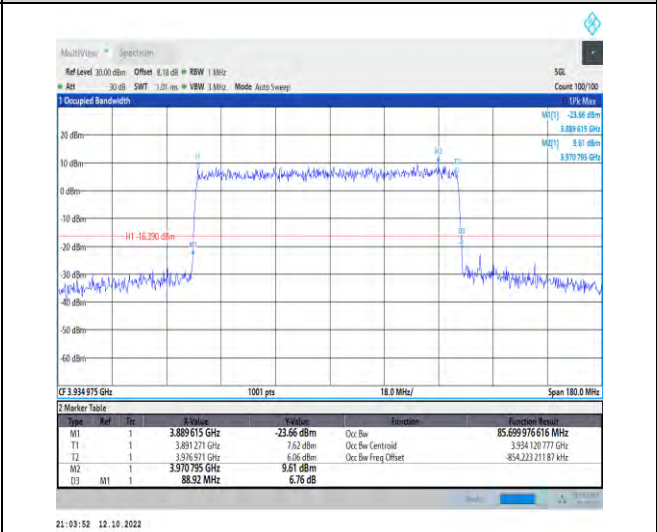
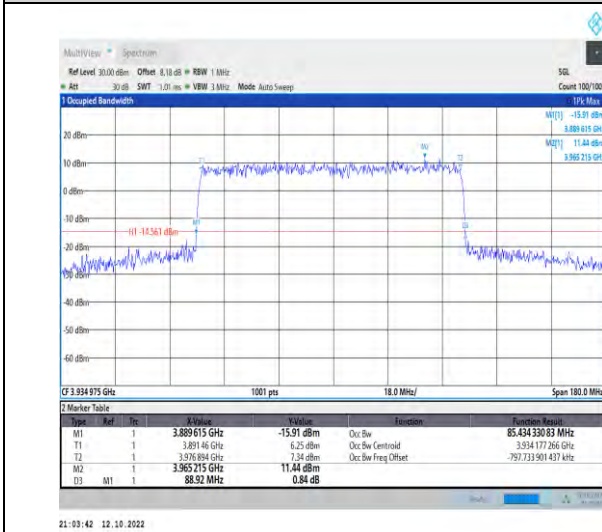


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1-N77-3700-3980--30-90-H-4-DFT-64QAM-Outer_Full-240@0-Ant1-85.434-88.920-≤90-PASS

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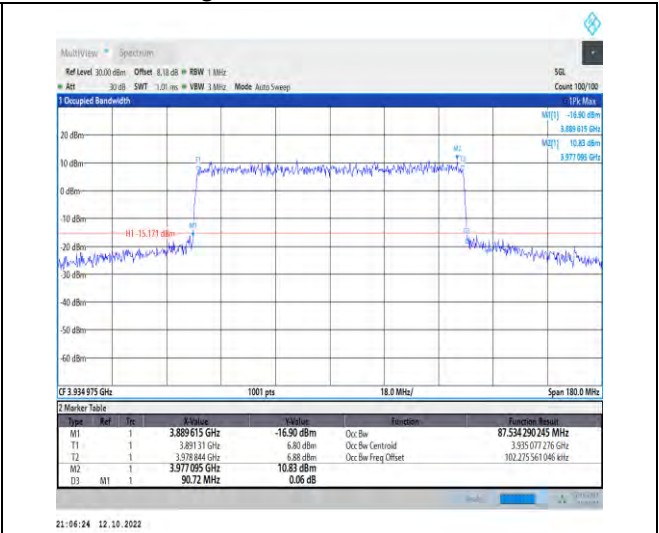


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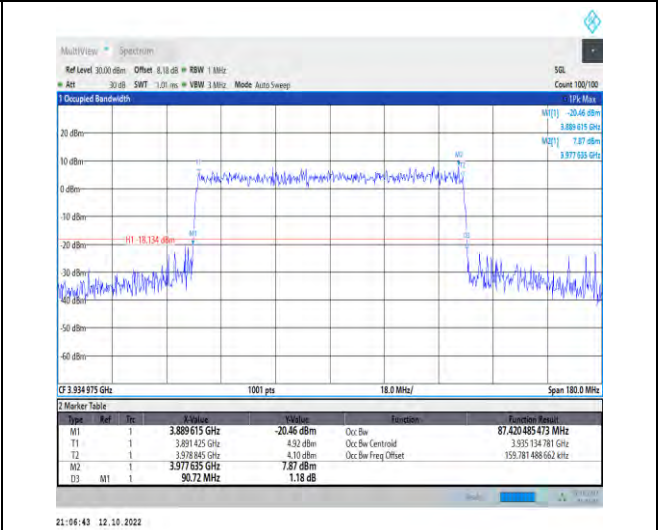
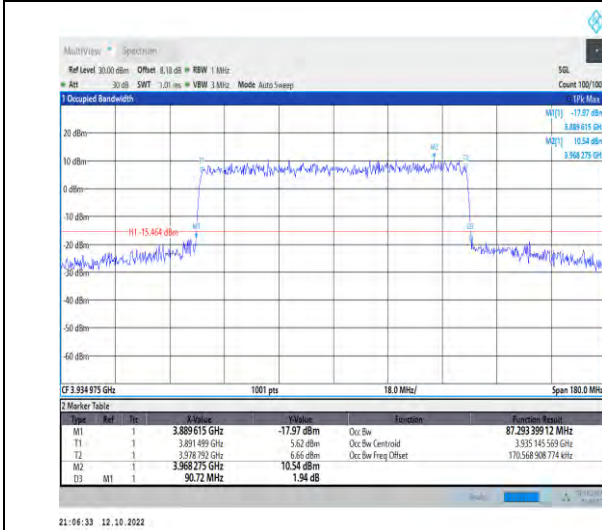
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1-N77-3700-3980--30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-87.48-90.720-≤ 90-PASS

1-N77-3700-3980--30-90-H-7-CP-16QAM-Outer_Full-245@0-Ant1-87.534-90.720-≤ 90-PASS



1-N77-3700-3980--30-90-H-8-CP-64QAM-Outer_Full-245@0-Ant1-87.293-90.720-≤ 90-PASS

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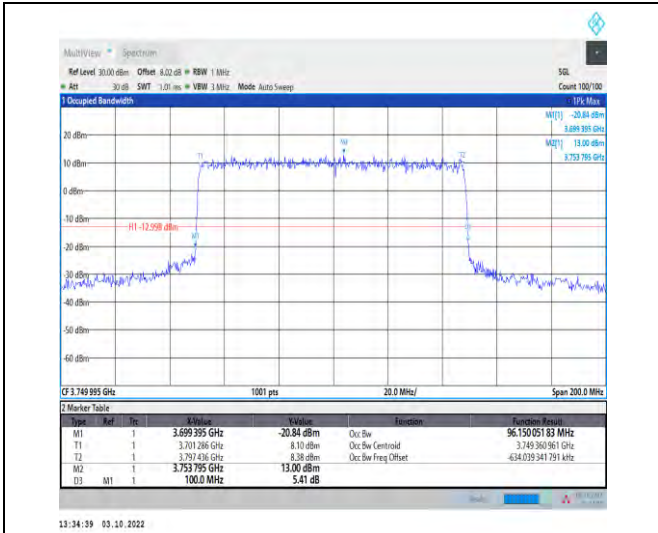


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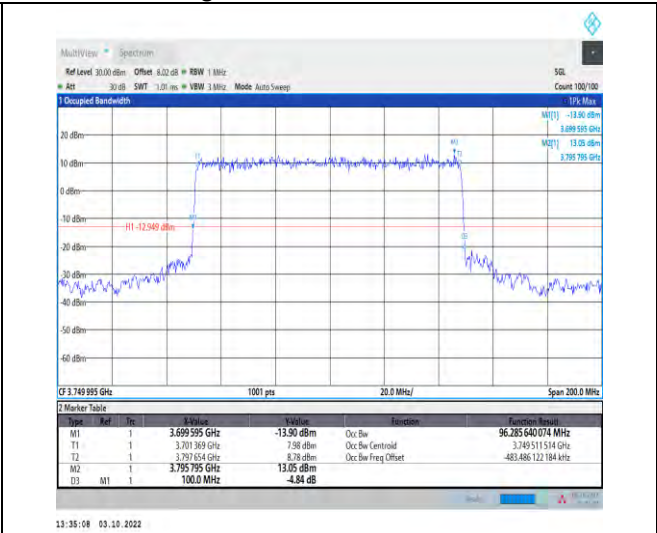
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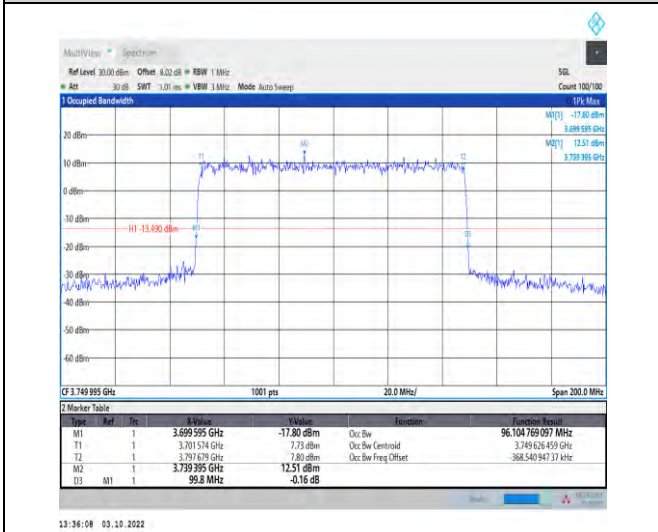
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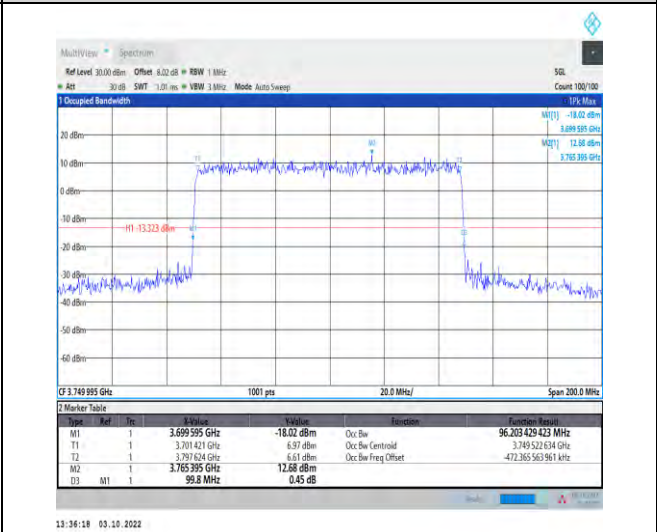
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1-N77-3700-3980--30-100-L-3-DFT-16QAM-Outer_Full-270@0-Ant1-96.105-99.800-≤100-PASS



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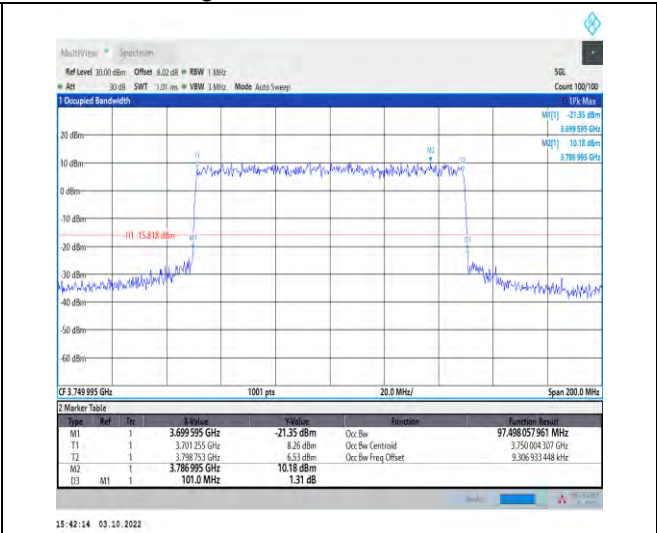
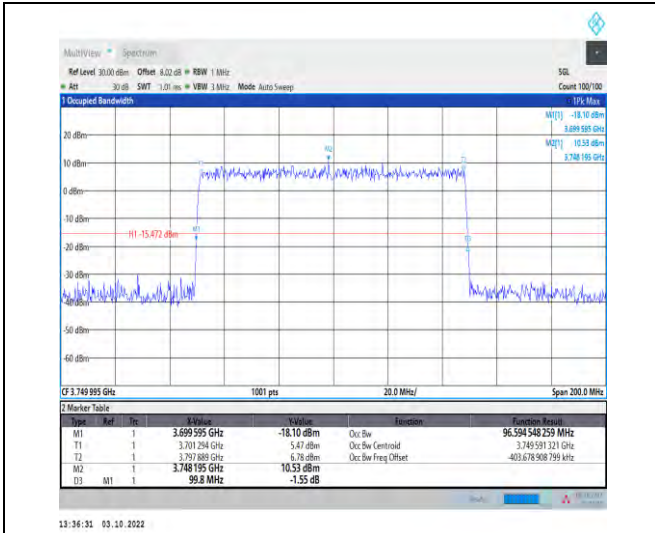


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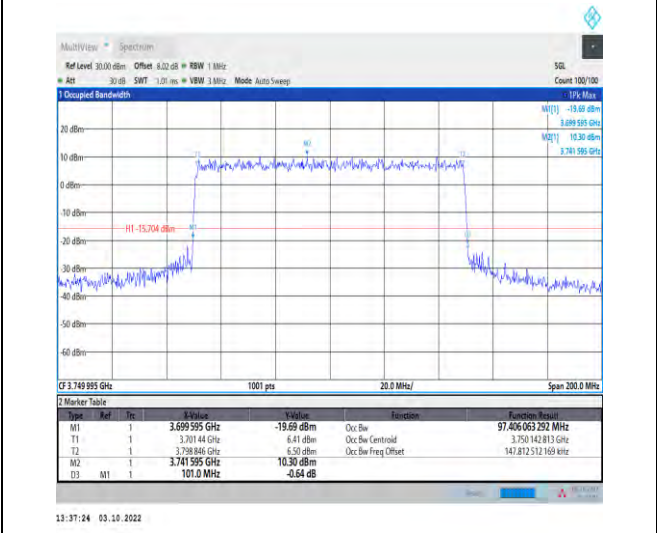
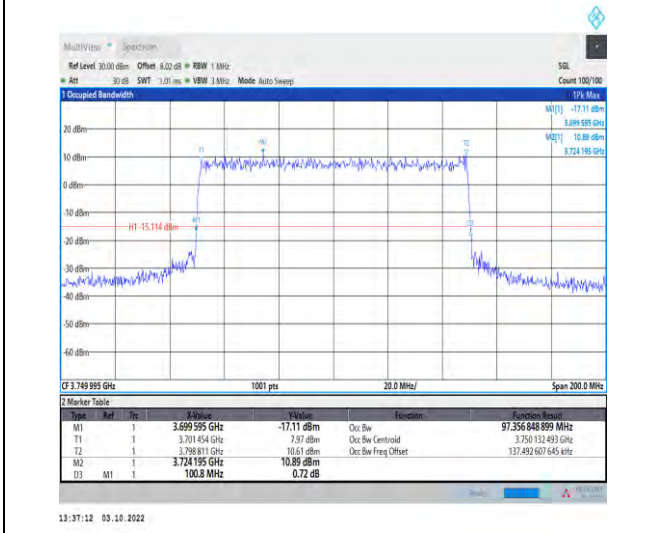
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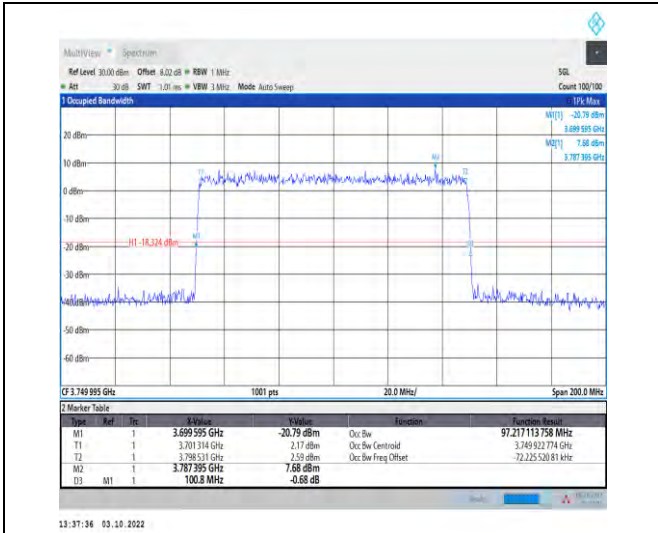
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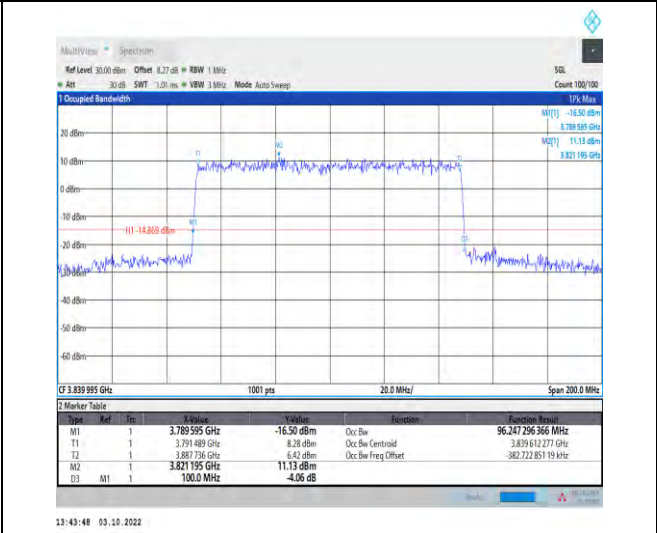
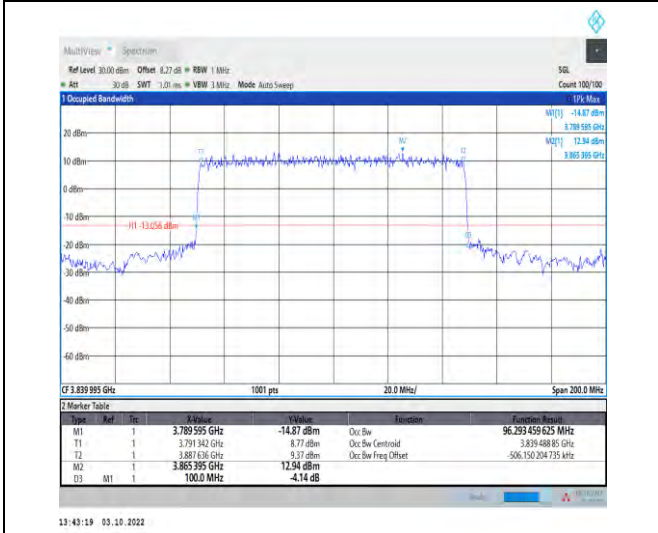
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1-N77-3700-3980--30-100-M-1-DFT-QPSK-Outer_F ull-270@0-Ant1-96.407-99.800-<=100-PASS



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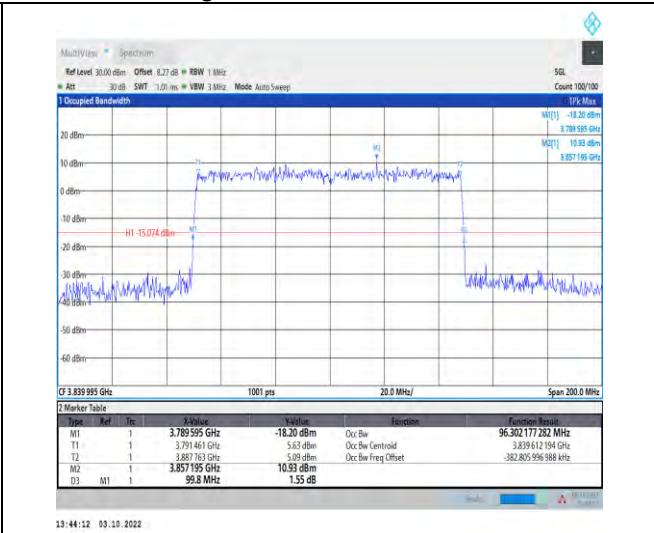
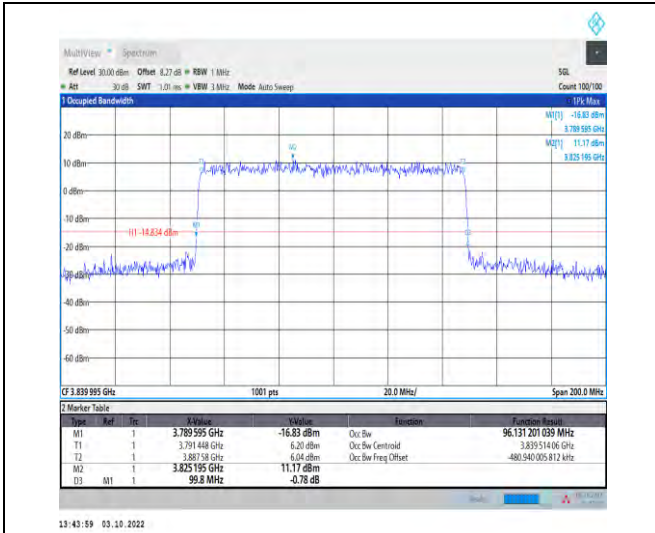
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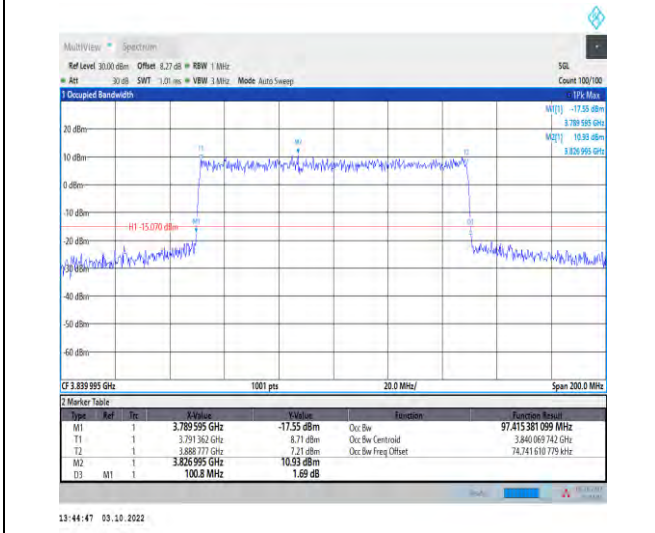
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1-N77-3700-3980--30-100-M-4-DFT-64QAM-Outer_Full-270@0-Ant1-96.131-99.800-≤100-PASS

1-N77-3700-3980--30-100-M-5-DFT-256QAM-Outer_Full-270@0-Ant1-96.302-99.800-≤100-PASS



1-N77-3700-3980--30-100-M-6-CP-QPSK-Outer_Full-273@0-Ant1-97.415-100.800-≤100-PASS

1-N77-3700-3980--30-100-M-7-CP-16QAM-Outer_Full-273@0-Ant1-97.418-100.800-≤100-PASS



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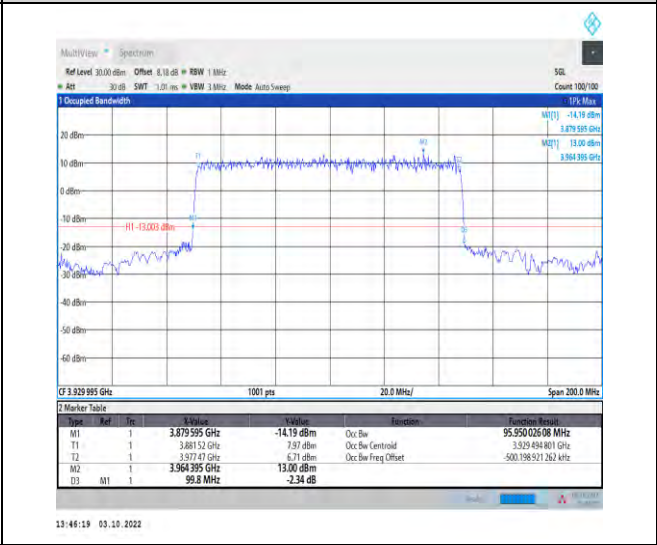
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1-N77-3700-3980--30-100-M-8-CP-64QAM-Outer_F ull-273@0-Ant1-97.365-101.000-≤100-PASS

1-N77-3700-3980--30-100-M-9-CP-256QAM-Outer_Full-273@0-Ant1-97.317-100.800-≤100-PASS



1-N77-3700-3980--30-100-H-1-DFT-QPSK-Outer_Fu ll-270@0-Ant1-96.148-99.600-≤100-PASS

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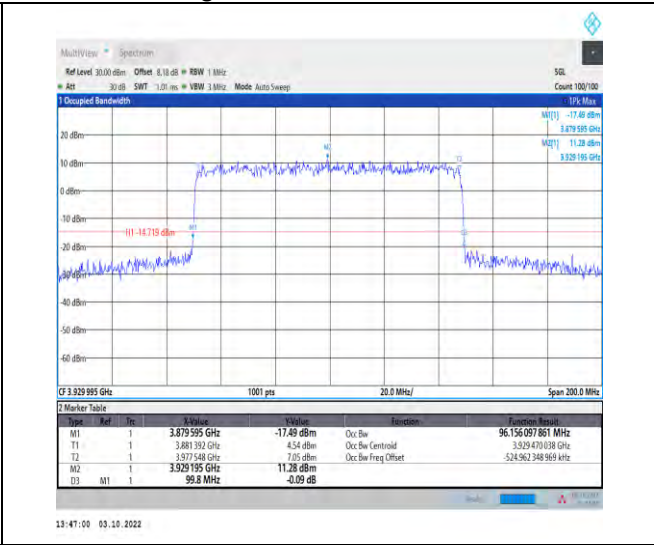
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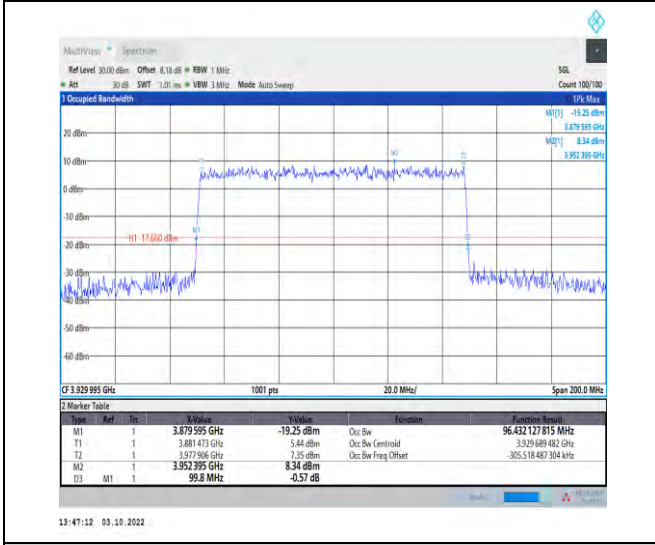
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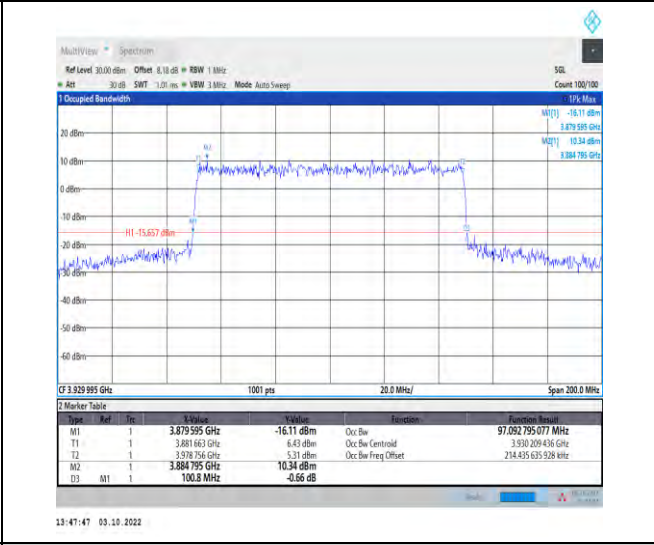
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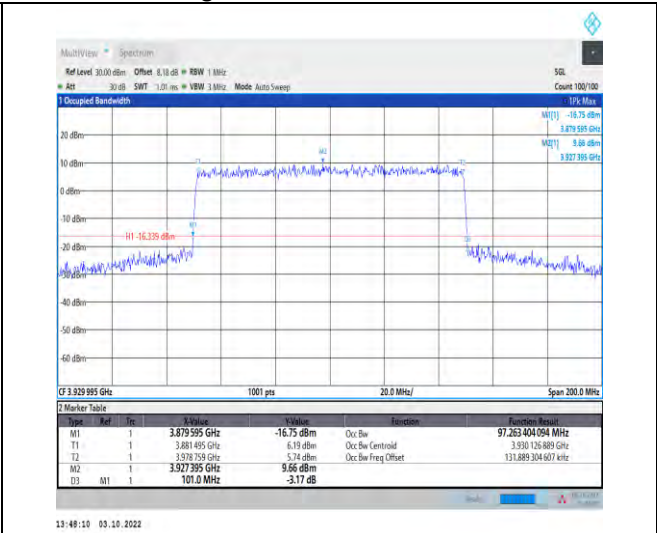


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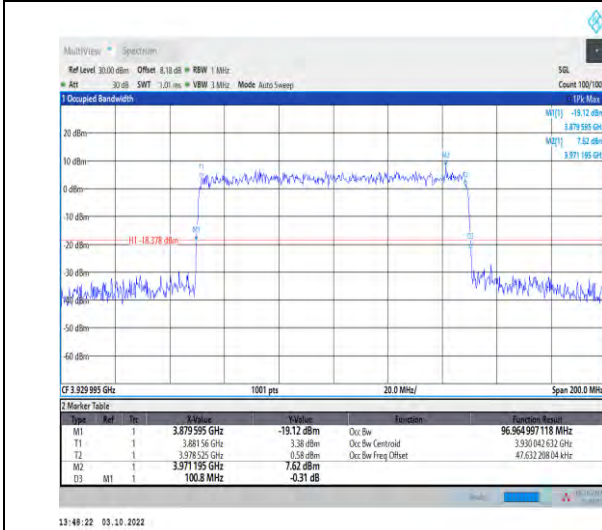
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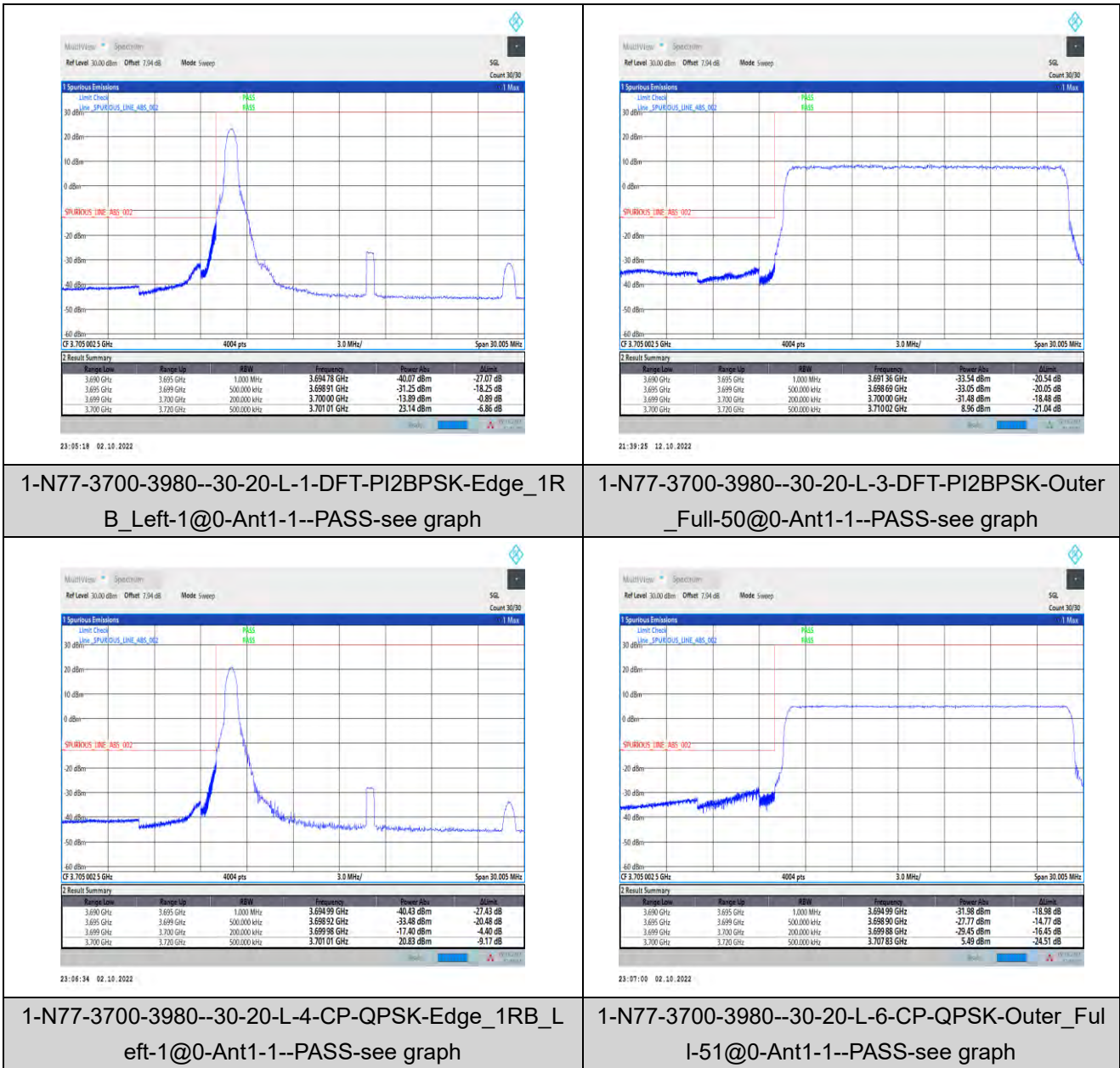
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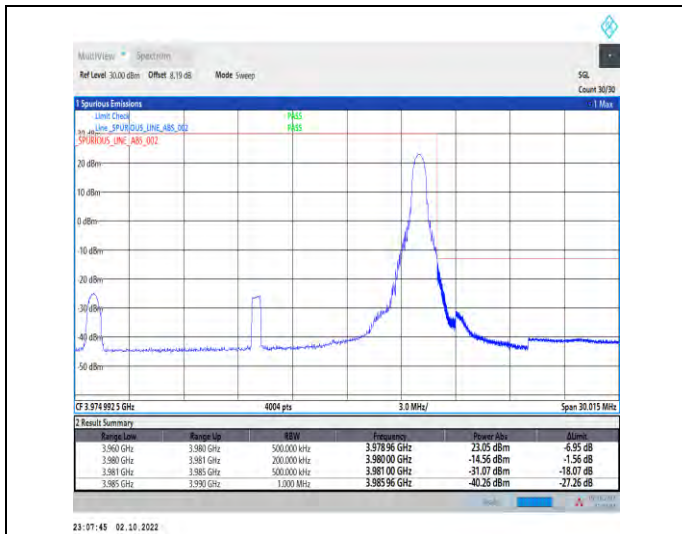
Test Graphs



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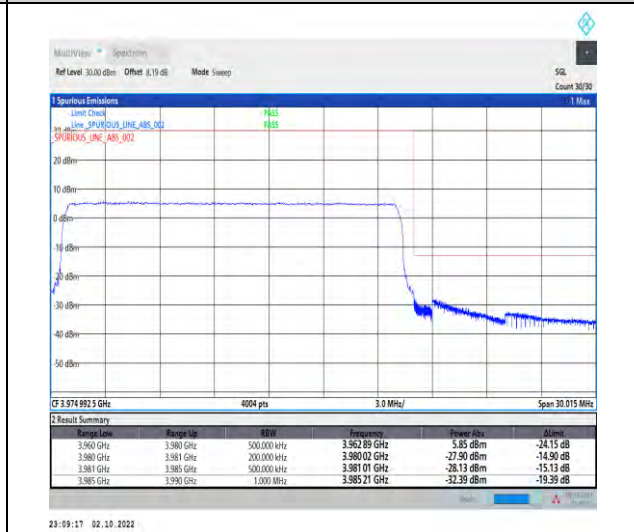
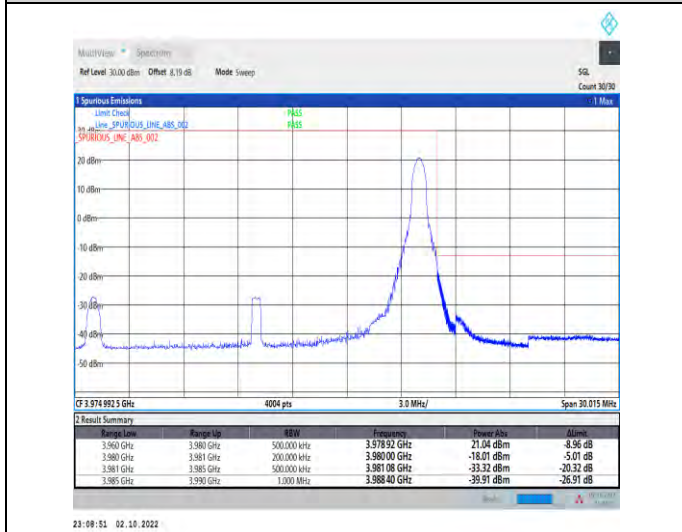
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1-N77-3700-3980--30-20-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@50-Ant1-1--PASS-see graph

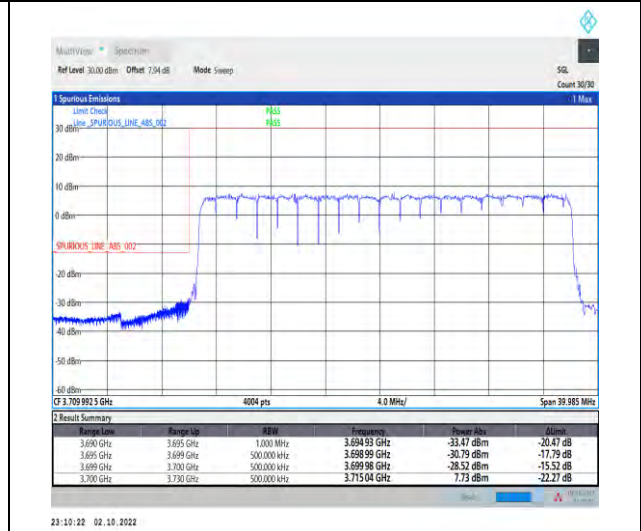
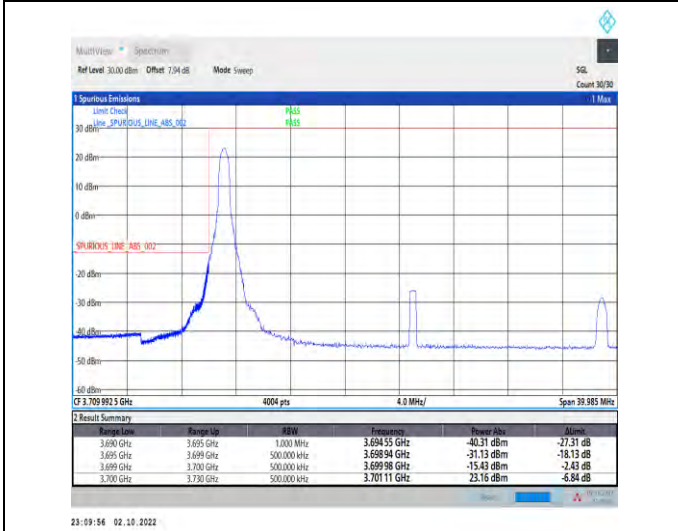
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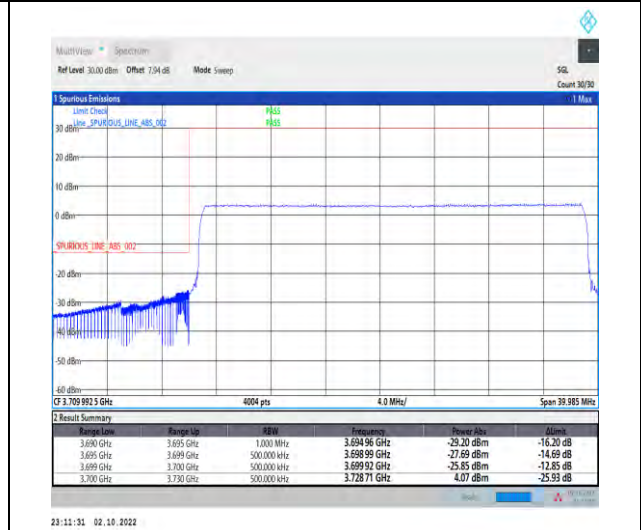
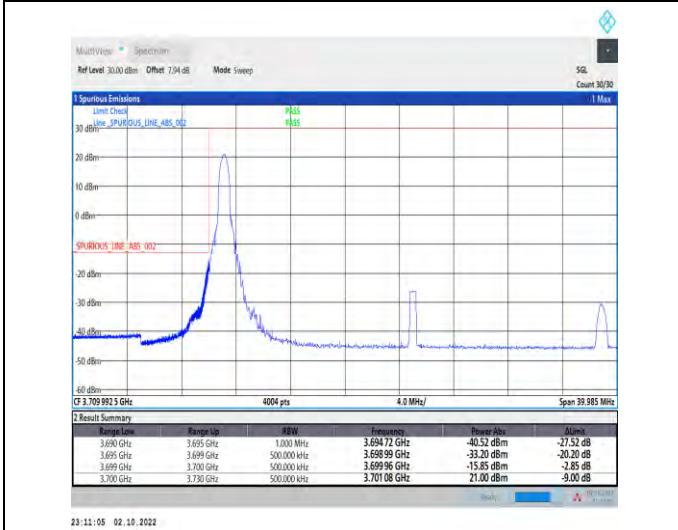
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1-N77-3700-3980--30-30-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

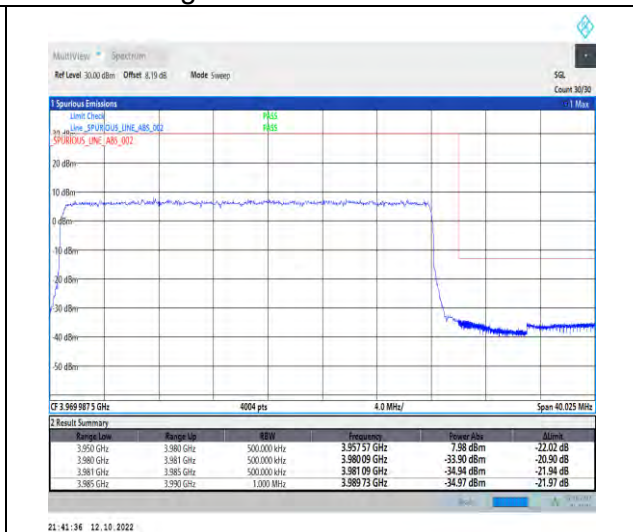
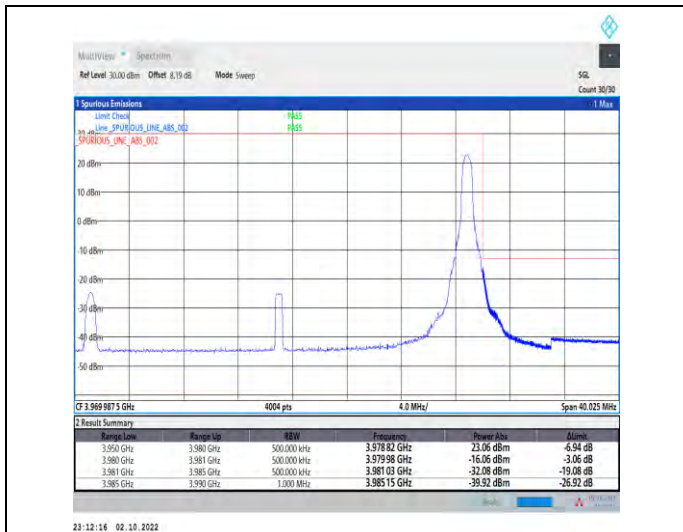
1-N77-3700-3980--30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant1-1--PASS-see graph



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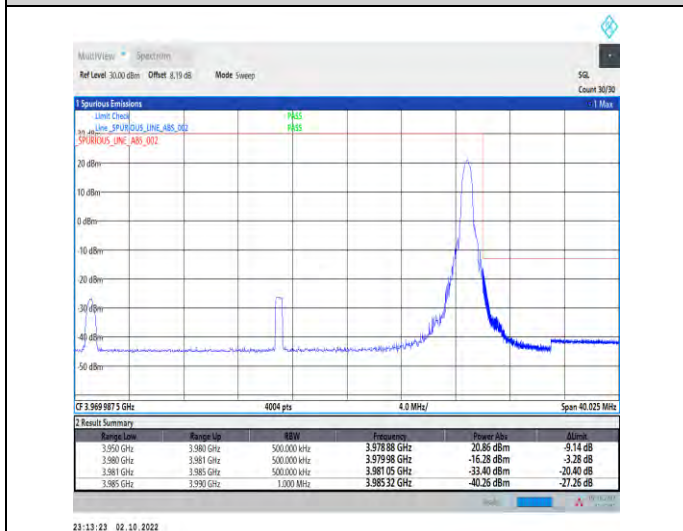
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1-N77-3700-3980--30-30-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@77-Ant1-1--PASS-see graph

1-N77-3700-3980--30-30-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-Ant1-1--PASS-see graph

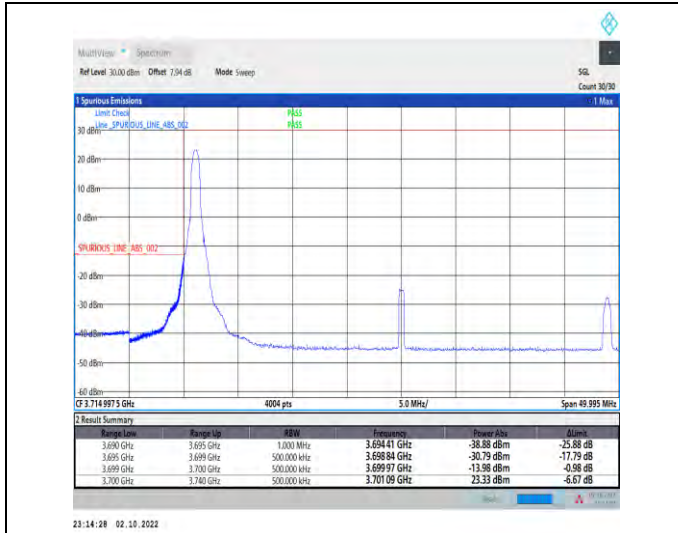
1-N77-3700-3980--30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant1-1--PASS-see graph



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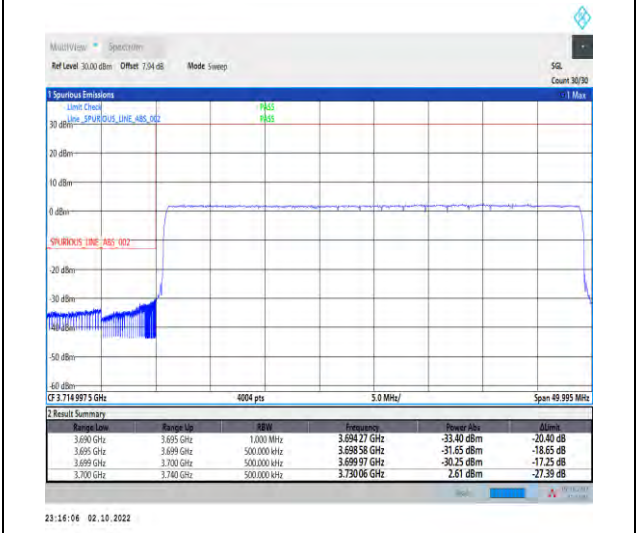
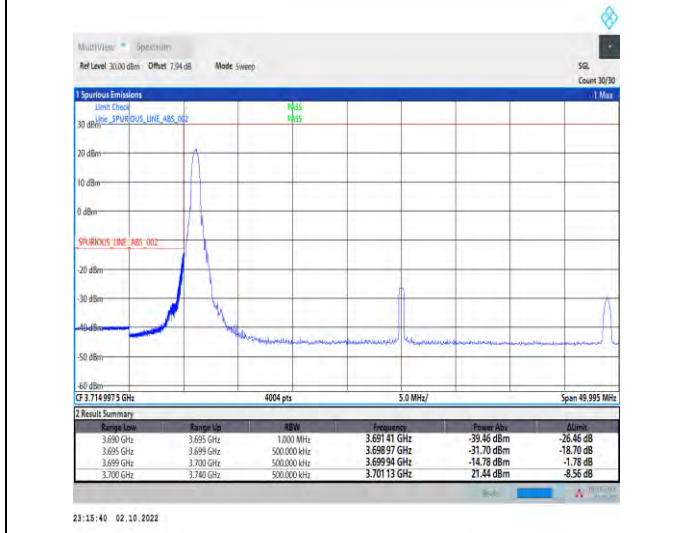
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1-N77-3700-3980--30-40-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

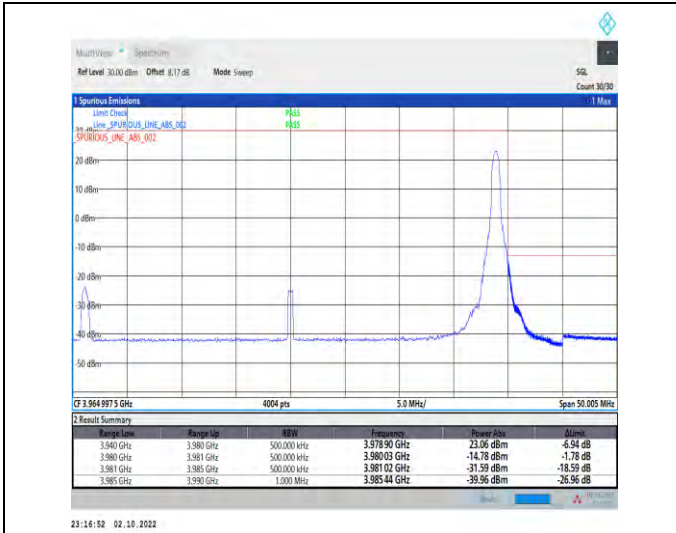
1-N77-3700-3980--30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant1-1--PASS-see graph



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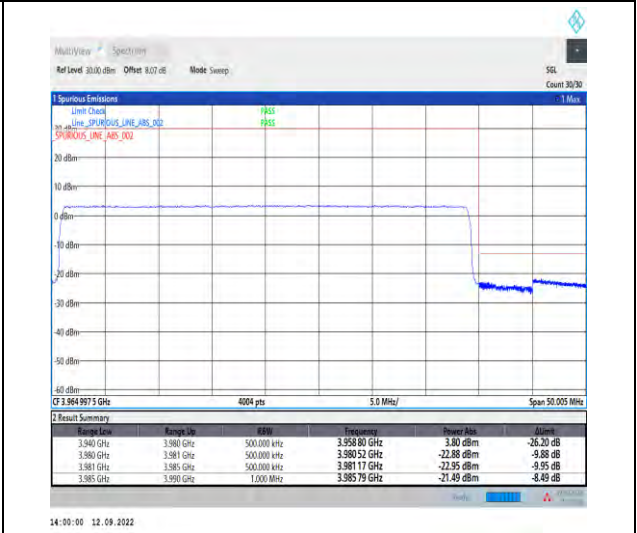
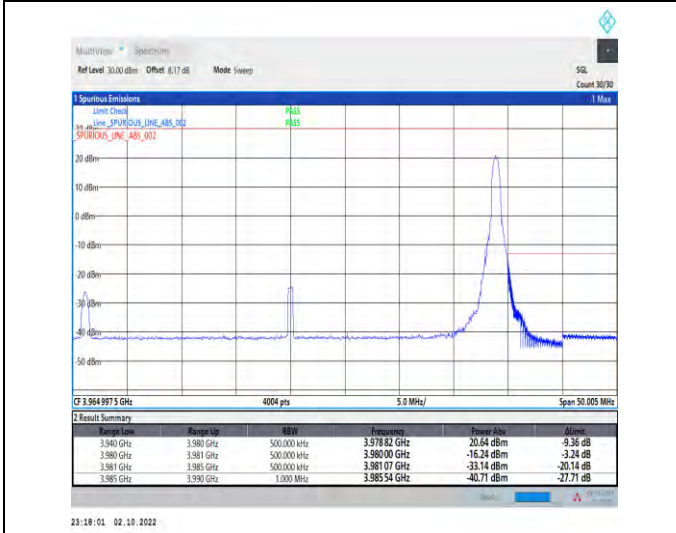
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1-N77-3700-3980--30-40-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@105-Ant1-1--PASS-see graph

1-N77-3700-3980--30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph

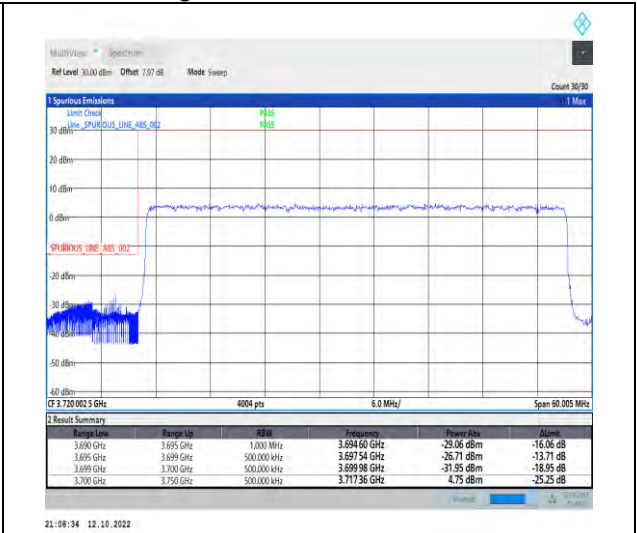
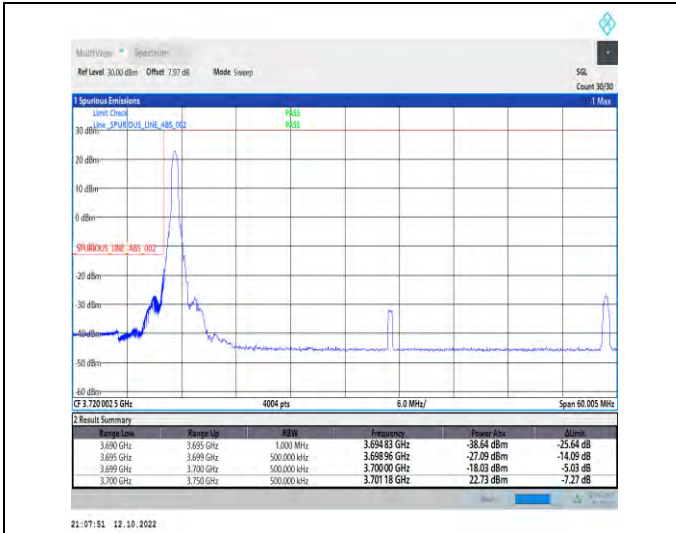
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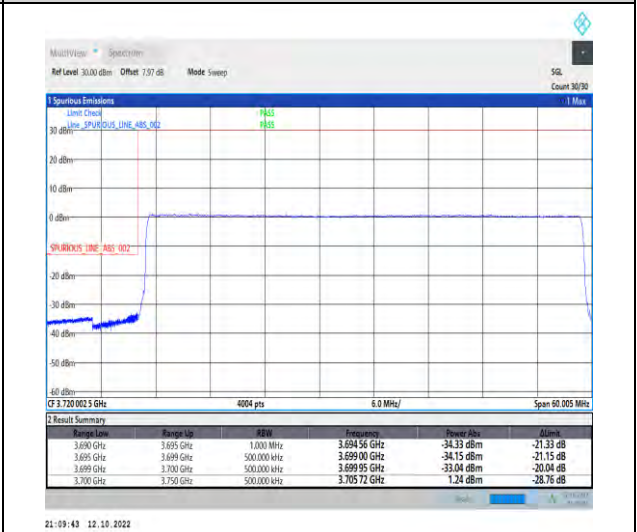
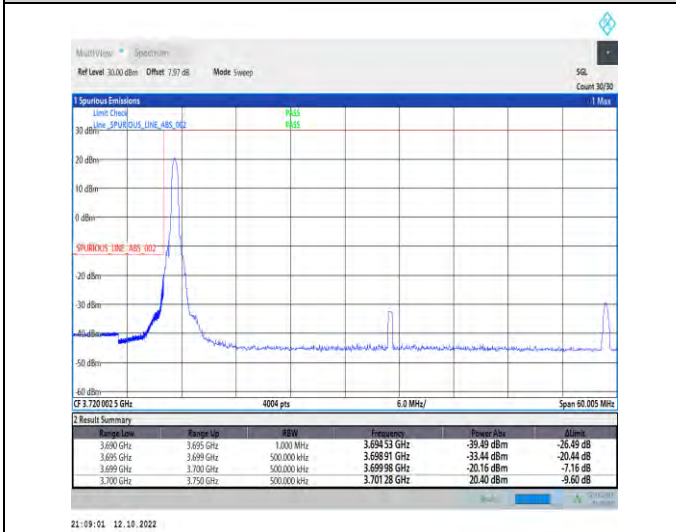
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1-N77-3700-3980--30-50-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-50-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph



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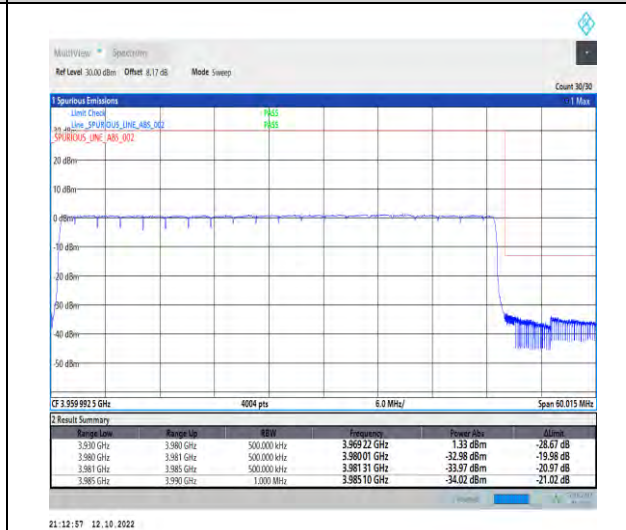
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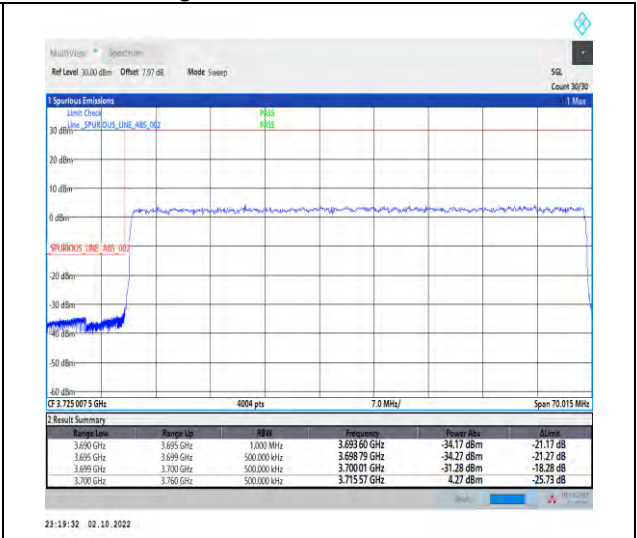
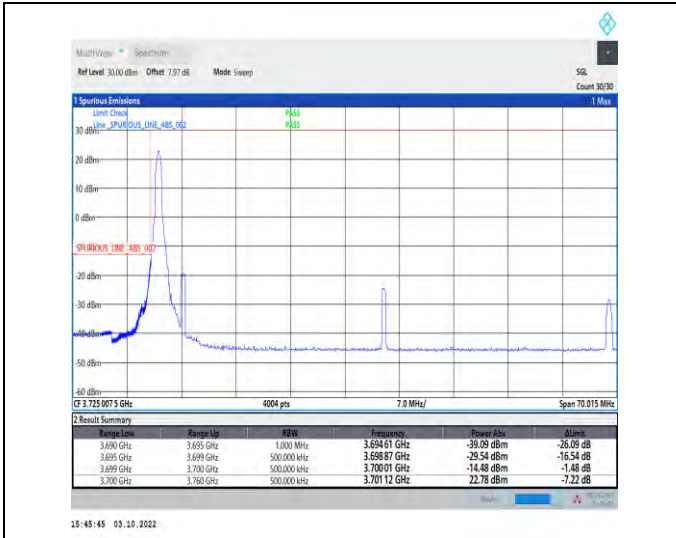
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1-N77-3700-3980--30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph

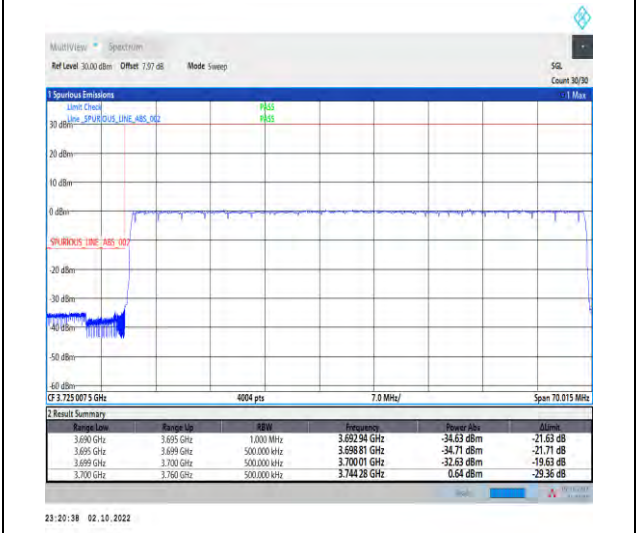
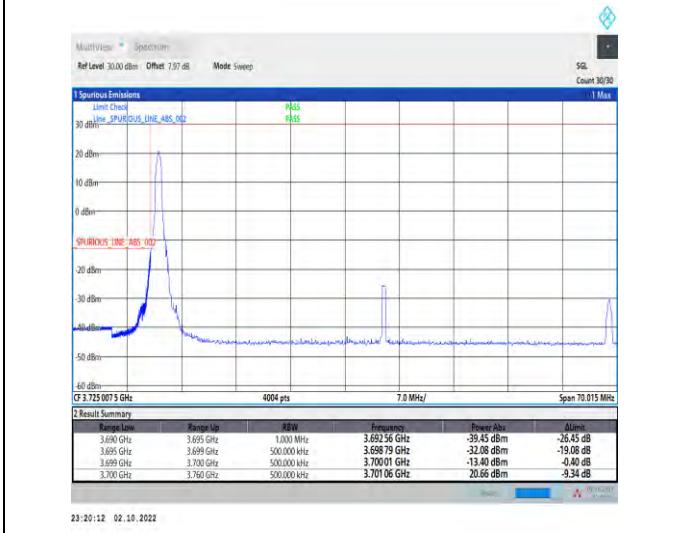
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1-N77-3700-3980--30-60-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



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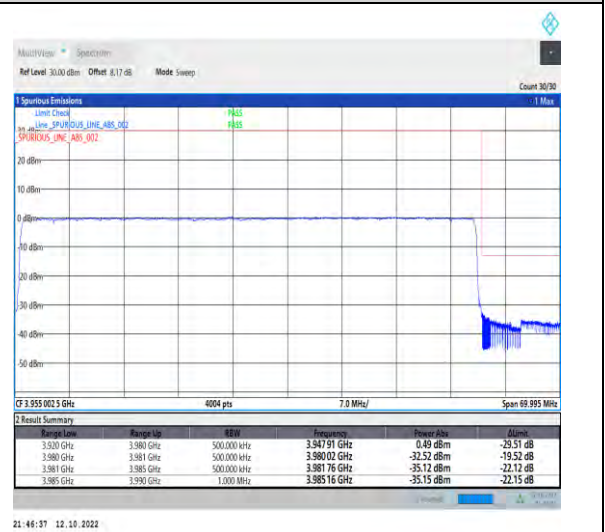
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1-N77-3700-3980--30-60-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@161-Ant1-1--PASS-see graph

1-N77-3700-3980--30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



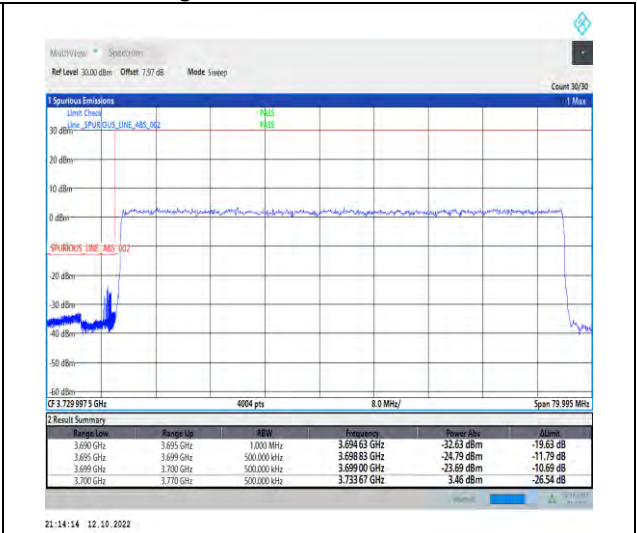
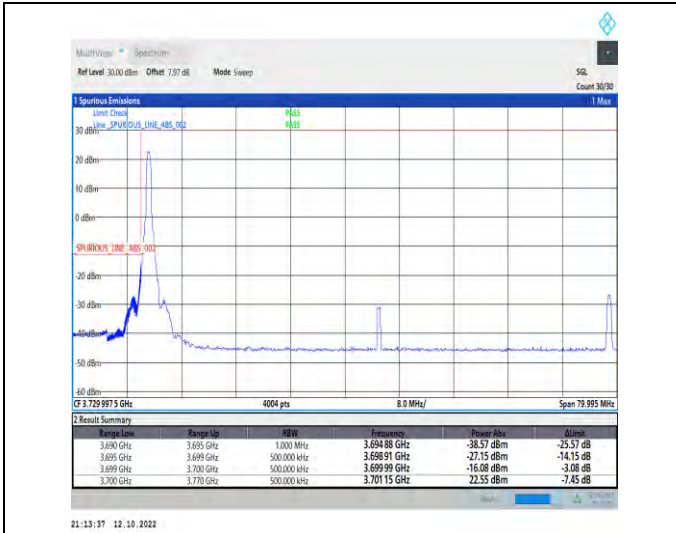
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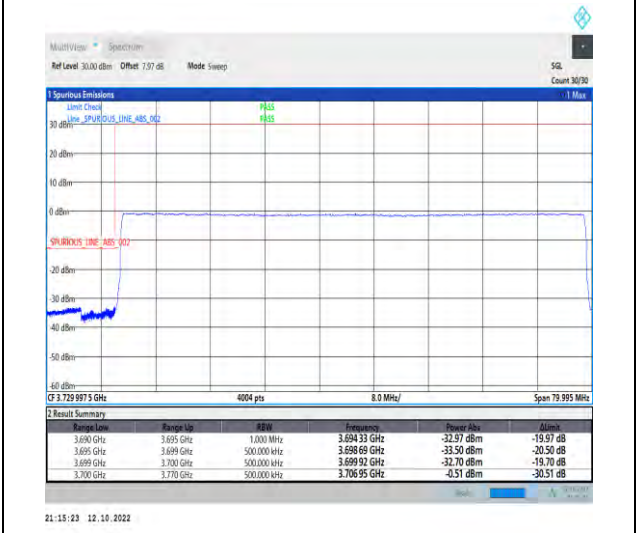
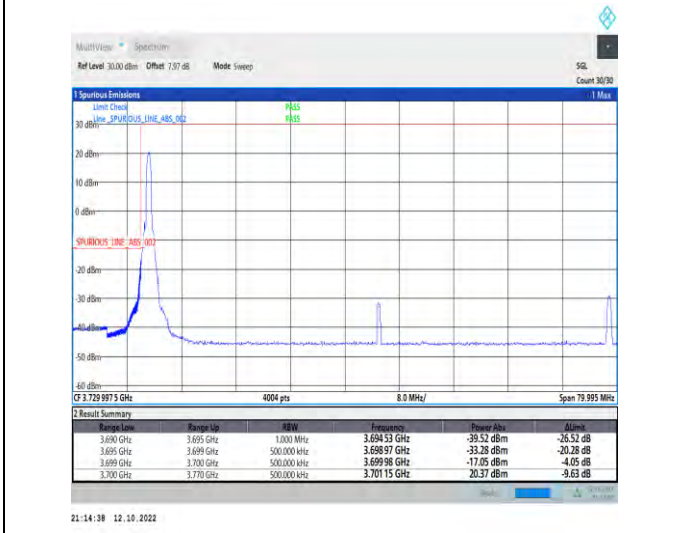
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1-N77-3700-3980--30-70-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-70-L-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-70-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant1-1--PASS-see graph



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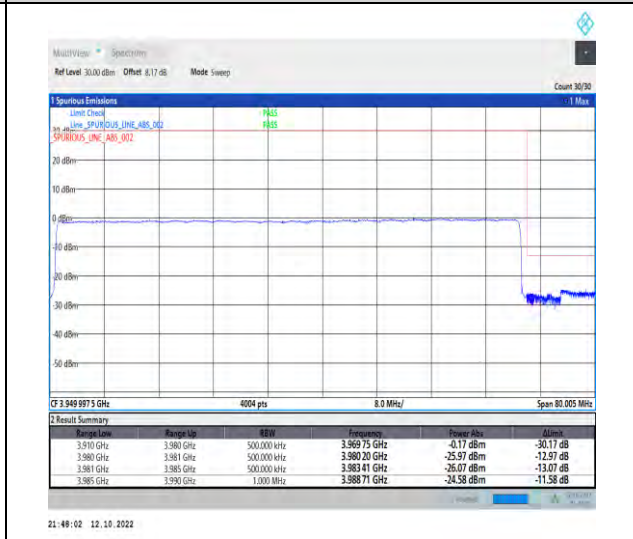
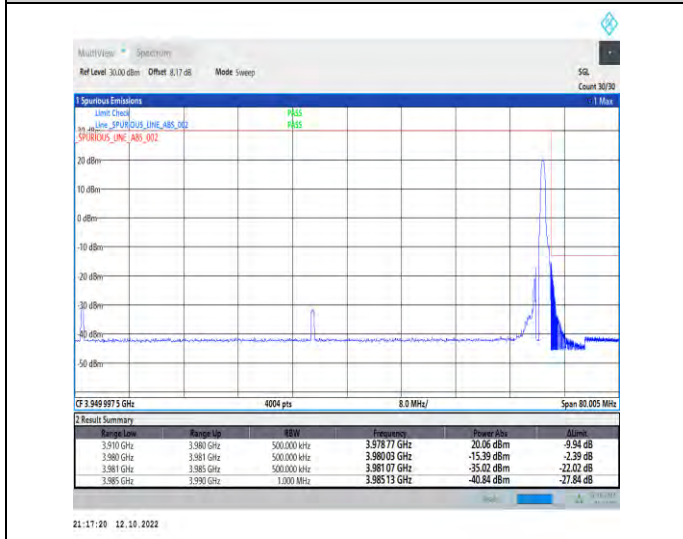
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1-N77-3700-3980--30-70-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@188-Ant1-1--PASS-see graph

1-N77-3700-3980--30-70-H-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-1--PASS-see graph



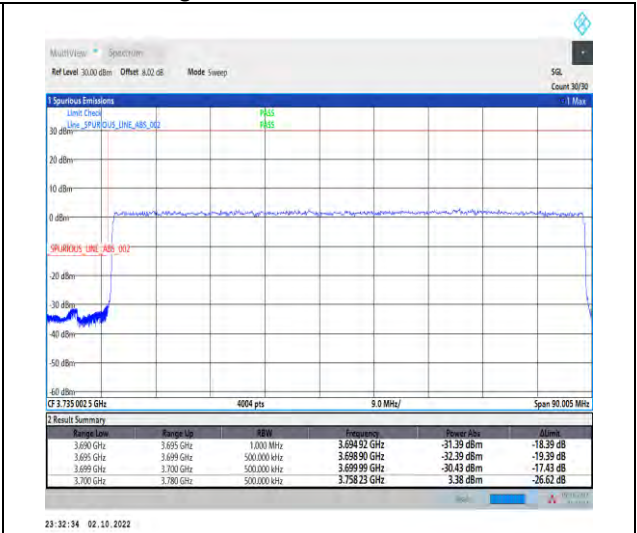
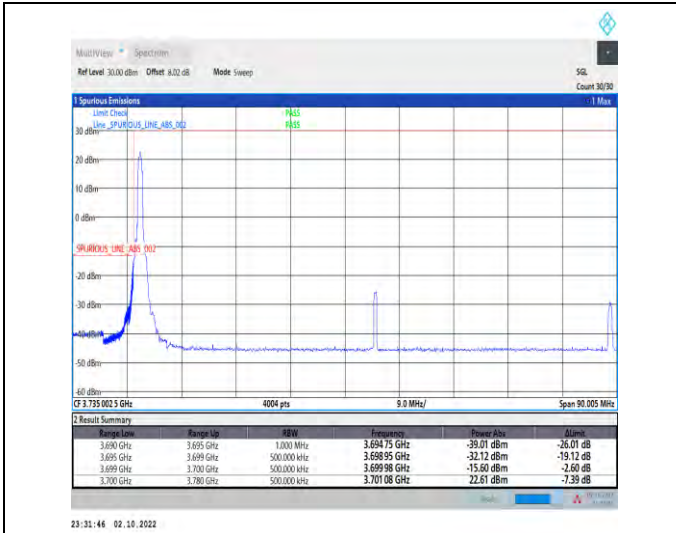
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1-N77-3700-3980--30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant1-1--PASS-see graph



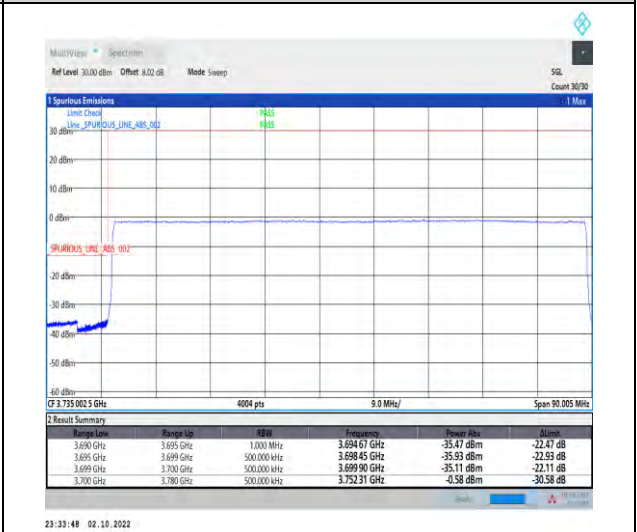
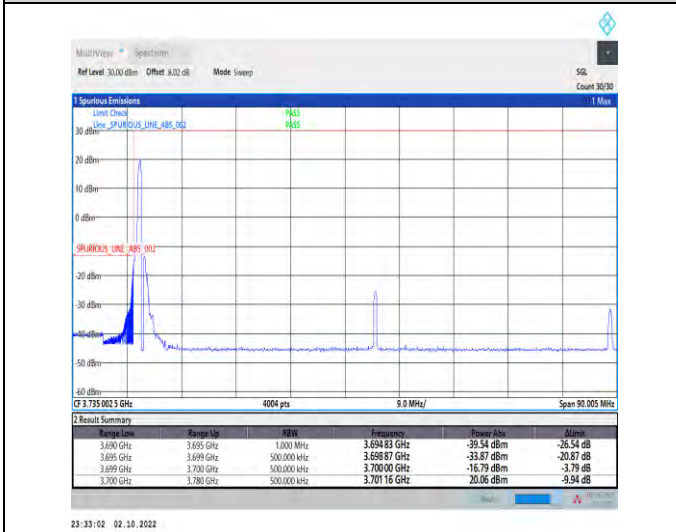
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1-N77-3700-3980--30-80-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



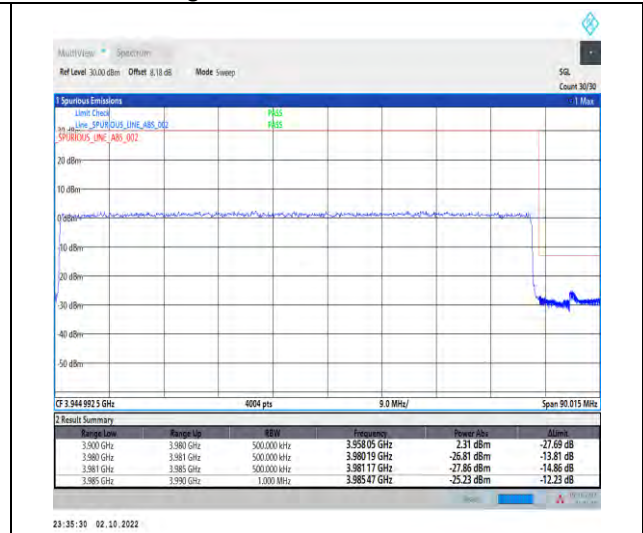
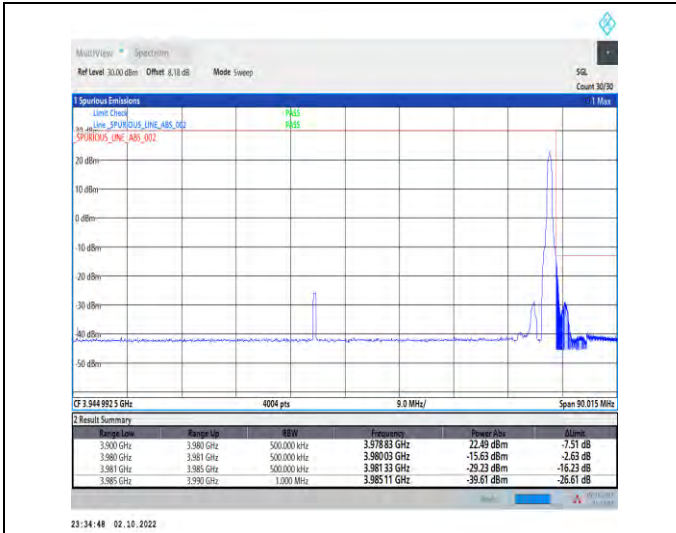
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1-N77-3700-3980--30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph



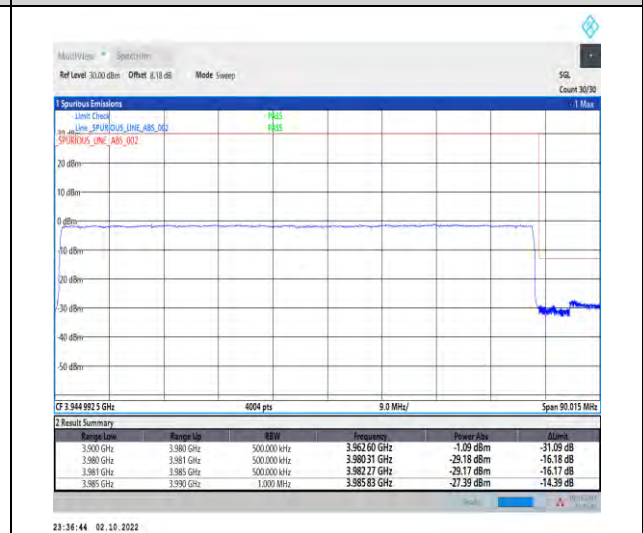
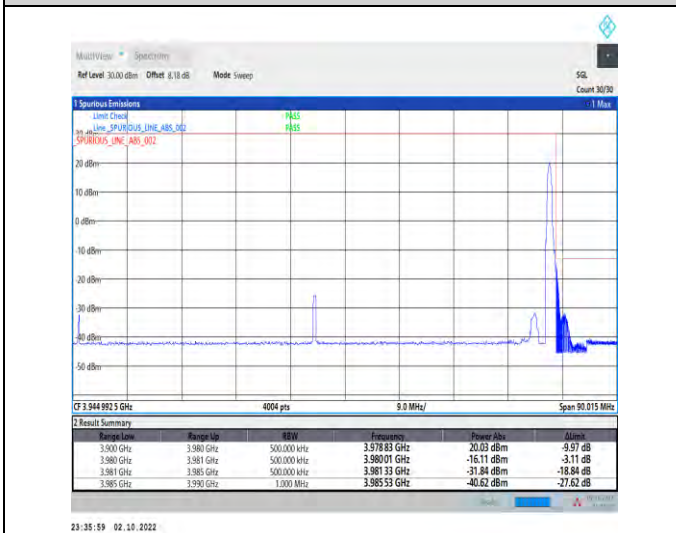
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1-N77-3700-3980--30-80-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@216-Ant1-1--PASS-see graph

1-N77-3700-3980--30-80-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-80-H-5-CP-QPSK-Edge_1RB_R ight-1@216-Ant1-1--PASS-see graph

1-N77-3700-3980--30-80-H-6-CP-QPSK-Outer_Ful I-217@0-Ant1-1--PASS-see graph



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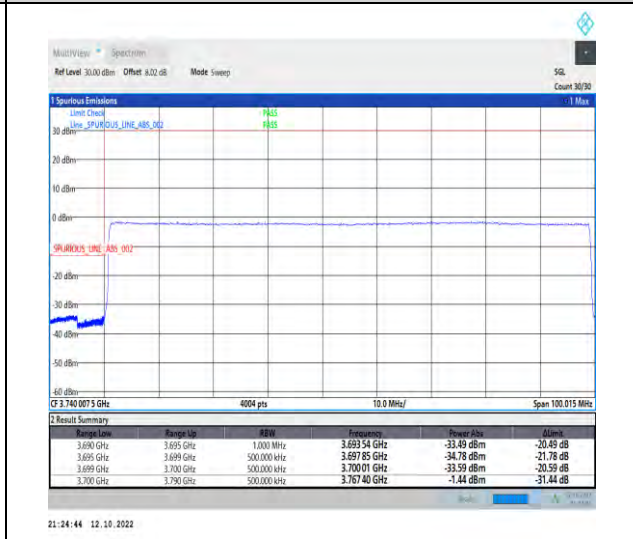
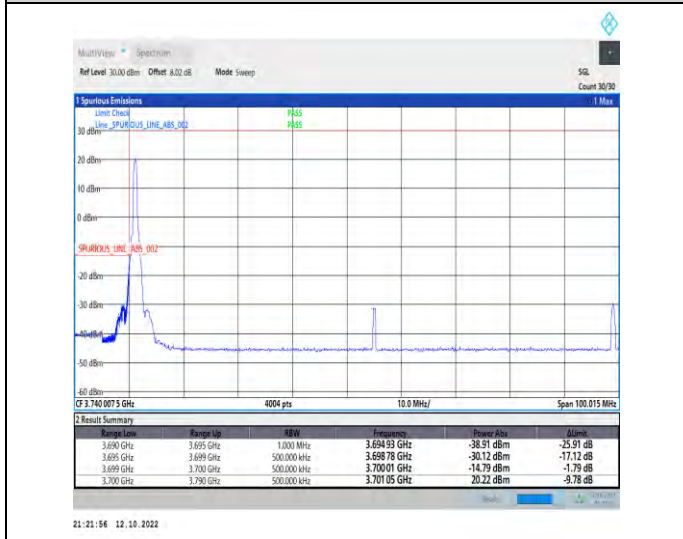
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1-N77-3700-3980--30-90-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-90-L-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

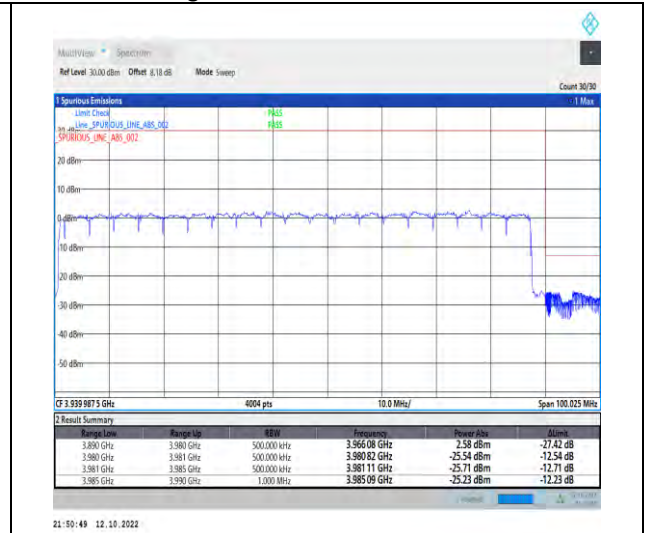
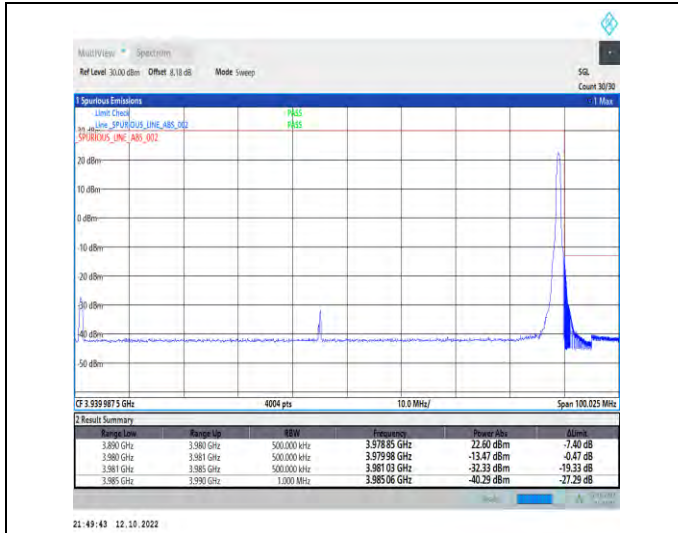
1-N77-3700-3980--30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph



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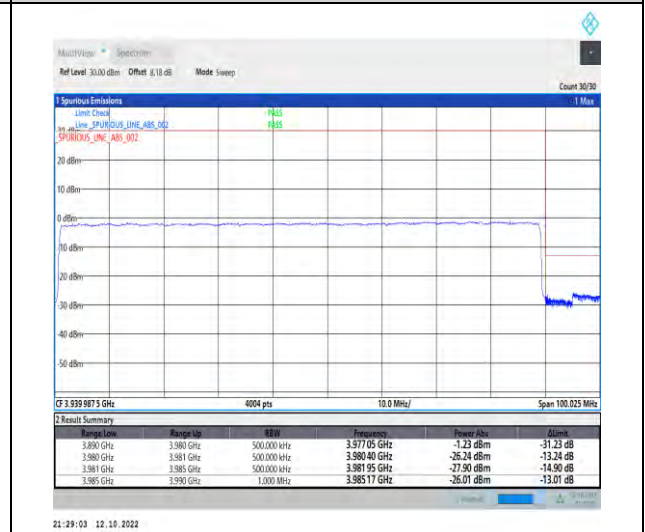
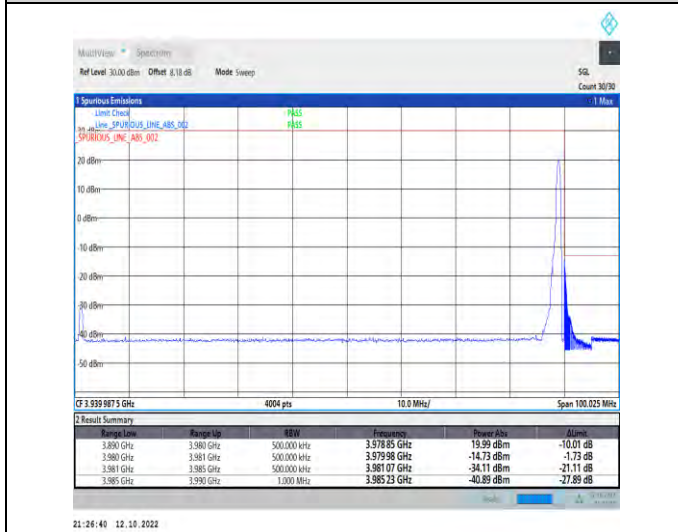
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1-N77-3700-3980--30-90-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@244-Ant1-1--PASS-see graph

1-N77-3700-3980--30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-1--PASS-see graph

1-N77-3700-3980--30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph

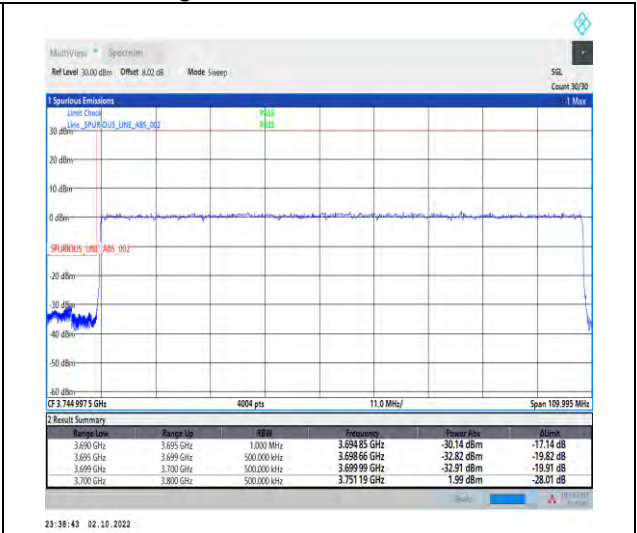
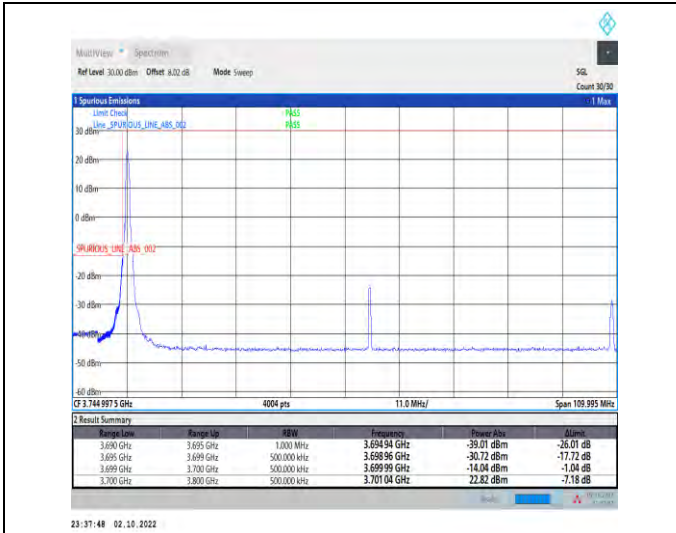


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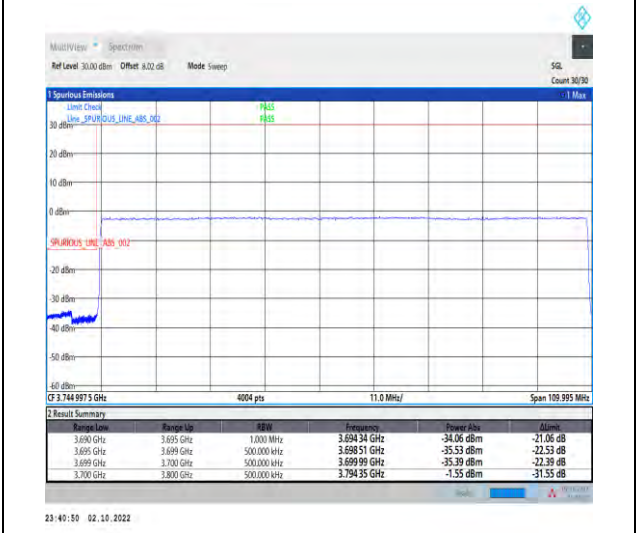
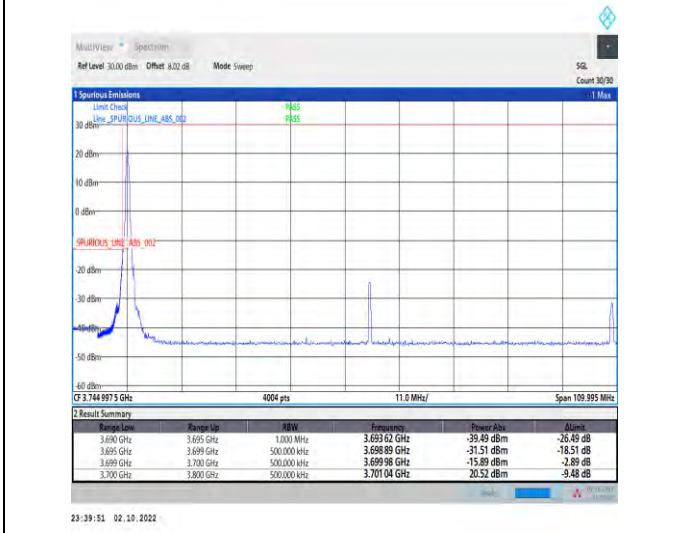
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1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Edge_1 RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980--30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

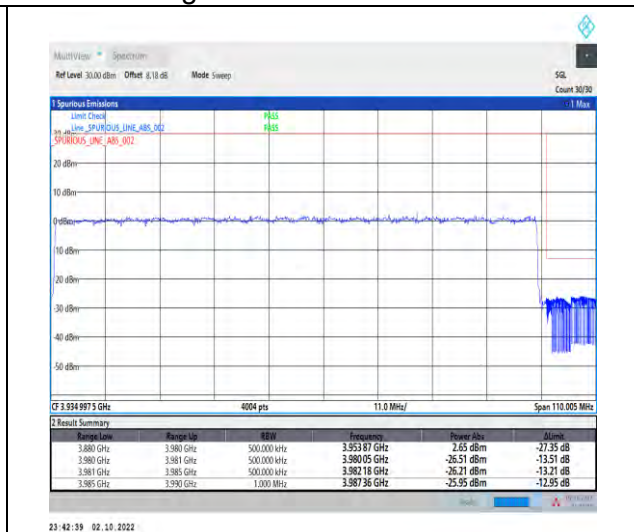
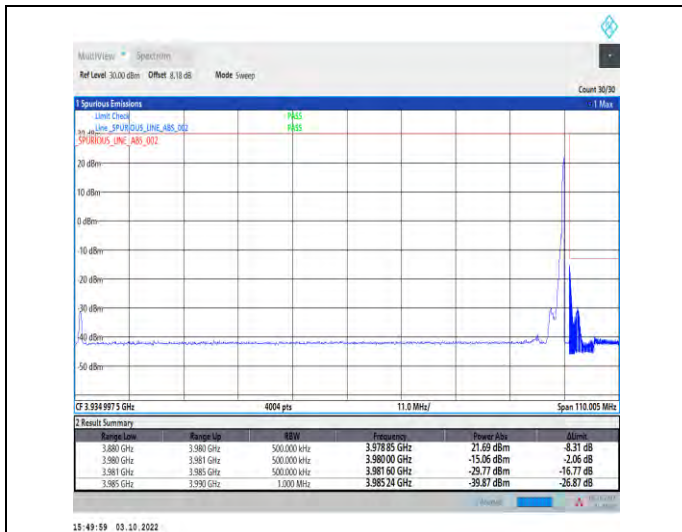
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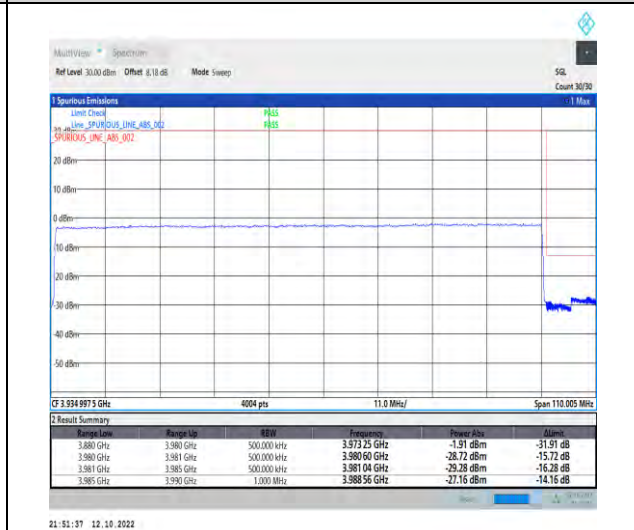
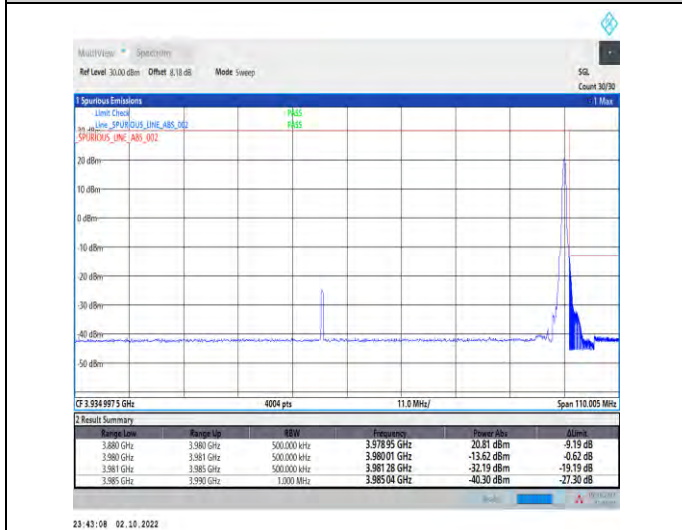
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1-N77-3700-3980--30-100-H-2-DFT-PI2BPSK-Edge_1 RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980--30-100-H-3-DFT-PI2BPSK-Out er_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980--30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



Conducted Spurious Emission for SA

Test Graphs

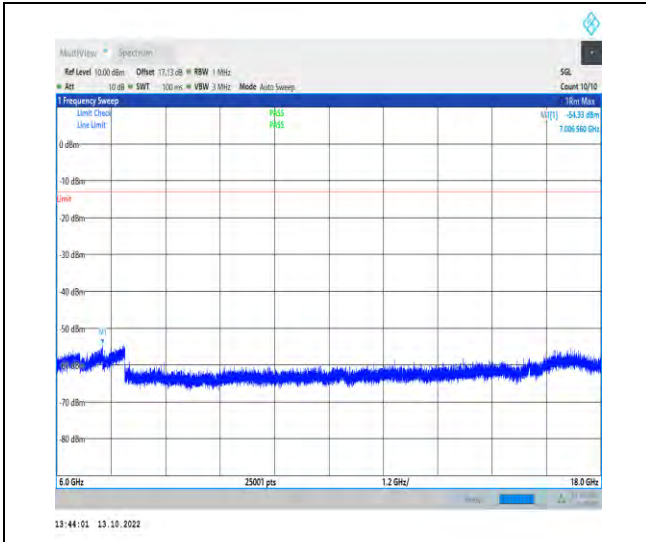
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<p>1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-77.05--68.03--13-PA SS</p>	<p>1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5940.00--39.24--13-PASS</p>



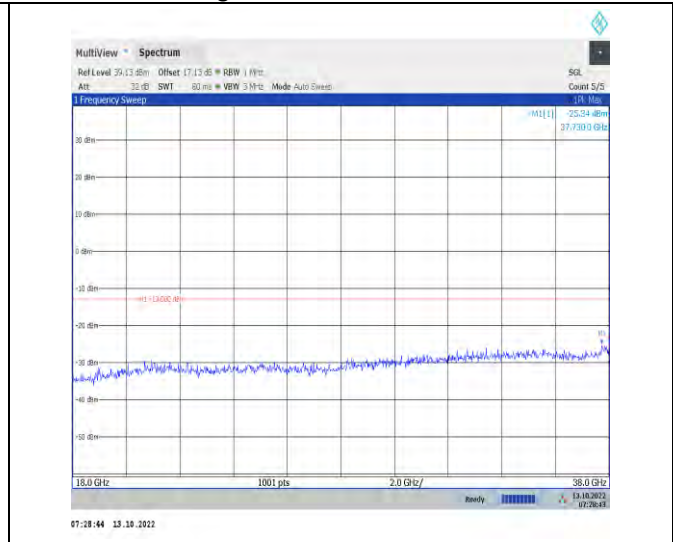
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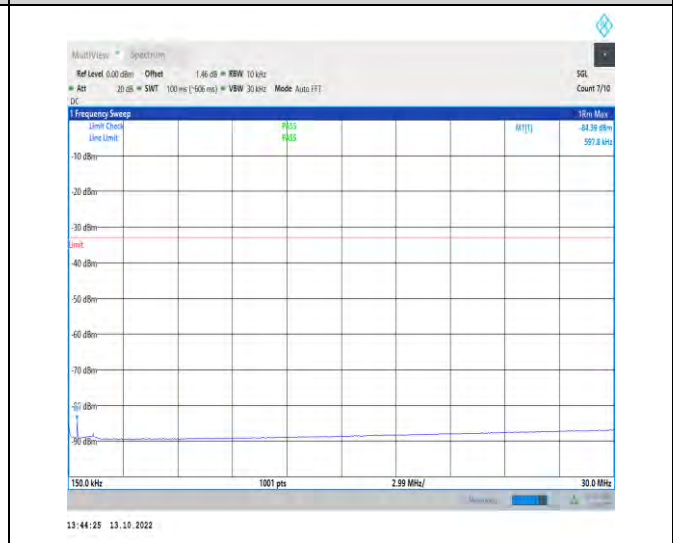
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1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-38000-Ant1-18000.00--57.28--13-PASS



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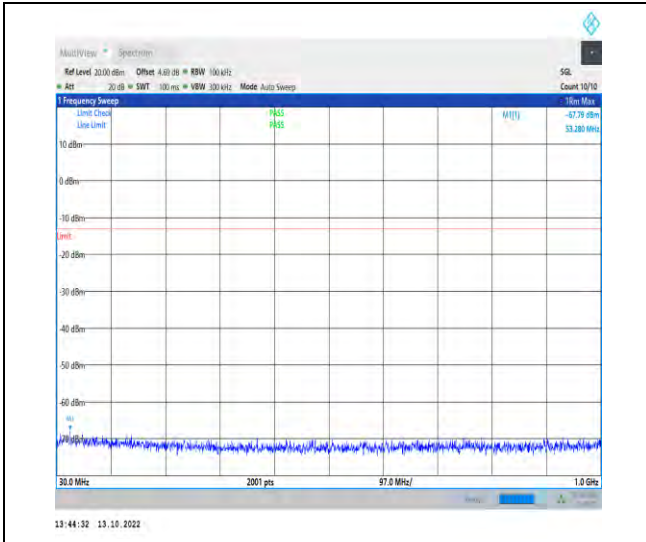


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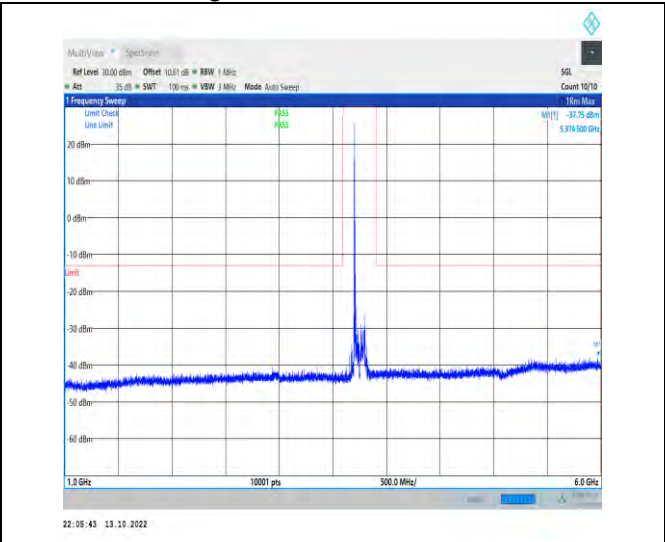


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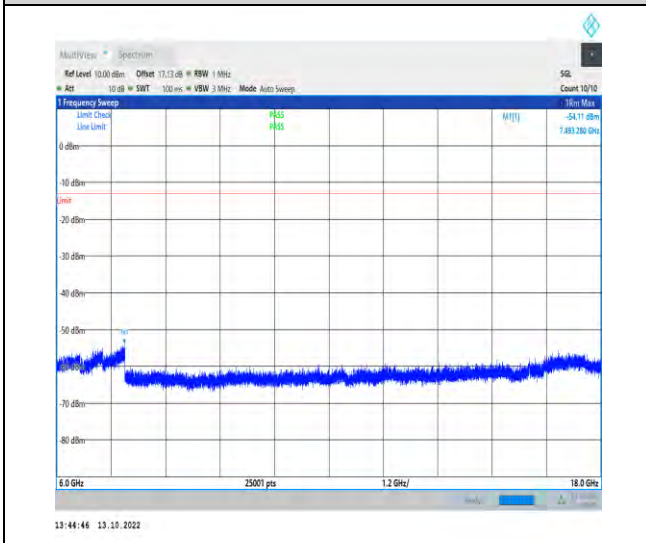
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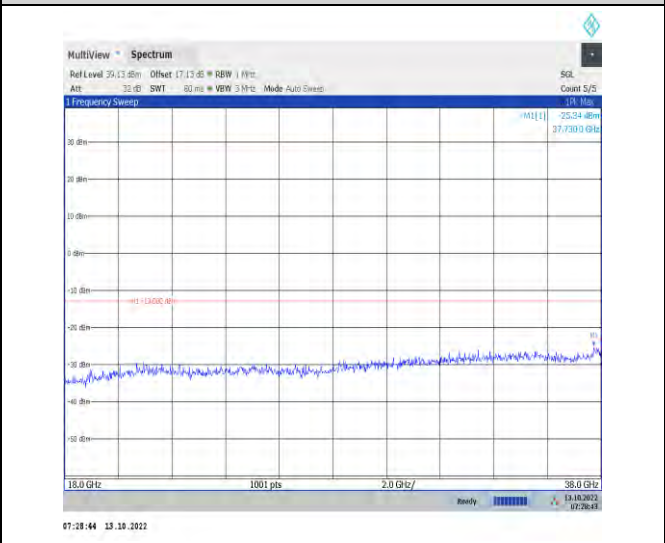
1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-53.28--67.79--13-PA SS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5902.50--39.04--13-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1-7493.28--54.11--13-PASS

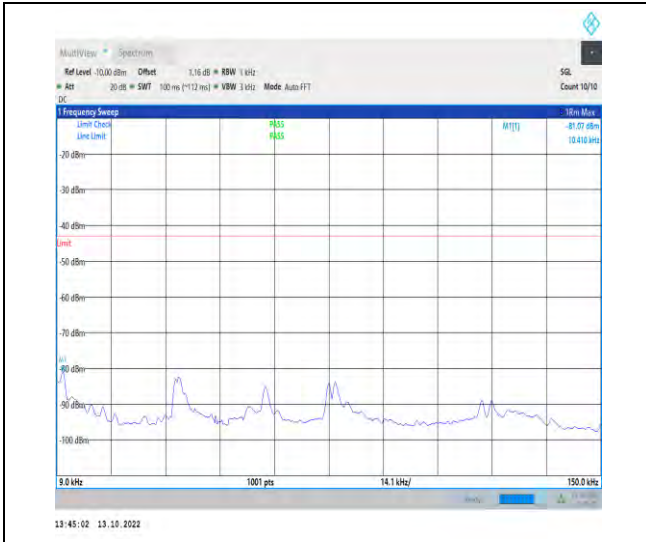


1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-38000-Ant1-18000.00--57.56--13-PASS

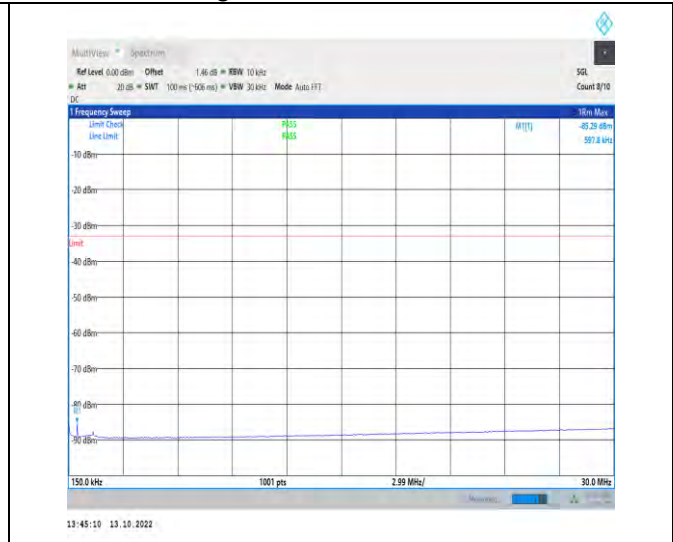


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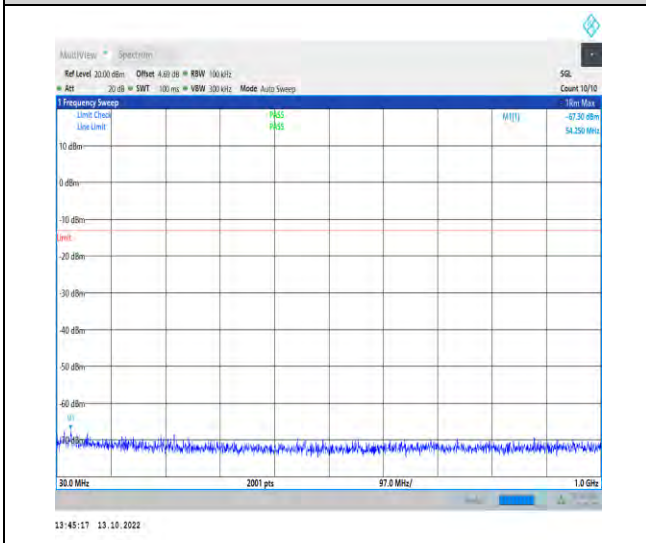
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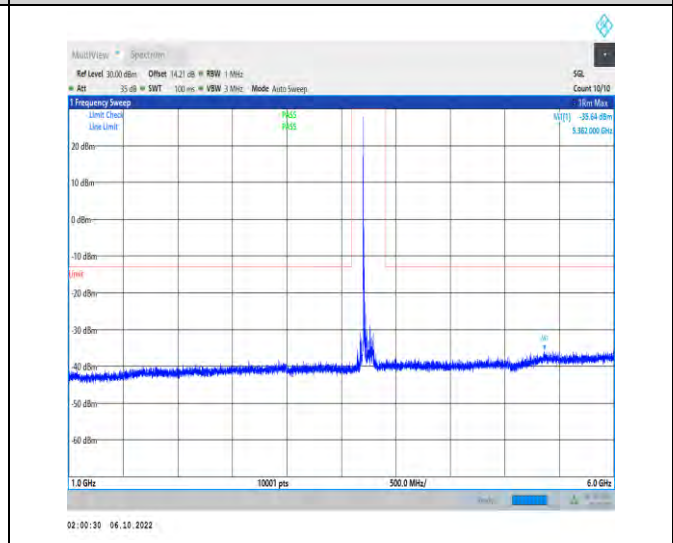
1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--81.07--43-P ASS



1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.60--85.29--33-PASS



1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-54.25--67.30--13-PASS

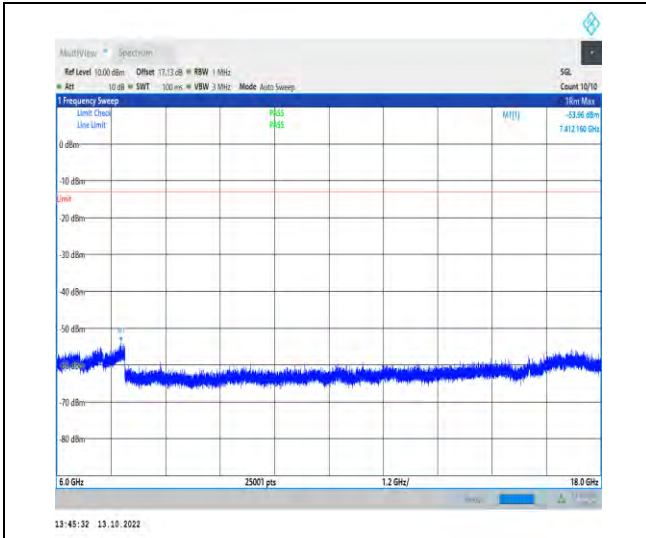


1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5944.00--38.61--13-PASS

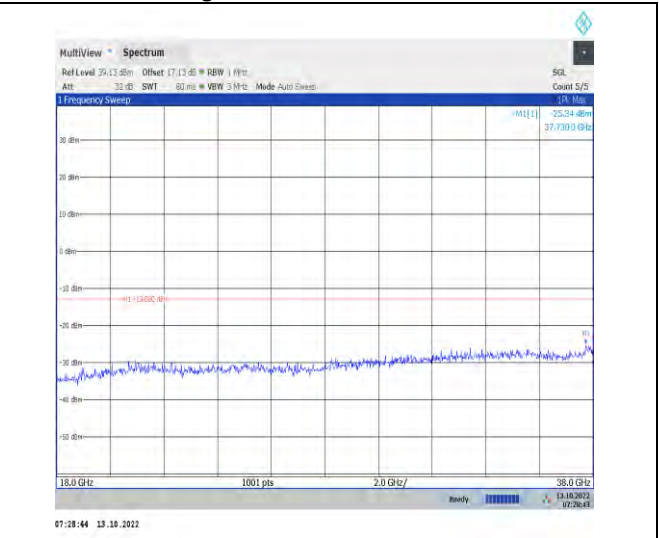


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1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner
_1RB_Left-1@1-6000-18000-Ant1-7412.16--53.96--
13-PASS



1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner_
1RB_Left-1@1-18000-38000-Ant1-18000.00--57.34--
13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 77 3700M-3980M ANT2_ TM1

Test Channel = Low 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	7310.18	48.03	-41.76	36.39	-52.60	-13.00	39.60	263	78	Horizontal
2	9260.9583	46.76	-38.32	38.57	-48.25	-13.00	35.25	365	93	Horizontal
3	10965.27	39.20	-35.62	39.56	-52.12	-13.00	39.12	241	225	Horizontal
4	13590.7083	42.84	-34.37	39.95	-46.83	-13.00	33.83	142	359	Horizontal
5	14620.36	39.67	-34.12	39.58	-50.14	-13.00	37.14	201	52	Horizontal
6	17867.75	41.25	-31.08	42.07	-43.02	-13.00	30.02	145	93	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	7310.18	46.90	-41.76	36.39	-53.73	-13.00	40.73	142	274	Vertical
2	9267.6667	47.65	-38.34	38.57	-47.37	-13.00	34.37	265	13	Vertical
3	10965.27	39.16	-35.62	39.56	-52.16	-13.00	39.16	285	303	Vertical
4	12650.5833	43.13	-34.95	39.25	-47.83	-13.00	34.83	241	77	Vertical
5	14620.36	39.24	-34.12	39.58	-50.57	-13.00	37.57	142	3	Vertical
6	17726.875	40.00	-31.00	41.51	-44.76	-13.00	31.76	286	274	Vertical



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Test Band = SA Band 77 3700M-3980M ANT2_ 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	7590.18	47.24	-41.27	36.68	-52.61	-13.00	39.61	296	145	Horizontal
2	9287.7917	47.08	-38.37	38.57	-47.98	-13.00	34.98	265	40	Horizontal
3	11835.27	40.17	-35.25	38.76	-51.57	-13.00	38.57	201	119	Horizontal
4	13700.9167	42.72	-34.89	40.02	-47.41	-13.00	34.41	142	292	Horizontal
5	15180.36	39.45	-33.62	38.97	-50.46	-13.00	37.46	263	304	Horizontal
6	17920.4583	41.15	-31.21	42.28	-43.03	-13.00	30.03	365	145	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	7590.18	47.33	-41.27	36.68	-52.52	-13.00	39.52	265	235	Vertical
2	9295.4583	47.24	-38.38	38.57	-47.83	-13.00	34.83	241	223	Vertical
3	11835.27	41.13	-35.25	38.76	-50.61	-13.00	37.61	174	182	Vertical
4	13231.3333	43.49	-34.84	39.74	-46.87	-13.00	33.87	142	3	Vertical
5	15180.36	39.15	-33.62	38.97	-50.76	-13.00	37.76	285	223	Vertical
6	17976.0417	40.33	-31.28	42.50	-43.70	-13.00	30.70	265	169	Vertical



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Test Band = SA Band 77 3700M-3980M ANT2_ TM1

Test Channel = High 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	7870.18	46.80	-40.75	37.24	-51.97	-13.00	38.97	142	235	Horizontal
2	9293.5417	47.26	-38.38	38.57	-47.81	-13.00	34.81	265	348	Horizontal
3	11805.27	40.02	-35.40	38.79	-51.85	-13.00	38.85	285	223	Horizontal
4	13592.625	42.74	-34.38	39.96	-46.94	-13.00	33.94	253	51	Horizontal
5	15740.36	40.17	-33.70	38.24	-50.56	-13.00	37.56	263	360	Horizontal
6	17843.7917	40.56	-31.01	41.98	-43.74	-13.00	30.74	244	184	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	7870.18	45.09	-40.75	37.24	-53.68	-13.00	40.68	251	360	Vertical
2	9287.7917	46.75	-38.37	38.57	-48.31	-13.00	35.31	142	348	Vertical
3	11805.27	40.73	-35.40	38.79	-51.14	-13.00	38.14	265	360	Vertical
4	13587.8333	42.86	-34.36	39.95	-46.80	-13.00	33.80	296	75	Vertical
5	15740.36	40.92	-33.70	38.24	-49.81	-13.00	36.81	201	11	Vertical
6	17796.8333	41.75	-30.89	41.79	-42.61	-13.00	29.61	148	2	Vertical



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Test Band = SA Band 77 3700M-3980M ANT4_ TM1
Test Channel = Low 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	7310.18	47.87	-41.76	36.39	-52.76	-13.00	39.76	142	172	Horizontal
2	9294.5	48.18	-38.38	38.57	-46.89	-13.00	33.89	265	92	Horizontal
3	10965.27	39.08	-35.62	39.56	-52.24	-13.00	39.24	296	3	Horizontal
4	13642.4583	43.27	-34.61	39.99	-46.62	-13.00	33.62	254	360	Horizontal
5	14620.36	38.49	-34.12	39.58	-51.32	-13.00	38.32	102	172	Horizontal
6	17779.5833	40.88	-30.91	41.72	-43.58	-13.00	30.58	146	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	7310.18	48.02	-41.76	36.39	-52.61	-13.00	39.61	263	316	Vertical
2	9183.3333	46.89	-38.30	38.58	-48.09	-13.00	35.09	201	3	Vertical
3	10965.27	38.40	-35.62	39.56	-52.92	-13.00	39.92	142	3	Vertical
4	13028.1667	42.78	-34.80	39.62	-47.66	-13.00	34.66	265	302	Vertical
5	14620.36	39.32	-34.12	39.58	-50.49	-13.00	37.49	284	26	Vertical
6	18000	40.75	-31.31	42.60	-43.22	-13.00	30.22	176	342	Vertical



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Test Band = SA Band 77 3700M-3980M ANT4_ 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	7590.18	46.50	-41.27	36.68	-53.35	-13.00	40.35	142	289	Horizontal
2	9187.1667	46.50	-38.28	38.58	-48.46	-13.00	35.46	265	144	Horizontal
3	11835.27	40.14	-35.25	38.76	-51.60	-13.00	38.60	201	211	Horizontal
4	13587.8333	43.24	-34.36	39.95	-46.42	-13.00	33.42	142	341	Horizontal
5	15180.36	39.58	-33.62	38.97	-50.33	-13.00	37.33	288	360	Horizontal
6	17875.4167	40.61	-31.11	42.10	-43.65	-13.00	30.65	266	359	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	7590.18	47.06	-41.27	36.68	-52.79	-13.00	39.79	241	359	Vertical
2	8725.25	47.75	-39.17	38.30	-48.39	-13.00	35.39	142	236	Vertical
3	11835.27	41.11	-35.25	38.76	-50.63	-13.00	37.63	263	14	Vertical
4	13118.25	43.31	-34.64	39.67	-46.92	-13.00	33.92	265	198	Vertical
5	15180.36	38.97	-33.62	38.97	-50.94	-13.00	37.94	284	198	Vertical
6	17867.75	41.16	-31.08	42.07	-43.11	-13.00	30.11	142	277	Vertical



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Test Band = SA Band 77 3700M-3980M ANT4_ TM1

Test Channel = High 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	7870.18	45.92	-40.75	37.24	-52.85	-13.00	39.85	265	181	Horizontal
2	9238.9167	48.27	-38.29	38.58	-46.70	-13.00	33.70	241	90	Horizontal
3	11805.27	39.50	-35.40	38.79	-52.37	-13.00	39.37	174	62	Horizontal
4	13588.7917	42.80	-34.36	39.95	-46.87	-13.00	33.87	142	340	Horizontal
5	15740.36	41.32	-33.70	38.24	-49.41	-13.00	36.41	286	360	Horizontal
6	17896.5	40.48	-31.17	42.19	-43.76	-13.00	30.76	263	340	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	7870.18	45.53	-40.75	37.24	-53.24	-13.00	40.24	165	302	Vertical
2	9263.8333	47.72	-38.33	38.57	-47.29	-13.00	34.29	241	38	Vertical
3	11805.27	40.14	-35.40	38.79	-51.73	-13.00	38.73	142	38	Vertical
4	13698.0417	44.53	-34.88	40.02	-45.59	-13.00	32.59	286	197	Vertical
5	15740.36	40.29	-33.70	38.24	-50.44	-13.00	37.44	296	350	Vertical
6	17860.0833	40.42	-31.06	42.04	-43.86	-13.00	30.86	201	38	Vertical



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Test Band = SA Band 77 3700M-3980M ANT5_ TM1
Test Channel = Low 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	7310.18	47.84	-41.76	36.39	-52.79	-13.00	39.79	296	132	Horizontal
2	9293.5417	47.77	-38.38	38.57	-47.30	-13.00	34.30	265	119	Horizontal
3	10965.27	39.60	-35.62	39.56	-51.72	-13.00	38.72	241	80	Horizontal
4	13676.9583	44.36	-34.78	40.01	-45.67	-13.00	32.67	142	303	Horizontal
5	14620.36	39.02	-34.12	39.58	-50.79	-13.00	37.79	286	360	Horizontal
6	17880.2083	41.69	-31.12	42.12	-42.57	-13.00	29.57	201	80	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	7310.18	47.74	-41.76	36.39	-52.89	-13.00	39.89	296	348	Vertical
2	8358.2083	47.97	-39.96	37.89	-49.36	-13.00	36.36	265	247	Vertical
3	10965.27	39.67	-35.62	39.56	-51.65	-13.00	38.65	241	117	Vertical
4	12663.0417	43.41	-35.06	39.26	-47.65	-13.00	34.65	174	129	Vertical
5	14620.36	38.88	-34.12	39.58	-50.93	-13.00	37.93	142	209	Vertical
6	17862.9583	40.86	-31.07	42.05	-43.42	-13.00	30.42	256	288	Vertical



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Test Band = SA Band 77 3700M-3980M ANT5_ 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	7590.18	47.57	-41.27	36.68	-52.28	-13.00	39.28	263	50	Horizontal
2	9185.25	47.20	-38.29	38.58	-47.77	-13.00	34.77	241	360	Horizontal
3	11835.27	40.54	-35.25	38.76	-51.20	-13.00	38.20	142	168	Horizontal
4	13267.75	43.97	-34.98	39.76	-46.51	-13.00	33.51	285	221	Horizontal
5	15180.36	39.79	-33.62	38.97	-50.12	-13.00	37.12	265	11	Horizontal
6	17879.25	40.91	-31.12	42.12	-43.35	-13.00	30.35	241	37	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	7590.18	46.87	-41.27	36.68	-52.98	-13.00	39.98	296	118	Vertical
2	9197.7083	46.72	-38.23	38.58	-48.19	-13.00	35.19	265	144	Vertical
3	11835.27	41.20	-35.25	38.76	-50.54	-13.00	37.54	284	358	Vertical
4	13092.375	43.60	-34.64	39.66	-46.64	-13.00	33.64	174	39	Vertical
5	15180.36	40.87	-33.62	38.97	-49.04	-13.00	36.04	142	360	Vertical
6	17773.8333	40.91	-30.92	41.70	-43.58	-13.00	30.58	256	236	Vertical



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Test Band = SA Band 77 3700M-3980M ANT5_ TM1

Test Channel = High 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	7870.18	45.41	-40.75	37.24	-53.36	-13.00	40.36	263	331	Horizontal
2	9268.625	47.71	-38.34	38.57	-47.31	-13.00	34.31	265	331	Horizontal
3	11805.27	40.11	-35.40	38.79	-51.76	-13.00	38.76	241	157	Horizontal
4	13578.25	43.04	-34.31	39.95	-46.59	-13.00	33.59	142	351	Horizontal
5	15740.36	40.50	-33.70	38.24	-50.23	-13.00	37.23	255	302	Horizontal
6	17871.5833	40.79	-31.09	42.09	-43.48	-13.00	30.48	286	359	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	7870.18	46.33	-40.75	37.24	-52.44	-13.00	39.44	142	360	Vertical
2	9290.6667	47.84	-38.37	38.57	-47.22	-13.00	34.22	265	223	Vertical
3	11805.27	40.11	-35.40	38.79	-51.76	-13.00	38.76	296	359	Vertical
4	13591.6667	43.23	-34.37	39.96	-46.45	-13.00	33.45	263	360	Vertical
5	15740.36	39.56	-33.70	38.24	-51.17	-13.00	38.17	285	102	Vertical
6	17883.0833	41.43	-31.13	42.13	-42.83	-13.00	29.83	241	360	Vertical



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Test Band = SA Band 77 3700M-3980M ANT6_ TM1
Test Channel = Low 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	7310.18	47.64	-41.76	36.39	-52.99	-13.00	39.99	296	338	Horizontal
2	9339.5417	46.75	-38.10	38.57	-48.04	-13.00	35.04	265	360	Horizontal
3	10965.27	39.32	-35.62	39.56	-52.00	-13.00	39.00	241	2	Horizontal
4	13021.4583	43.61	-34.82	39.61	-46.85	-13.00	33.85	142	297	Horizontal
5	14620.36	38.85	-34.12	39.58	-50.96	-13.00	37.96	285	22	Horizontal
6	17893.625	41.30	-31.16	42.17	-42.95	-13.00	29.95	253	285	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	7310.18	48.60	-41.76	36.39	-52.03	-13.00	39.03	201	118	Vertical
2	9286.8333	47.18	-38.37	38.57	-47.88	-13.00	34.88	142	210	Vertical
3	10965.27	39.09	-35.62	39.56	-52.23	-13.00	39.23	263	277	Vertical
4	13589.75	43.47	-34.36	39.95	-46.20	-13.00	33.20	265	3	Vertical
5	14620.36	39.03	-34.12	39.58	-50.78	-13.00	37.78	241	157	Vertical
6	17642.5417	40.18	-31.53	41.17	-45.44	-13.00	32.44	185	104	Vertical



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Test Band = SA Band 77 3700M-3980M ANT6_ 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	7590.18	46.63	-41.27	36.68	-53.22	-13.00	40.22	142	263	Horizontal
2	9260.9583	47.11	-38.32	38.57	-47.90	-13.00	34.90	265	144	Horizontal
3	11835.27	40.66	-35.25	38.76	-51.08	-13.00	38.08	296	26	Horizontal
4	13237.0833	43.79	-34.86	39.74	-46.59	-13.00	33.59	233	360	Horizontal
5	15180.36	39.48	-33.62	38.97	-50.43	-13.00	37.43	241	170	Horizontal
6	17793	41.22	-30.89	41.77	-43.16	-13.00	30.16	185	209	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	7590.18	46.57	-41.27	36.68	-53.28	-13.00	40.28	196	105	Vertical
2	9284.9167	47.39	-38.36	38.57	-47.66	-13.00	34.66	142	359	Vertical
3	11835.27	40.59	-35.25	38.76	-51.15	-13.00	38.15	211	263	Vertical
4	13262.9583	44.12	-34.97	39.76	-46.35	-13.00	33.35	142	224	Vertical
5	15180.36	40.09	-33.62	38.97	-49.82	-13.00	36.82	266	25	Vertical
6	17856.25	40.68	-31.05	42.03	-43.60	-13.00	30.60	284	172	Vertical



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Test Band = SA Band 77 3700M-3980M ANT6_ TM1

Test Channel = High 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	7870.18	45.96	-40.75	37.24	-52.81	-13.00	39.81	142	38	Horizontal
2	9421.9583	47.21	-37.75	38.56	-47.24	-13.00	34.24	265	156	Horizontal
3	11805.27	40.37	-35.40	38.79	-51.50	-13.00	38.50	296	301	Horizontal
4	13577.2917	43.61	-34.31	39.95	-46.01	-13.00	33.01	253	168	Horizontal
5	15740.36	39.60	-33.70	38.24	-51.13	-13.00	38.13	241	301	Horizontal
6	17901.2917	41.91	-31.18	42.21	-42.33	-13.00	29.33	142	354	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	7870.18	45.47	-40.75	37.24	-53.30	-13.00	40.30	142	360	Vertical
2	9281.0833	47.23	-38.36	38.57	-47.82	-13.00	34.82	265	249	Vertical
3	11805.27	40.11	-35.40	38.79	-51.76	-13.00	38.76	284	223	Vertical
4	13223.6667	43.60	-34.81	39.73	-46.74	-13.00	33.74	142	348	Vertical
5	15740.36	39.66	-33.70	38.24	-51.07	-13.00	38.07	263	355	Vertical
6	17876.375	40.30	-31.11	42.11	-43.96	-13.00	30.96	201	360	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
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	9.100000	0.002370	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	25.200000	0.006563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	12.900000	0.003359	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	8.900000	0.002318	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	14.600000	0.003802	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	13.900000	0.003620	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.200000	0.002396	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	13.300000	0.003464	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	15.200000	0.003958	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.500000	0.001953	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	11.700000	0.003047	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	16.000000	0.004167	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	12.800000	0.003333	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	13.900000	0.003620	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.800000	0.001771	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	9.200000	0.002396	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	5.300000	0.001380	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	3.500000	0.000911	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	15.800000	0.004115	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	12.200000	0.003177	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	6.200000	0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	13.700000	0.003568	PASS

---End of Attachment---



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