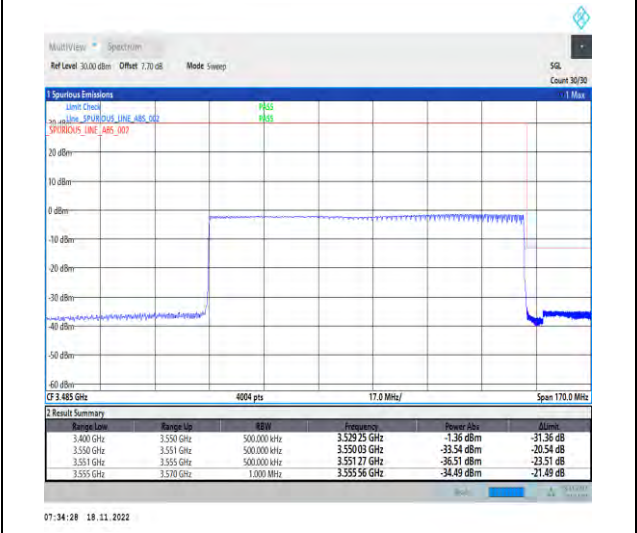
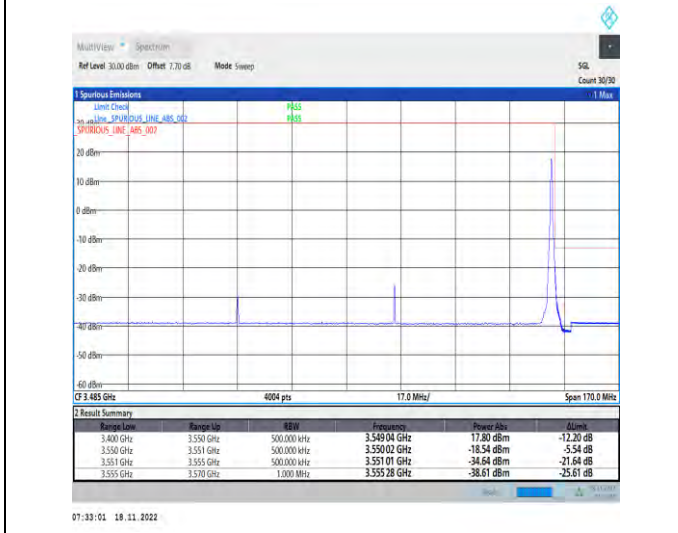


1-N78-3450-3550-PC2-30-100-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC2-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph

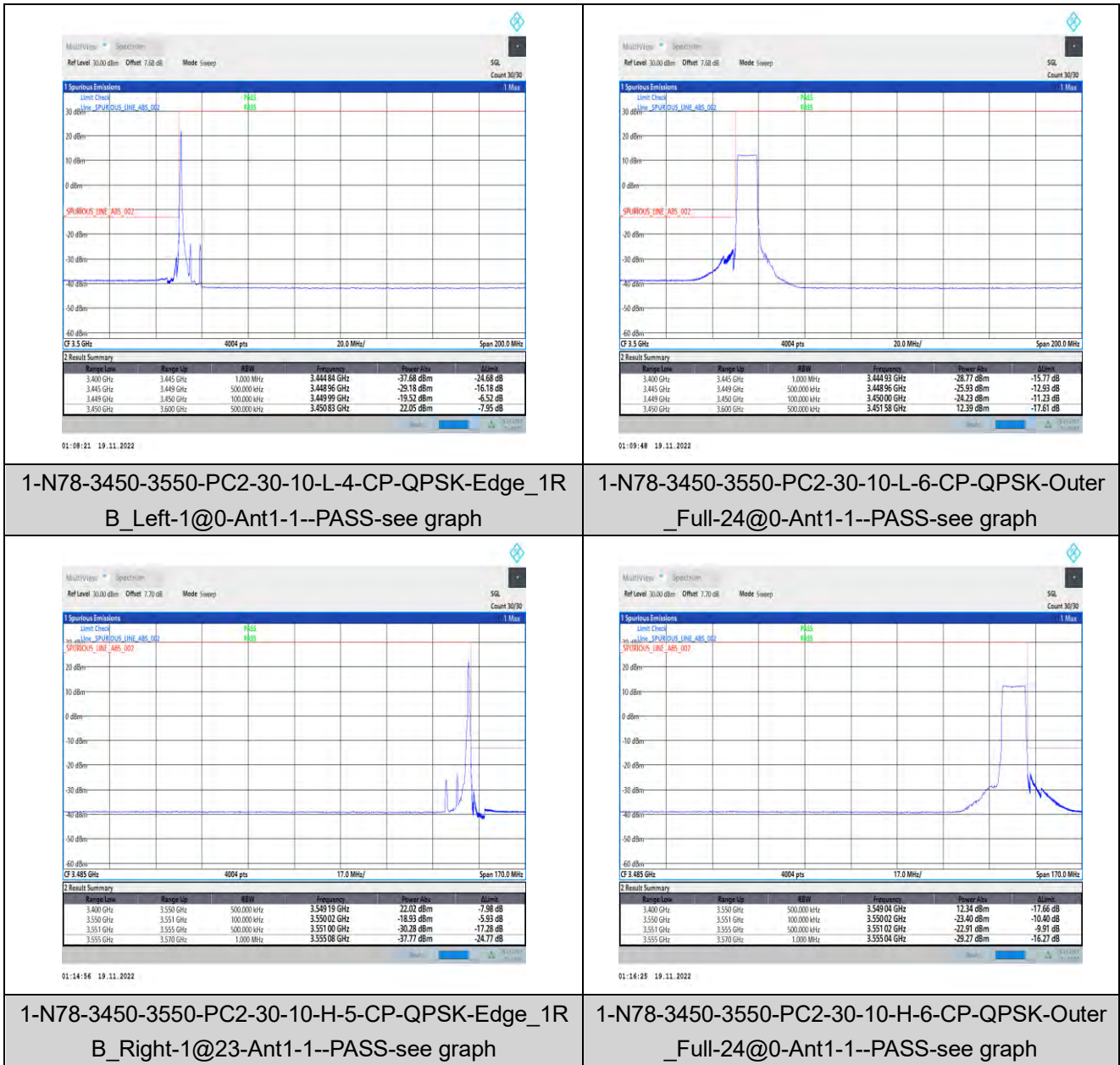


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Band Edge for MIMO

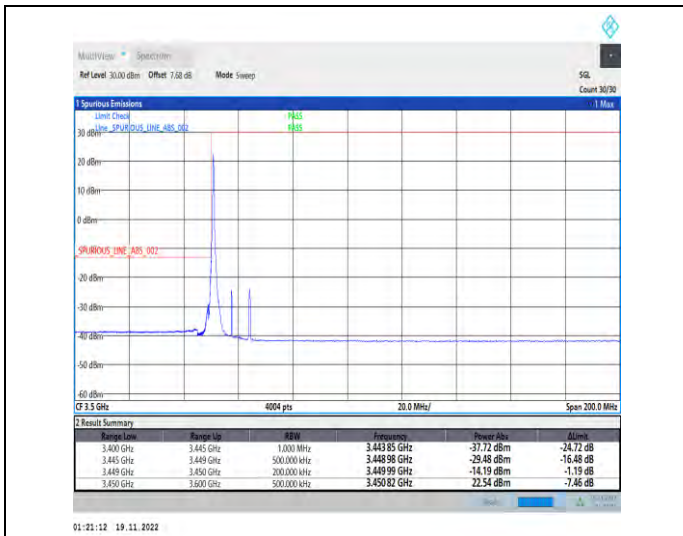
Test Graphs



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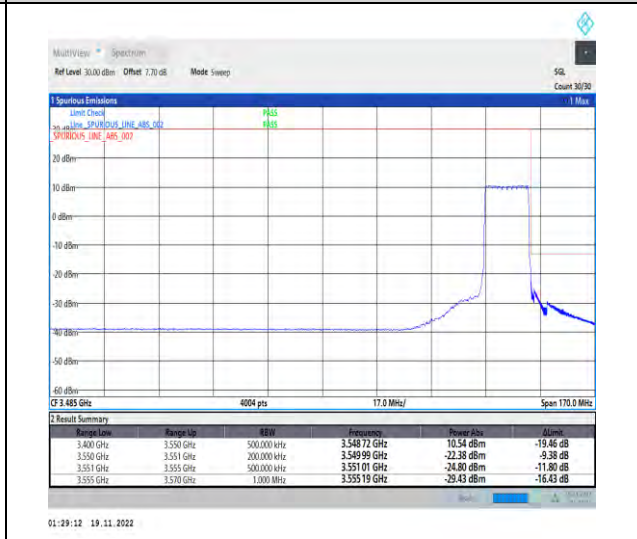
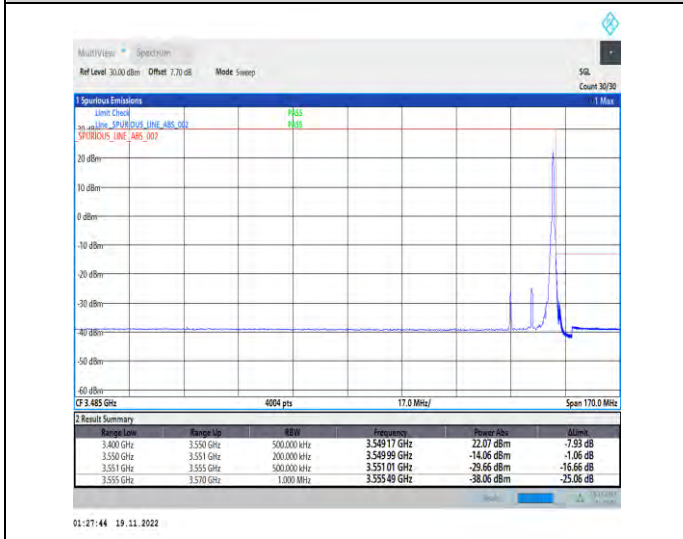
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1-N78-3450-3550-PC2-30-15-L-4-CP-QPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant1-1--PASS-see graph



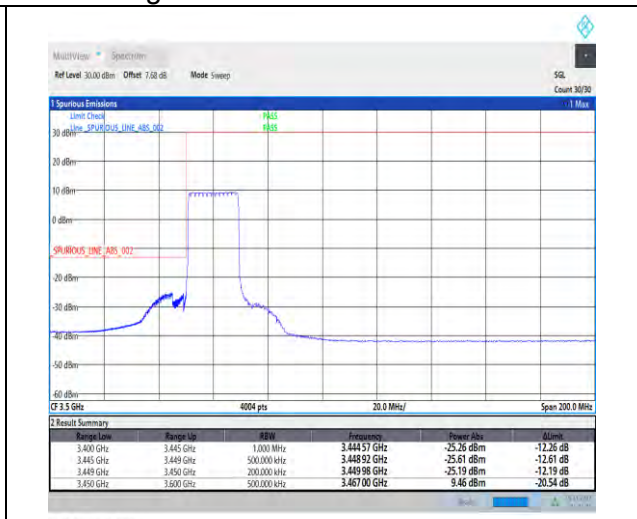
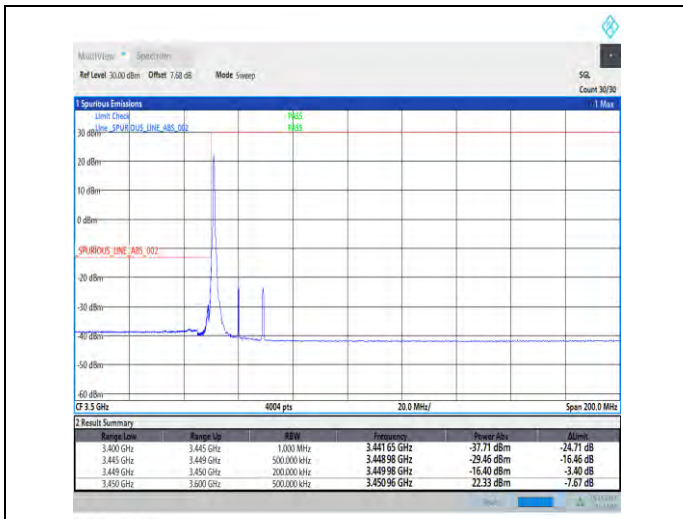
1-N78-3450-3550-PC2-30-15-H-5-CP-QPSK-Edge_1R_B_Right-1@37-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant1-1--PASS-see graph



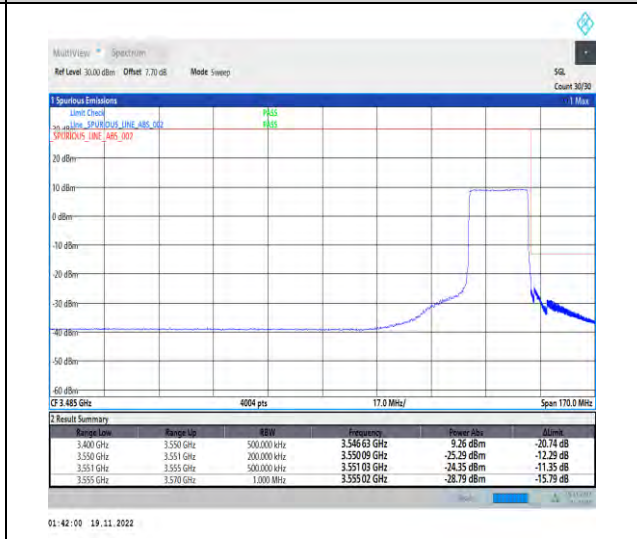
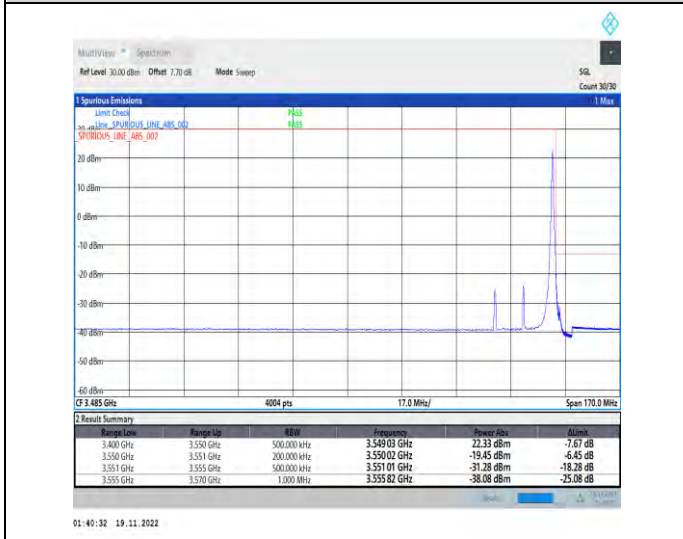
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1-N78-3450-3550-PC2-30-20-L-4-CP-QPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant1-1--PASS-see graph



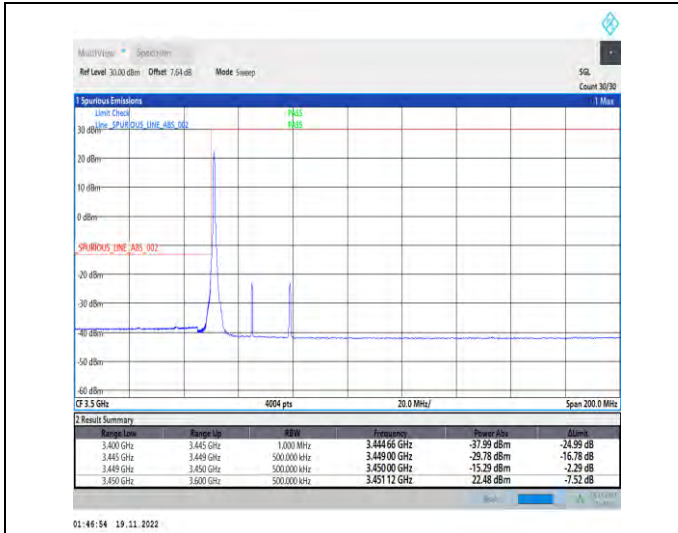
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1-N78-3450-3550-PC2-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant1-1--PASS-see graph



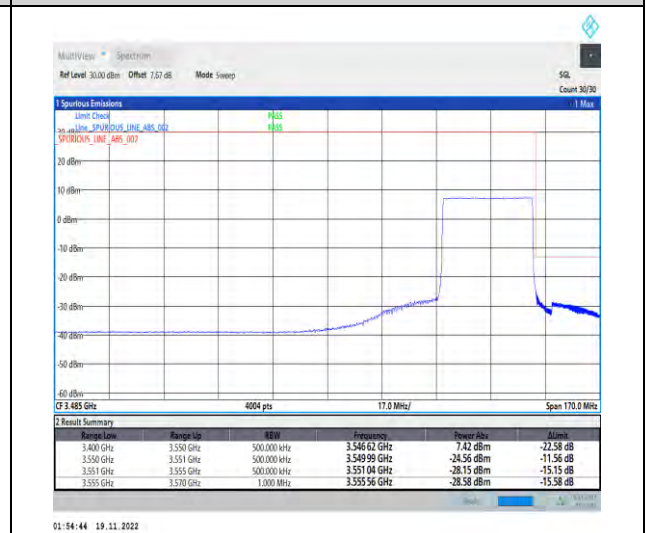
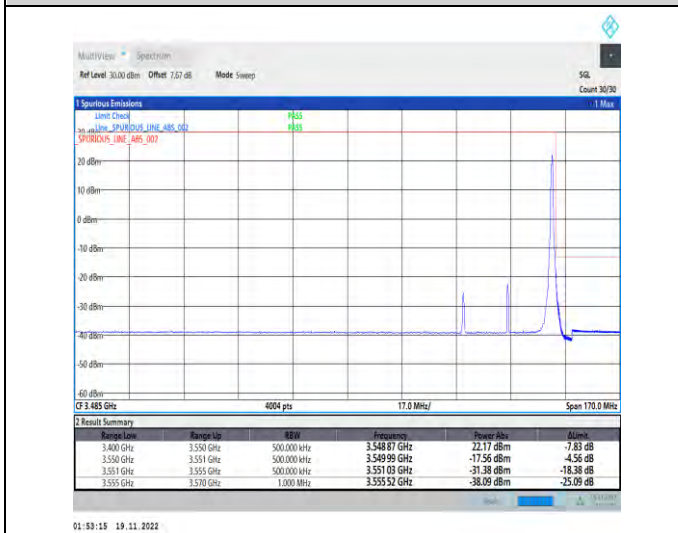
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1-N78-3450-3550-PC2-30-30-L-4-CP-QPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant1-1--PASS-see graph



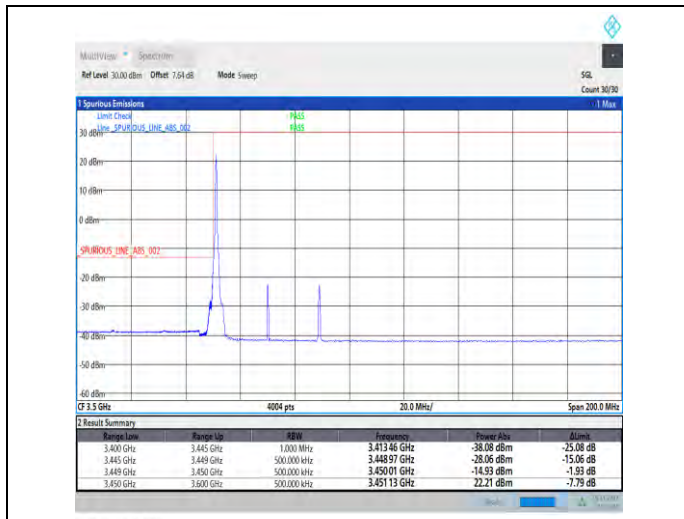
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1-N78-3450-3550-PC2-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant1-1--PASS-see graph



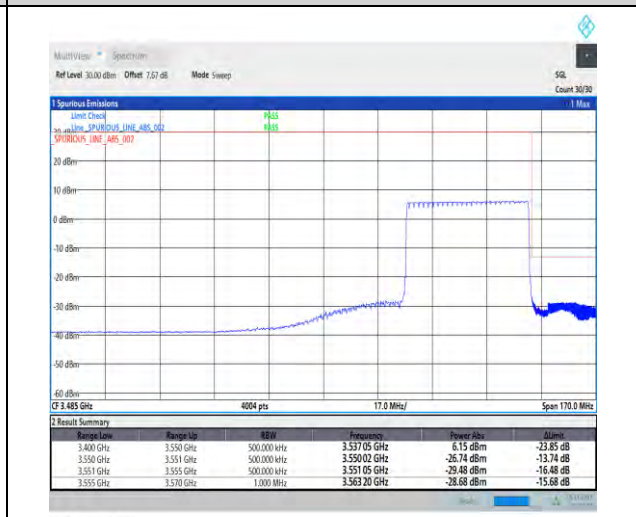
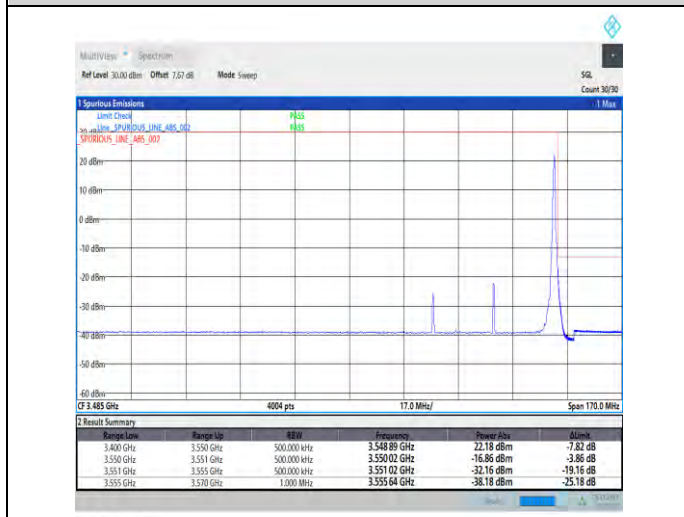
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1-N78-3450-3550-PC2-30-40-L-4-CP-QPSK-Edge_1R
 B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-40-L-6-CP-QPSK-Outer
 _Full-106@0-Ant1-1--PASS-see graph



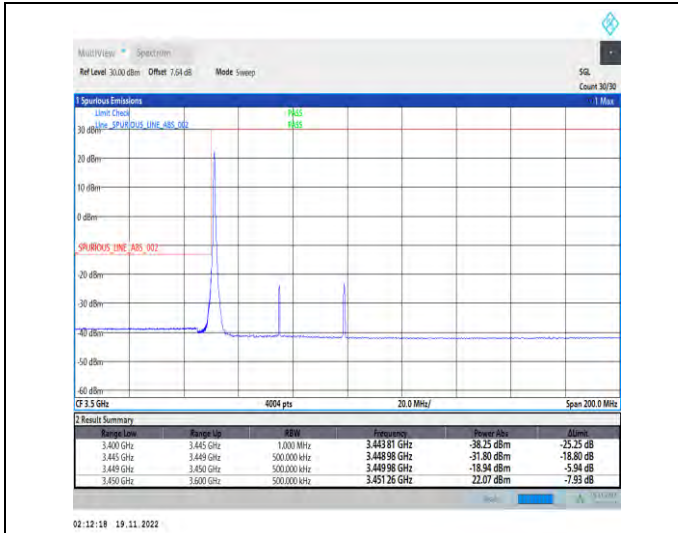
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 B_Right-1@105-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-40-H-6-CP-QPSK-Outer
 _Full-106@0-Ant1-1--PASS-see graph



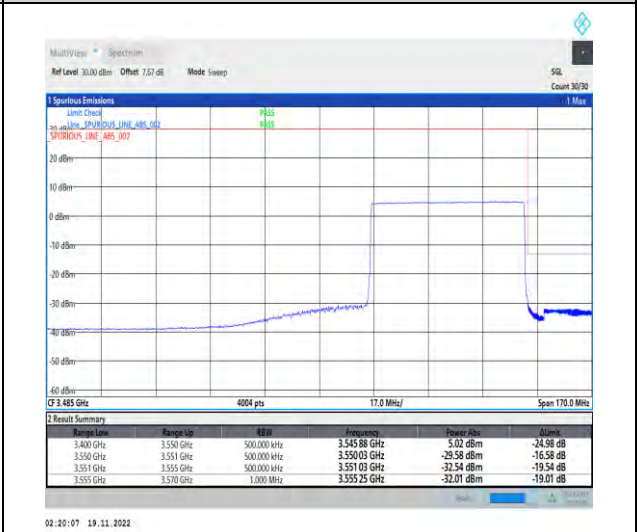
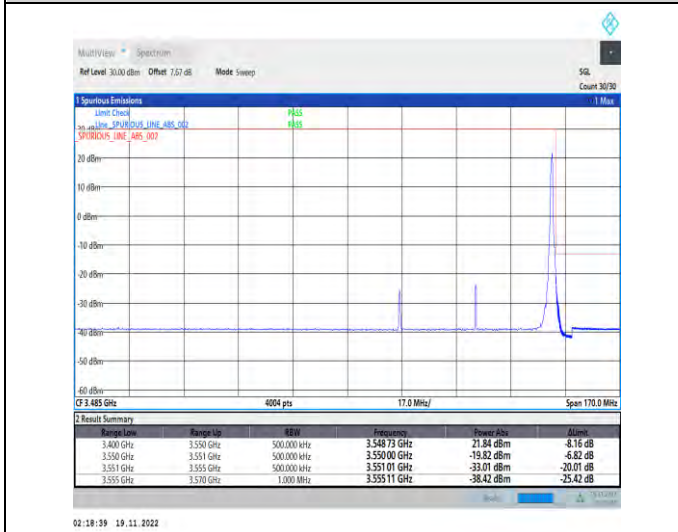
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1-N78-3450-3550-PC2-30-50-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-50-L-6-CP-QPSK-Outer
_Full-133@0-Ant1-1--PASS-see graph



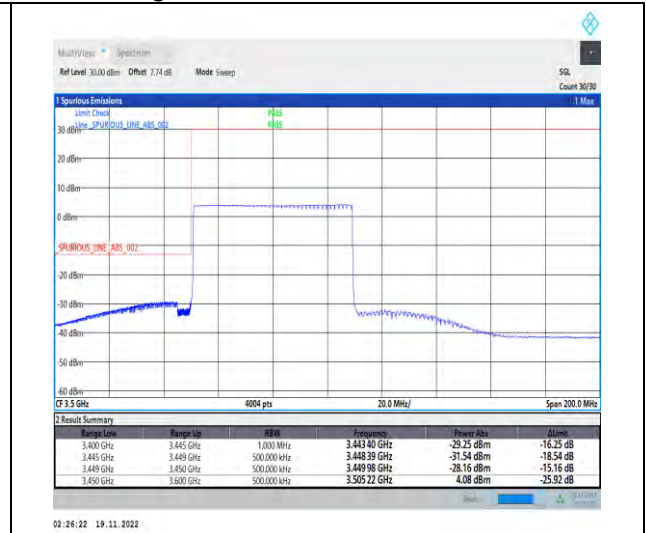
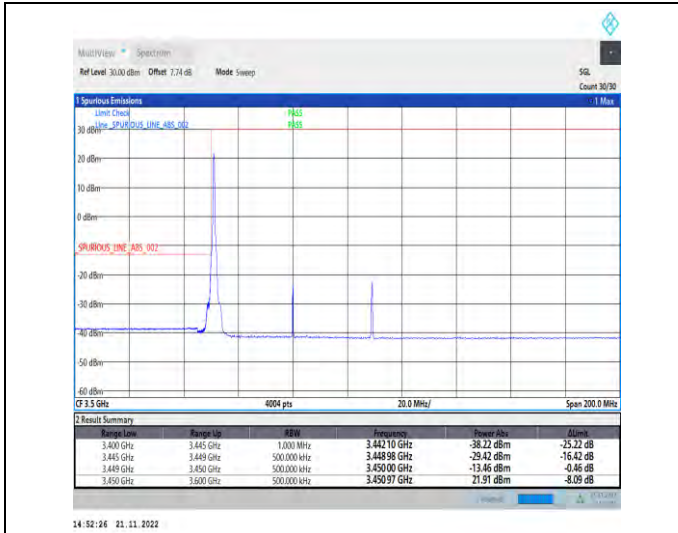
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B_Right-1@132-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-50-H-6-CP-QPSK-Outer
_Full-133@0-Ant1-1--PASS-see graph



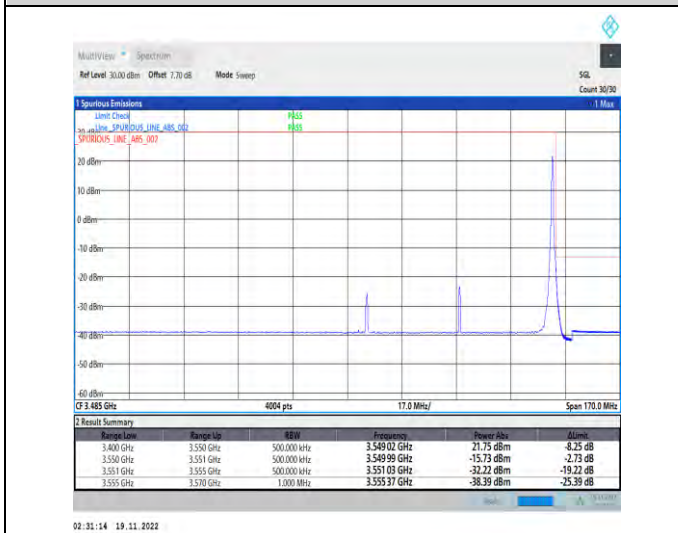
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1-N78-3450-3550-PC2-30-60-L-4-CP-QPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC2-30-60-H-5-CP-QPSK-Edge_1R_B_Right-1@161-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-60-H-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph

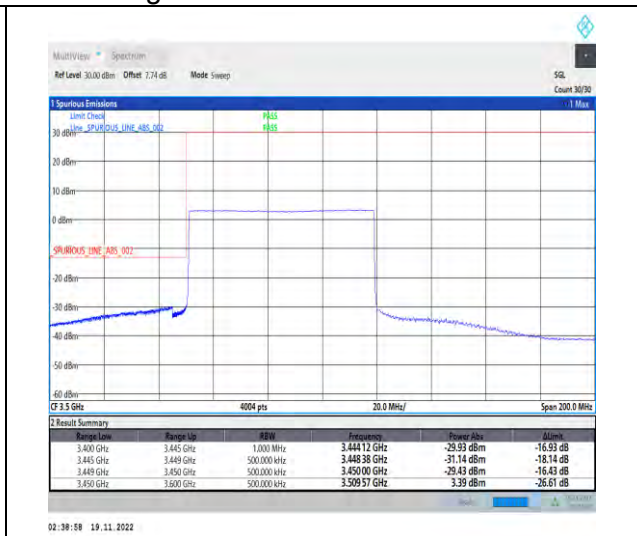
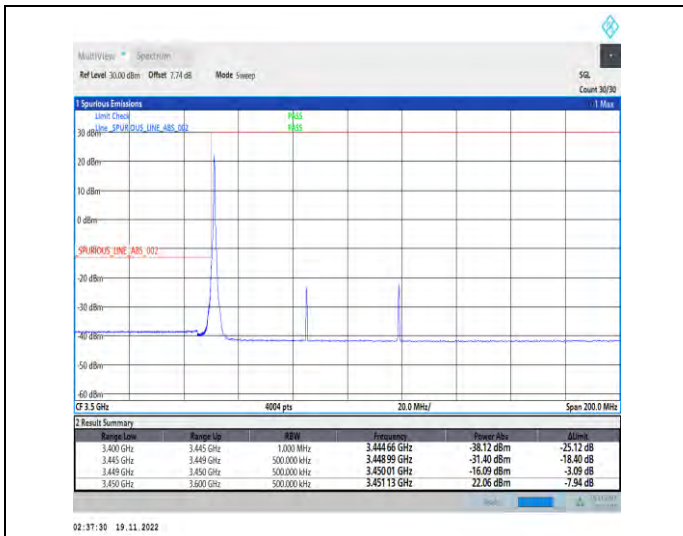


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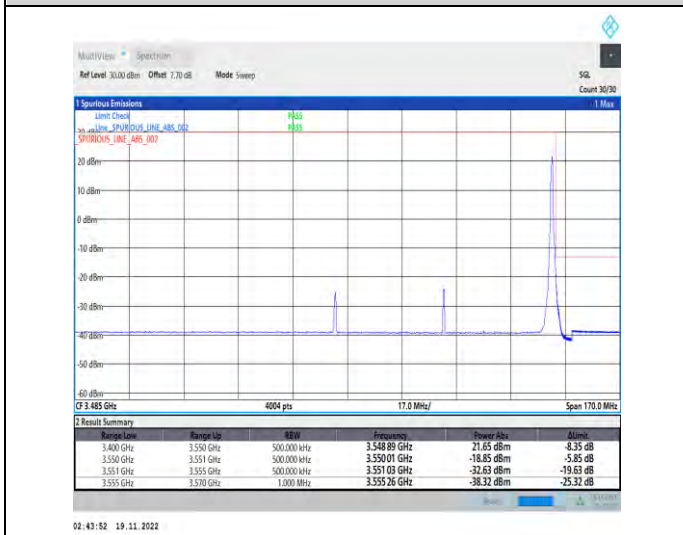
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1-N78-3450-3550-PC2-30-70-L-4-CP-QPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant1-1--PASS-see graph



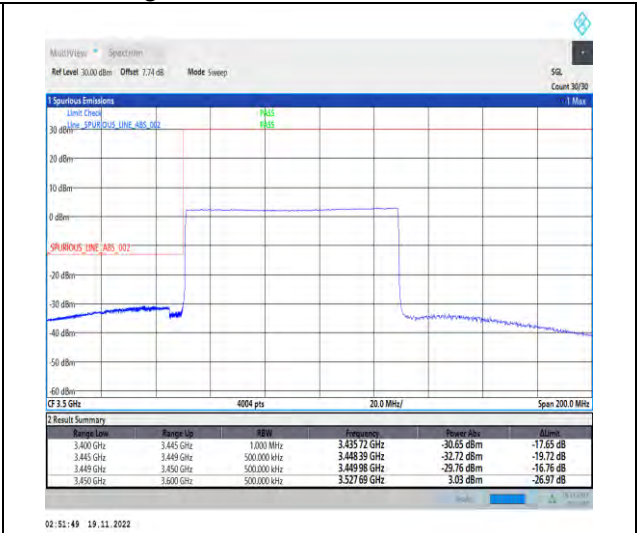
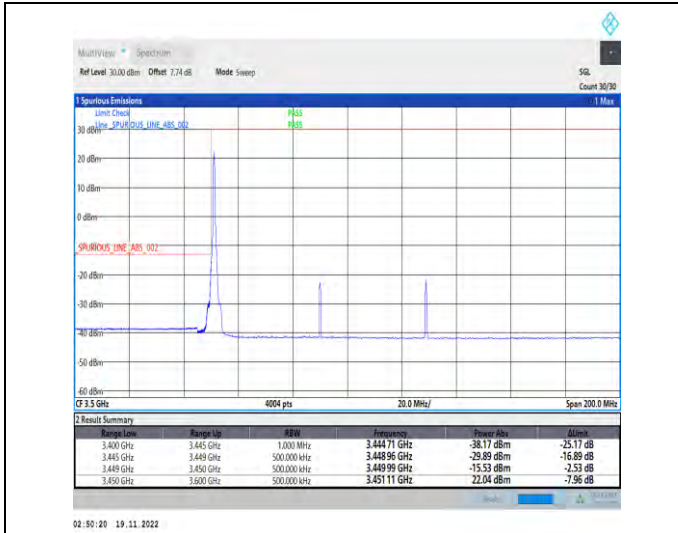
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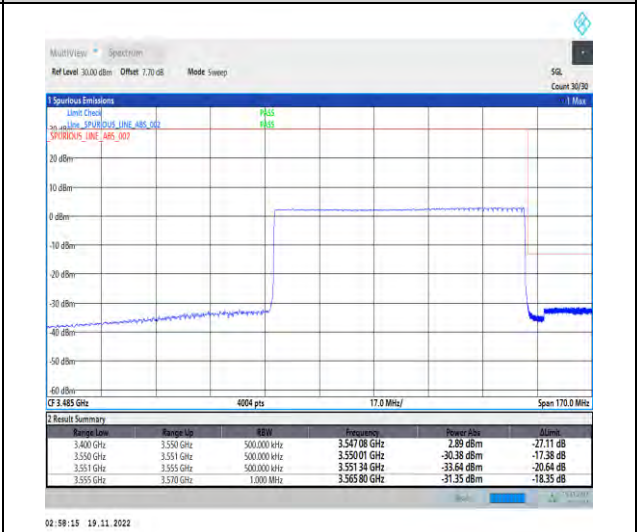
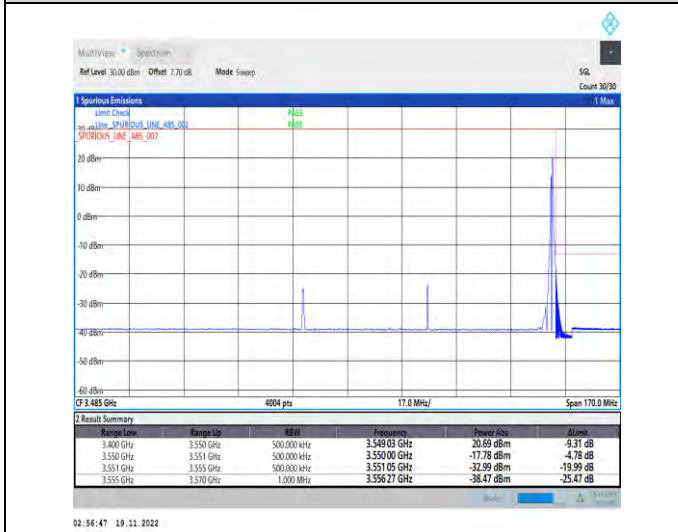
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1-N78-3450-3550-PC2-30-80-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-80-L-6-CP-QPSK-Outer
_Full-217@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC2-30-80-H-5-CP-QPSK-Edge_1R
B_Right-1@216-Ant1-1--PASS-see graph

1-N78-3450-3550-PC2-30-80-H-6-CP-QPSK-Outer
_Full-217@0-Ant1-1--PASS-see graph

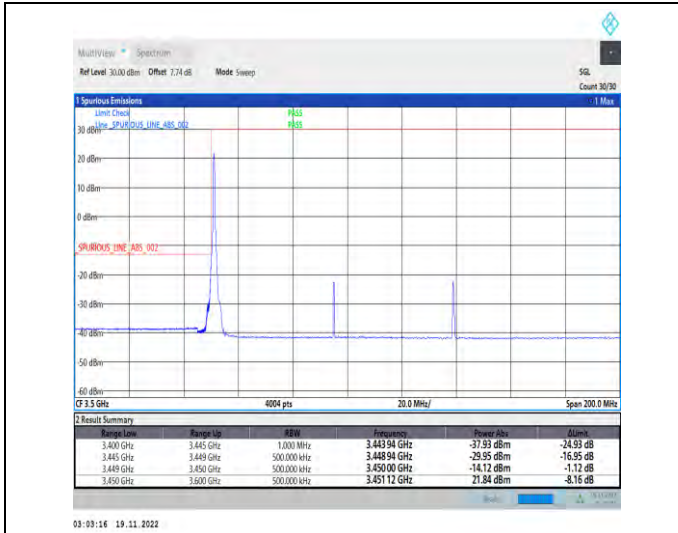


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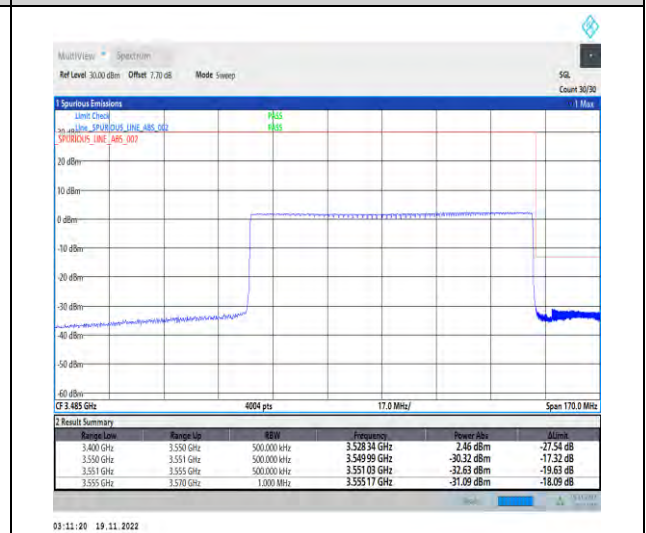
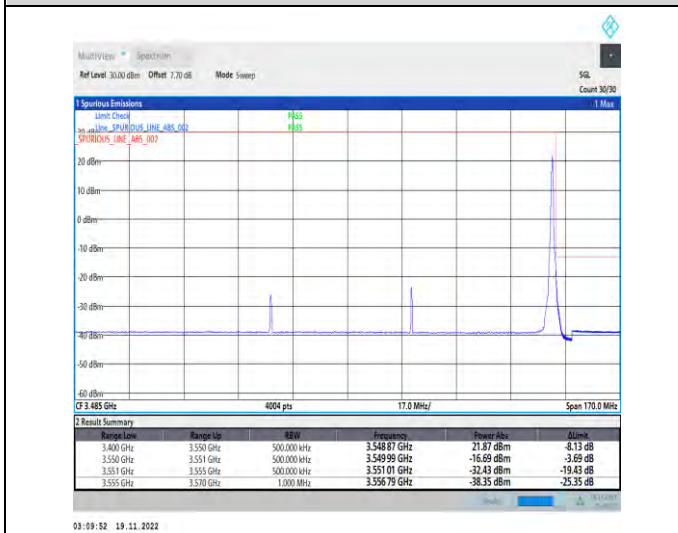
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1-N78-3450-3550-PC2-30-90-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

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



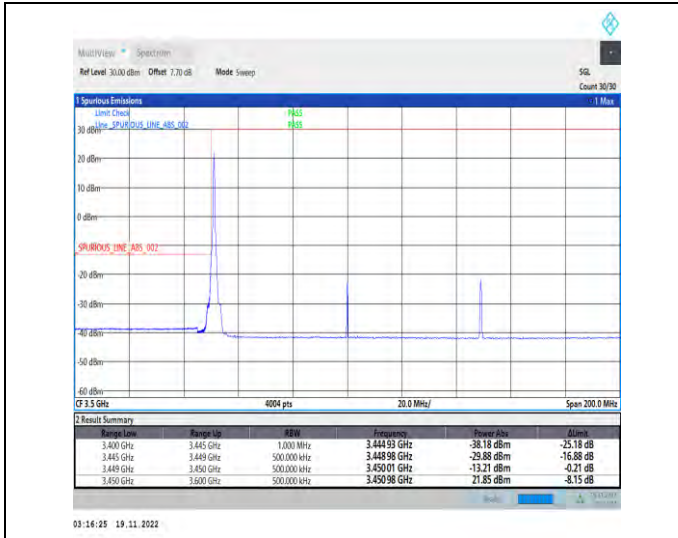
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B_Right-1@244-Ant1-1--PASS-see graph

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_Full-245@0-Ant1-1--PASS-see graph

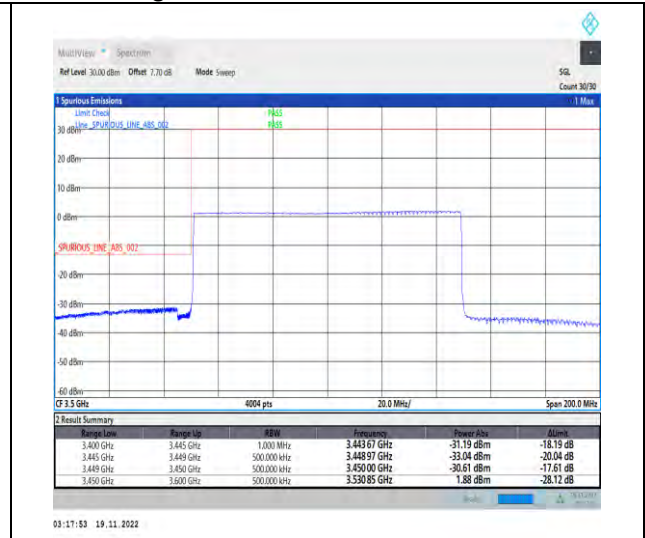


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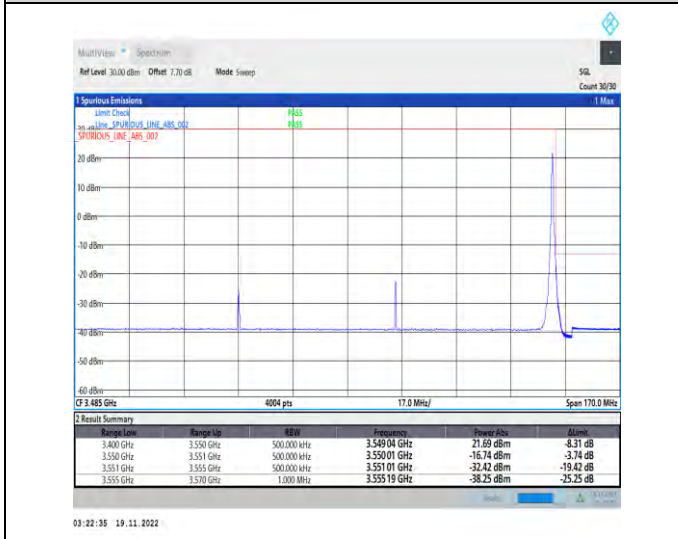
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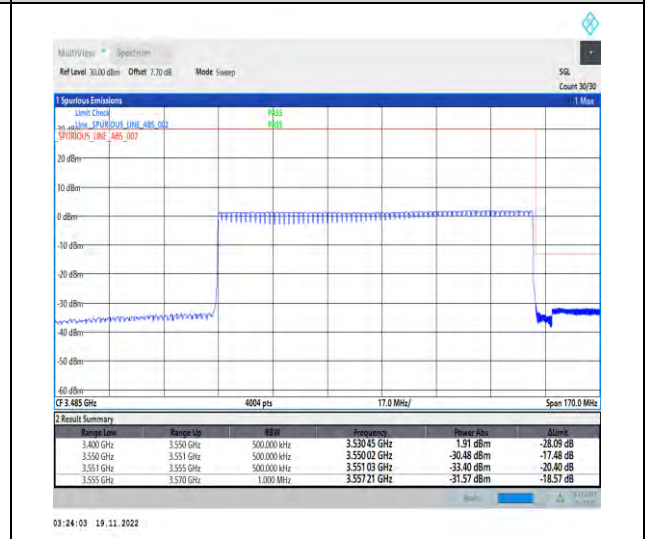
1-N78-3450-3550-PC2-30-100-L-4-CP-QPSK-Edge_1 RB_Left-1@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC2-30-100-L-6-CP-QPSK-Out er_Full-273@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC2-30-100-H-5-CP-QPSK-Edge_1 RB_Right-1@272-Ant1-1--PASS-see graph



1-N78-3450-3550-PC2-30-100-H-6-CP-QPSK-Out er_Full-273@0-Ant1-1--PASS-see graph



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Conducted Spurious Emission for SA

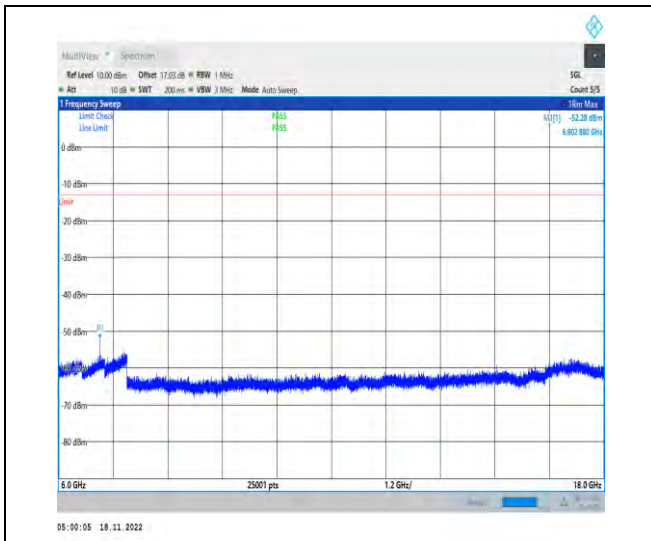
Test Graphs

<p>1-N78-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--65.93--43-PASS</p>	<p>1-N78-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--74.26--33-PASS</p>
<p>1-N78-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-34.85--66.18--13-PASS</p>	<p>1-N78-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5931.00--39.90--13-PASS</p>

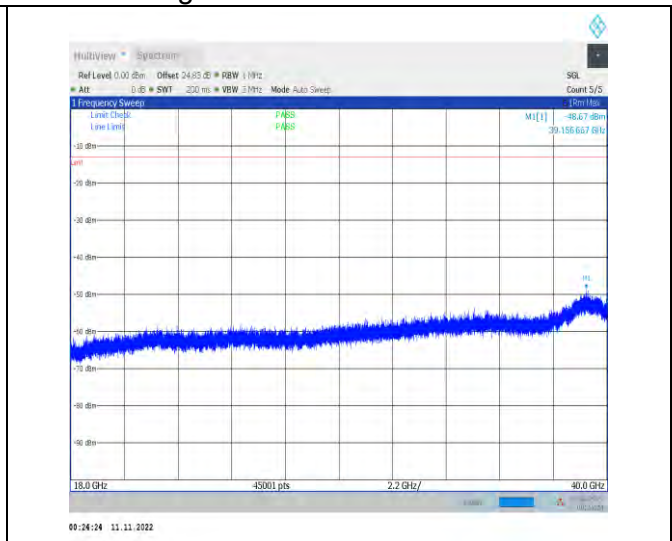


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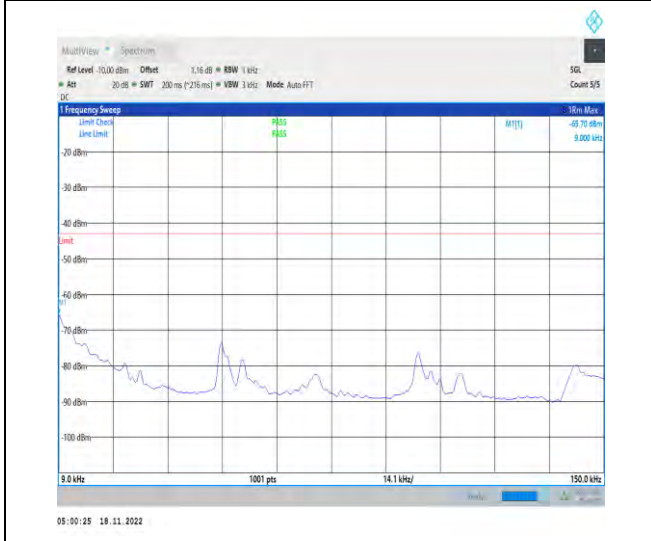
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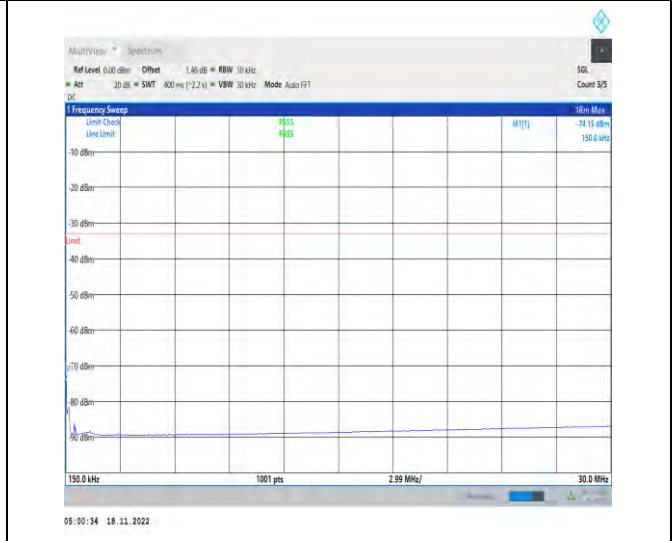
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1-N78-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--59.85-13-PASS



1-N78-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--65.70--43-PASS

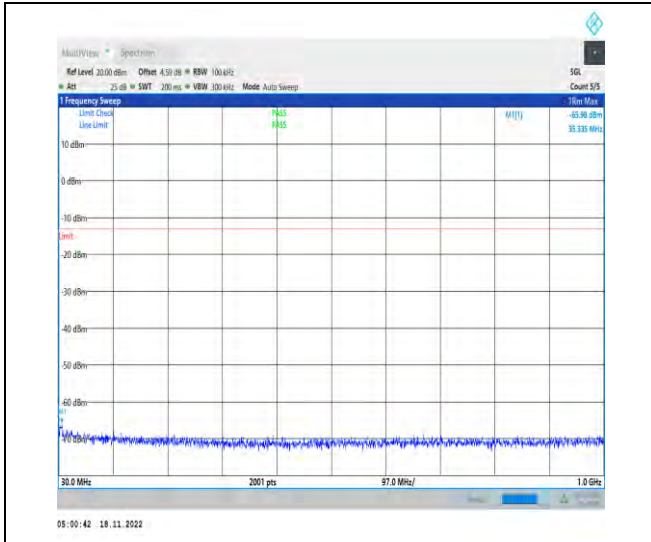


1-N78-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--74.15--33-PASS

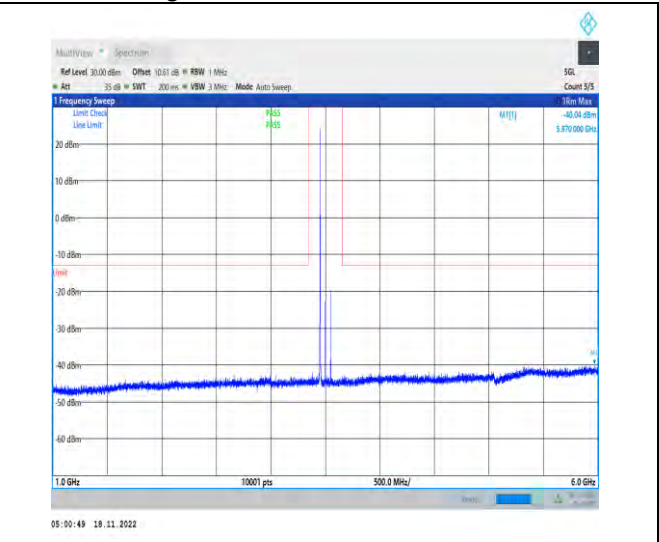


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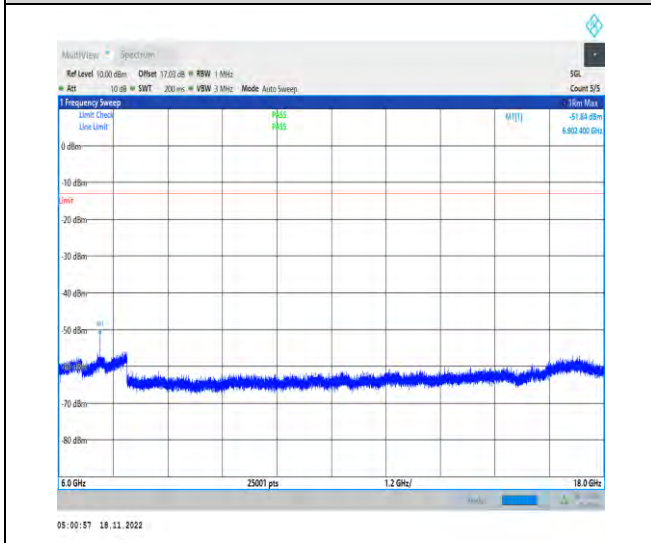
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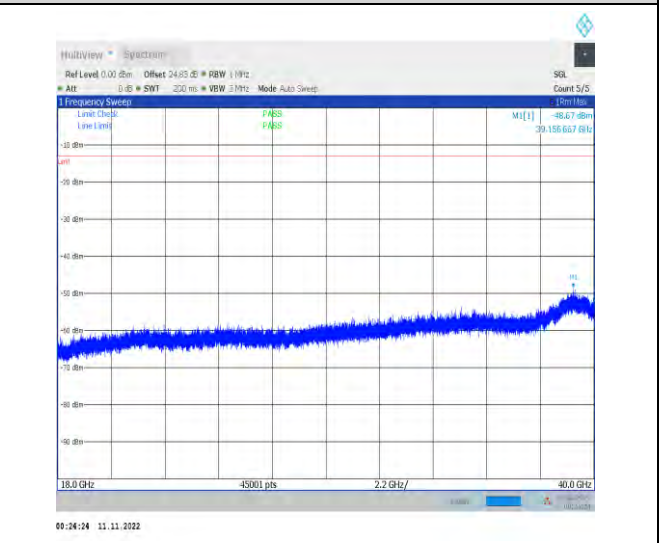
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Inner_1RB_Left-1@1-30-1000-Ant1-35.34--65.98--1
3-PASS



1-N78-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-1000-6000-Ant1-5970.00--40.04--
13-PASS



1-N78-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-6000-18000-Ant1-6902.40--51.
84--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--59
.34--13-PASS

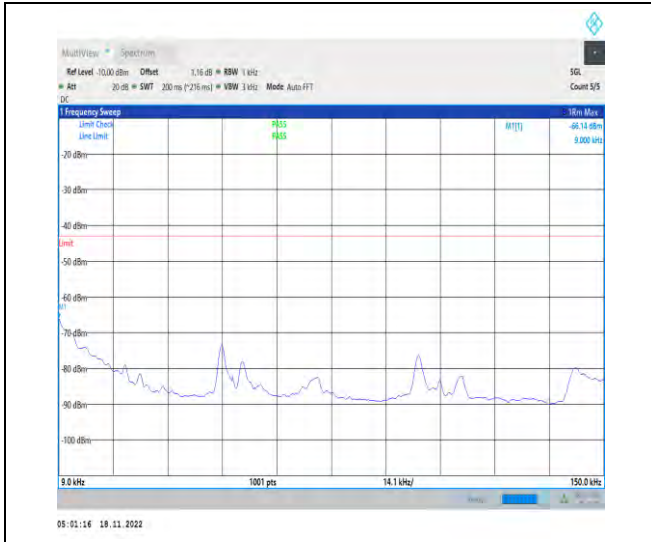


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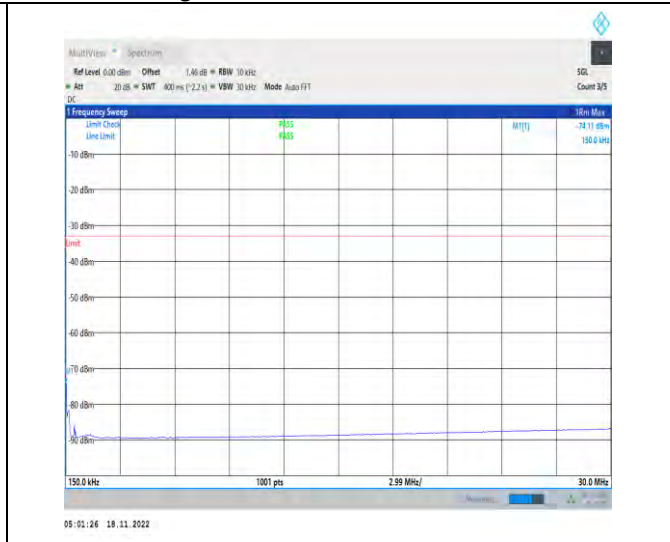
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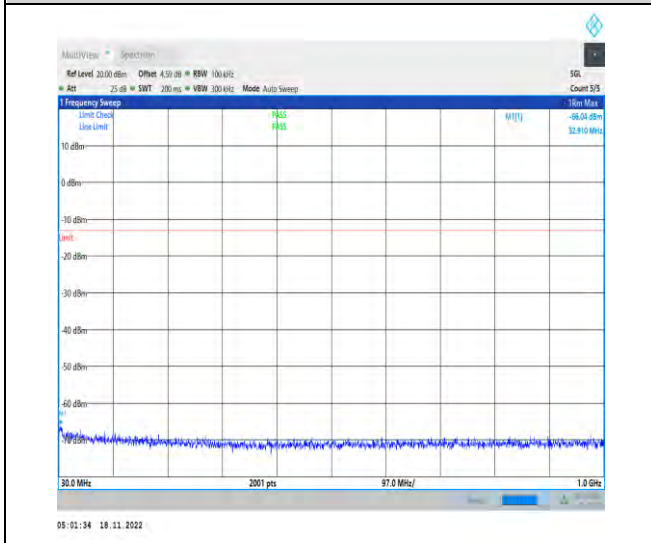
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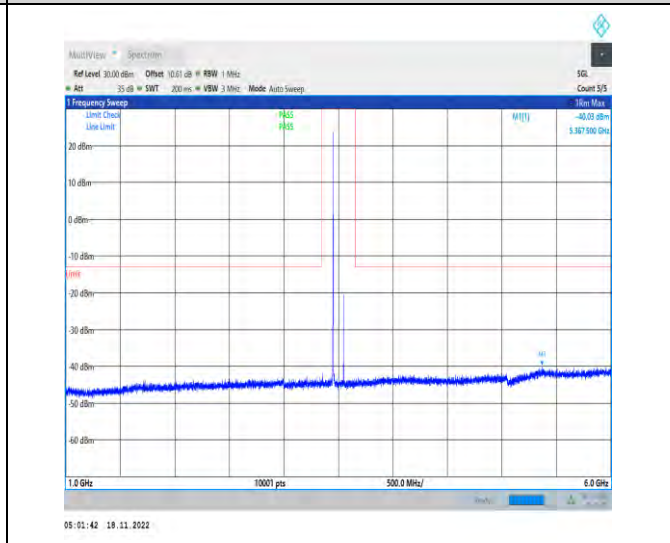
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1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--74.11--33-PA SS



1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-32.91--66.04--13-PASS

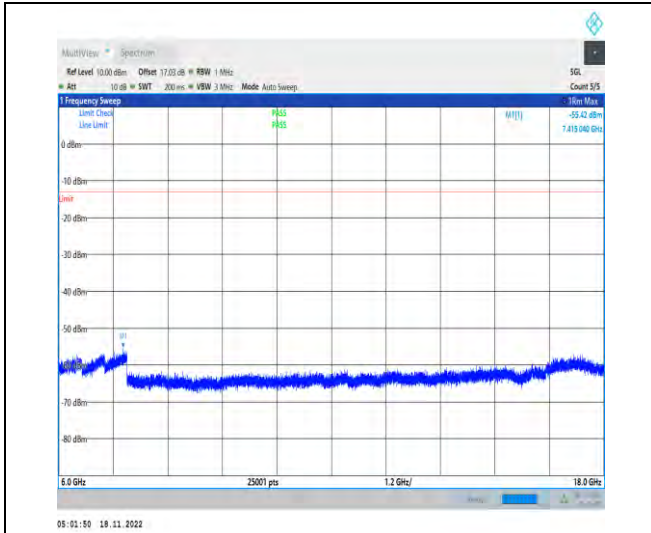


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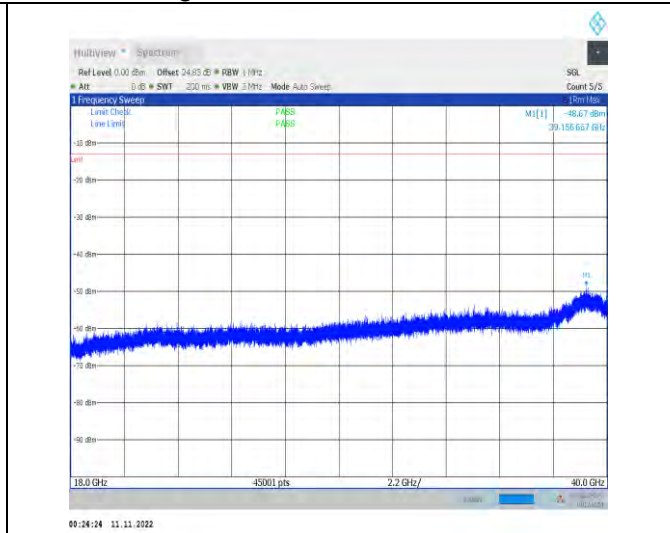


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1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-I
 nner_1RB_Left-1@1-6000-18000-Ant1-7415.04--55.
 42--13-PASS



1-N78-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-In
 ner_1RB_Left-1@1-18000-40000-Ant1-18000.00--59
 .45--13-PASS



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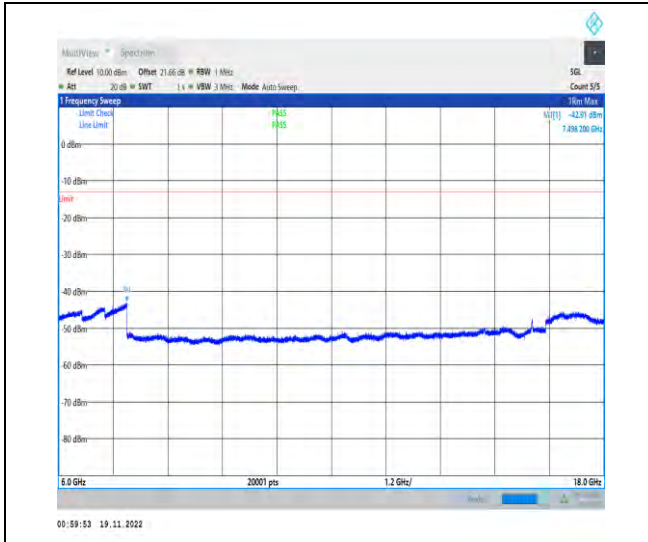
Test Graphs

<p>1-N78-3450-3550-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.01--70.87--43-PASS</p>	<p>1-N78-3450-3550-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant1-0.15--72.59--33-PASS</p>
<p>1-N78-3450-3550-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-30-1000-Ant1-31.46--60.55--23-PASS</p>	<p>1-N78-3450-3550-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-1000-6000-Ant1-5929.00--46.46--13-PASS</p>

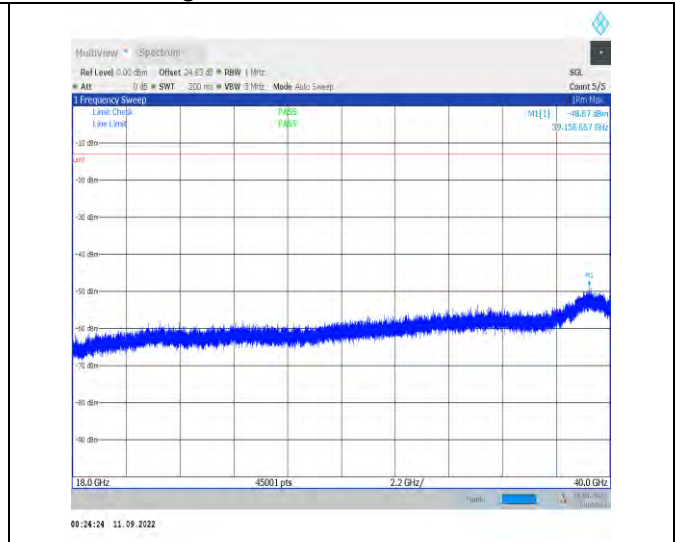


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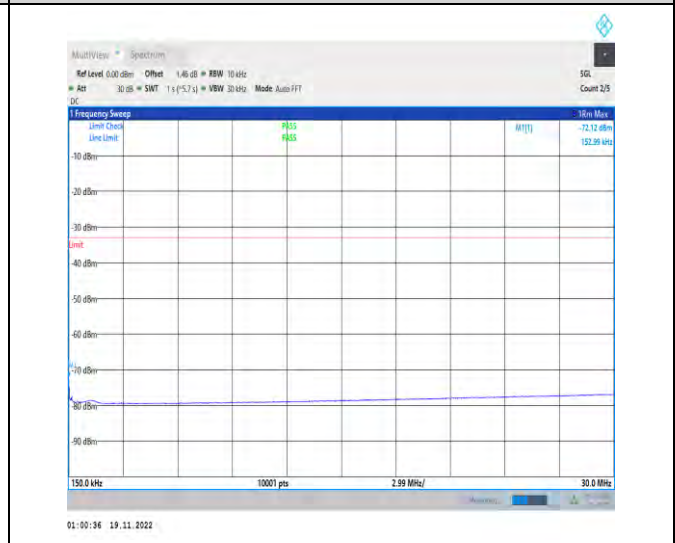
1-N78-3450-3550-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-6000-18000-Ant1-7498.20--42.91--13-PASS



1-N78-3450-3550-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-18000-38000-Ant1-18000.00--47.43--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-CP-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.01--70.04--43-PASS

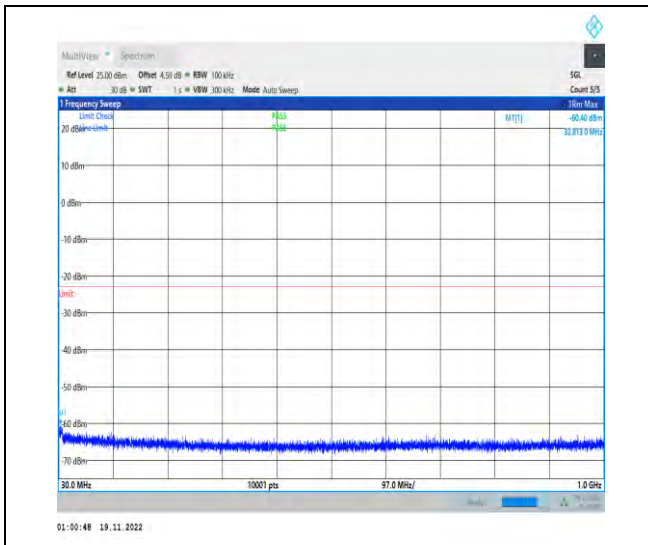


1-N78-3450-3550-PC2-30-100-M-1-CP-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant1-0.15--72.12--33-PASS

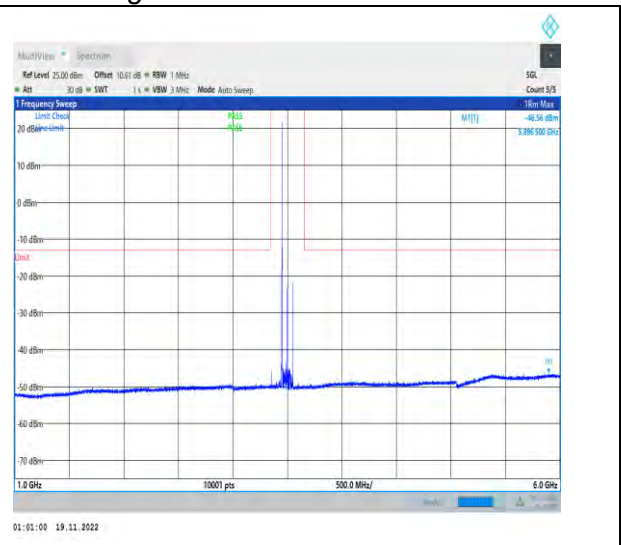


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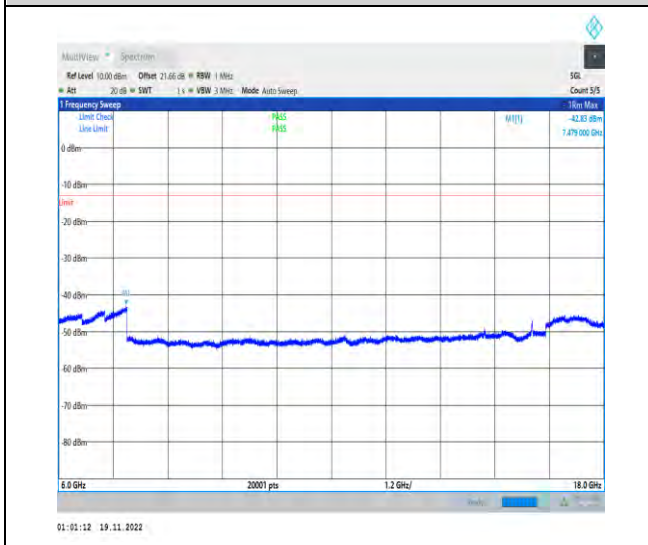
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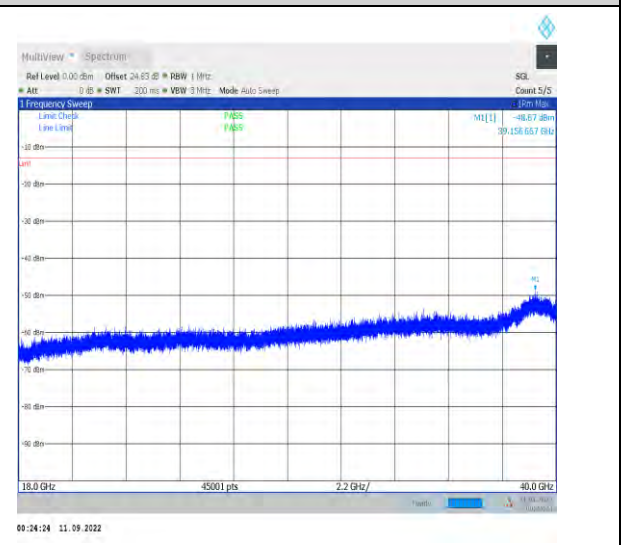
1-N78-3450-3550-PC2-30-100-M-1-CP-QPSK-Edge_1RB_Left-1@0-30-1000-Ant1-32.81--60.40--23-PA SS



1-N78-3450-3550-PC2-30-100-M-1-CP-QPSK-Edge_1RB_Left-1@0-1000-6000-Ant1-5896.50--46.56--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-CP-QPSK-Edge_1RB_Left-1@0-6000-18000-Ant1-7479.00--42.83--13-PASS

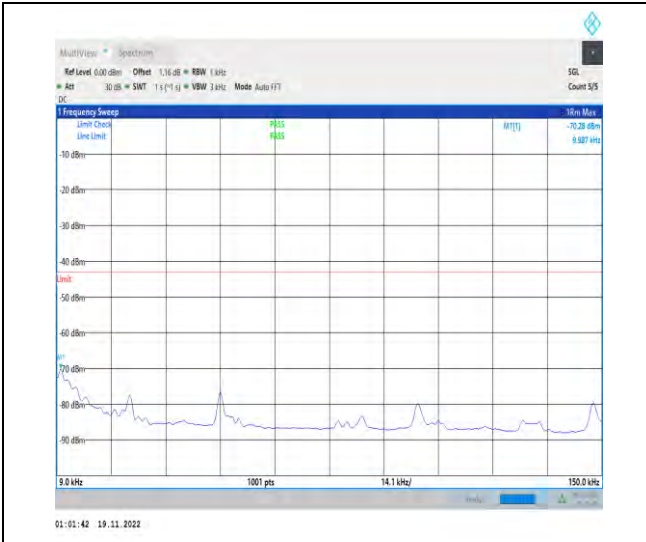


1-N78-3450-3550-PC2-30-100-M-1-CP-QPSK-Edge_1RB_Left-1@0-18000-38000-Ant1-18000.00--47.30--13-PASS

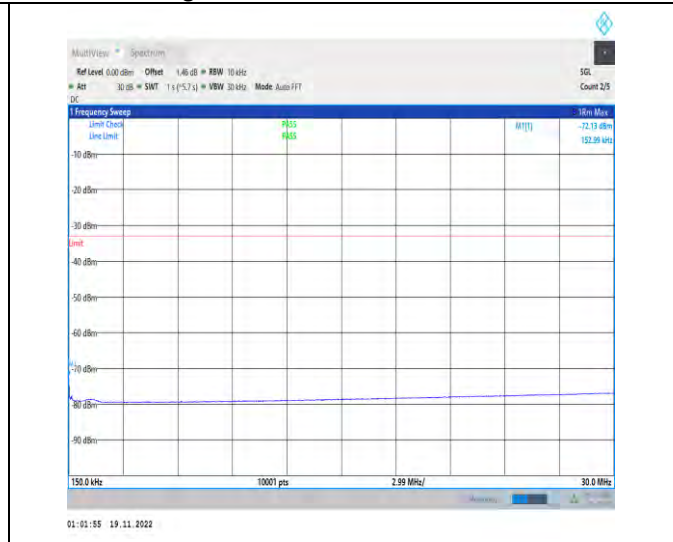


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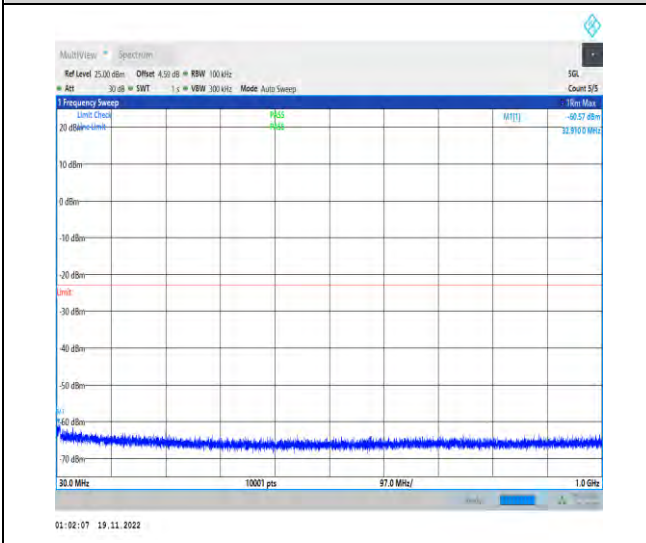
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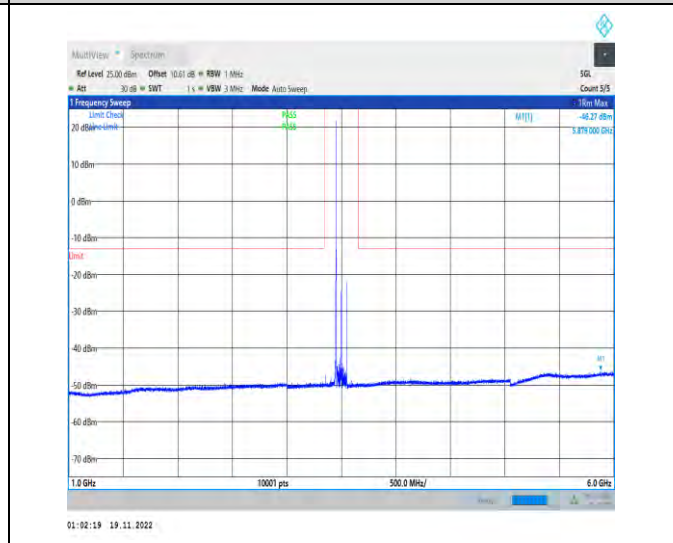
1-N78-3450-3550-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.01--70.28--43-P ASS



1-N78-3450-3550-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant1-0.15--72.13--33-PASS



1-N78-3450-3550-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-30-1000-Ant1-32.91--60.57--23-PA SS

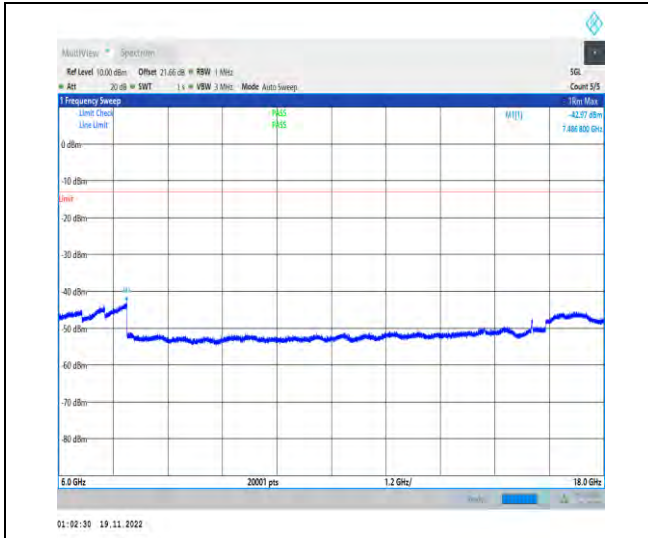


1-N78-3450-3550-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-1000-6000-Ant1-5879.00--46.27--13-PASS

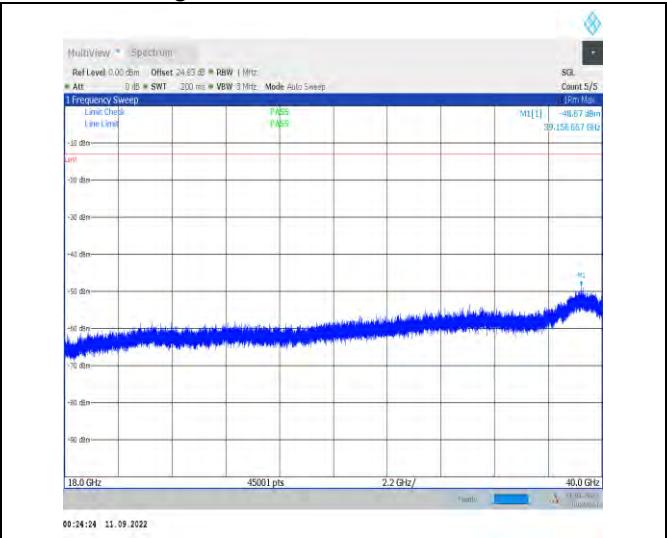


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1-N78-3450-3550-PC2-30-100-H-1-CP-QPSK-Edge
_1RB_Left-1@0-6000-18000-Ant1-7486.80--42.97--
13-PASS



1-N78-3450-3550-PC2-30-100-H-1-CP-QPSK-Edge_
1RB_Left-1@0-18000-38000-Ant1-18000.00--47.40--
13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 78 3450M-3550M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8105.2083	38.66	-40.27	37.62	-59.25	-13.00	46.25	296	308	Horizontal
2	11597.8542	33.86	-35.66	39.00	-58.06	-13.00	45.06	265	290	Horizontal
3	6982.18	40.00	-42.38	36.17	-61.47	-13.00	48.47	241	35	Horizontal
4	10473.27	33.23	-36.47	39.02	-59.48	-13.00	46.48	142	343	Horizontal
5	13964.36	32.16	-34.95	40.18	-57.87	-13.00	44.87	255	180	Horizontal
6	17455.45	30.10	-31.84	40.42	-56.57	-13.00	43.57	256	325	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	7063.0208	44.94	-42.30	36.24	-56.39	-13.00	43.39	296	328	Vertical
2	8680.6875	38.42	-39.33	38.25	-57.92	-13.00	44.92	265	185	Vertical
3	12722.9375	34.62	-35.29	39.32	-56.60	-13.00	43.60	284	360	Vertical
4	10473.27	33.28	-36.47	39.02	-59.43	-13.00	46.43	142	185	Vertical
5	13964.36	32.72	-34.95	40.18	-57.31	-13.00	44.31	255	360	Vertical
6	17455.45	30.38	-31.84	40.42	-56.29	-13.00	43.29	266	360	Vertical



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Test Band = UL MIMO SA Band 78 3450M-3550M_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8711.8333	37.21	-39.21	38.28	-58.98	-13.00	45.98	296	213	Horizontal
2	12384.1667	33.29	-35.23	38.98	-58.21	-13.00	45.21	265	288	Horizontal
3	6982.18	39.23	-42.38	36.17	-62.24	-13.00	49.24	241	252	Horizontal
4	10473.27	33.37	-36.47	39.02	-59.34	-13.00	46.34	142	158	Horizontal
5	13964.36	31.42	-34.95	40.18	-58.61	-13.00	45.61	263	213	Horizontal
6	17455.45	30.32	-31.84	40.42	-56.35	-13.00	43.35	221	0	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	8436.7917	37.56	-39.68	37.98	-59.40	-13.00	46.40	296	1	Vertical
2	11855.1667	33.06	-35.15	38.74	-58.60	-13.00	45.60	265	341	Vertical
3	6982.18	40.17	-42.38	36.17	-61.30	-13.00	48.30	284	0	Vertical
4	10473.27	33.20	-36.47	39.02	-59.51	-13.00	46.51	142	0	Vertical
5	13964.36	31.52	-34.95	40.18	-58.51	-13.00	45.51	255	213	Vertical
6	17455.45	31.04	-31.84	40.42	-55.63	-13.00	42.63	263	1	Vertical



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Test Band = DC_5A_n78A 3450M-3550M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8929.375	38.26	-38.86	38.52	-57.34	-13.00	44.34	185	65	Horizontal
2	12712.3958	33.98	-35.33	39.31	-57.30	-13.00	44.30	263	0	Horizontal
3	6982.18	39.30	-42.38	36.17	-62.17	-13.00	49.17	269	46	Horizontal
4	10473.27	33.60	-36.47	39.02	-59.11	-13.00	46.11	241	46	Horizontal
5	13964.36	31.08	-34.95	40.18	-58.95	-13.00	45.95	174	251	Horizontal
6	17455.45	30.39	-31.84	40.42	-56.28	-13.00	43.28	142	174	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	8804.3125	36.99	-38.95	38.38	-58.84	-13.00	45.84	196	344	Vertical
2	12000.3542	32.79	-35.36	38.60	-59.23	-13.00	46.23	263	199	Vertical
3	6982.18	38.98	-42.38	36.17	-62.49	-13.00	49.49	254	327	Vertical
4	10473.27	33.73	-36.47	39.02	-58.98	-13.00	45.98	142	182	Vertical
5	13964.36	31.48	-34.95	40.18	-58.55	-13.00	45.55	263	34	Vertical
6	17455.45	30.70	-31.84	40.42	-55.97	-13.00	42.97	287	108	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
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.200000	-0.000629	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	9.400000	0.002686	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	8.200000	0.002343	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	2.500000	0.000714	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	3.800000	0.001086	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	12.900000	0.003686	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	-0.500000	-0.000143	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	4.000000	0.001143	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.000000	-0.000857	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.500000	-0.000143	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	6.500000	0.001857	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	13.400000	0.003829	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-1.400000	-0.000400	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	2.200000	0.000629	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	0.200000	0.000057	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	-0.800000	-0.000229	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	1.600000	0.000457	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	3.700000	0.001057	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-0.100000	-0.000029	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	1.300000	0.000371	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	6.100000	0.001743	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	6.200000	0.001771	PASS



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3450-3550										
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	8.300000	0.002371	PASS

---End of Attachment---



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