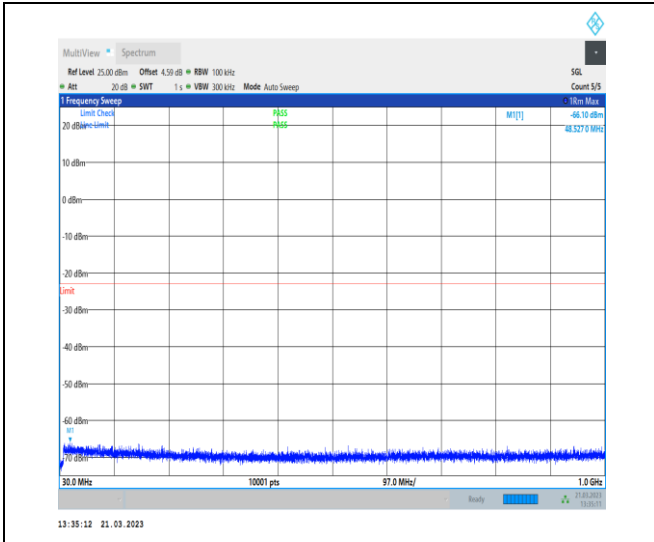


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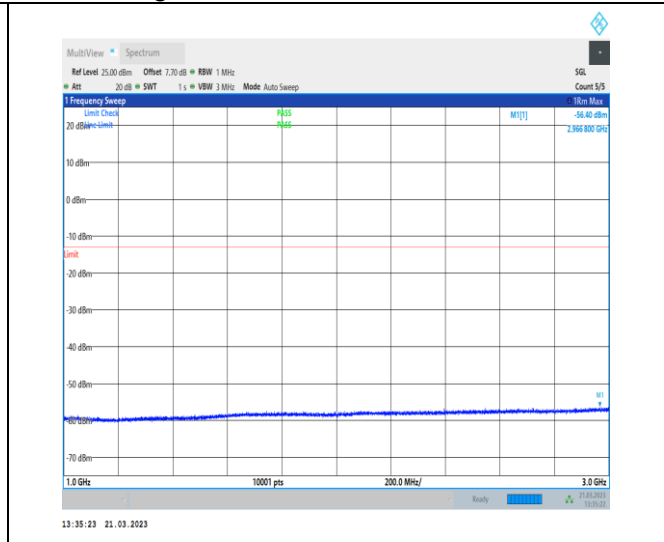
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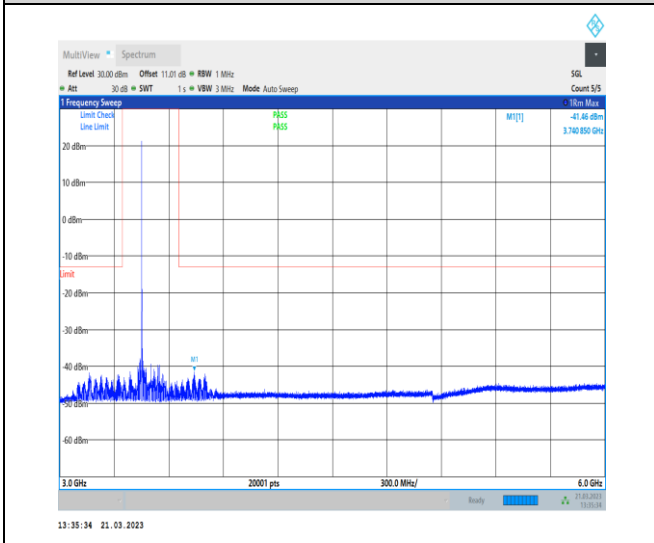




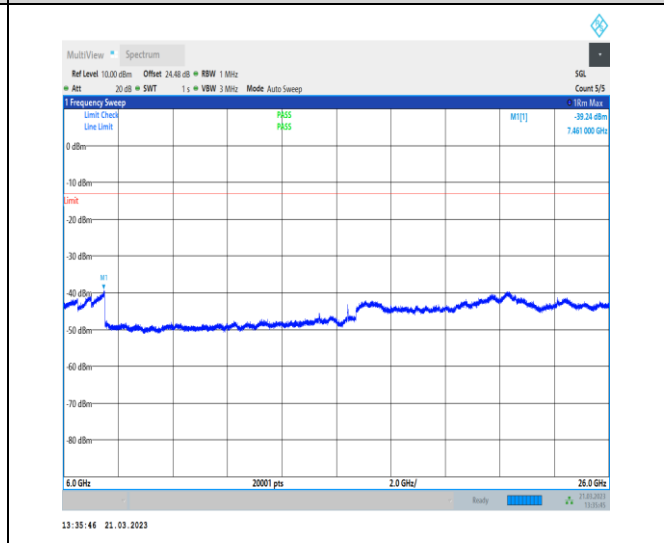
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1-N78-3450-3550-30-100-H-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-1000-3000-Ant0-2966.80--56.40--13-PA  
SS



1-N78-3450-3550-30-100-H-1-DFT-QPSK-Edge\_1R  
B\_Left-1@0-3000-6000-Ant0-3740.85--41.46--13-PA  
SS



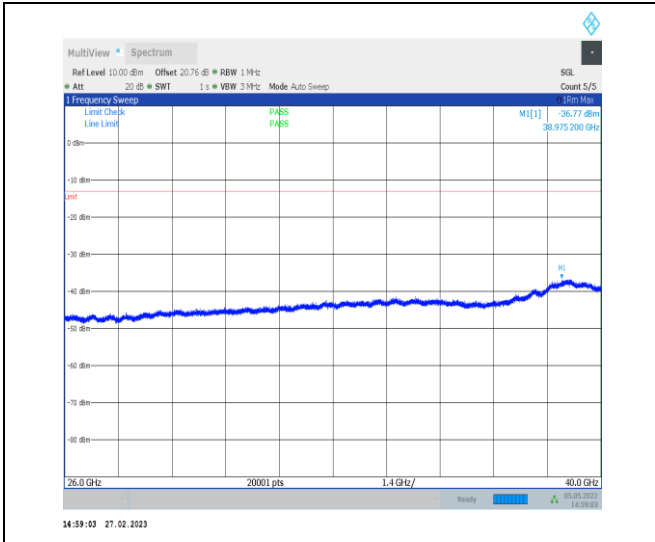
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B\_Left-1@0-6000-26000-Ant0-7461.00--39.24--13-P  
ASS



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1-N78-3450-3550-30-100-H-1-DFT-QPSK-Edge\_1R  
 B\_Left-1@0-26000-40000-Ant0-26000.00--45.40--13  
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## Field Strength of Spurious Radiation

Test Band = SA Band78 \_100MHz\_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]	Height [cm]	Angle [°]	Polarity
1	7444.15	41.17	-42.96	36.47	-60.58	-13.00	47.58	228	300	Horizontal
2	8884.525	39.02	-40.95	38.13	-59.05	-13.00	46.05	174	269	Horizontal
3	9619.375	37.53	-39.25	38.42	-58.57	-13.00	45.57	154	286	Horizontal
4	11584.725	33.76	-36.91	38.91	-59.50	-13.00	46.50	165	239	Horizontal
5	14495.95	32.50	-34.26	40.01	-57.01	-13.00	44.01	128	269	Horizontal
6	15820.175	31.76	-33.28	38.17	-58.61	-13.00	45.61	136	179	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	7434.95	41.91	-42.92	36.47	-59.80	-13.00	46.80	245	43	Vertical
2	8654.525	39.47	-41.14	37.84	-59.09	-13.00	46.09	165	4	Vertical
3	10107.55	36.02	-38.74	38.66	-59.32	-13.00	46.32	188	360	Vertical
4	12275.3	33.99	-36.76	39.11	-58.92	-13.00	45.92	192	352	Vertical
5	14218.8	36.02	-35.41	40.22	-54.44	-13.00	41.44	144	14	Vertical
6	15803.5	31.39	-33.10	38.19	-58.77	-13.00	45.77	172	343	Vertical



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Report No.: SEWM2311000473RG02

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Test Band = SA Band78 \_100MHz\_ULMIMO 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]	Height [cm]	Angle [°]	Polarity
1	7168.725	41.74	-43.63	36.52	-60.63	-13.00	47.63	248	255	Horizontal
2	8027.775	39.79	-41.91	37.02	-60.36	-13.00	47.36	174	316	Horizontal
3	9001.25	38.91	-40.86	38.20	-59.01	-13.00	46.01	125	352	Horizontal
4	10060.975	36.69	-38.97	38.59	-58.95	-13.00	45.95	163	270	Horizontal
5	11495.6	33.85	-36.55	39.00	-58.96	-13.00	45.96	255	120	Horizontal
6	13605.85	33.56	-36.04	40.14	-57.59	-13.00	44.59	199	352	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	7325.125	40.91	-43.19	36.53	-61.01	-13.00	48.01	241	360	Vertical
2	7968.55	40.75	-42.32	36.97	-59.86	-13.00	46.86	136	330	Vertical
3	10100.65	36.08	-38.70	38.65	-59.23	-13.00	46.23	256	75	Vertical
4	11173.025	34.34	-36.91	39.10	-58.73	-13.00	45.73	122	360	Vertical
5	13367.8	33.20	-36.38	40.11	-58.32	-13.00	45.32	174	313	Vertical
6	14619	32.68	-35.24	39.91	-57.90	-13.00	44.90	168	360	Vertical



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Test Band = NSA 2A\_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	5415.75	42.75	-45.10	32.82	-64.80	-13.00	51.80	131	82	Horizontal
2	7074.75	40.90	-43.86	36.27	-61.95	-13.00	48.95	284	5	Horizontal
3	8933.8333	35.84	-40.97	38.16	-62.23	-13.00	49.23	145	360	Horizontal
4	10706.5833	28.00	-38.19	39.15	-66.30	-13.00	53.30	190	232	Horizontal
5	12783.8333	26.93	-36.75	39.60	-65.48	-13.00	52.48	162	263	Horizontal
6	16440.75	27.73	-33.75	37.80	-63.47	-13.00	50.47	144	360	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	5625.1667	41.99	-44.89	33.11	-65.05	-13.00	52.05	265	209	Vertical
2	7656.3333	39.99	-42.95	36.50	-61.72	-13.00	48.72	138	48	Vertical
3	8937.9167	35.42	-40.96	38.16	-62.63	-13.00	49.63	194	359	Vertical
4	10282.5	30.29	-39.02	38.83	-65.16	-13.00	52.16	277	338	Vertical
5	12803.6667	27.12	-36.74	39.63	-65.25	-13.00	52.25	153	359	Vertical
6	16433.75	27.94	-33.79	37.79	-63.32	-13.00	50.32	216	360	Vertical



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Report No.: SEWM2311000473RG02

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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]	Height [cm]	Angle [°]	Polarity
1	5761.6667	42.57	-44.68	33.61	-63.76	-13.00	50.76	219	65	Horizontal
2	7393.8333	42.50	-43.29	36.49	-59.55	-13.00	46.55	226	49	Horizontal
3	9322.3333	39.62	-39.96	38.43	-57.17	-13.00	44.17	174	275	Horizontal
4	10701.9167	36.36	-38.18	39.14	-57.93	-13.00	44.93	219	146	Horizontal
5	13711.9167	35.51	-36.14	40.04	-55.85	-13.00	42.85	238	225	Horizontal
6	16463.5	35.11	-33.60	37.85	-55.90	-13.00	42.90	140	360	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	5903.4167	43.02	-44.47	33.95	-62.76	-13.00	49.76	281	359	Vertical
2	7403.1667	42.69	-43.26	36.49	-59.34	-13.00	46.34	236	45	Vertical
3	8762.9167	40.12	-41.15	38.02	-58.27	-13.00	45.27	247	350	Vertical
4	11198.3333	36.35	-37.57	39.11	-57.37	-13.00	44.37	186	62	Vertical
5	13577.75	33.83	-35.94	40.15	-57.22	-13.00	44.22	299	360	Vertical
6	15071.0833	33.95	-34.68	39.12	-56.86	-13.00	43.86	167	360	Vertical



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Member of the SGS Group (SGS SA)

**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	5156.1667	43.81	-45.29	32.97	-63.78	-13.00	50.78	143	55	Horizontal
2	6104.0833	41.39	-44.01	34.17	-63.71	-13.00	50.71	281	329	Horizontal
3	7969	38.15	-42.42	36.97	-62.56	-13.00	49.56	249	201	Horizontal
4	9596.5	34.51	-39.07	38.44	-61.38	-13.00	48.38	165	314	Horizontal
5	11141.1667	29.14	-37.62	39.10	-64.64	-13.00	51.64	240	231	Horizontal
6	13773.75	27.84	-36.17	39.98	-63.60	-13.00	50.60	128	11	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	5977.5	42.56	-44.69	34.09	-63.31	-13.00	50.31	218	232	Vertical
2	7585.75	39.52	-42.93	36.40	-62.27	-13.00	49.27	146	151	Vertical
3	9466.4167	35.43	-39.96	38.47	-61.32	-13.00	48.32	230	266	Vertical
4	12250.0833	27.62	-37.08	39.11	-65.61	-13.00	52.61	187	282	Vertical
5	14475.5	25.94	-34.66	40.03	-63.95	-13.00	50.95	146	135	Vertical
6	16499.0833	27.76	-33.37	37.92	-62.94	-13.00	49.94	291	151	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

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	-3.600000	-0.001029	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.500000	-0.001000	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.600000	-0.001029	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-2.400000	-0.000686	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-2.100000	-0.000600	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-9.900000	-0.002829	PASS

#### Frequency Error VS. 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	-4.300000	-0.001229	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	0.400000	0.000114	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.600000	-0.000457	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-1.500000	-0.000429	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-9.400000	-0.002686	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.100000	-0.000600	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-7.900000	-0.002257	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-4.000000	-0.001143	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.600000	-0.000457	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-4.400000	-0.001257	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-0.100000	-0.000029	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-3.500000	-0.001000	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-1.900000	-0.000543	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-8.800000	-0.002514	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	-2.600000	-0.000743	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	-6.200000	-0.001771	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-3.500000	-0.001000	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-5.200000	-0.001486	PASS

---End of Attachment---



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