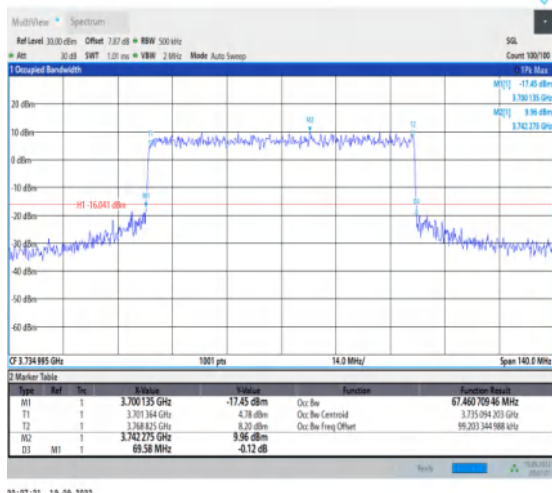


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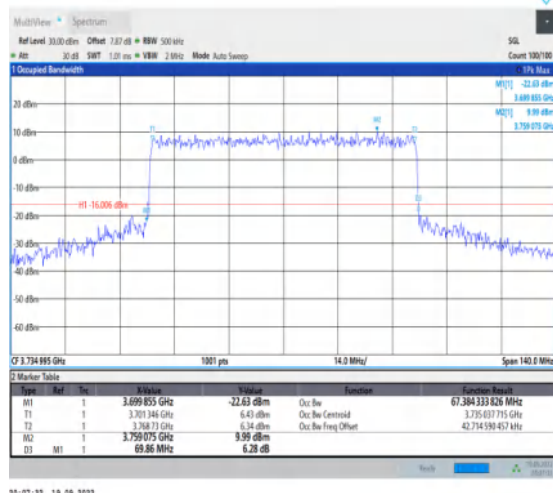
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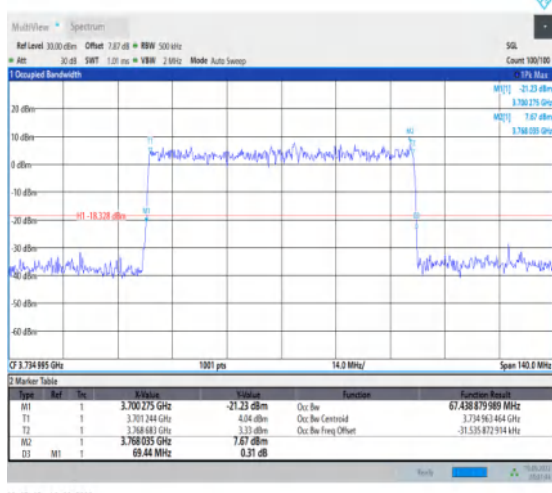
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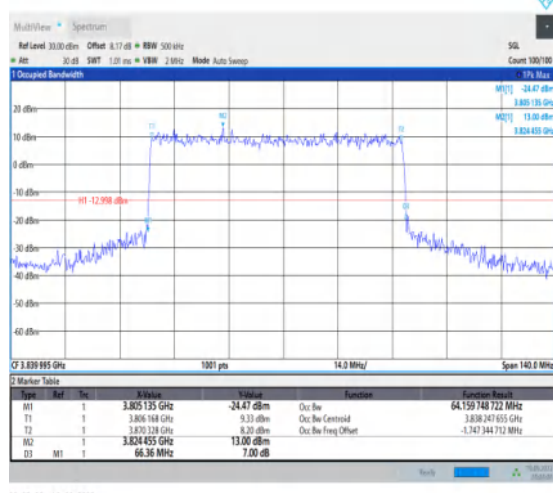
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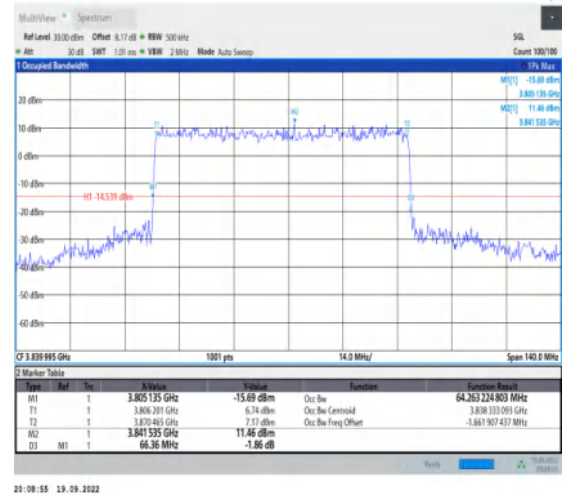
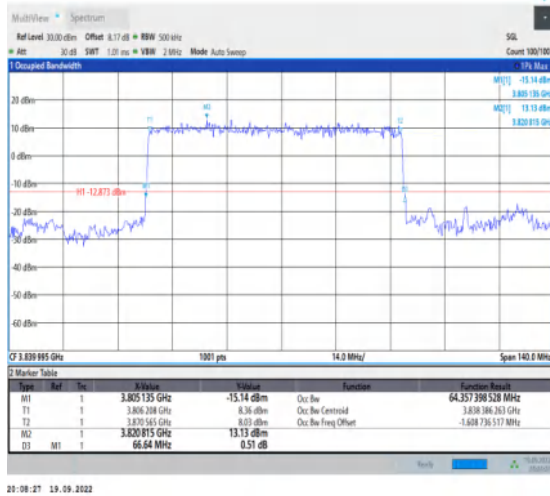
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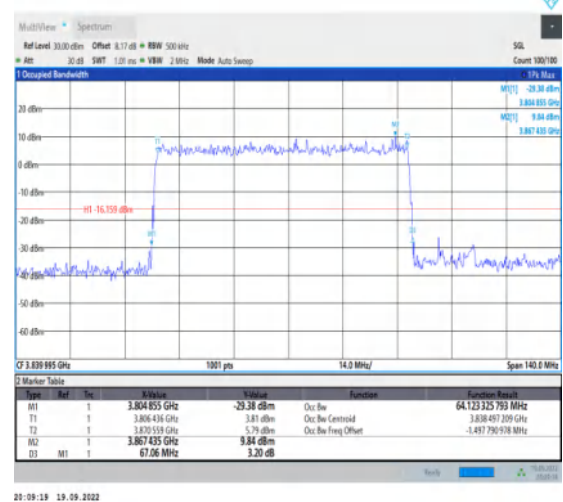
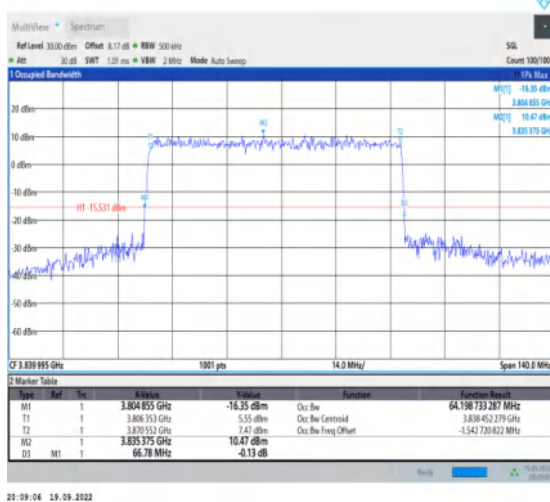
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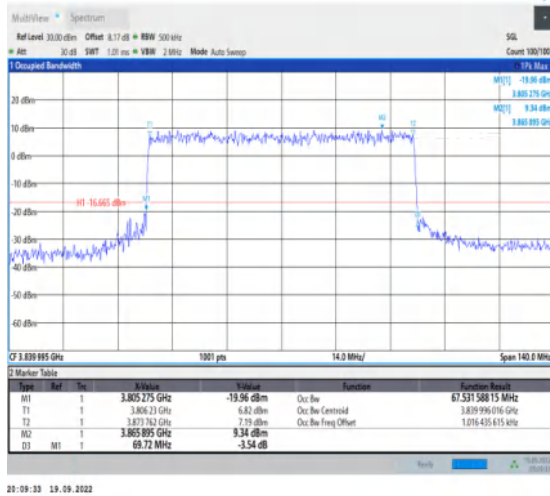
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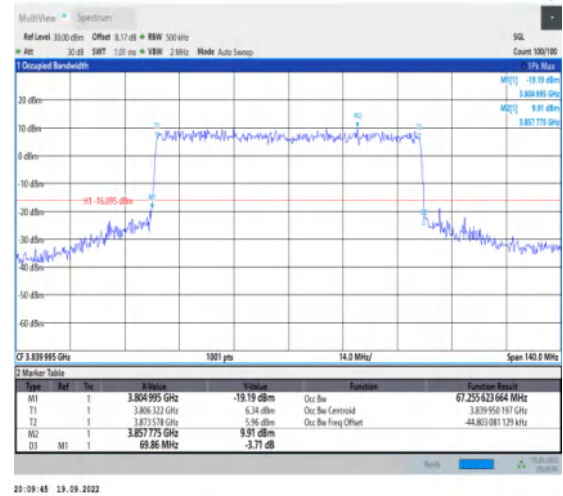
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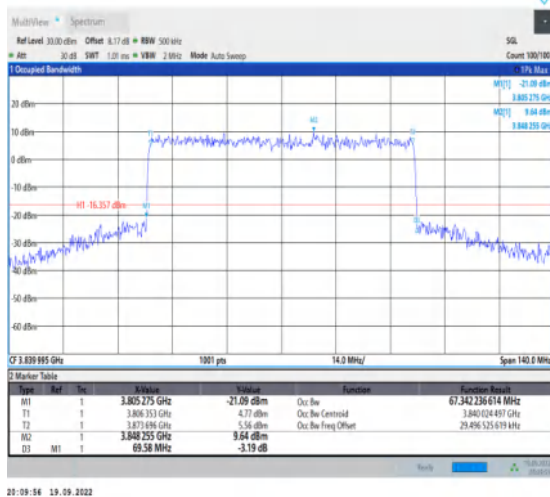
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1-N77-3700-3980--30-70-M-7-CP-16QAM-Outer\_Full-189@0-Ant1-67.256-69.860-<=70-PASS



1-N77-3700-3980--30-70-M-8-CP-64QAM-Outer\_Ful-I-189@0-Ant1-67.342-69.580-<=70-PASS



1-N77-3700-3980--30-70-M-9-CP-256QAM-Outer\_Fu-II-189@0-Ant1-67.242-69.440-<=70-PASS



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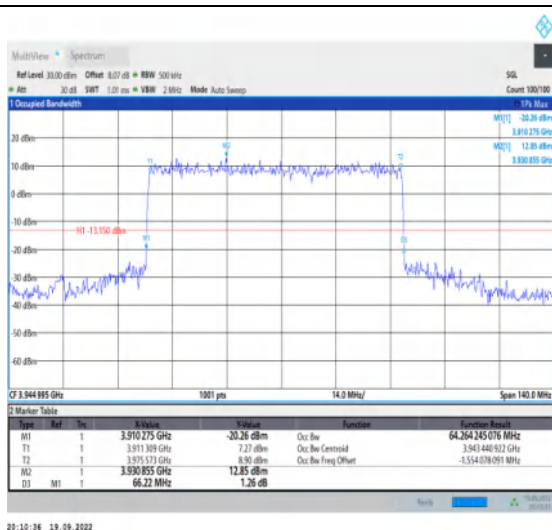
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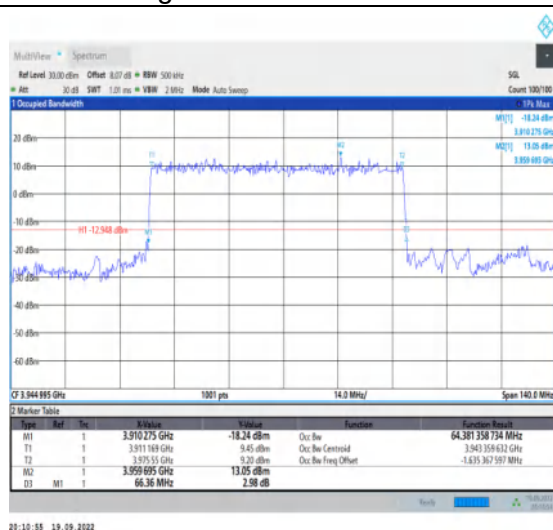
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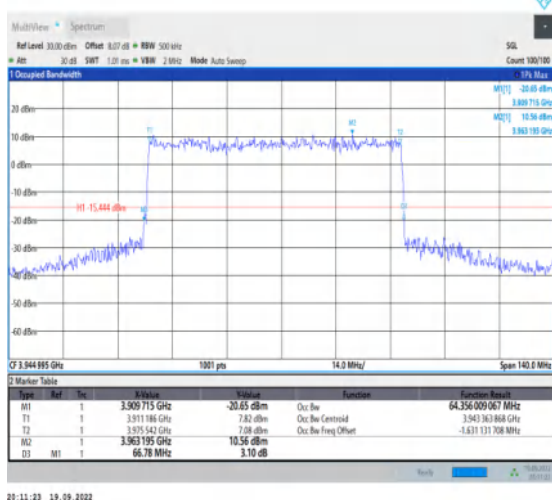
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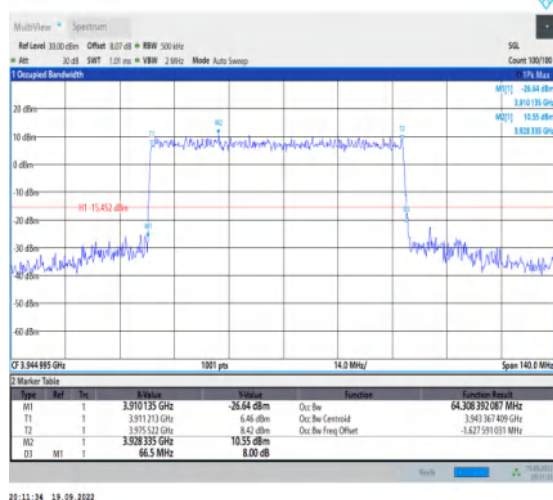
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1-N77-3700-3980--30-70-H-3-DFT-16QAM-Outer\_Full  
-180@0-Ant1-64.356-66.780-≤70-PASS



1-N77-3700-3980--30-70-H-4-DFT-64QAM-Outer\_Full  
-180@0-Ant1-64.308-66.500-≤70-PASS



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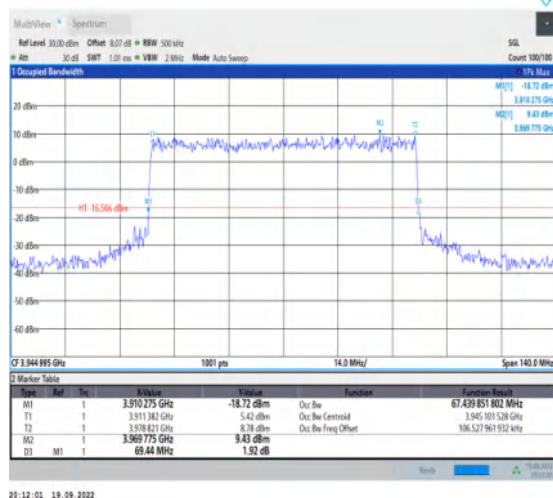
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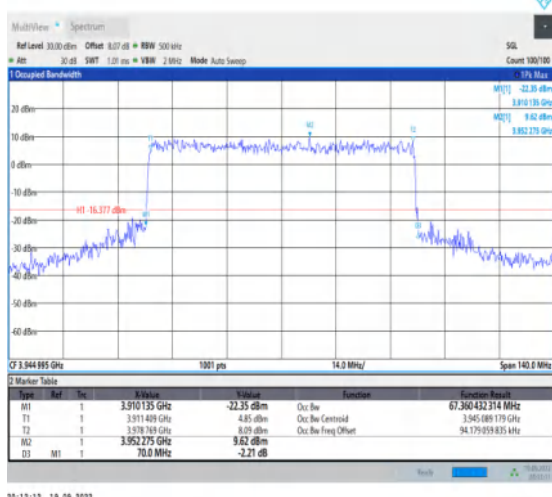
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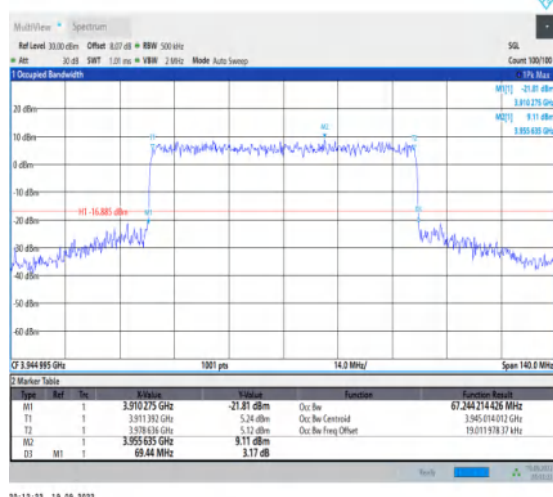
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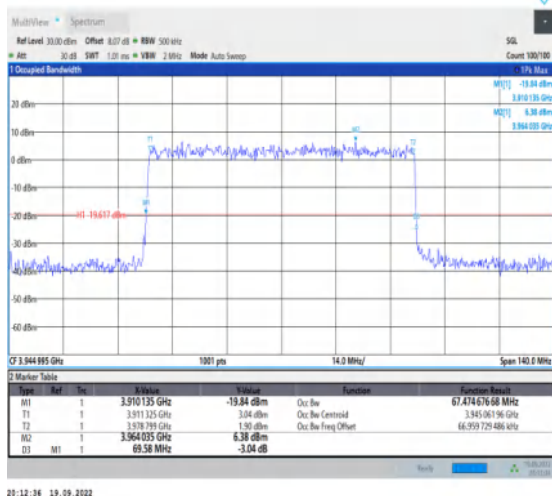
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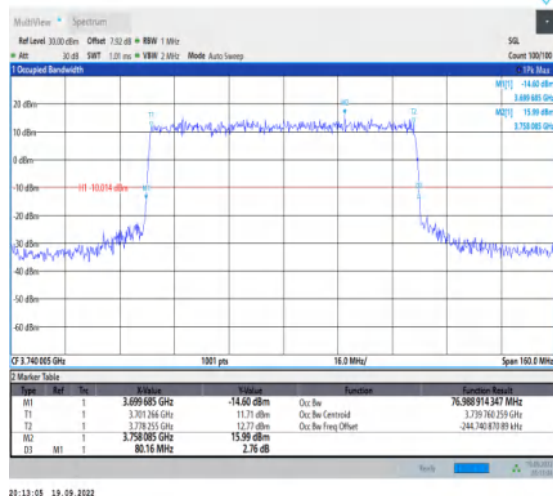
Report No.: SEWM2301000009RG01

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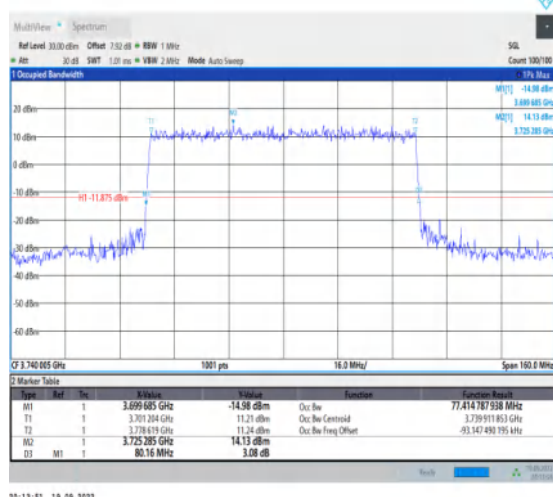
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1-N77-3700-3980--30-80-L-3-DFT-16QAM-Outer\_Full-216@0-Ant1-77.415-80.160-≤80-PASS



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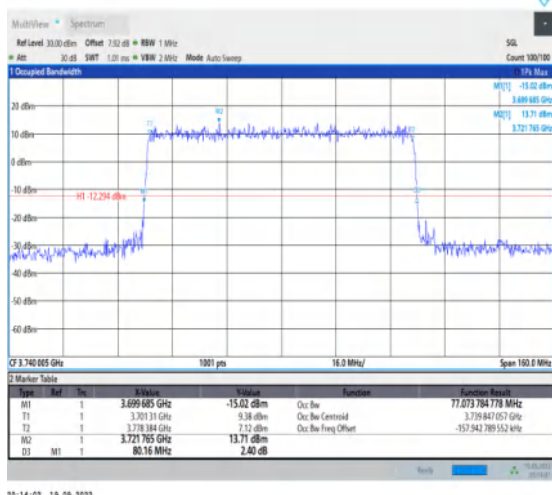
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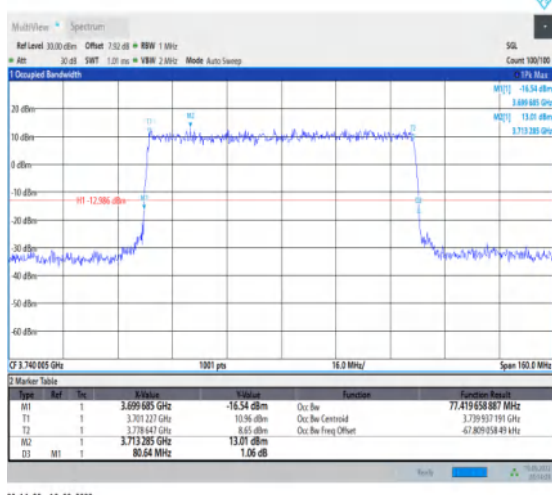
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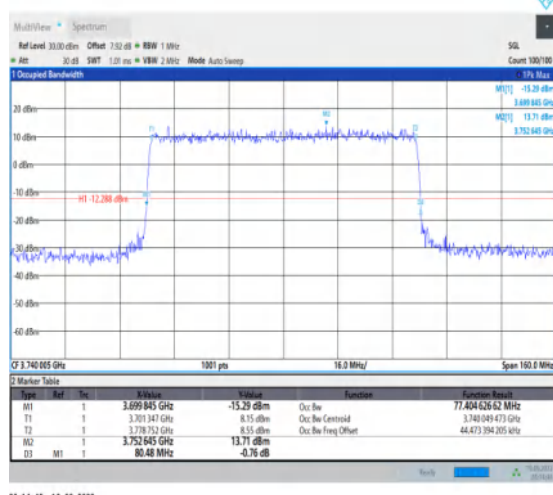
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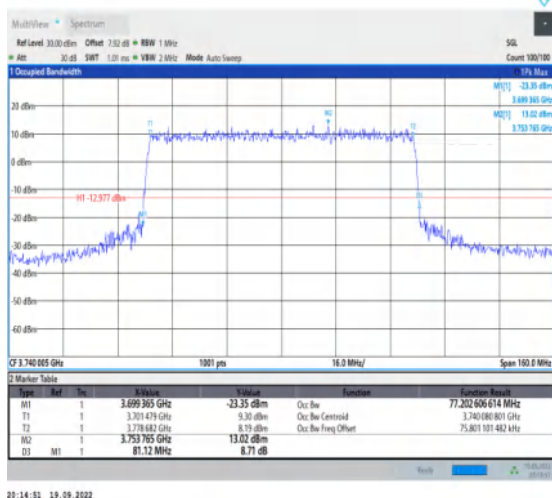
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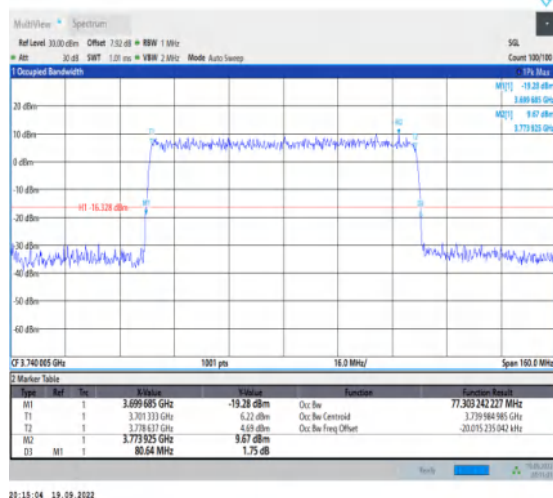
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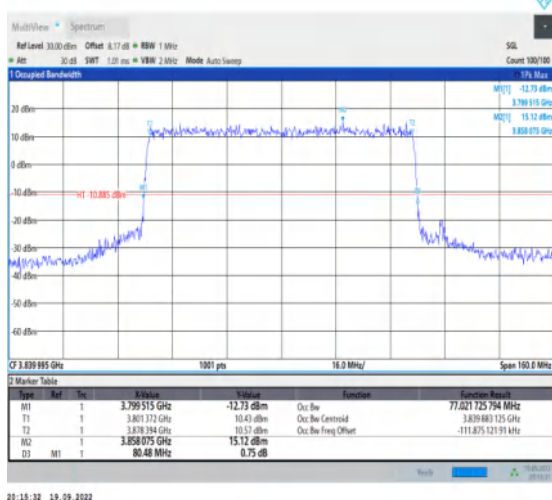
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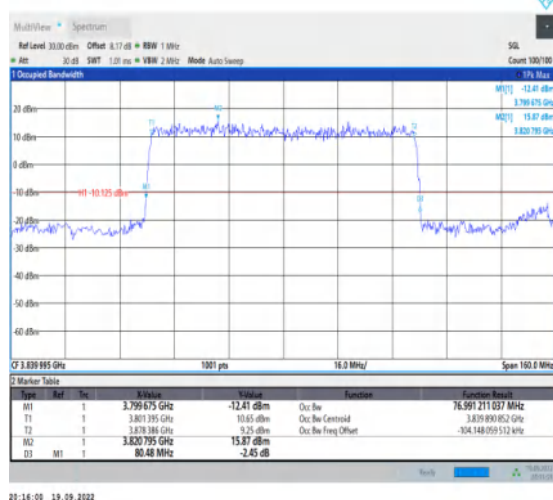
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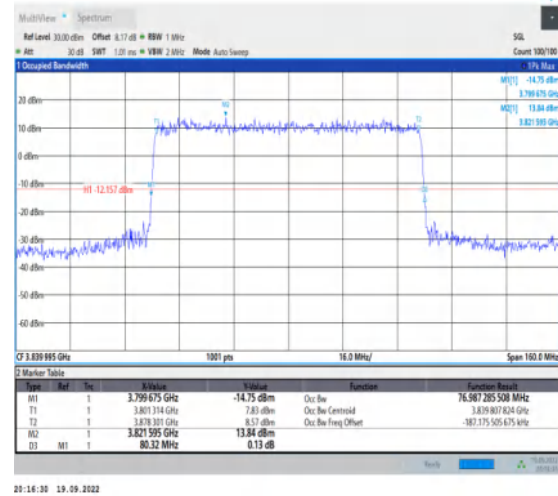
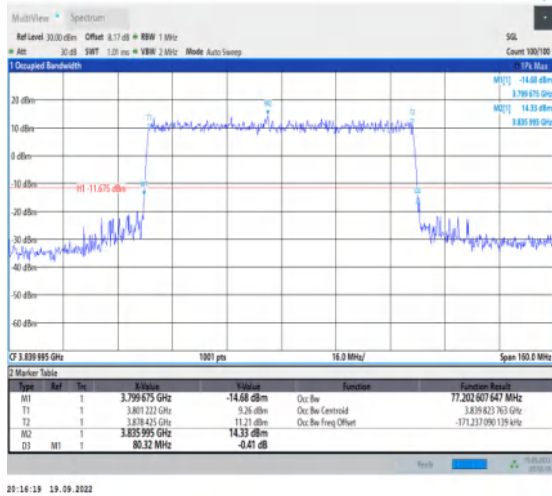
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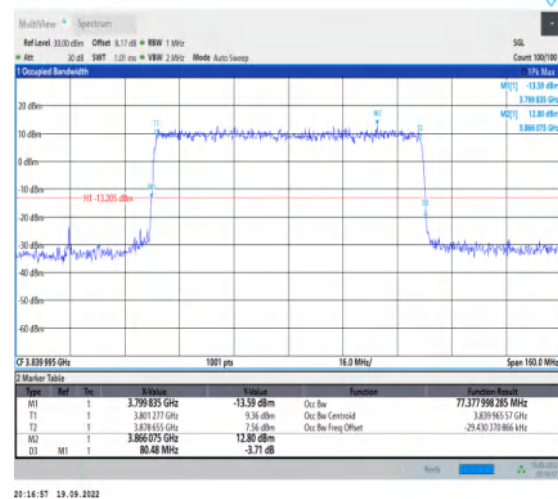
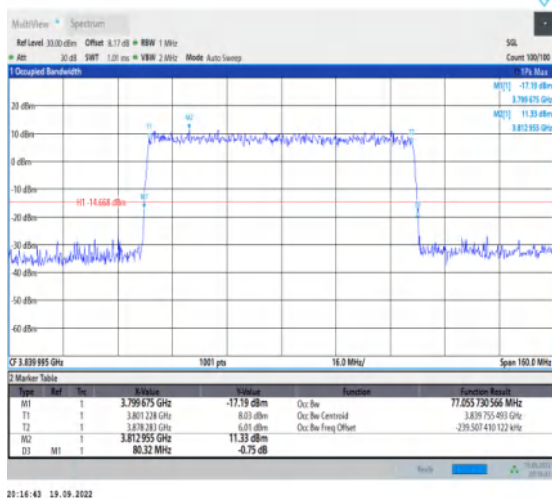






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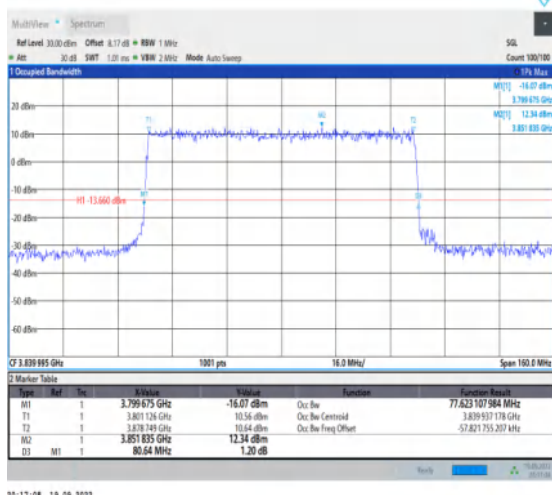
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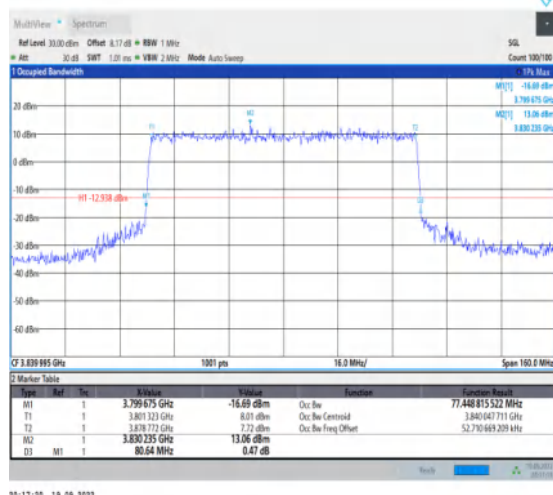
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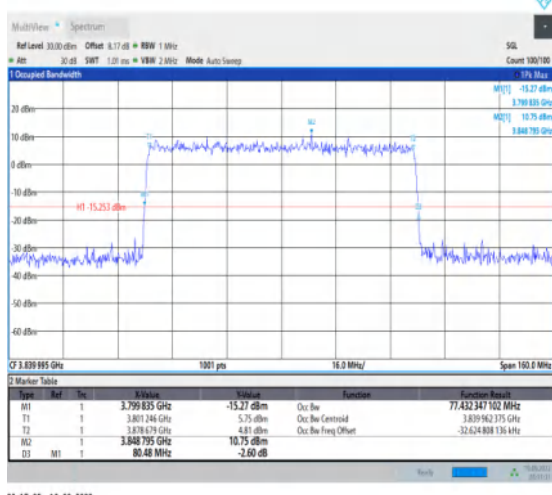
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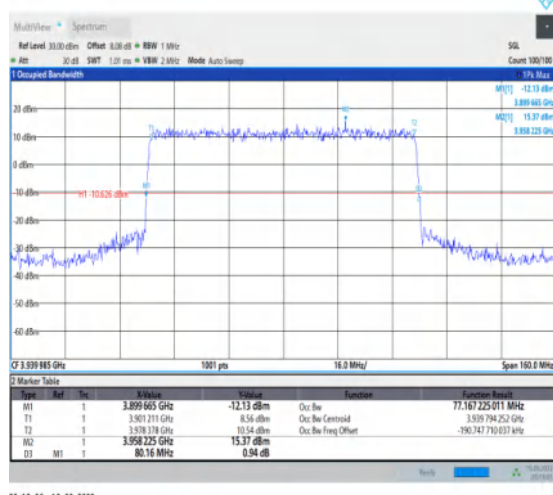
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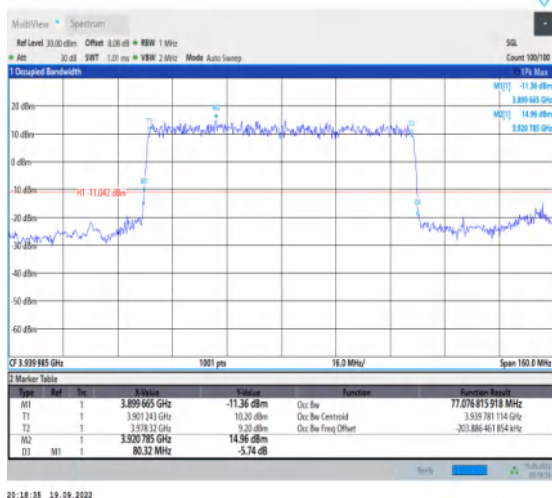
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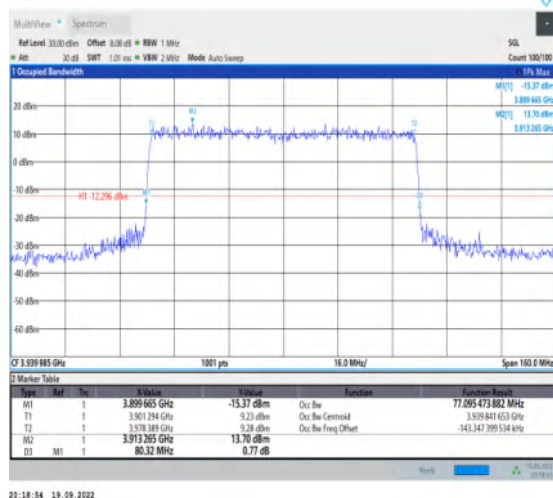
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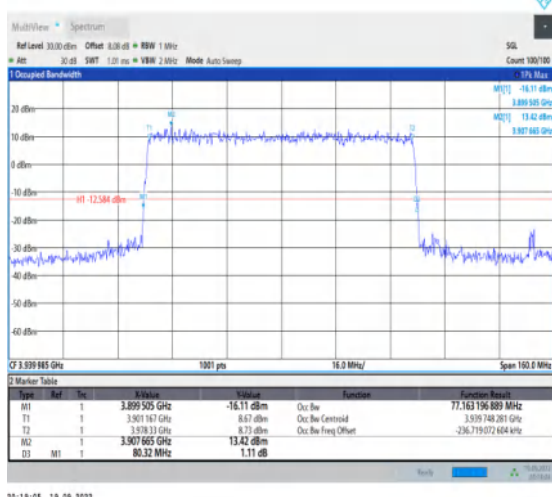
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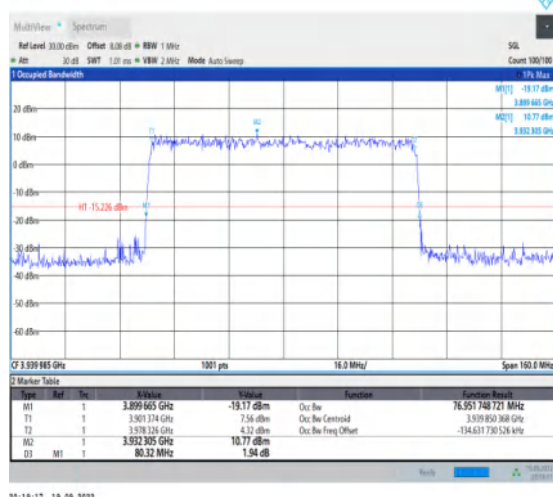
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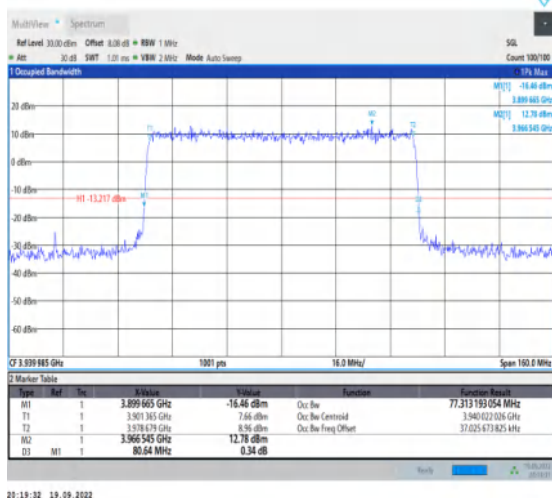
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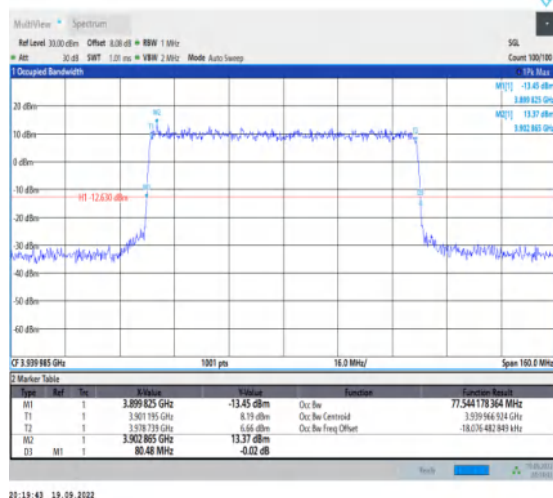
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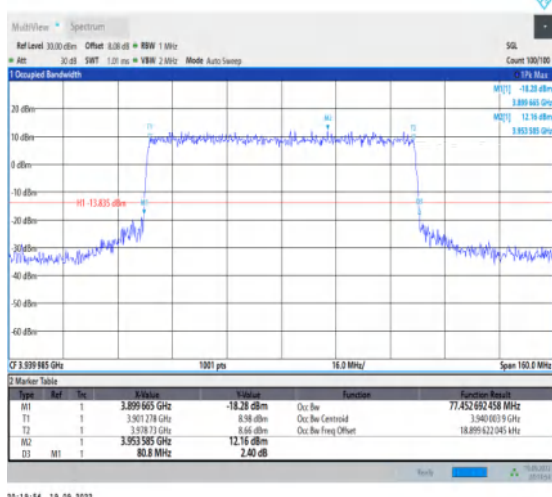
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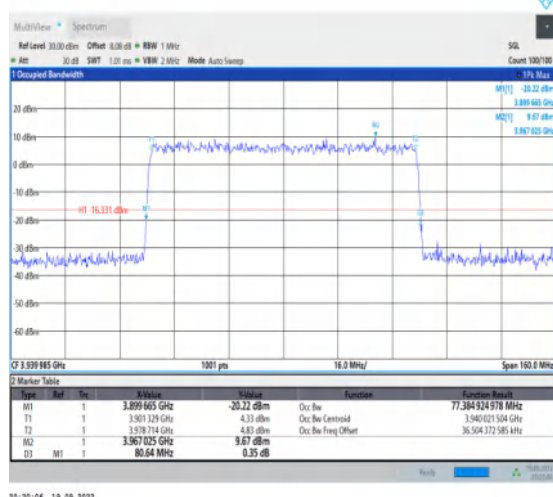
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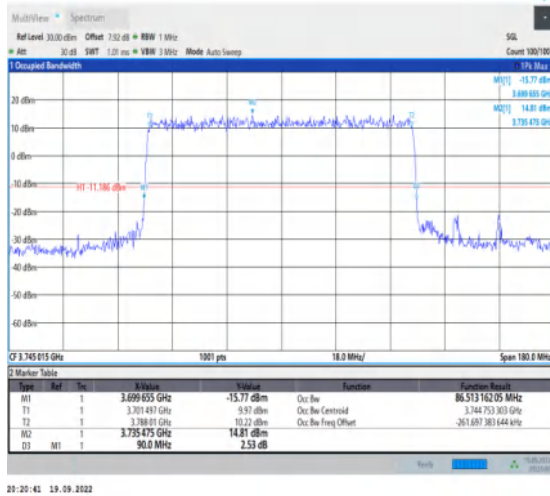
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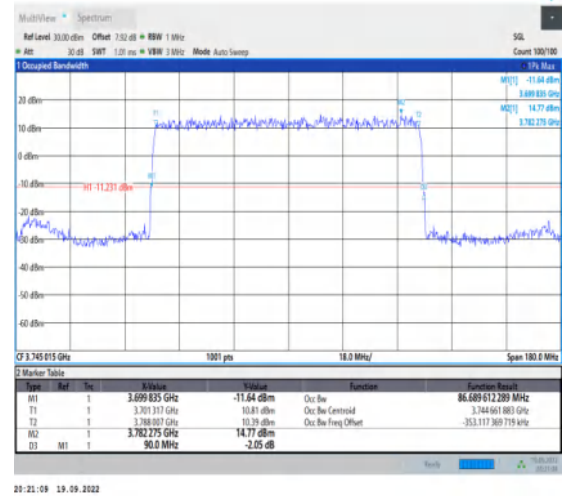
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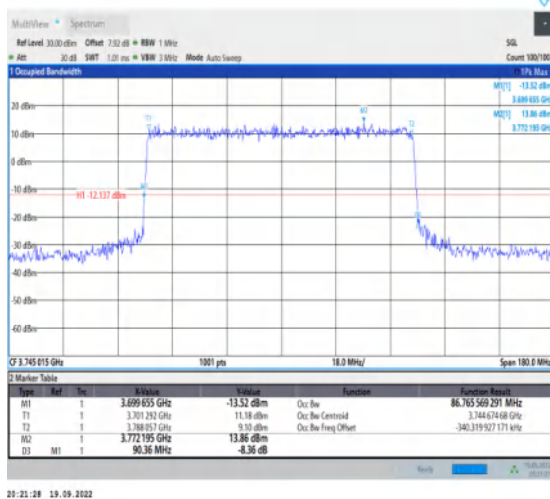
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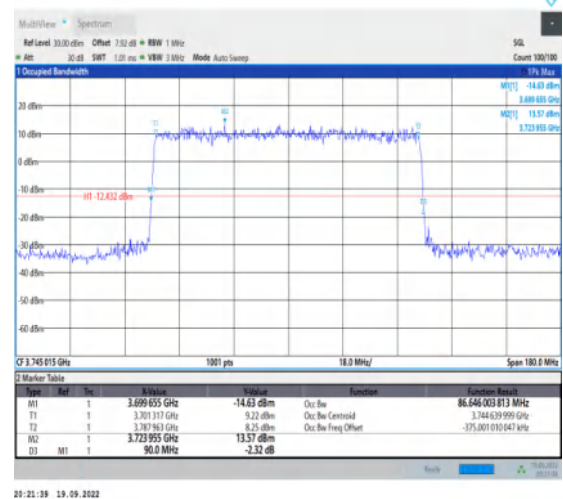
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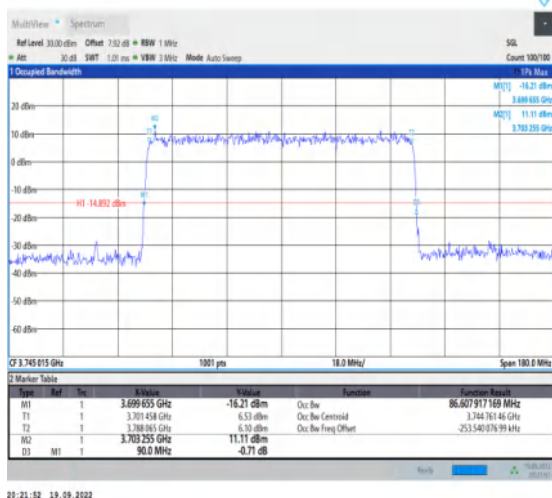
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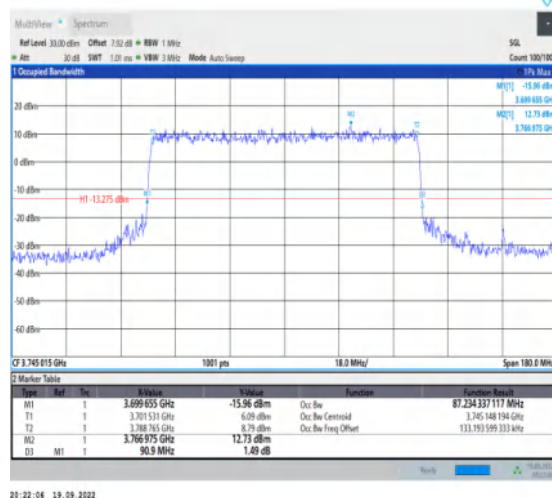
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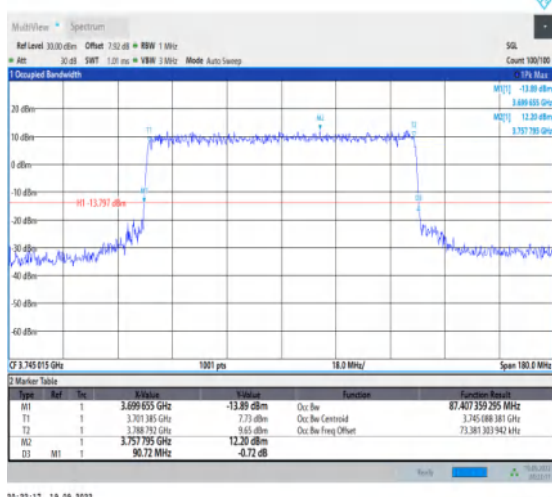
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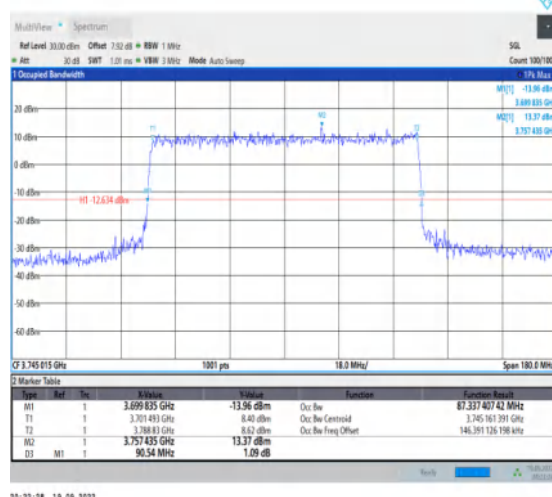
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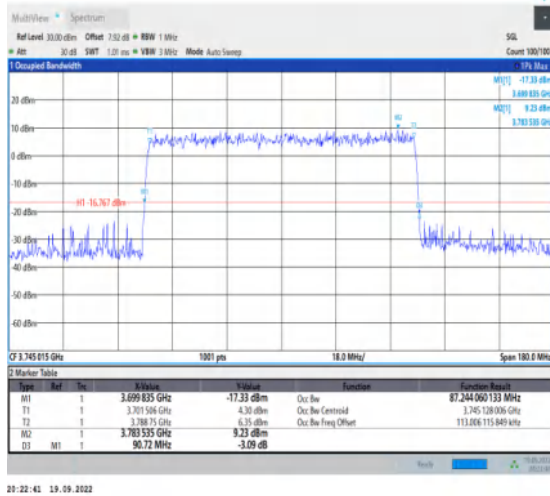
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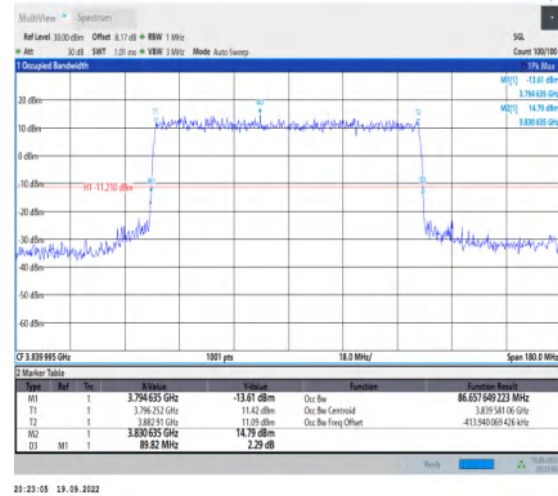
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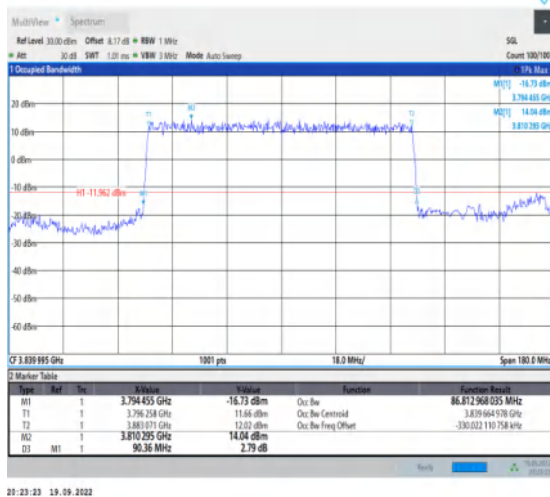
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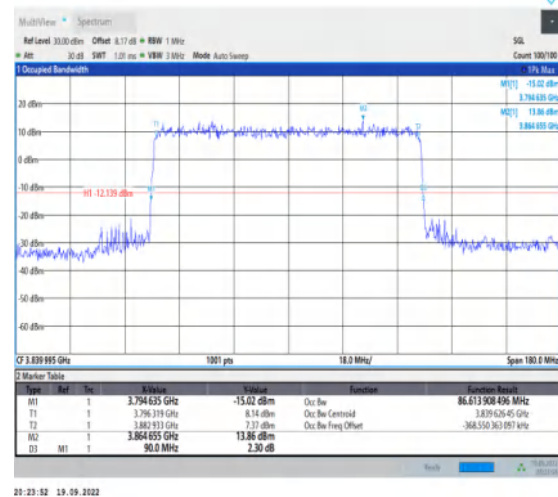
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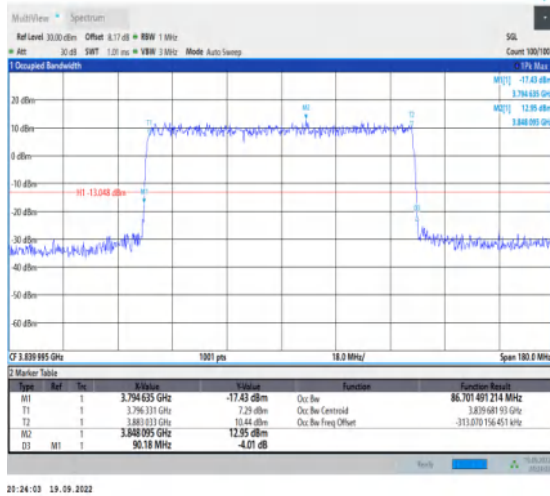
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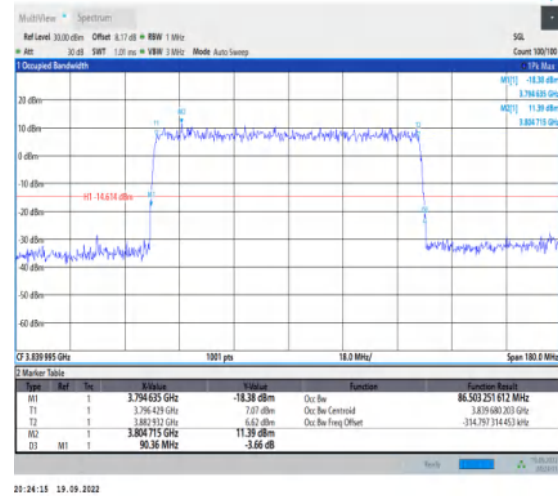
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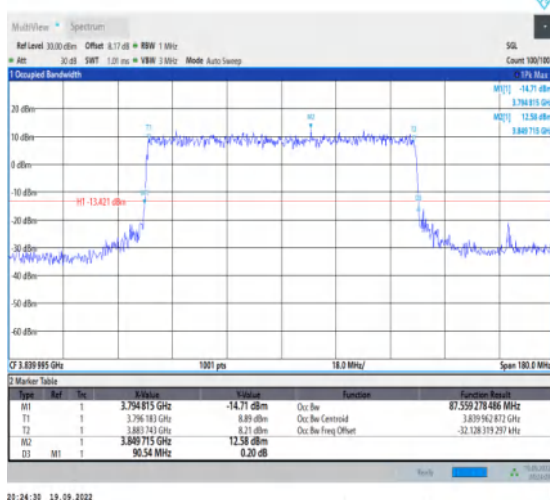
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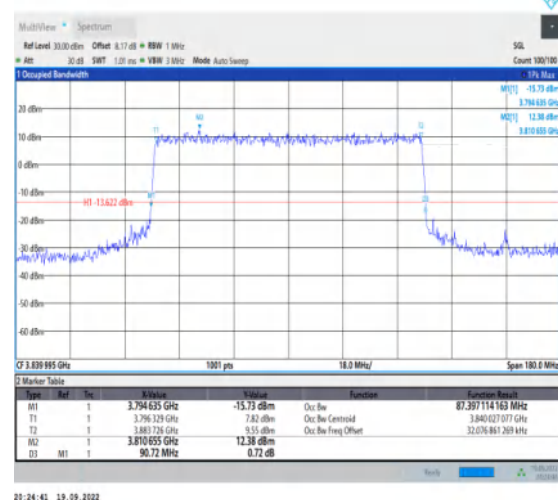
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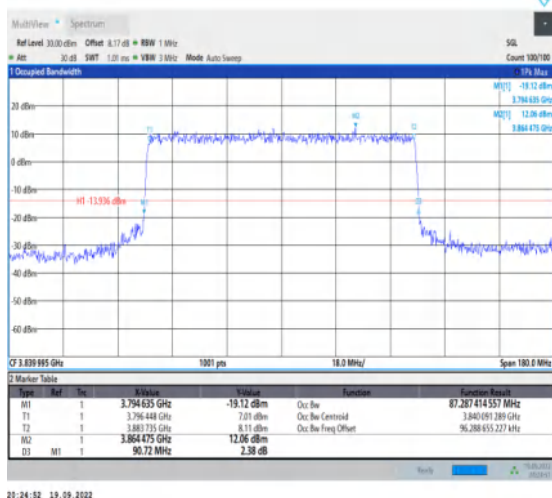
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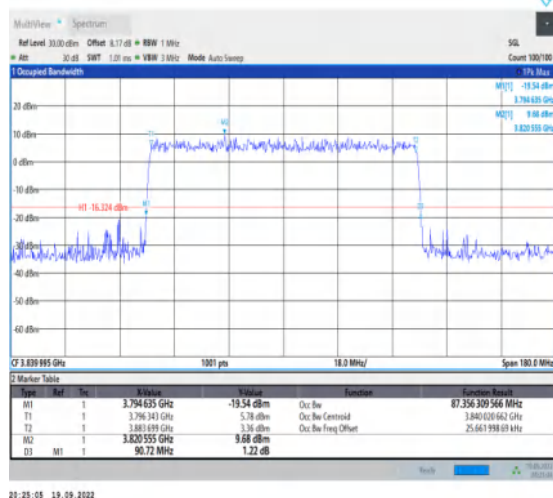
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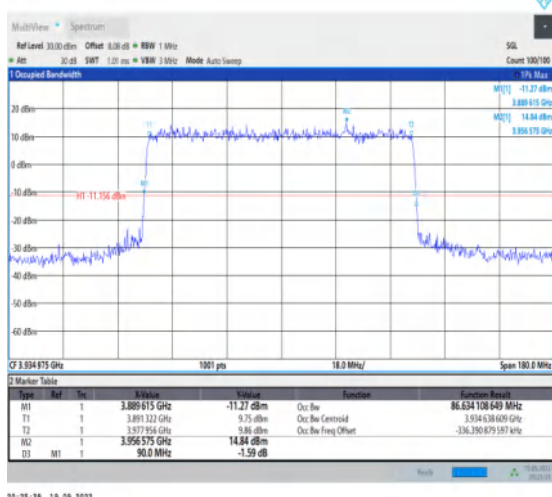
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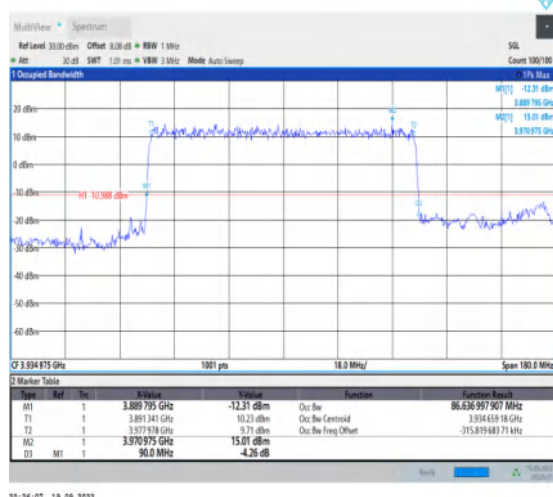
21:25:05 19-09-2022

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II-245@0-Ant1-87.356-90.720-≤90-PASS



21:25:39 19-09-2022

1-N77-3700-3980--30-90-H-1-DFT-QPSK-Outer\_Full  
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21:26:07 19-09-2022

1-N77-3700-3980--30-90-H-2-DFT-PI2BPSK-Outer\_Full  
-243@0-Ant1-86.637-90.000-≤90-PASS



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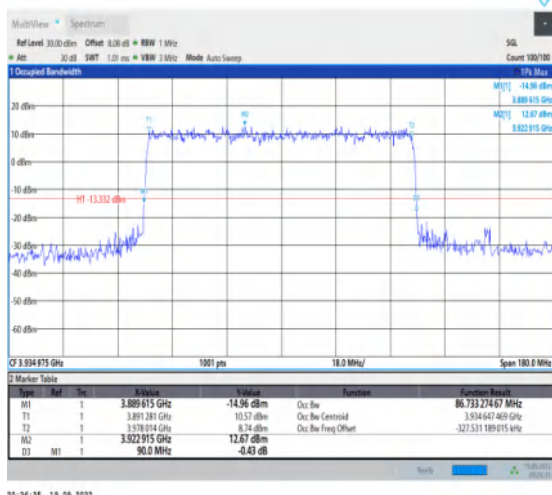
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20:26:38 19-09-2022

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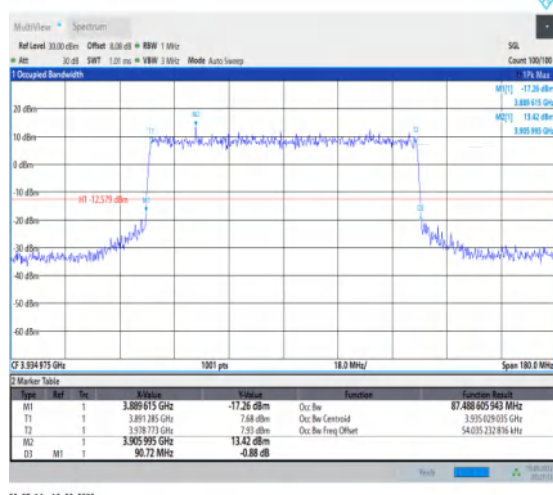
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20:27:14 19-09-2022

1-N77-3700-3980--30-90-H-6-CP-QPSK-Outer\_Full-245@0-Ant1-87.489-90.720-≤90-PASS



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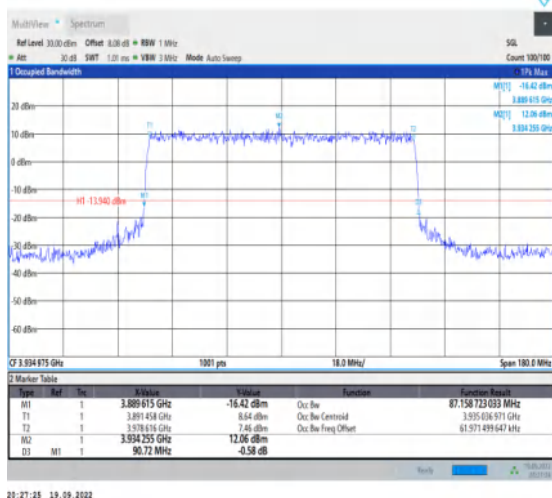
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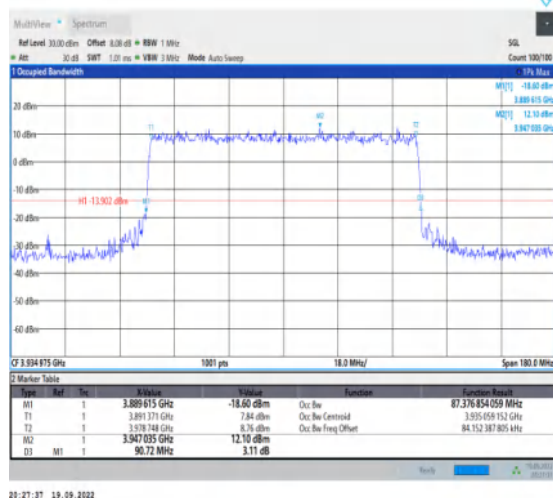
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20:27:49 19-09-2022

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20:28:20 19-09-2022

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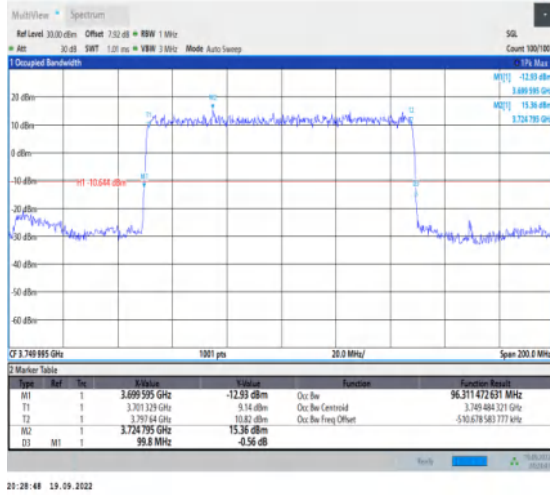
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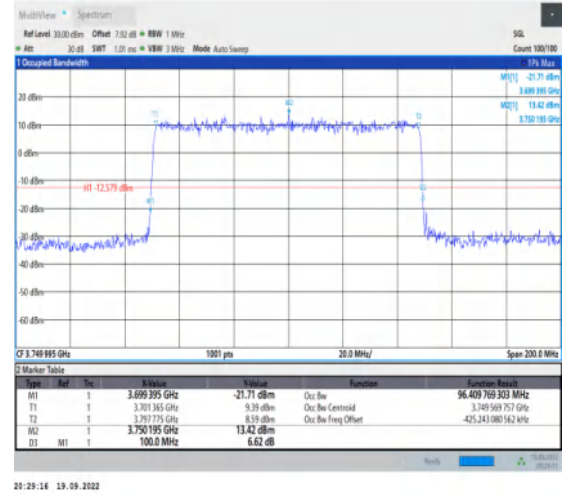
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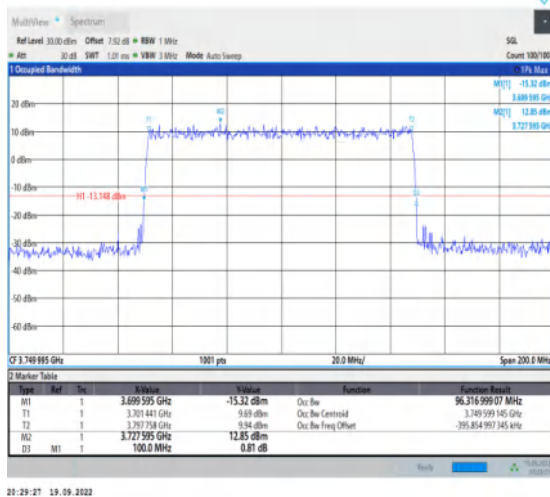
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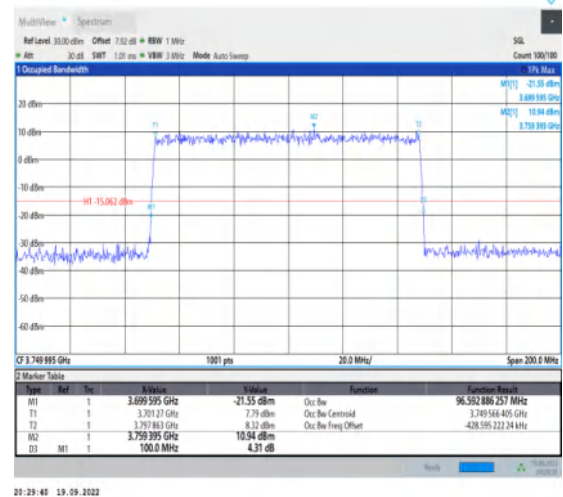
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1-N77-3700-3980--30-100-L-4-DFT-64QAM-Outter\_Full-270@0-Ant1-96.317-100.000-≤100-PASS



1-N77-3700-3980--30-100-L-5-DFT-256QAM-Outter\_Full-270@0-Ant1-96.593-100.000-≤100-PASS



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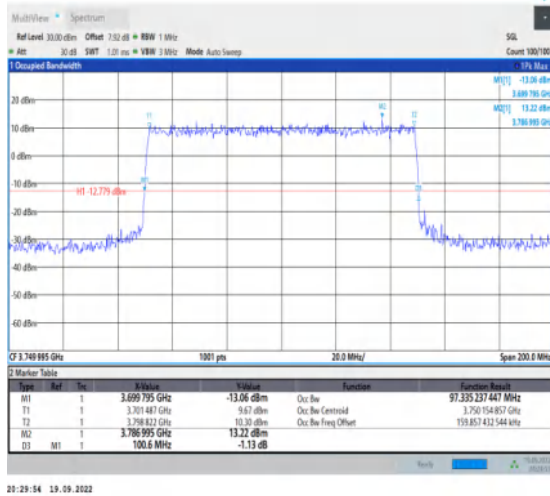
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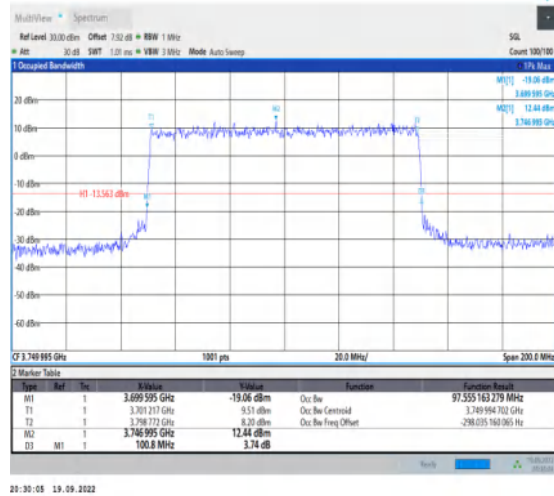
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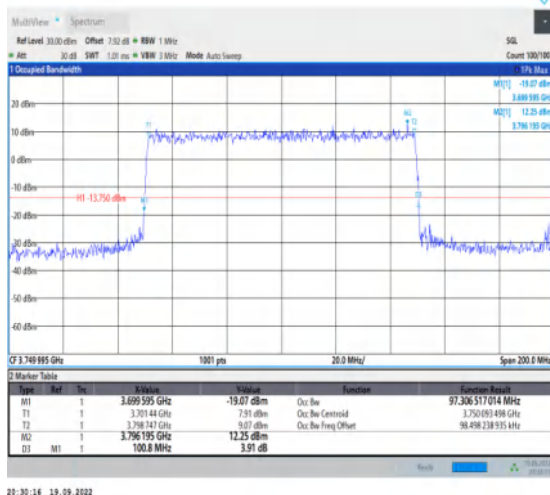
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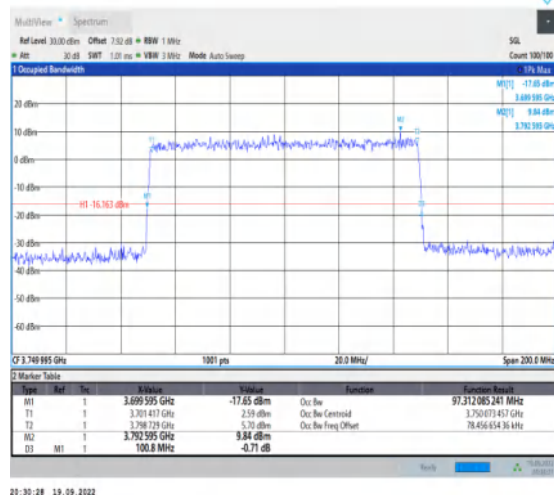
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20:30:16 19-09-2022

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20:30:28 19-09-2022

1-N77-3700-3980--30-100-L-9-CP-256QAM-Out\_ F  
ull-273@0-Ant1-97.312-100.800-≤100-PASS



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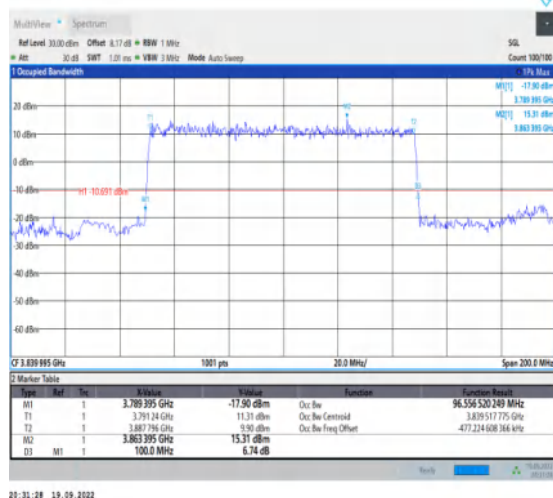
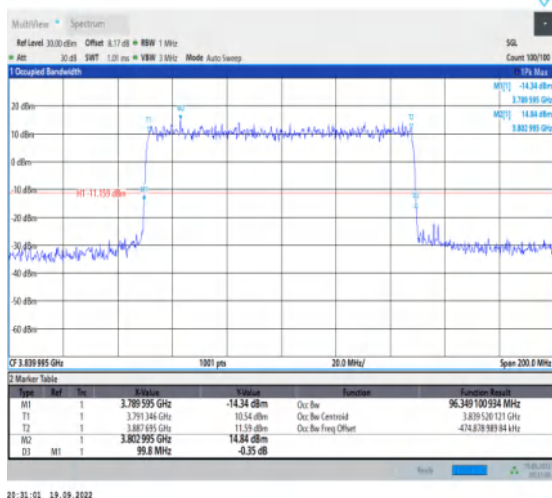
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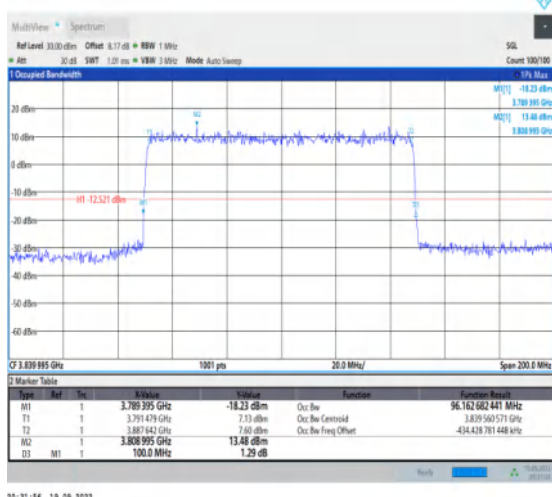
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1-N77-3700-3980--30-100-M-2-DFT-PI2BPSK-Outter \_Full-270@0-Ant1-96.557-100.000-≤100-PASS



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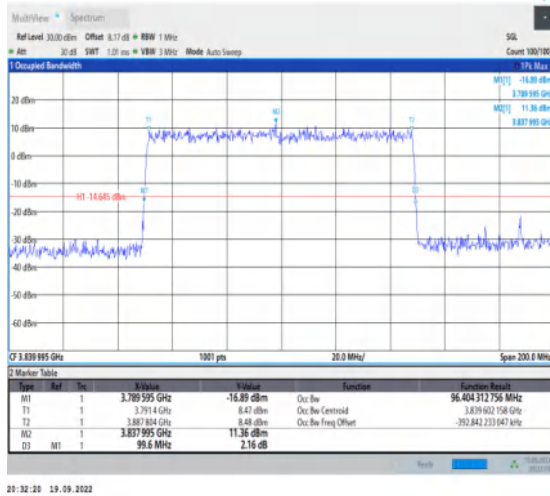


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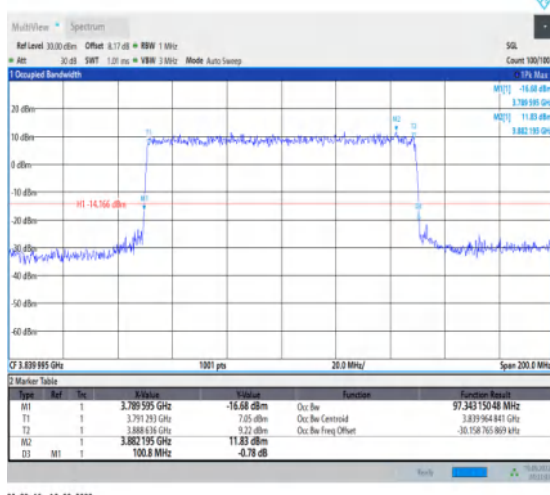
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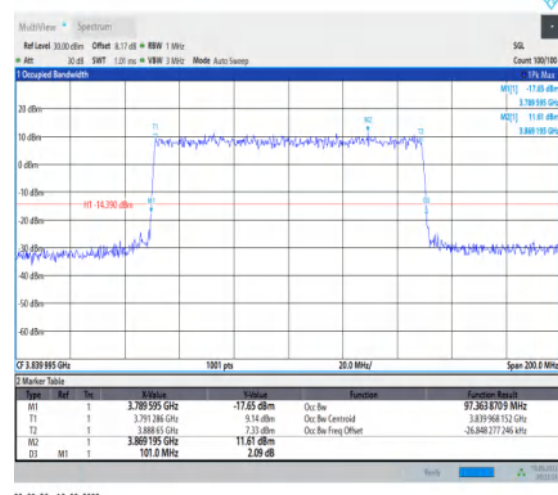
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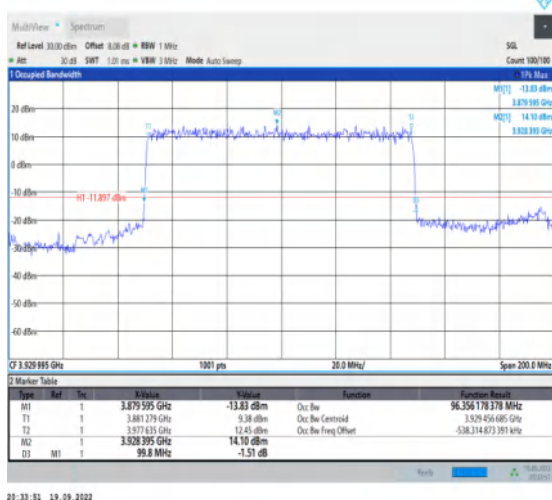
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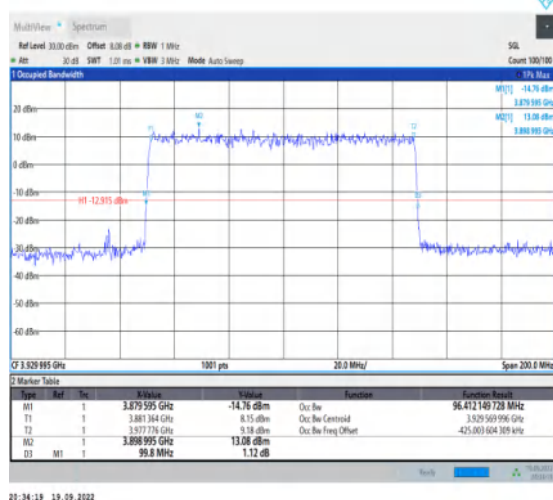
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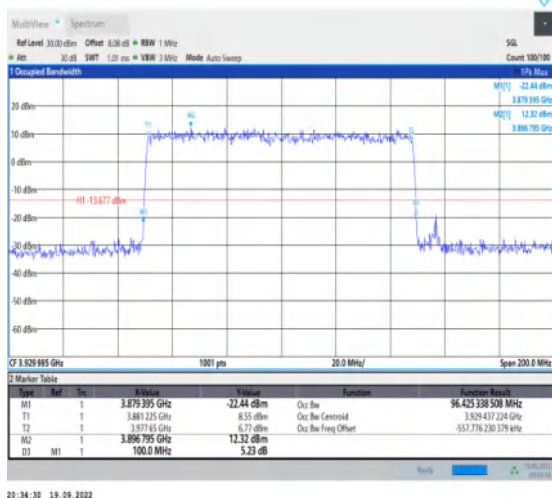
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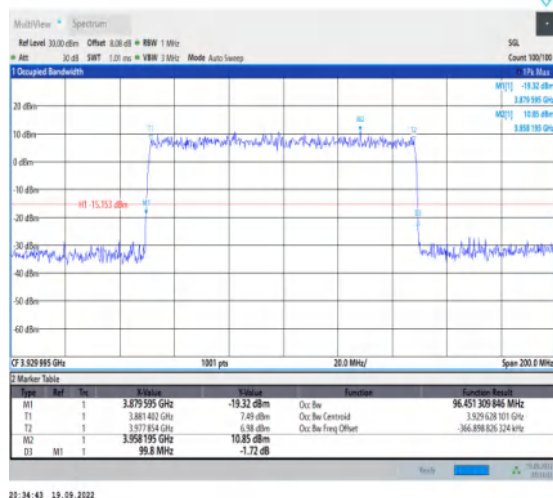
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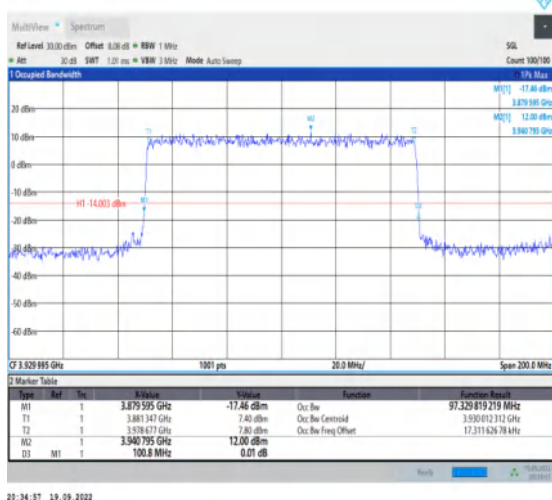
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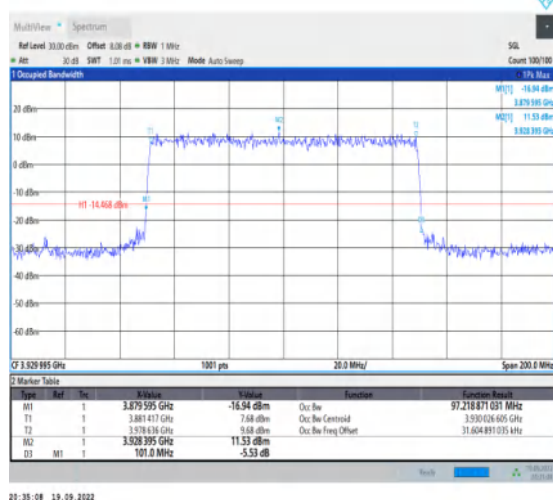
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1-N77-3700-3980--30-100-H-6-CP-QPSK-Outer\_Full-273@0-Ant1-97.33-100.800-≤100-PASS



1-N77-3700-3980--30-100-H-7-CP-16QAM-Outer\_Full-273@0-Ant1-97.219-101.000-≤100-PASS



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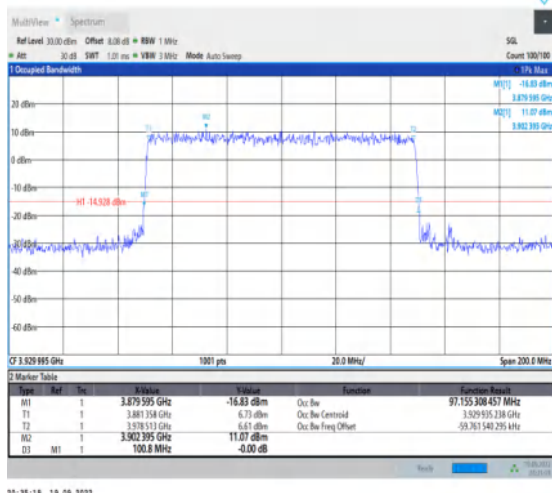
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20:38:18 19-09-2022

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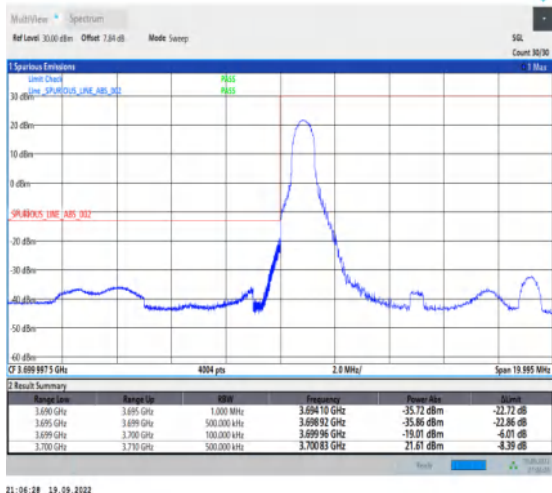
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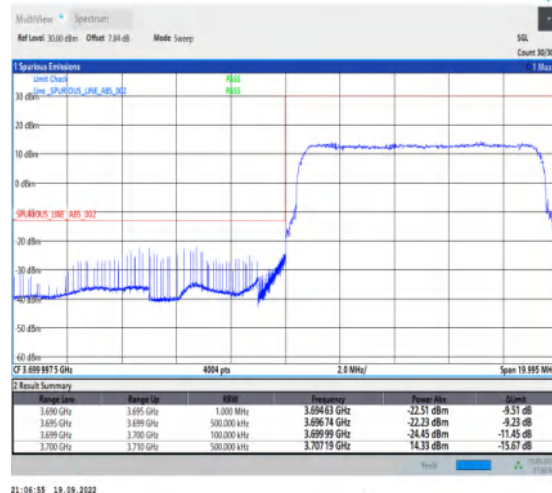
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### Band Edge for SA

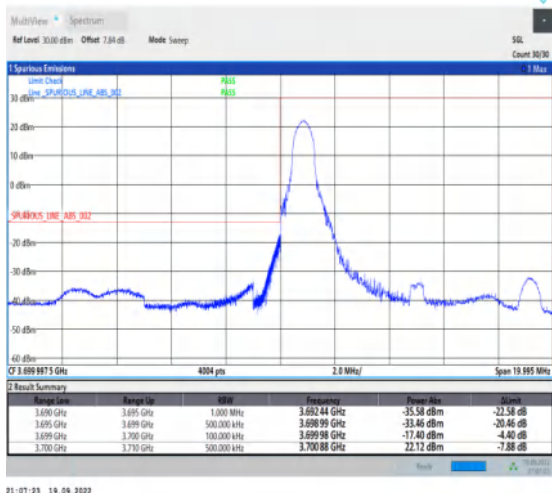
### Test Graphs



1-N77-3700-3980--30-10-L-1-DFT-PI2BPSK-Edge\_1R\_B\_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-10-L-3-DFT-PI2BPSK-Outer\_Full-24@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



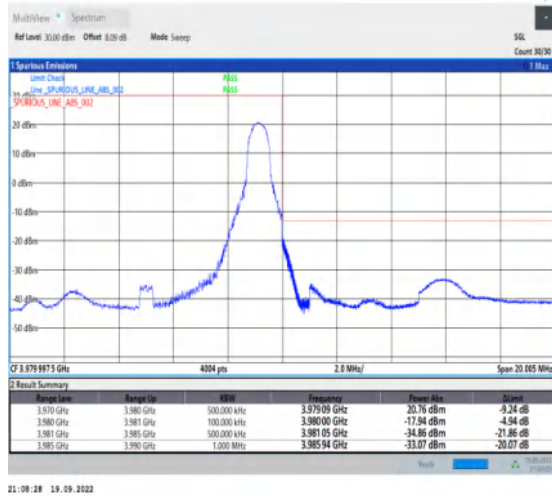
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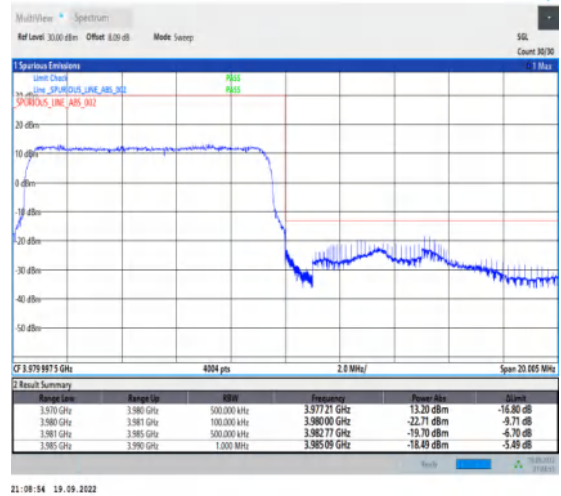
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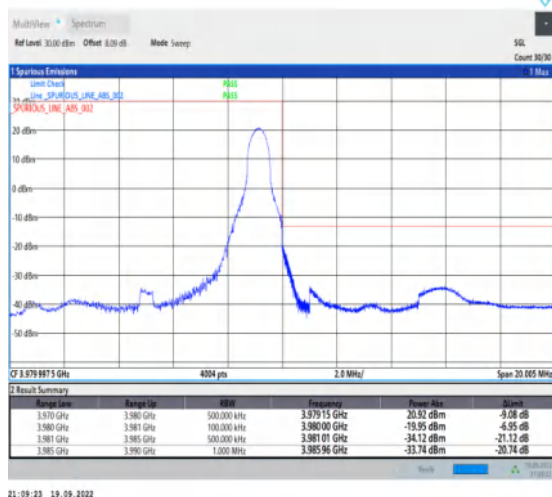
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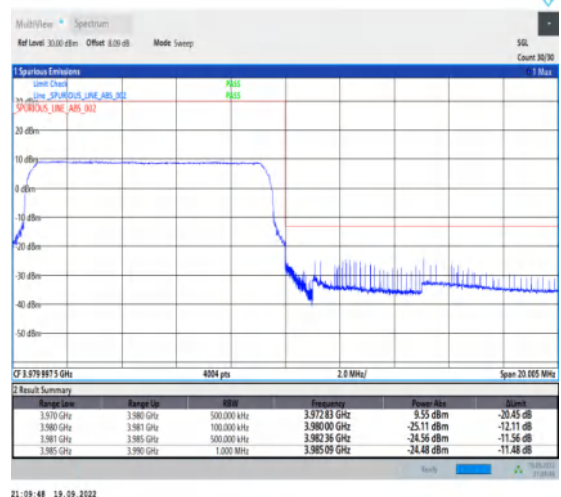
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21:09:48 19-09-2022

1-N77-3700-3980--30-10-H-6-CP-QPSK-Outer\_Ful l-24@0-Ant1-1--PASS-see graph



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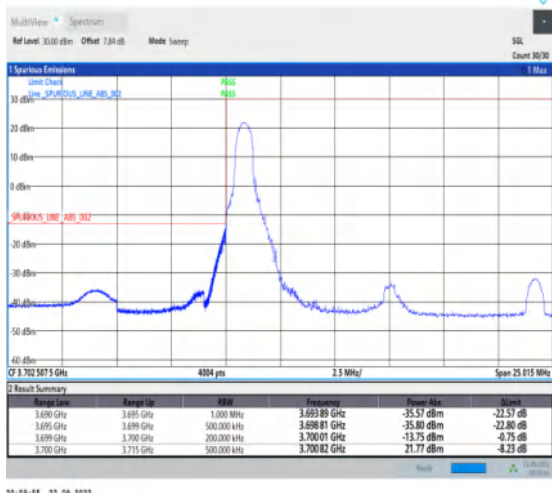
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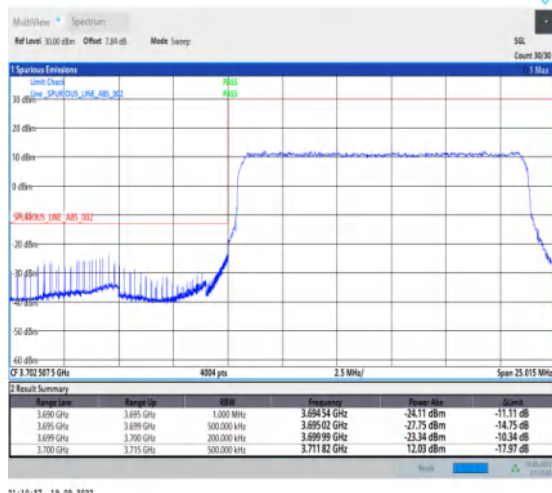
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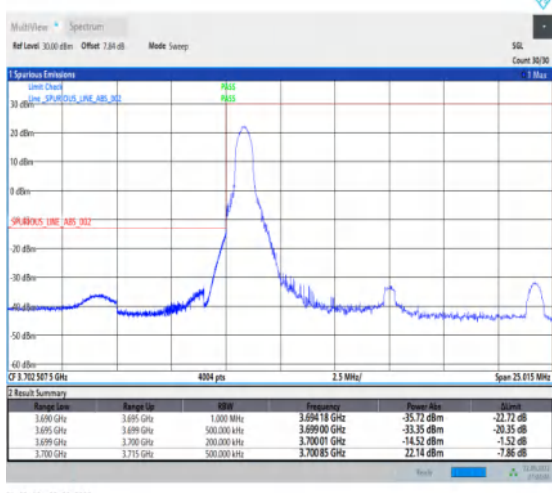
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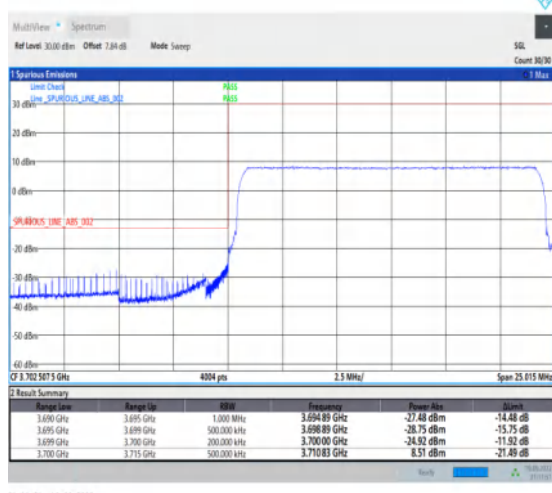
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21:00:46 22-09-2022

1-N77-3700-3980--30-15-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



21:11:51 19-09-2022

1-N77-3700-3980--30-15-L-6-CP-QPSK-Outer\_Full-38@0-Ant1-1--PASS-see graph



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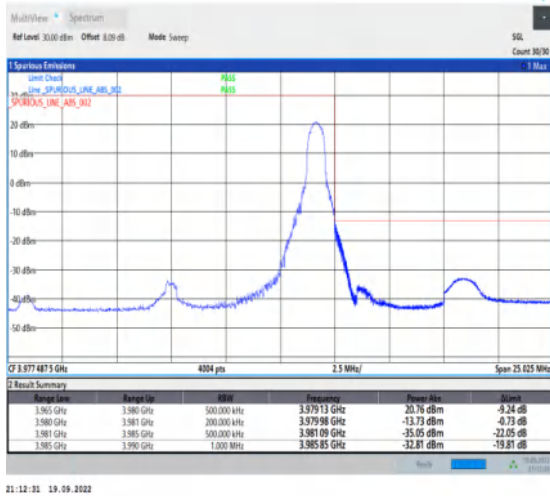
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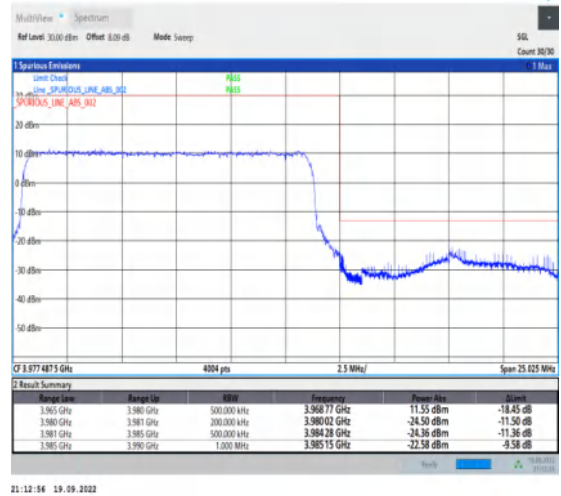
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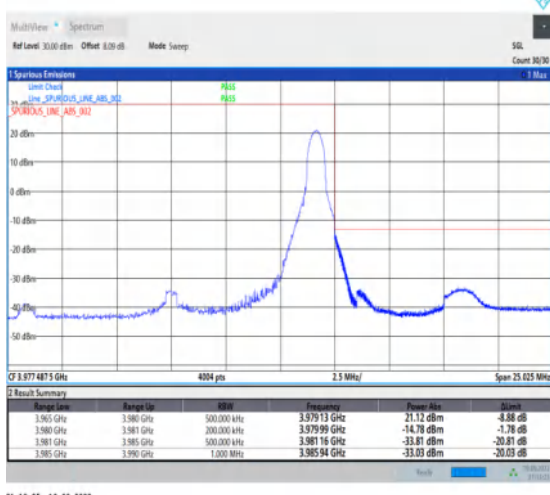
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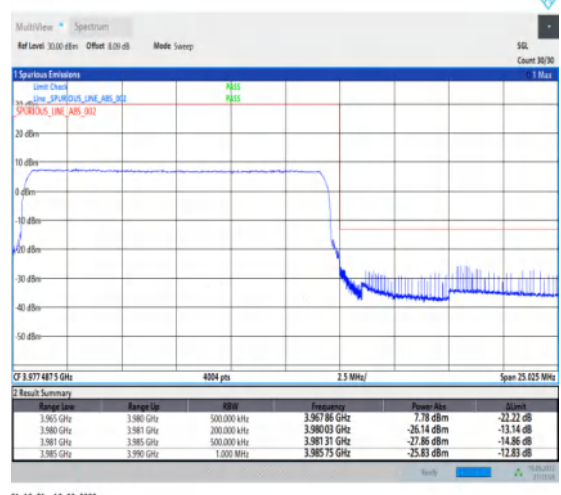
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21:13:25 19-09-2022

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21:13:51 19-09-2022

1-N77-3700-3980--30-15-H-6-CP-QPSK-Outer\_Ful l-38@0-Ant1-1--PASS-see graph



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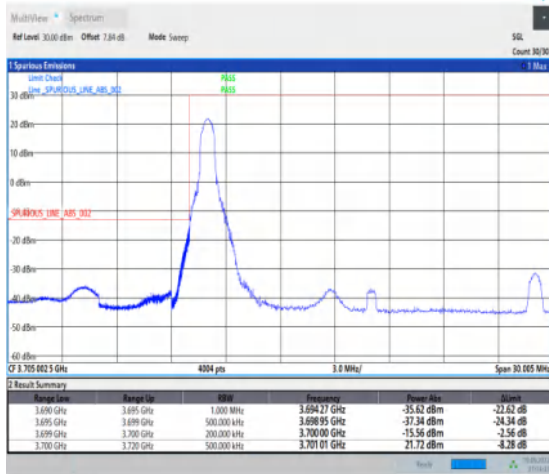
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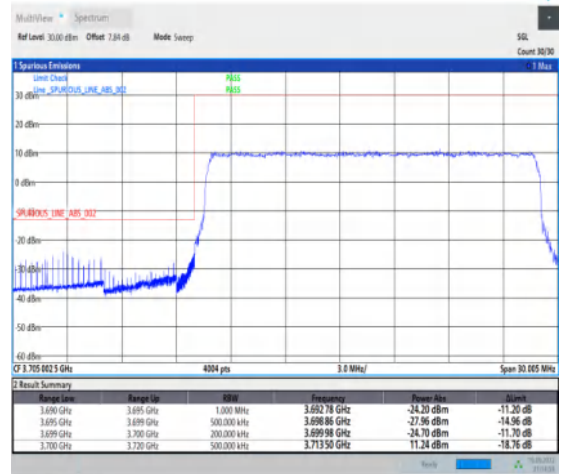
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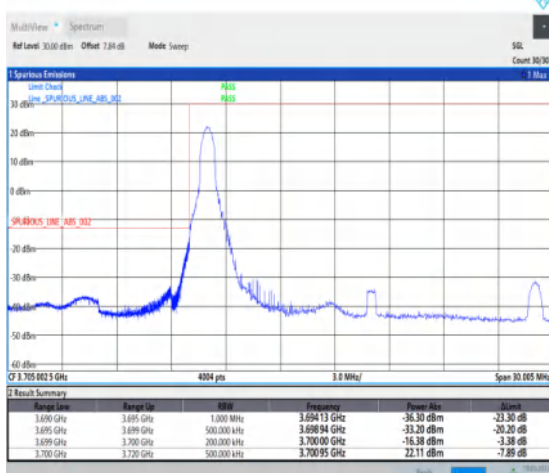
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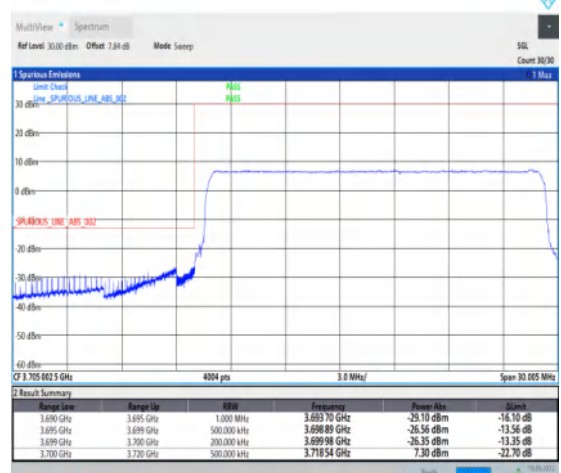
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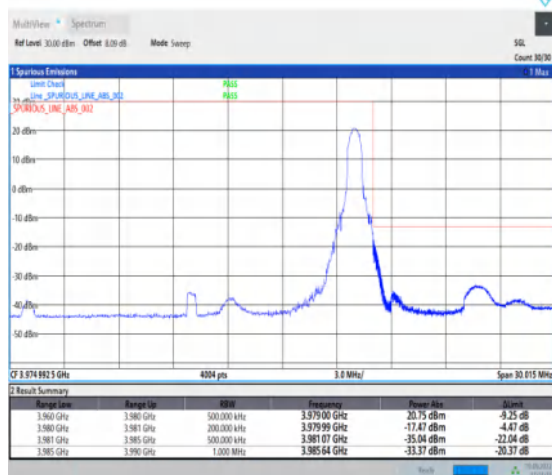
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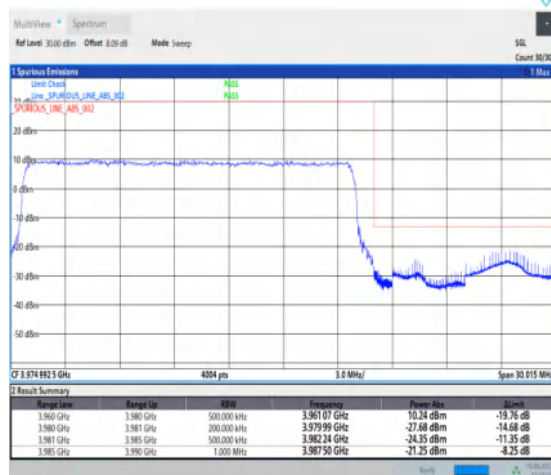
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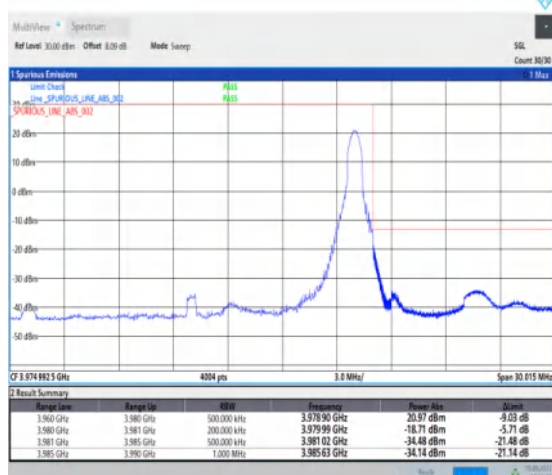
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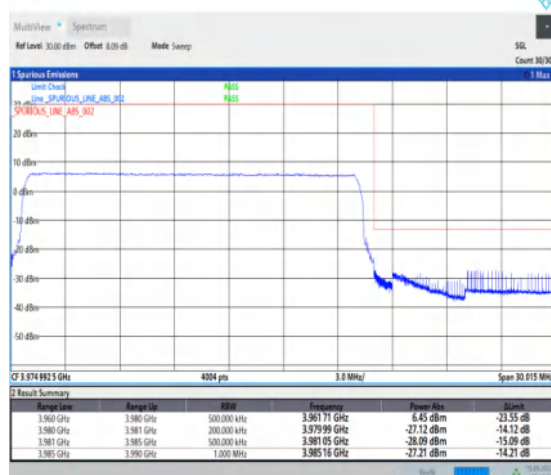
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21:17:54 19-09-2022

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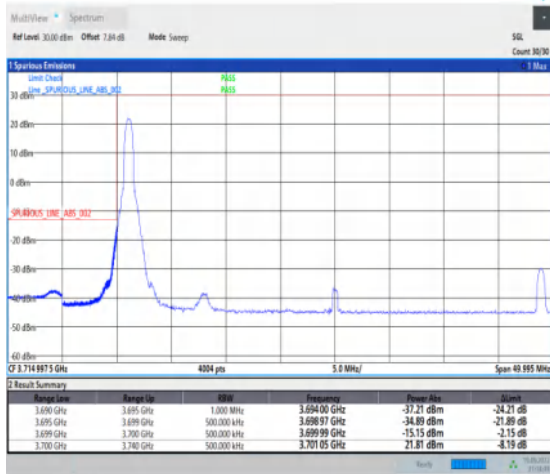
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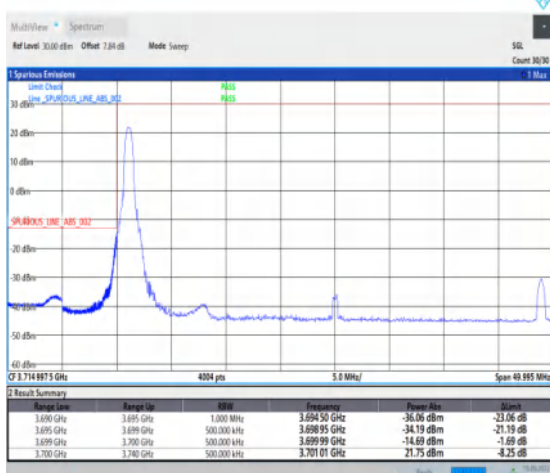
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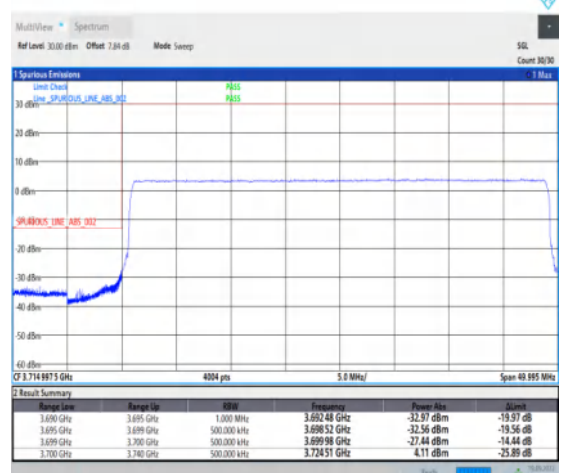
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1-N77-3700-3980--30-40-L-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1--PASS-see graph



21:19:44 19-09-2022

1-N77-3700-3980--30-40-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



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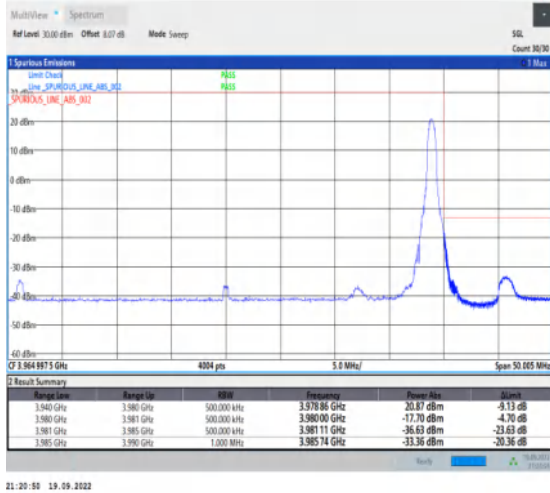


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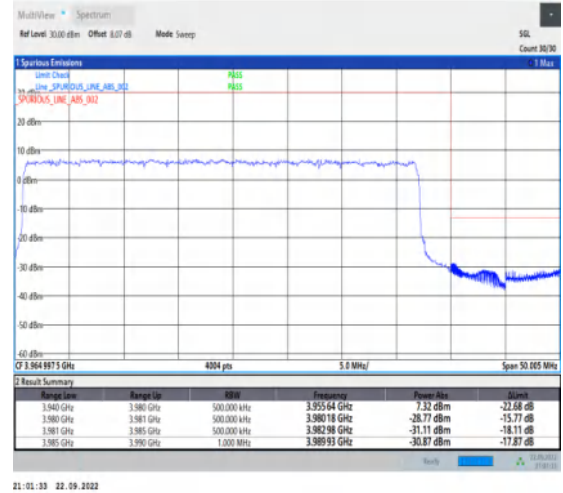
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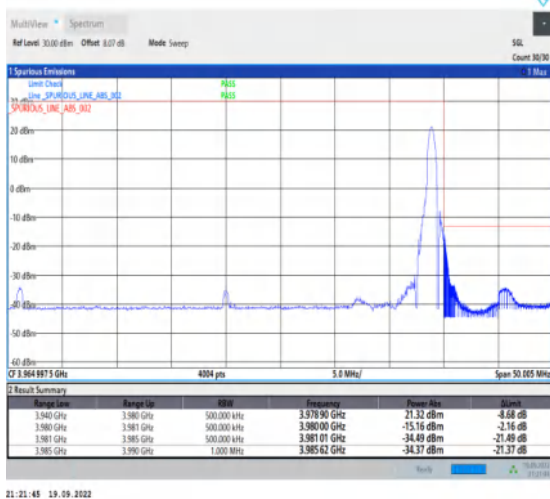
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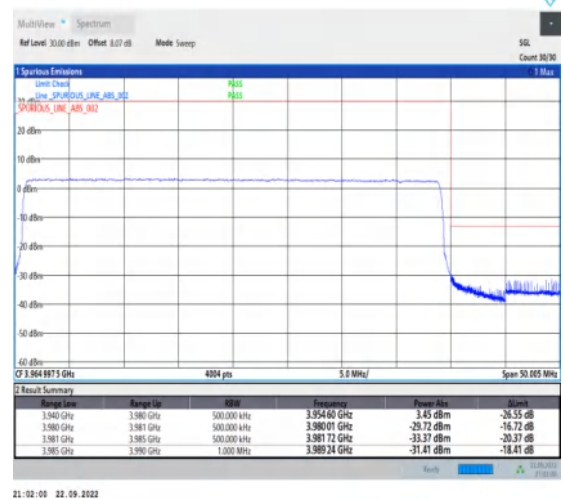
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B\_Right-1@105-Ant1-1--PASS-see graph



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\_R  
ight-1@105-Ant1-1--PASS-see graph



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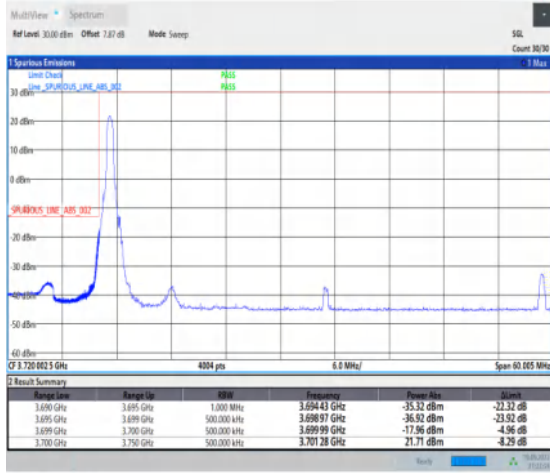
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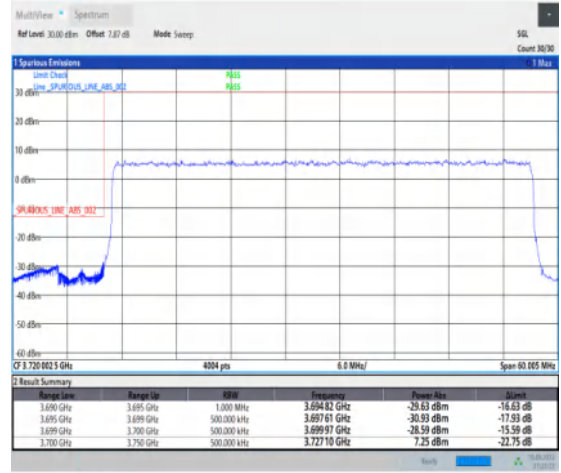
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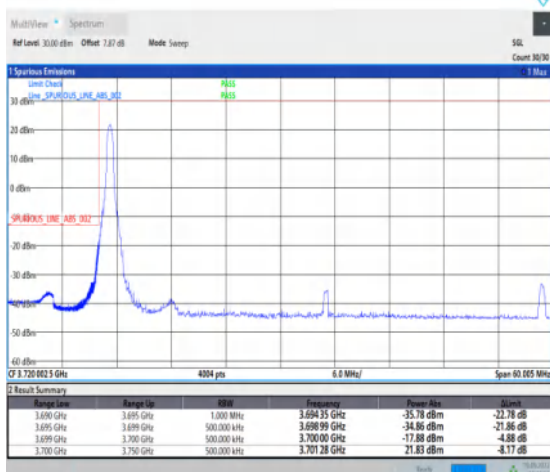
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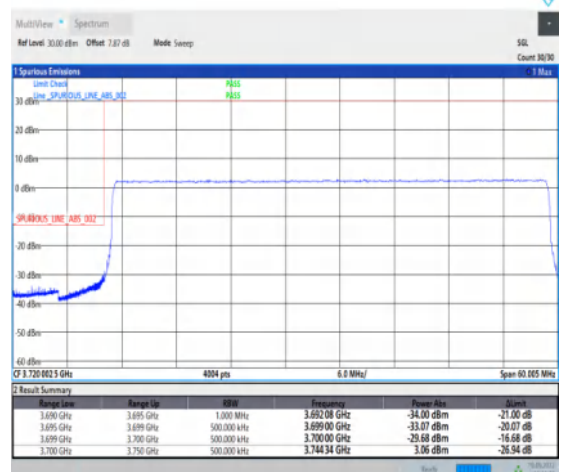
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21:23:54 19-09-2022

1-N77-3700-3980--30-50-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



21:24:20 19-09-2022

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



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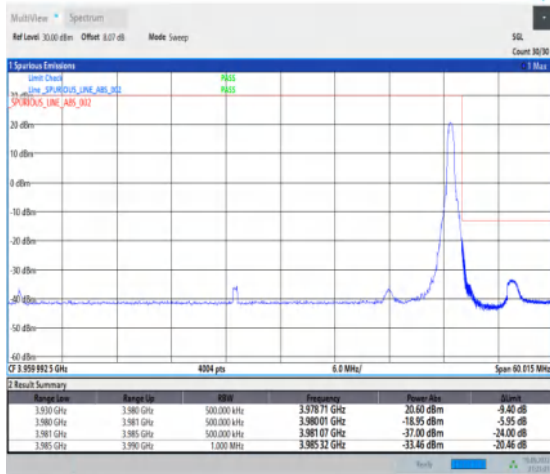
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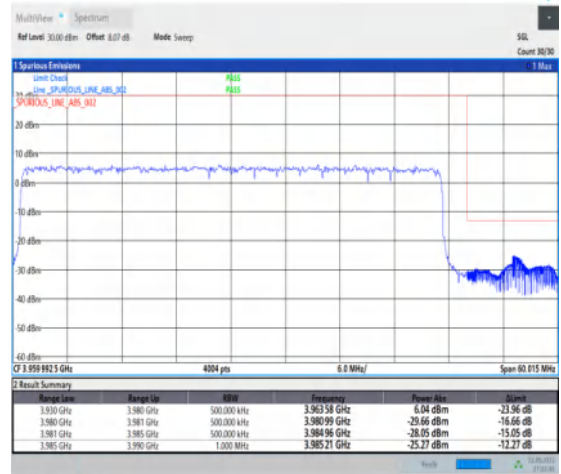
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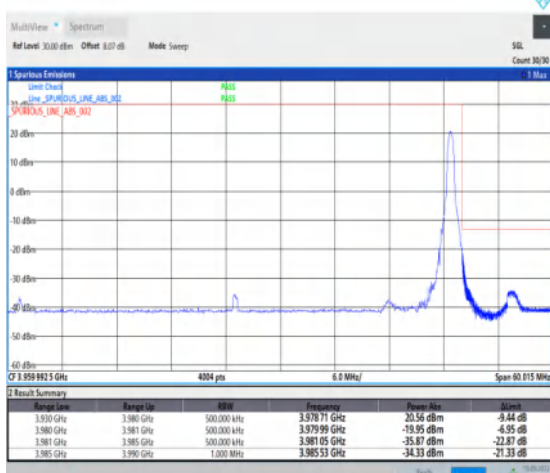
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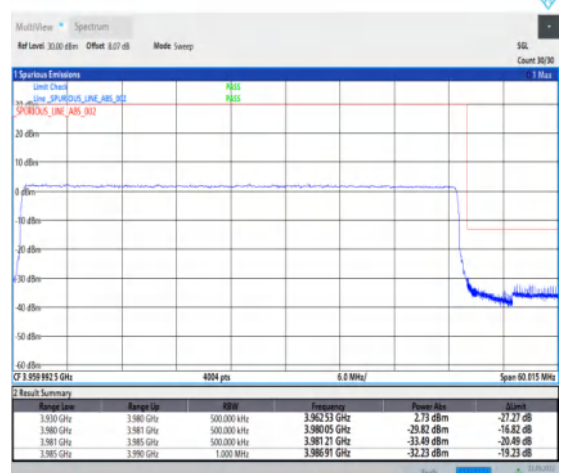
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21:25:58 19-09-2022

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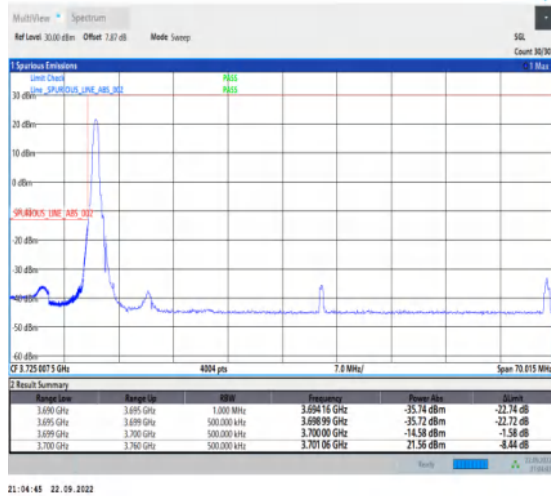
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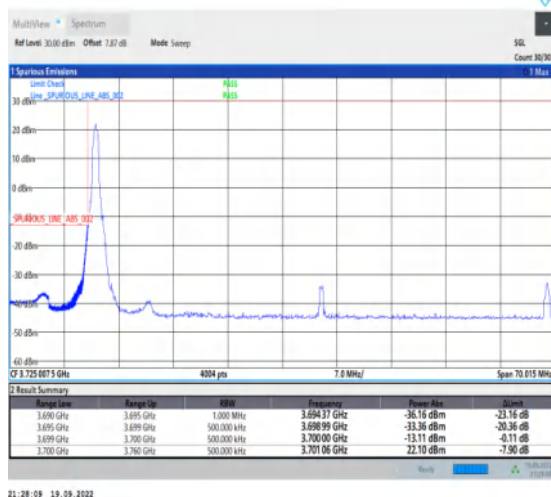
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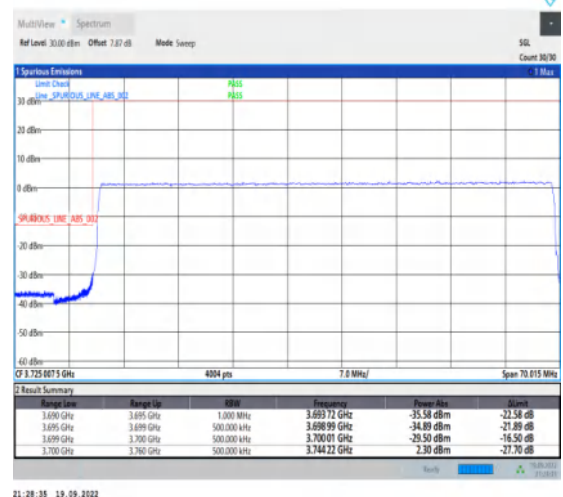
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21:28:09 19-09-2022

1-N77-3700-3980--30-60-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



21:28:16 19-09-2022

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



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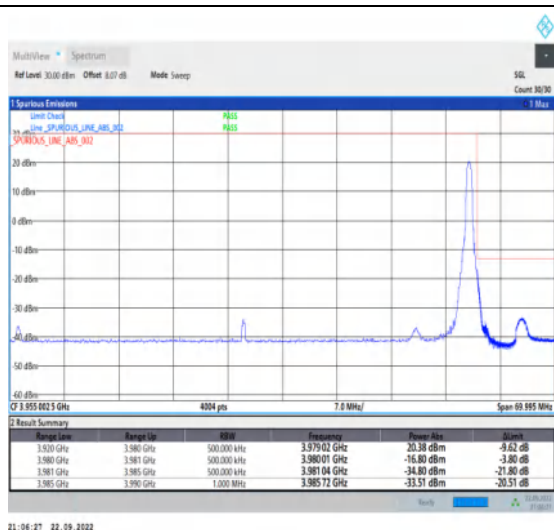
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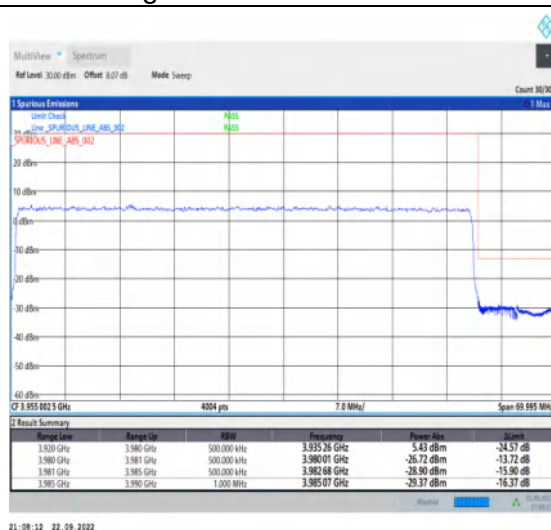
Rev.: 01

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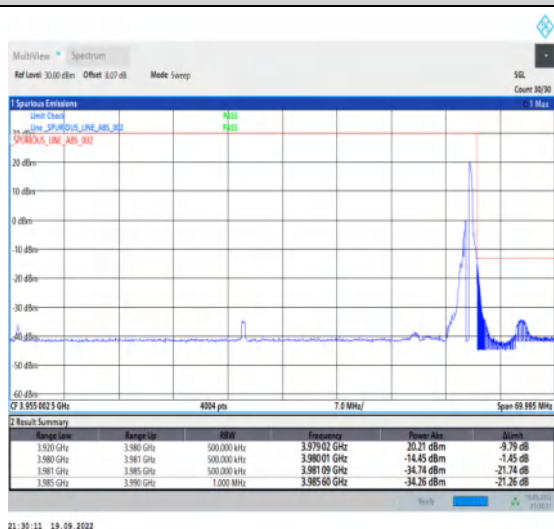
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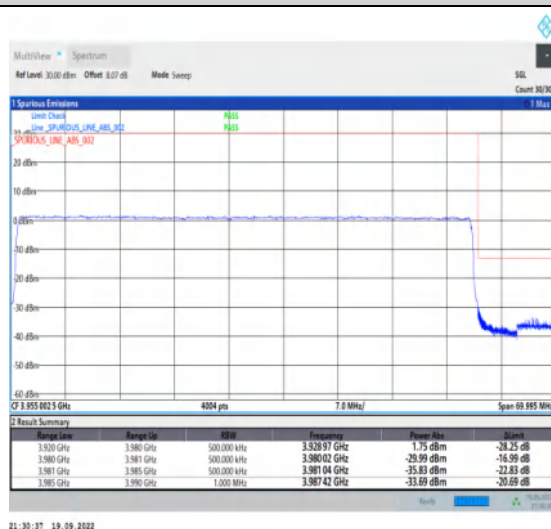
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21-10-11 19-09-2022

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21-10-17 19-09-2022

1-N77-3700-3980--30-60-H-6-CP-QPSK-Outer\_Ful  
l-162@0-Ant1-1--PASS-see graph



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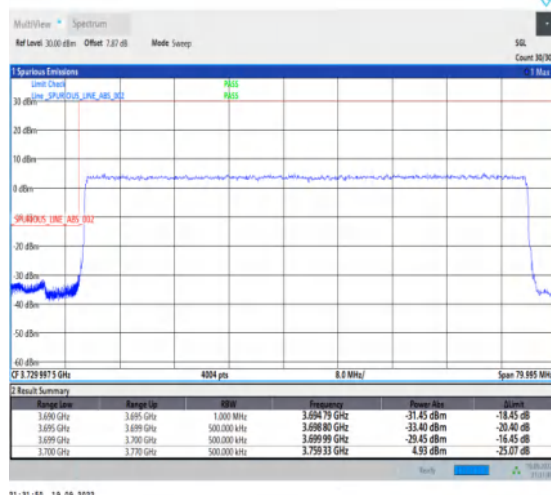
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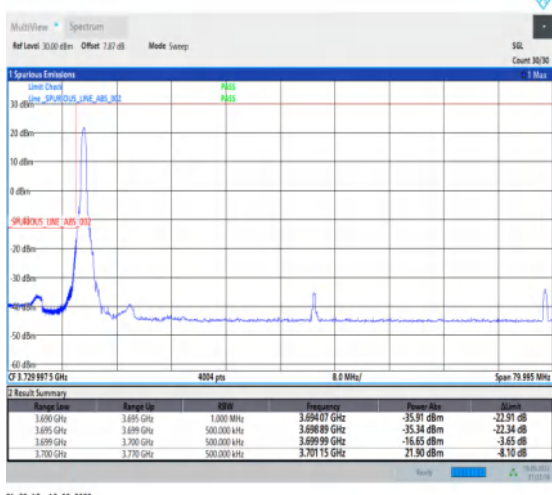
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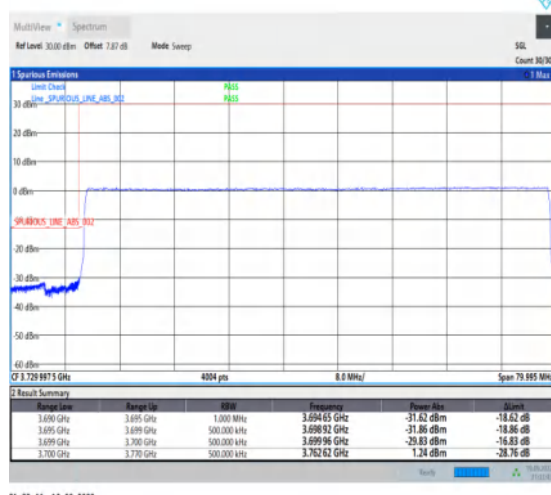
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21:32:18 19-09-2022

1-N77-3700-3980--30-70-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



21:32:44 19-09-2022

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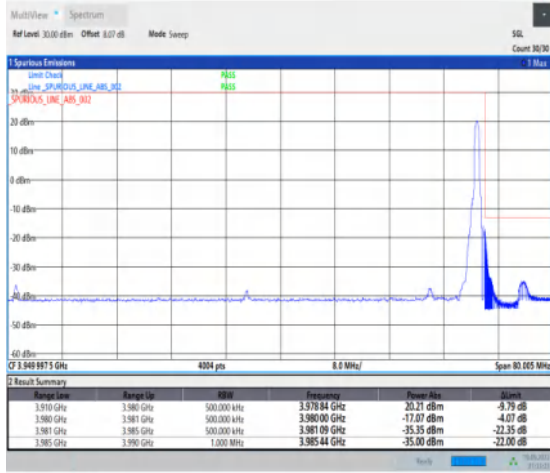
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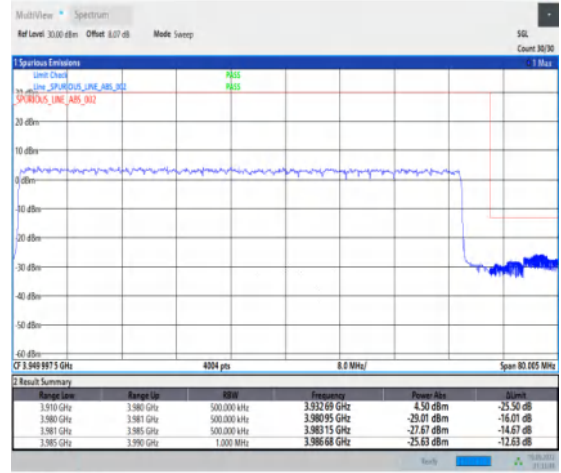
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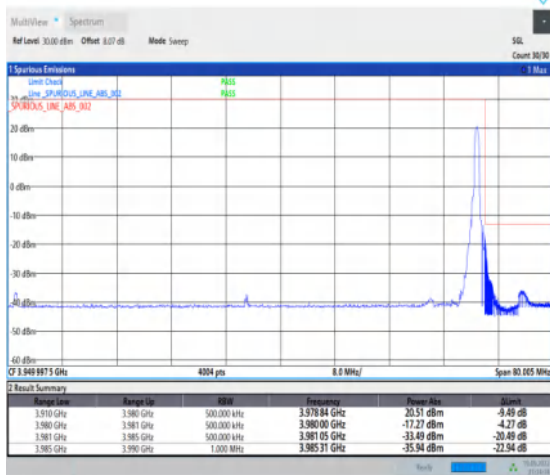
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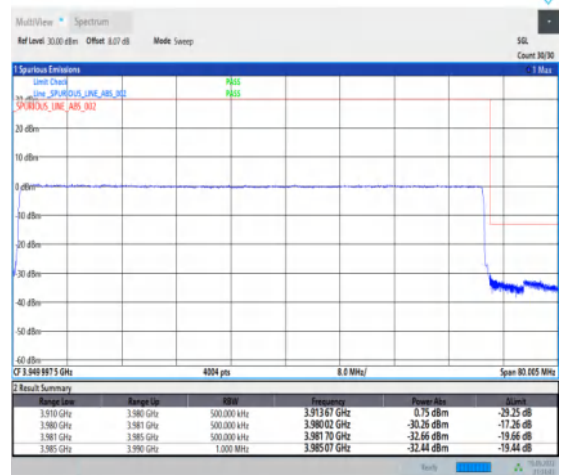
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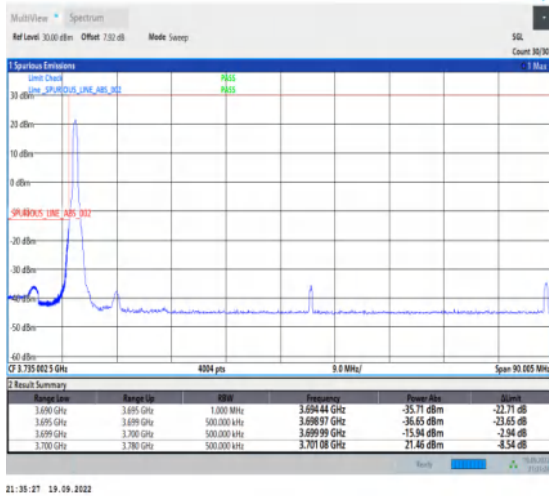
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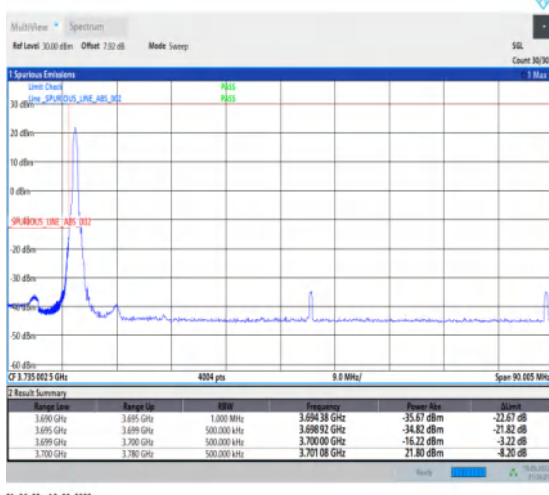
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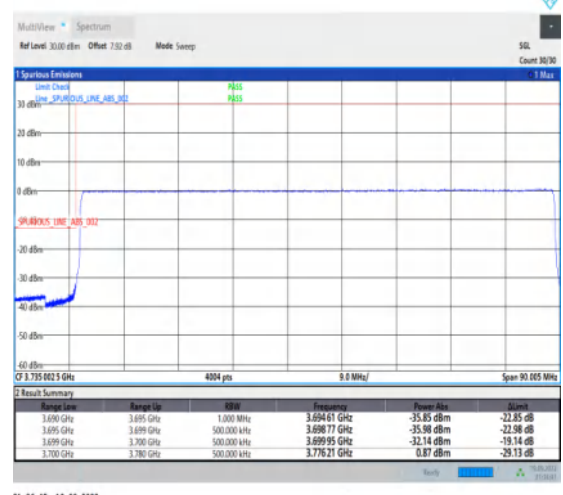
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21:36:48 19-09-2022

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



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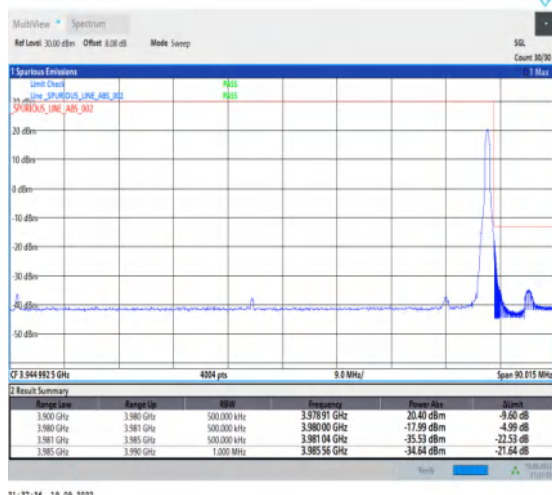
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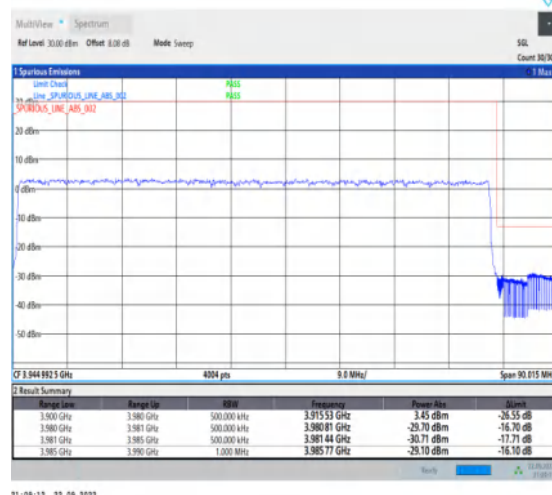
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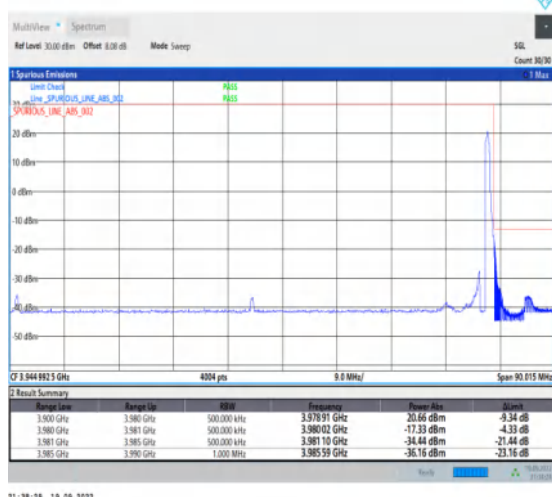
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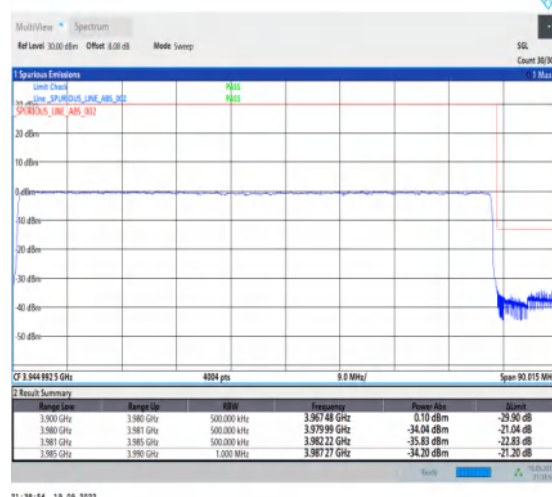
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\_Full-216@0-Ant1-1--PASS-see graph



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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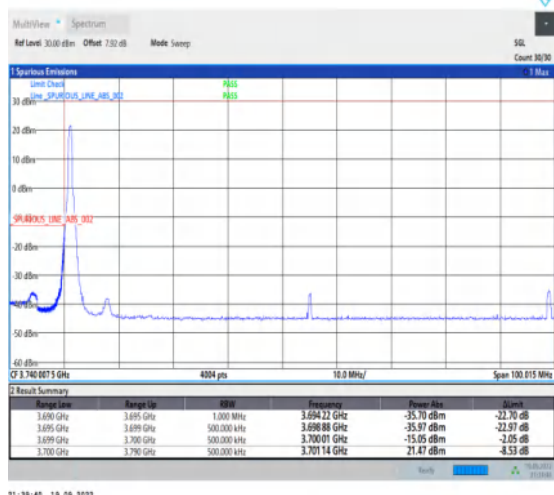
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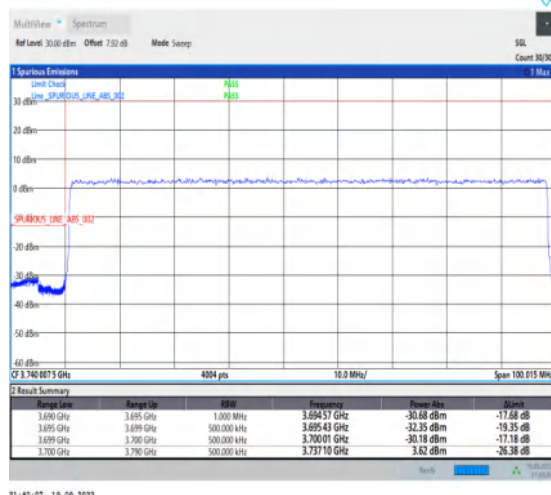
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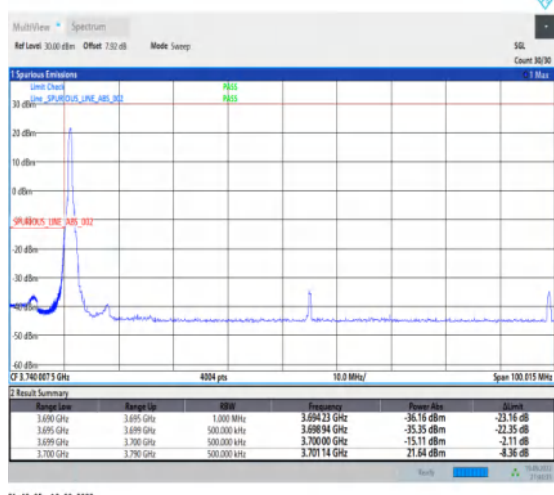
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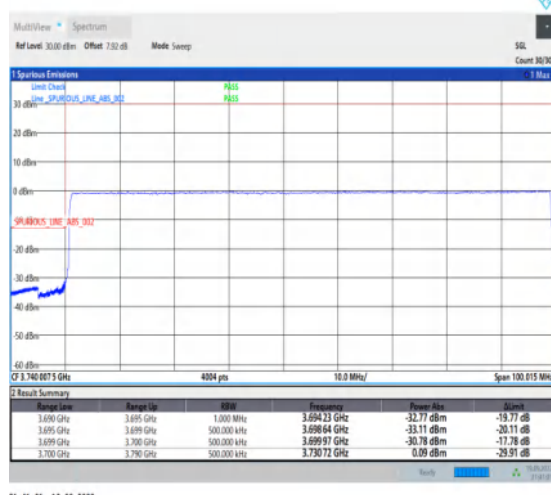
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21:41:01 19-09-2022

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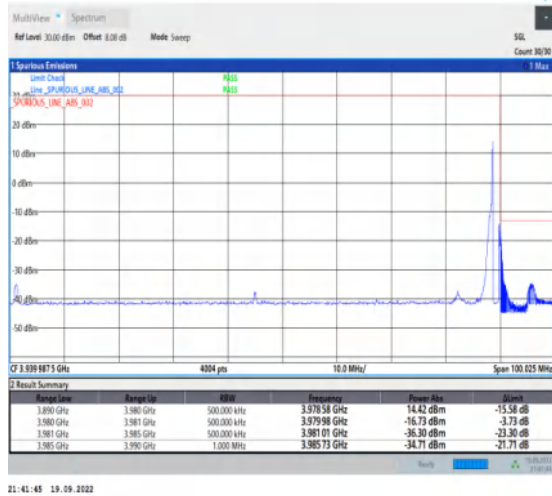
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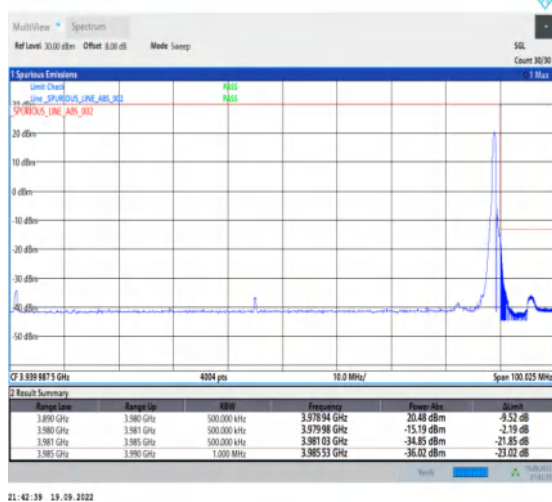
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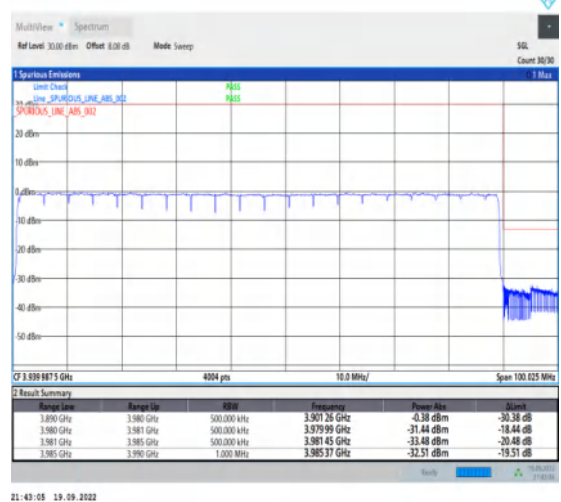
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\_Full-243@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-90-H-5-CP-QPSK-Edge\_1RB\_R  
ight-1@244-Ant1-1--PASS-see graph



1-N77-3700-3980--30-90-H-6-CP-QPSK-Outer\_Ful  
l-245@0-Ant1-1--PASS-see graph



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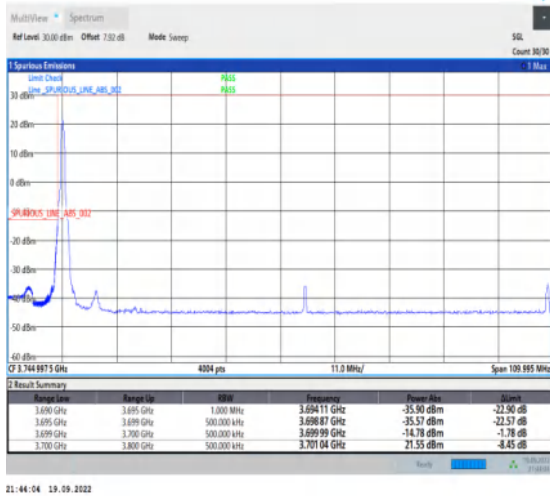
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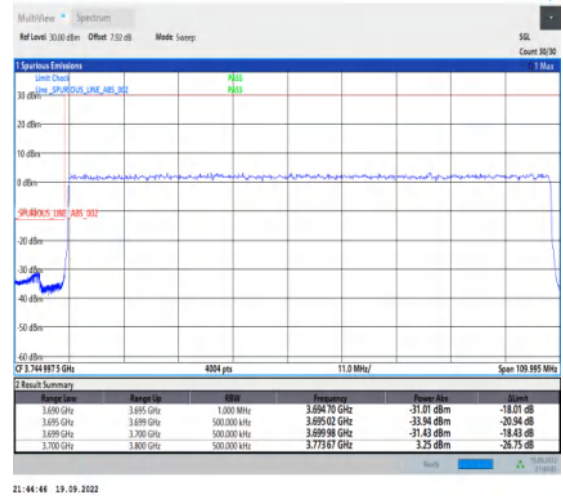
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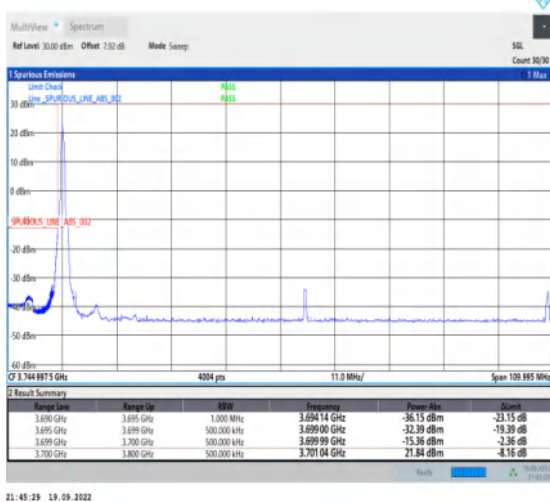




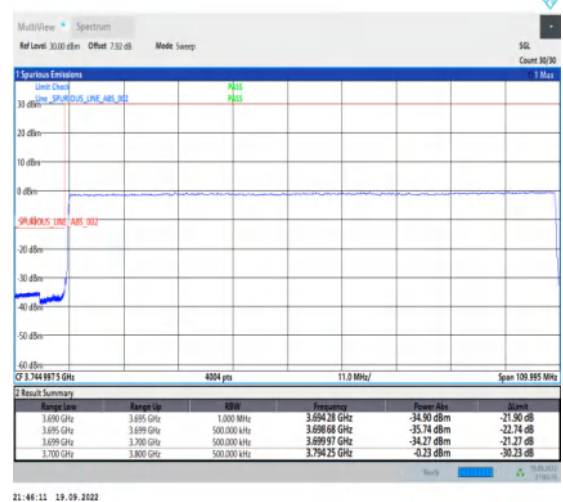
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1-N77-3700-3980--30-100-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-100-L-6-CP-QPSK-Outer\_Full-273@0-Ant1-1--PASS-see graph



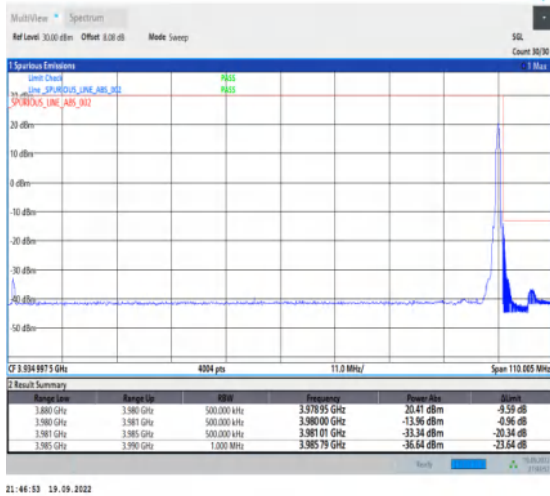
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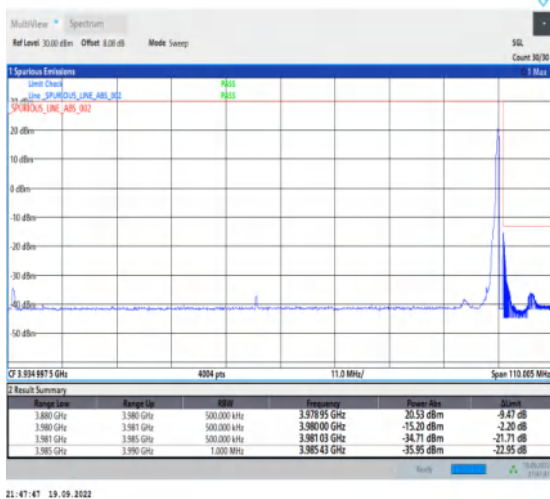
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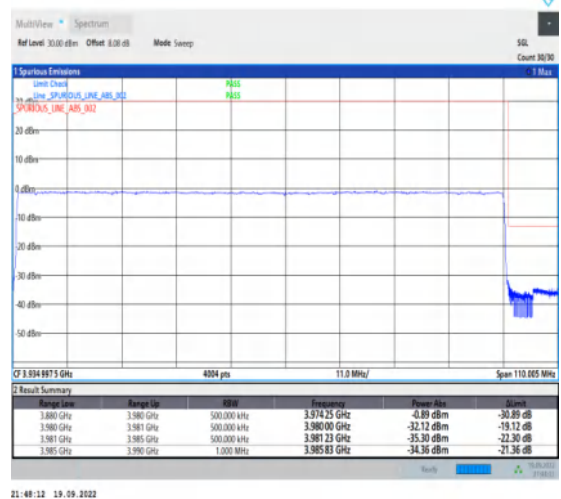
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1-N77-3700-3980--30-100-H-5-CP-QPSK-Edge\_1RB  
Right-1@272-Ant1-1--PASS-see graph



1-N77-3700-3980--30-100-H-6-CP-QPSK-Outer\_F  
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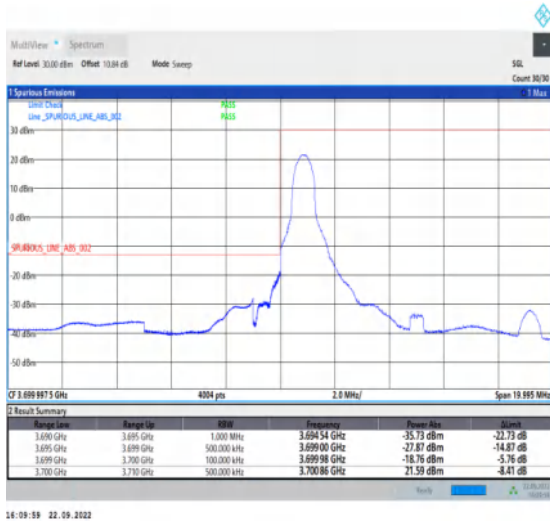
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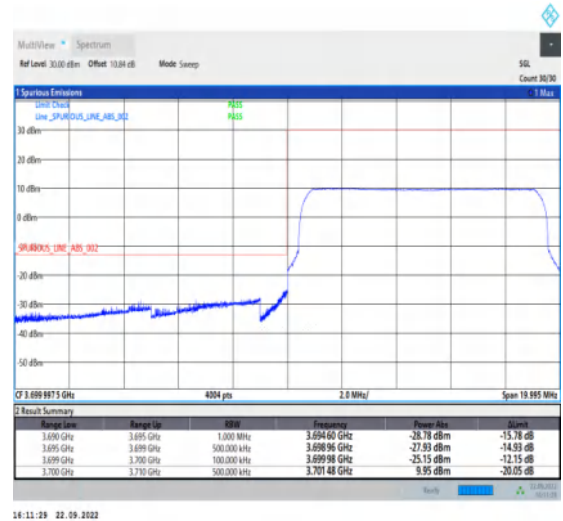
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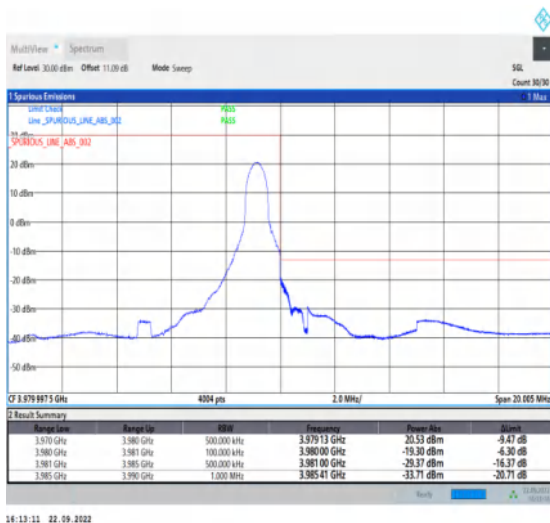
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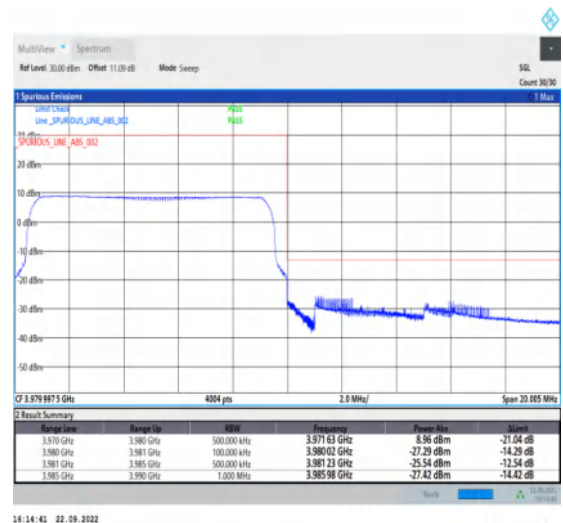
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\_Full-24@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-10-H-5-CP-QPSK-Edge\_1R  
B\_Right-1@23-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-10-H-6-CP-QPSK-Outer  
\_Full-24@0-Ant1-1--PASS-see graph



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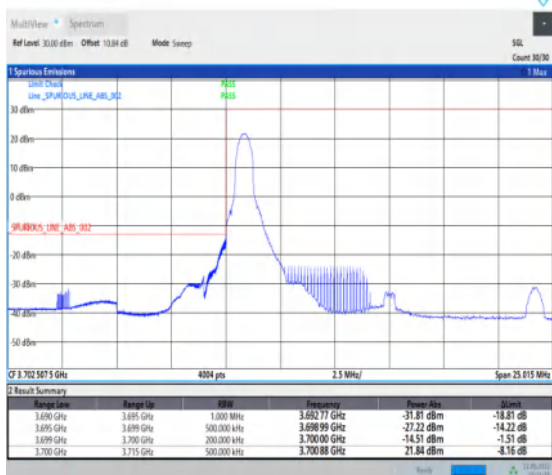
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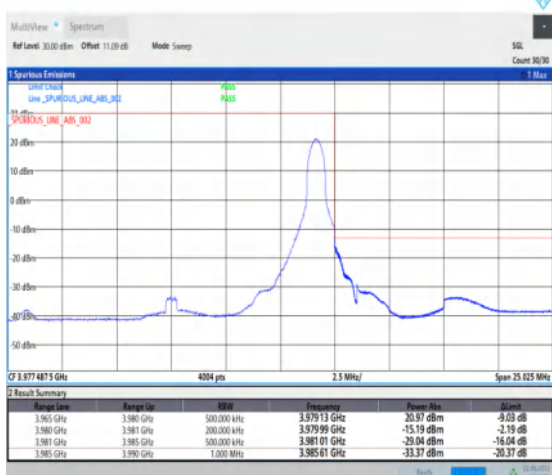
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16:17:59 22-09-2022

1-N77-3700-3980-PC2-30-15-L-6-CP-QPSK-Outer  
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16:19:41 22-09-2022

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16:21:10 22-09-2022

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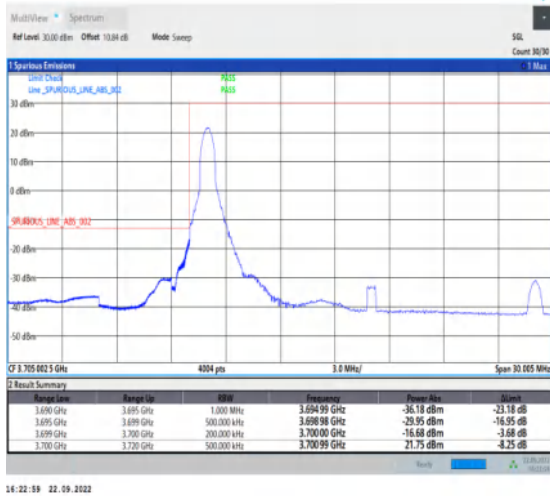
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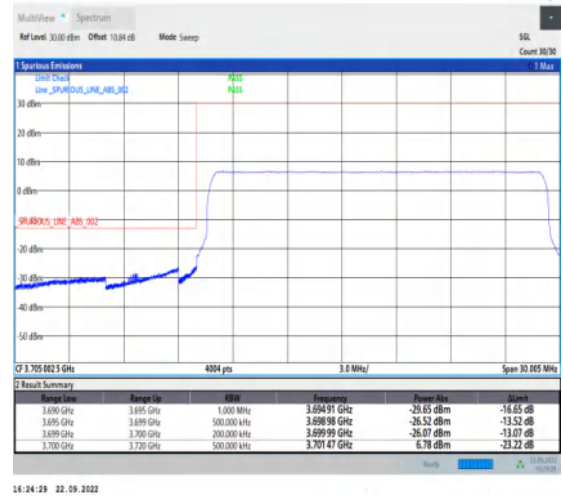
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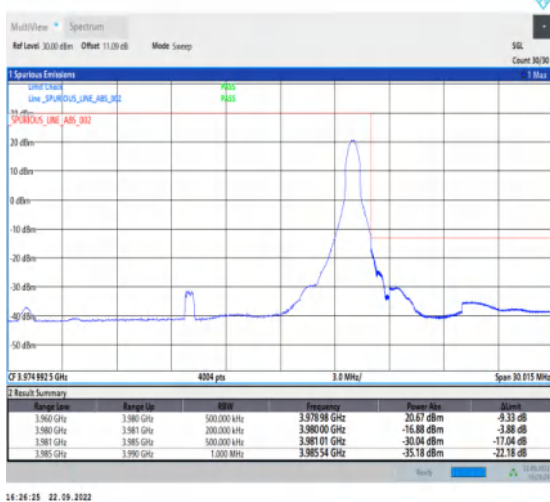
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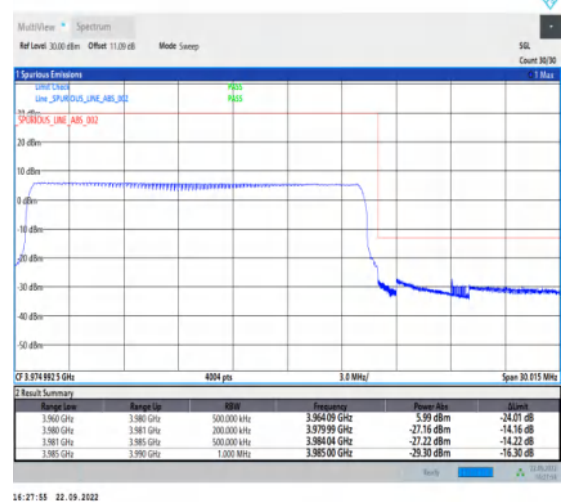
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B\_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-20-L-6-CP-QPSK-Outer  
\_Full-51@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-20-H-5-CP-QPSK-Edge\_1R  
B\_Right-1@50-Ant1-1--PASS-see graph



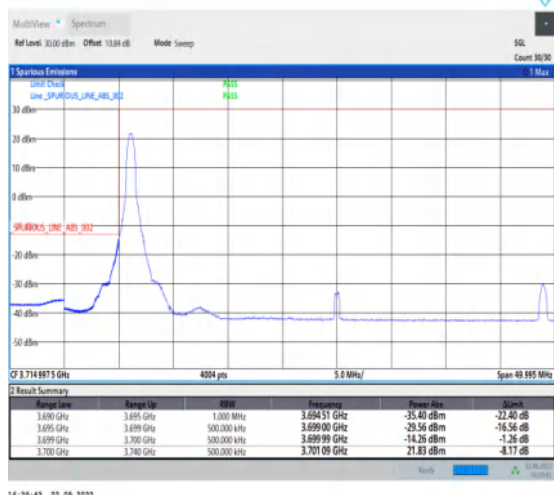
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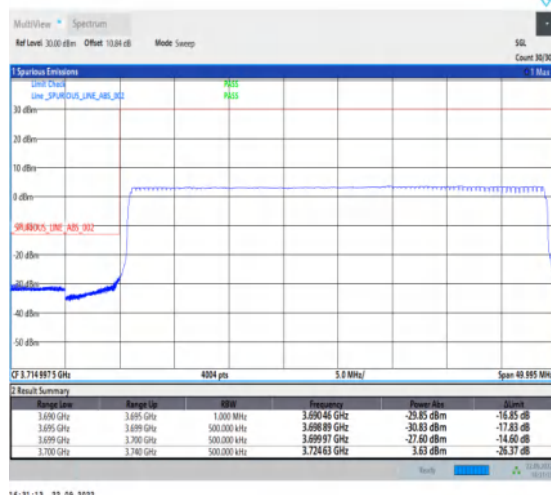
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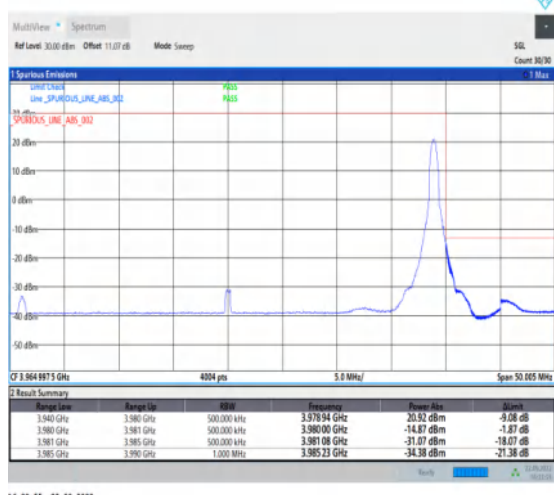
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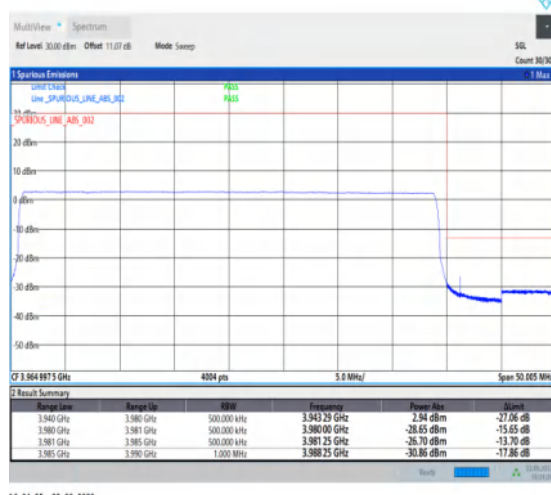
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\_Full-106@0-Ant1-1--PASS-see graph



14:32:55 22-09-2022

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B\_Right-1@105-Ant1-1--PASS-see graph



14:34:25 22-09-2022

1-N77-3700-3980-PC2-30-40-H-6-CP-QPSK-Outer  
\_Full-106@0-Ant1-1--PASS-see graph



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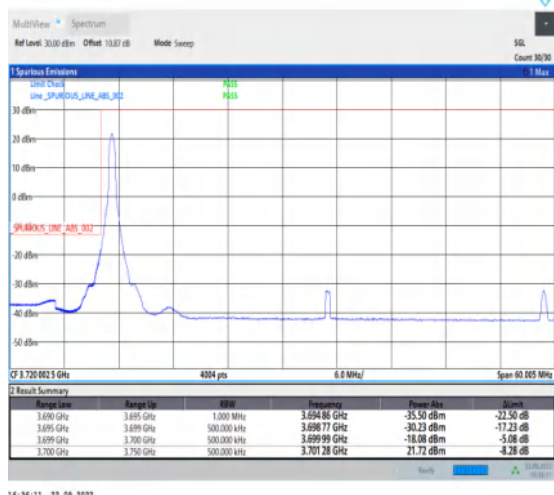
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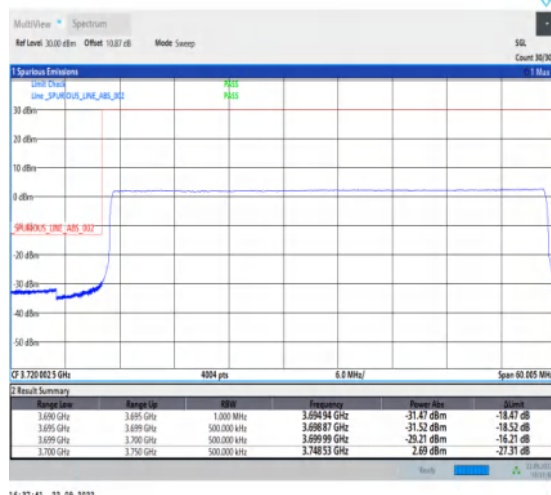
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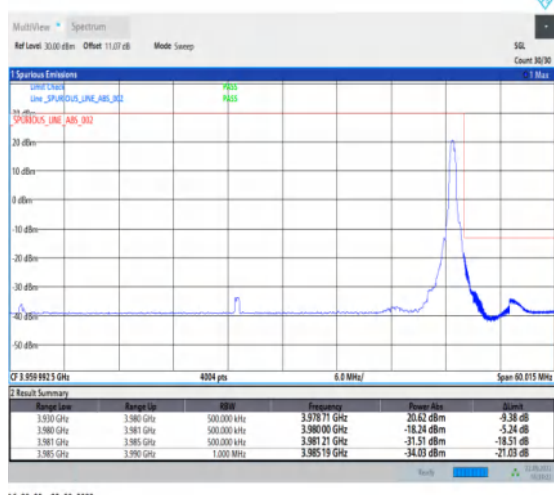
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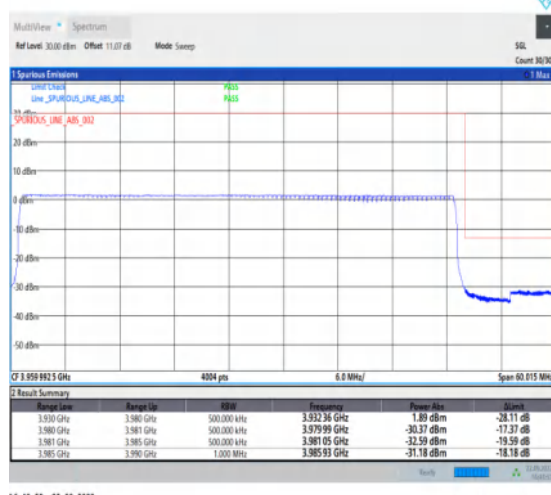
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16:39:23 22-09-2022

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B\_Right-1@132-Ant1-1--PASS-see graph



16:40:52 22-09-2022

1-N77-3700-3980-PC2-30-50-H-6-CP-QPSK-Outer  
\_Full-133@0-Ant1-1--PASS-see graph



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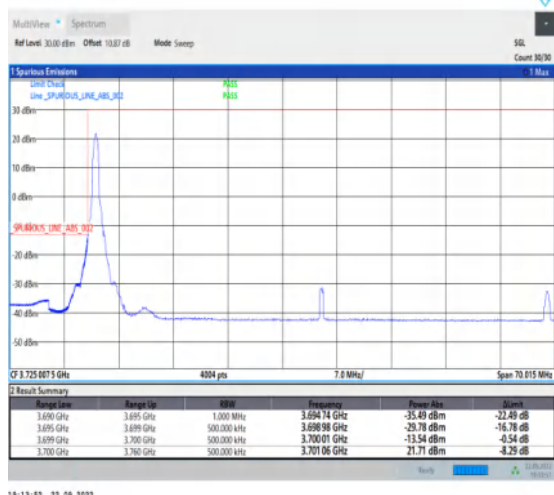
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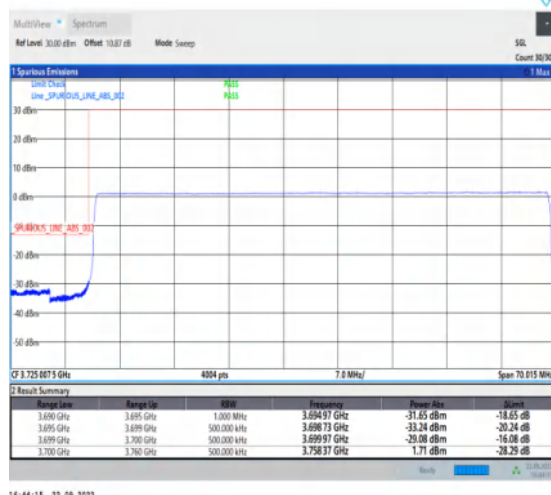
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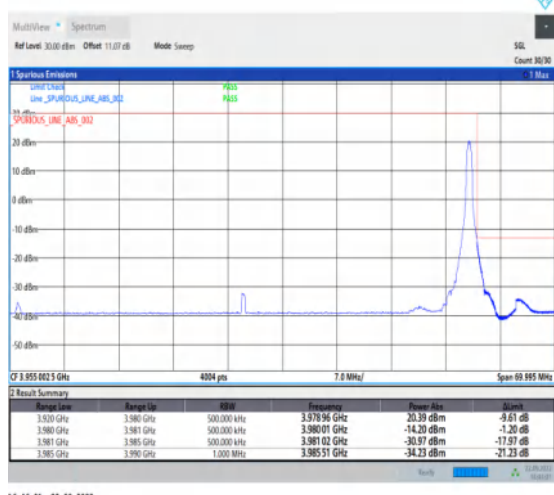
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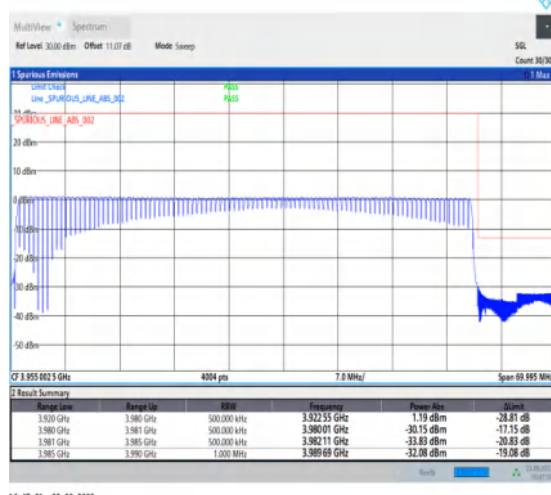
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\_Full-162@0-Ant1-1--PASS-see graph



16:46:01 22-09-2022

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B\_Right-1@161-Ant1-1--PASS-see graph



16:47:31 22-09-2022

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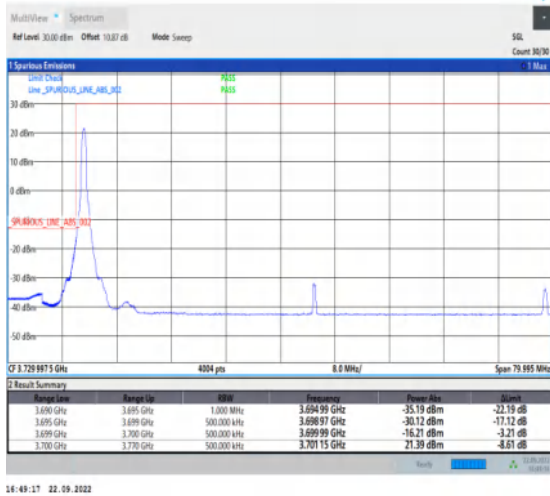
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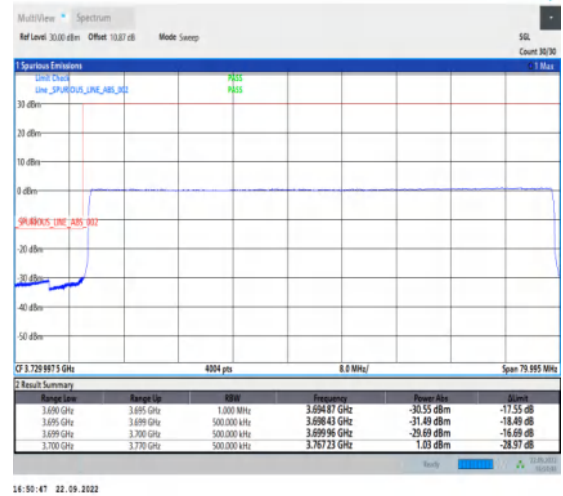
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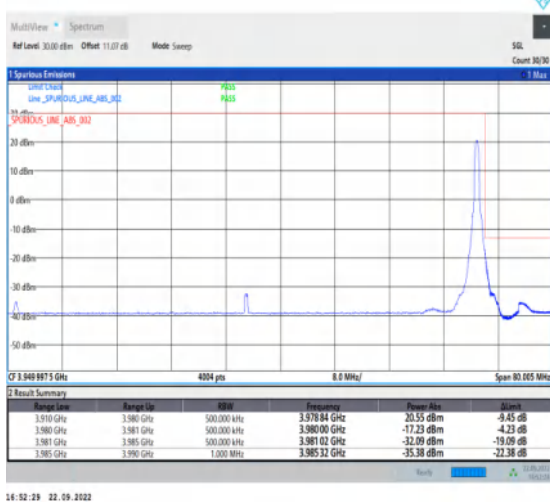
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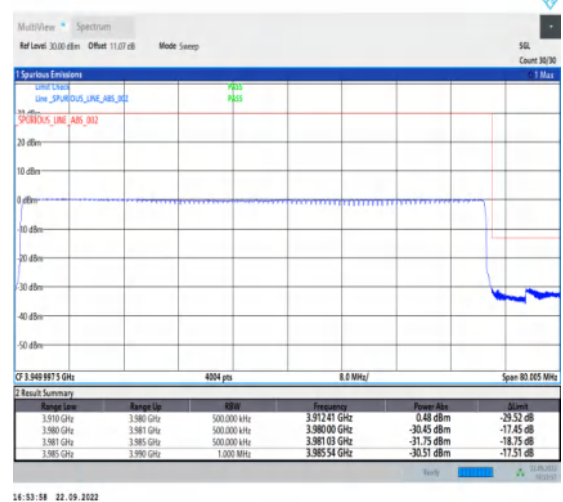
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B\_Left-1@0-Ant1-1--PASS-see graph



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\_Full-189@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-70-H-5-CP-QPSK-Edge\_1R  
B\_Right-1@188-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-70-H-6-CP-QPSK-Outer  
\_Full-189@0-Ant1-1--PASS-see graph



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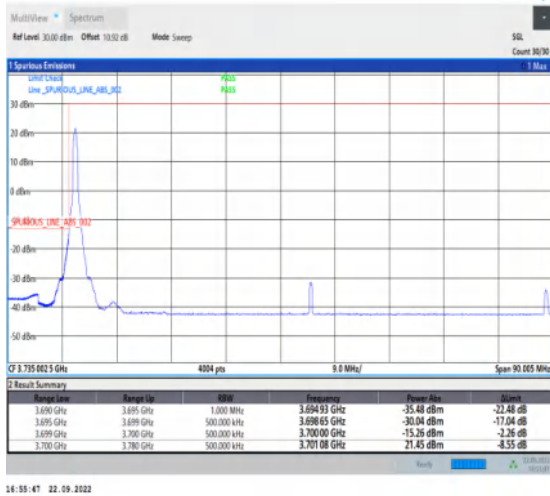
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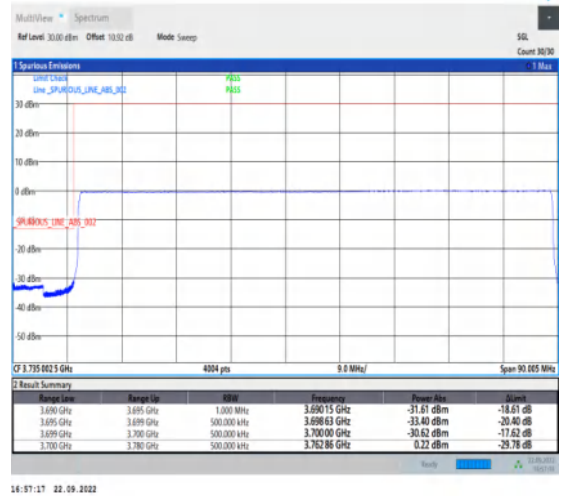
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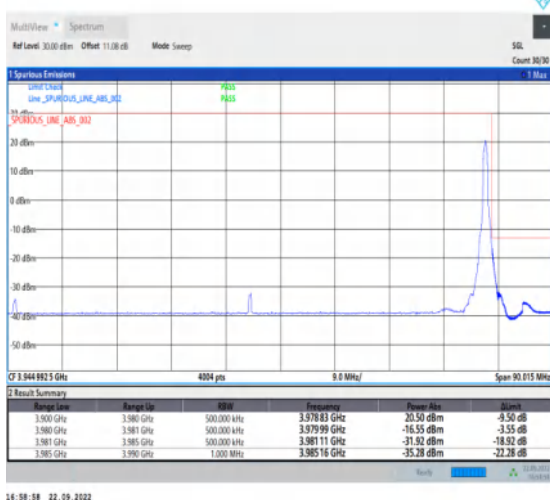
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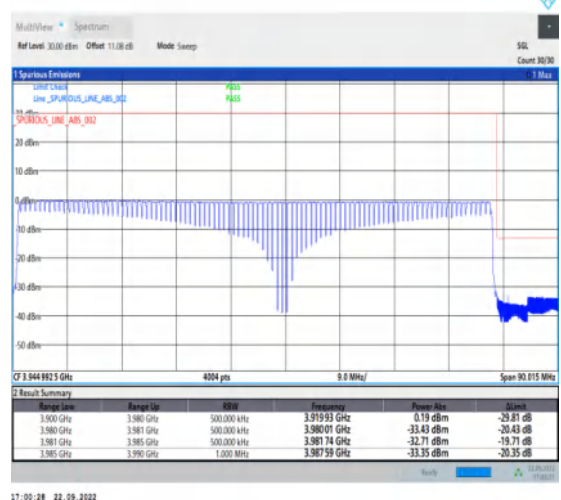
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\_Full-217@0-Ant1-1--PASS-see graph



14:58:58 22-09-2022

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B\_Right-1@216-Ant1-1--PASS-see graph



17:00:28 22-09-2022

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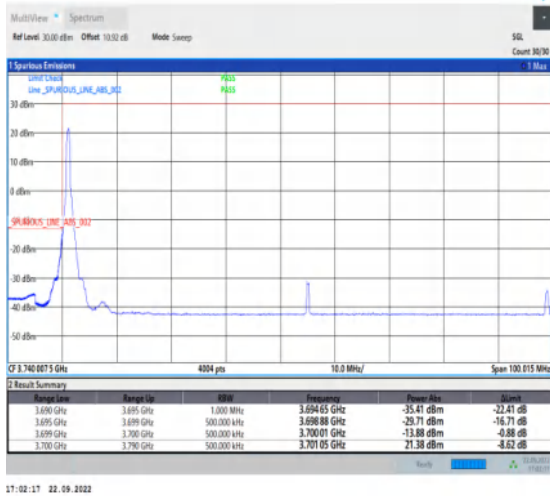
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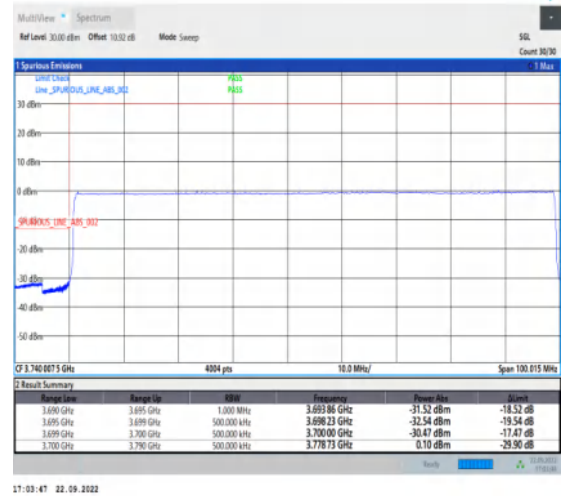
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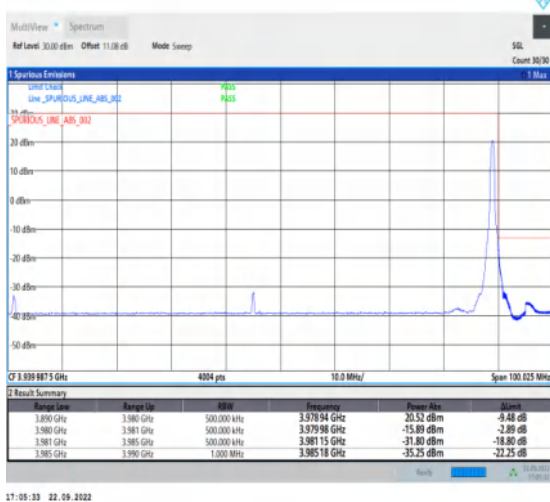
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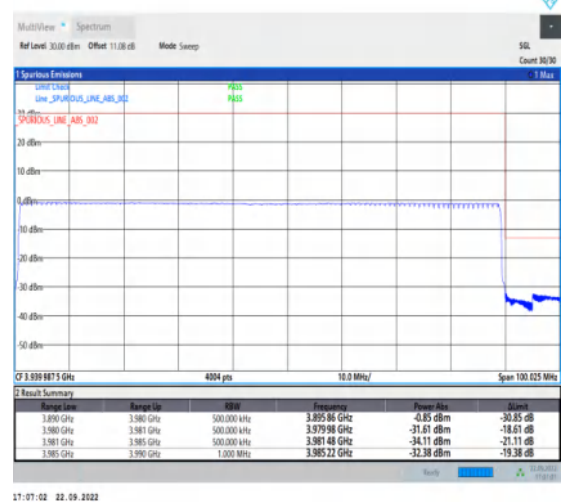
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1-N77-3700-3980-PC2-30-90-L-6-CP-QPSK-Outer  
\_Full-245@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-90-H-5-CP-QPSK-Edge\_1R  
B\_Right-1@244-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-90-H-6-CP-QPSK-Outer  
\_Full-245@0-Ant1-1--PASS-see graph



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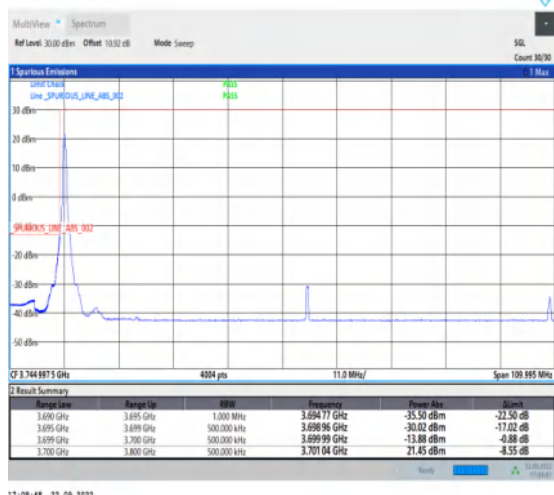
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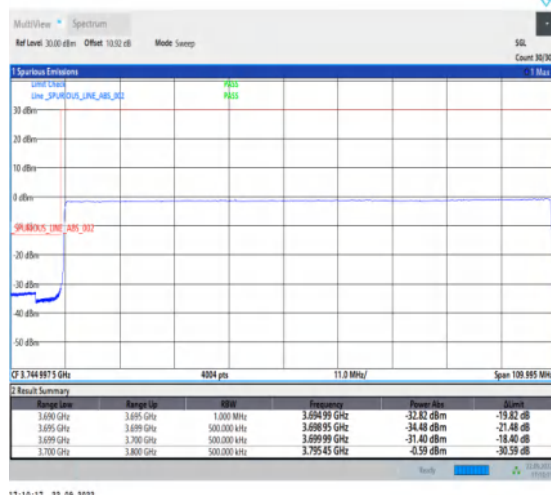
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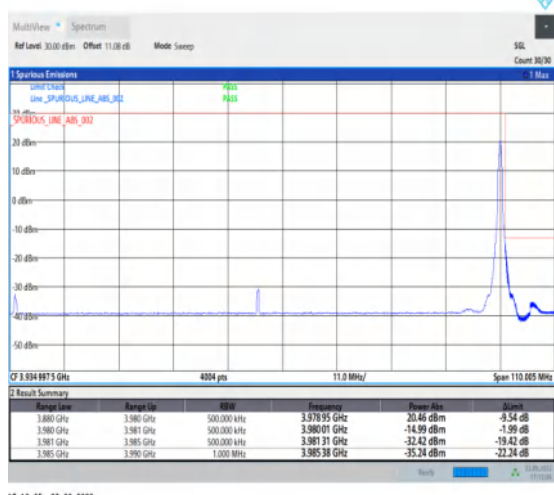
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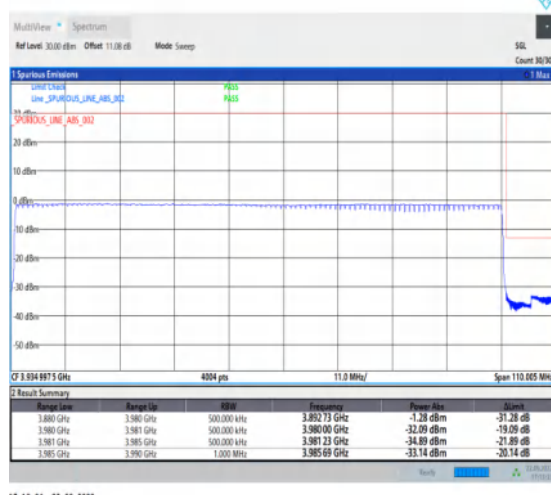
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1-N77-3700-3980-PC2-30-100-H-5-CP-QPSK-Edge\_1  
RB\_Right-1@272-Ant1-1--PASS-see graph



17:13:34 22-09-2022

1-N77-3700-3980-PC2-30-100-H-6-CP-QPSK-Out  
er\_Full-273@0-Ant1-1--PASS-see graph



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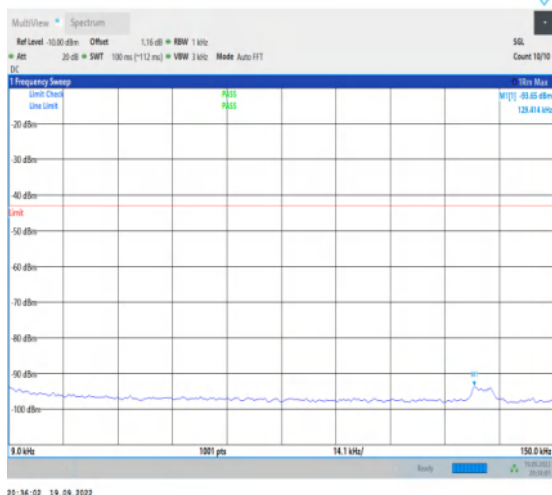
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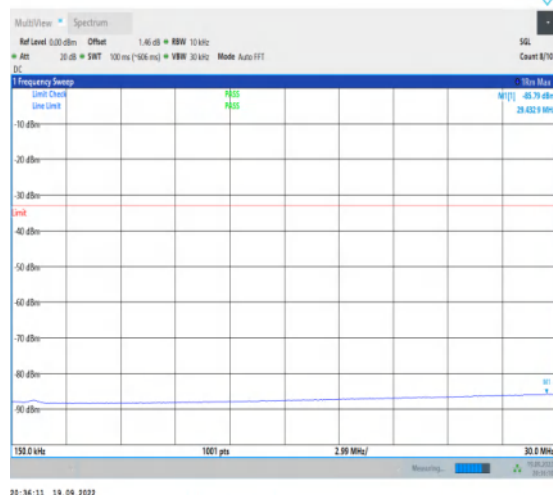
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### Conducted Spurious Emission for SA

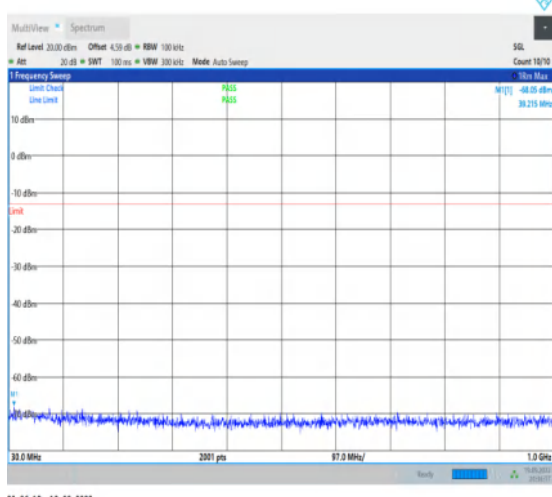
#### Test Graphs



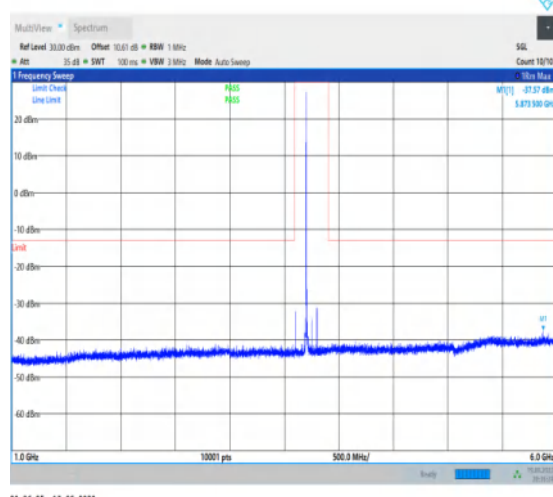
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1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant1-39.22--68.05--13-PAS  
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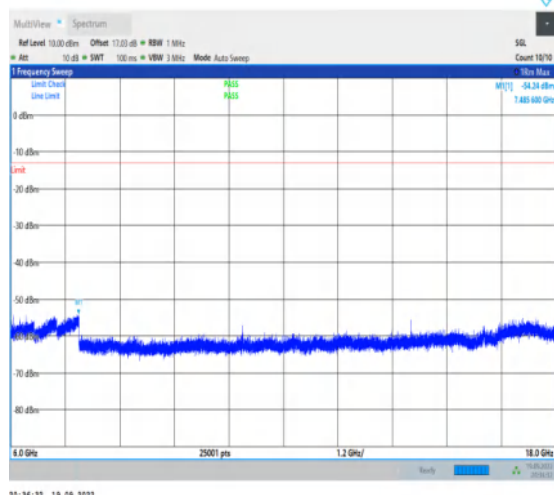


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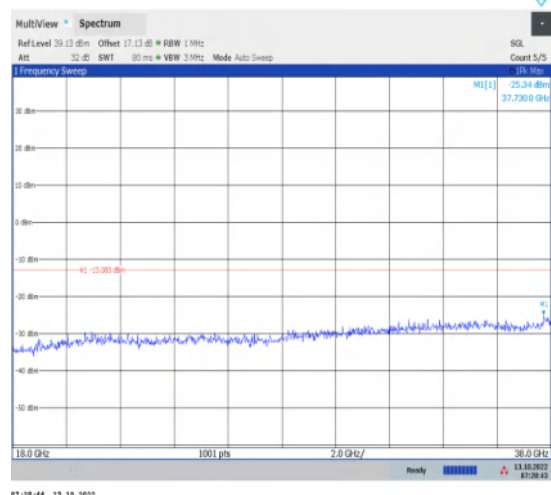
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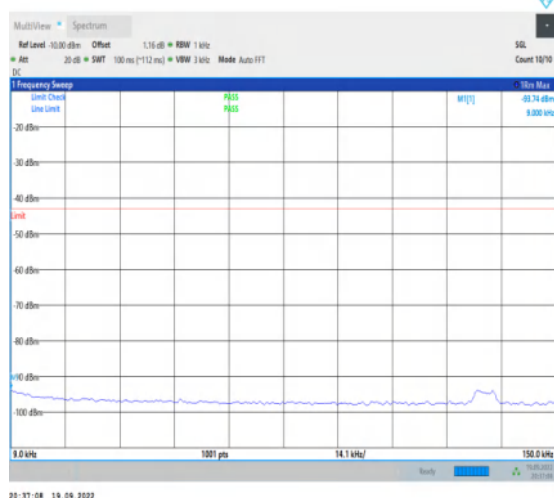
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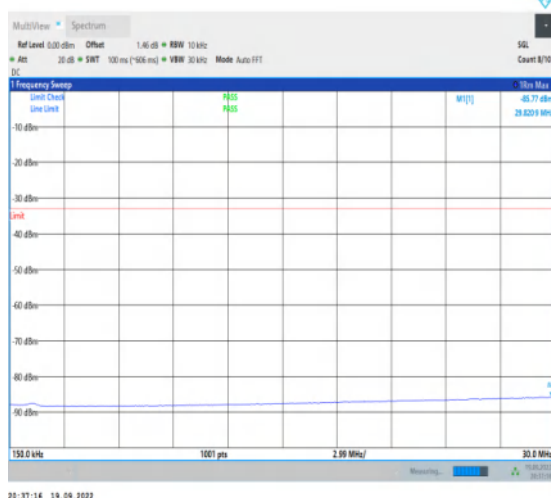
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1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant1-18000.00--56.64--13-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.01--93.74--43-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1-29.82--85.77--33-PASS



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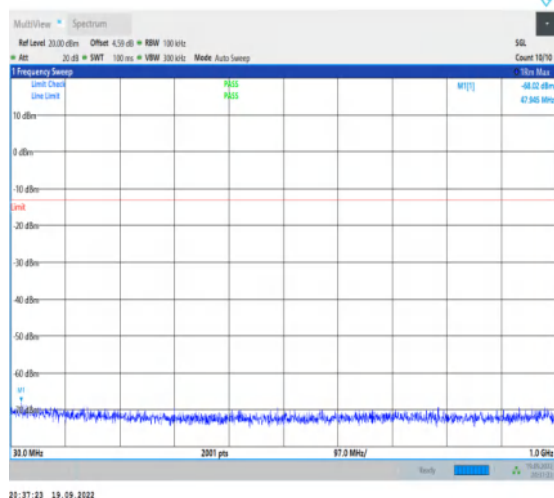
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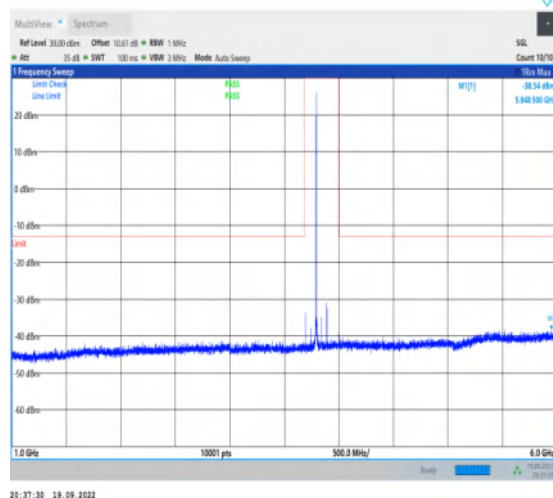
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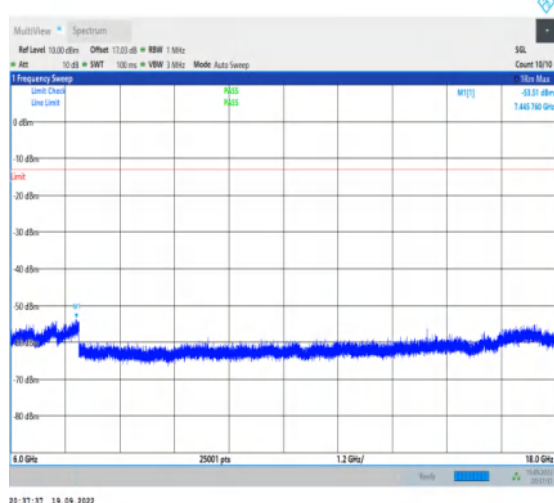
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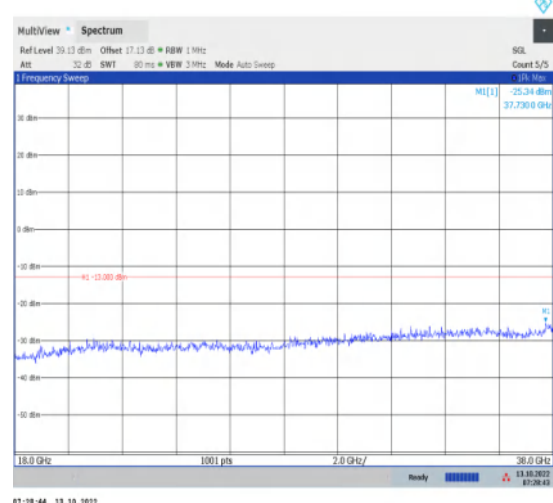
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1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant1-7445.76--53.51--13-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant1-18000.00--56.96--13-PASS



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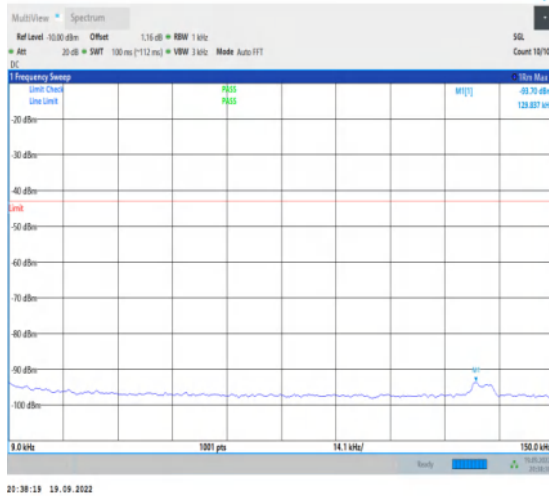
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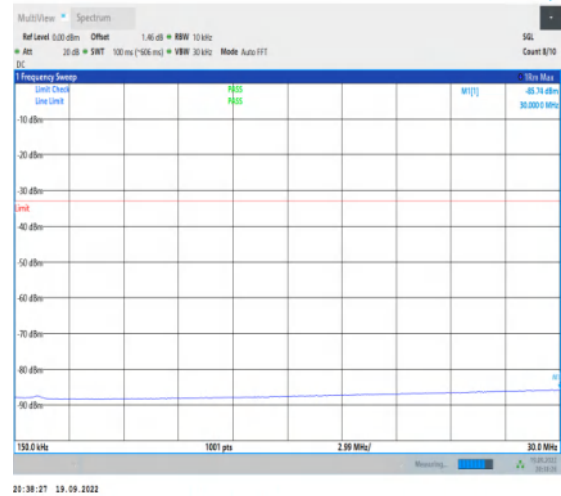
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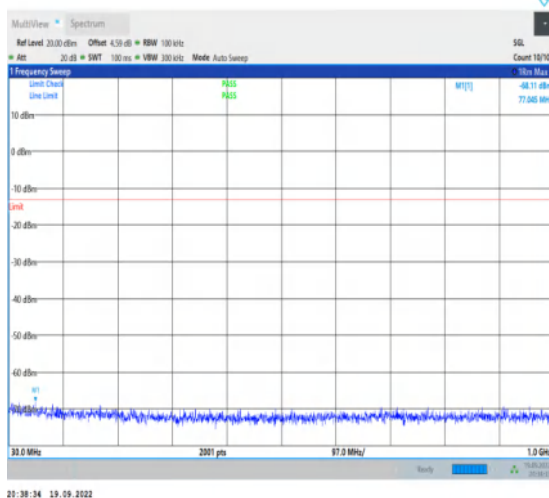




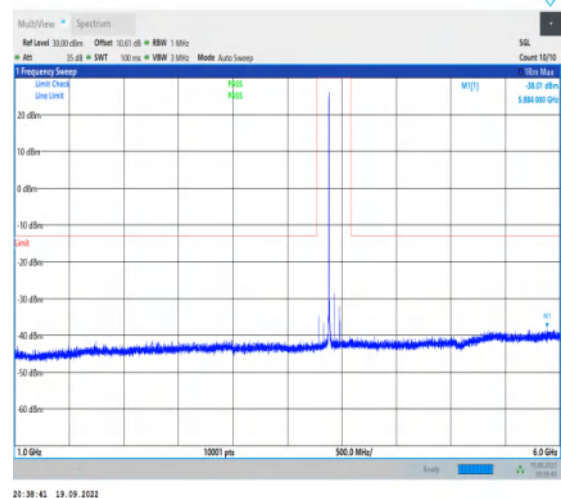
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1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant1-77.05--68.11--13-PA SS



1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant1-5884.00--38.01--13-PASS



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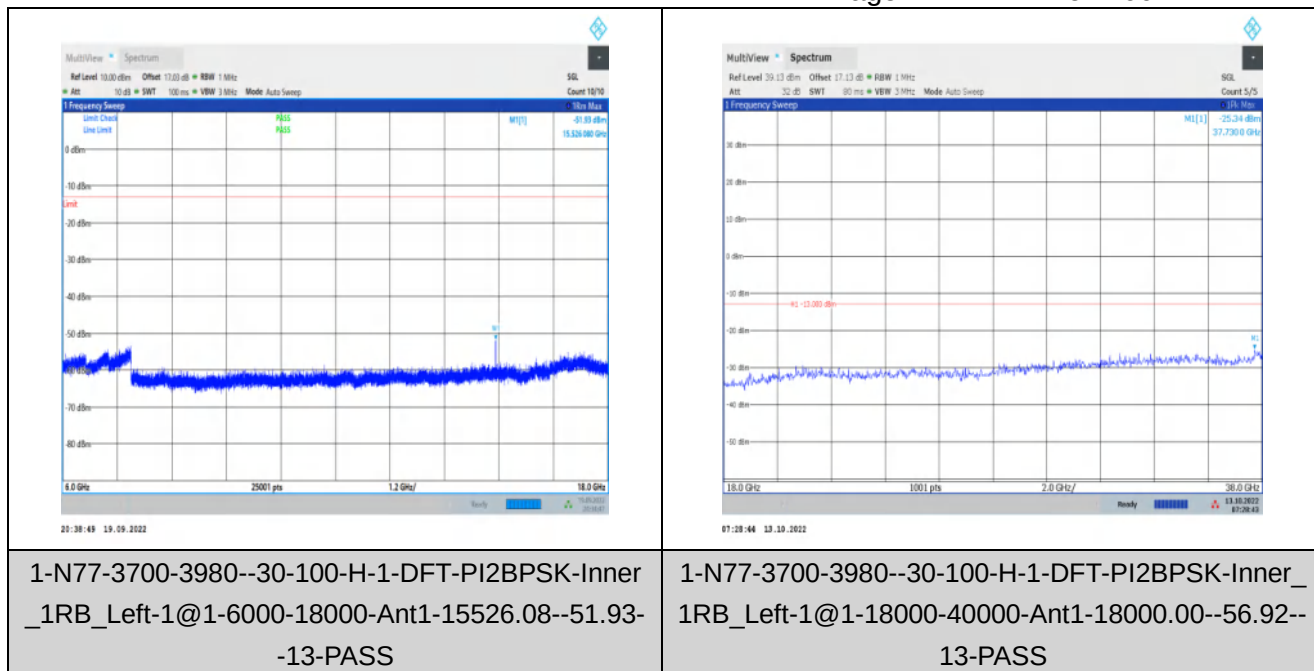
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1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner  
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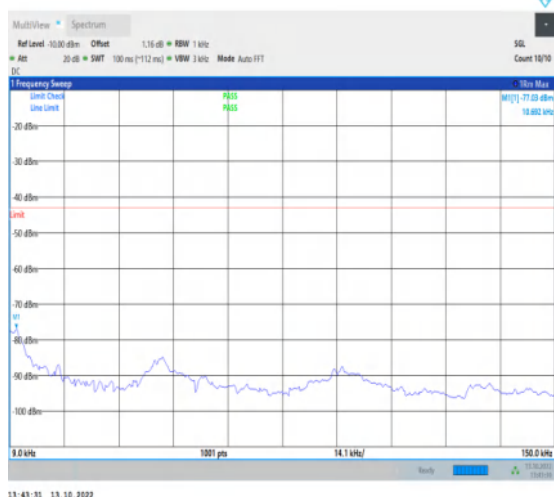
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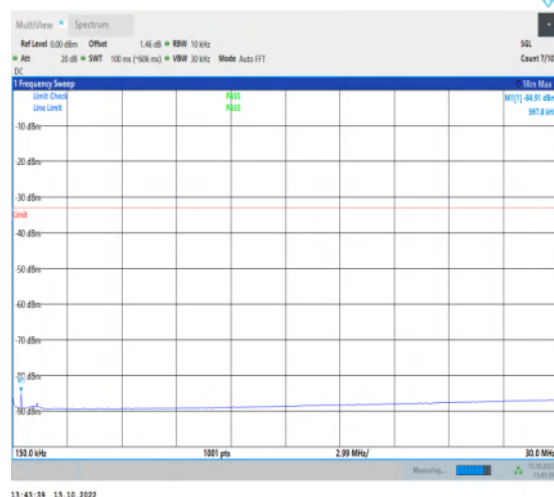
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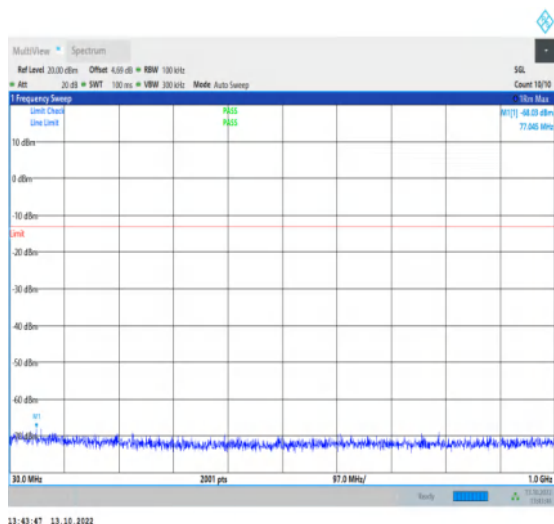
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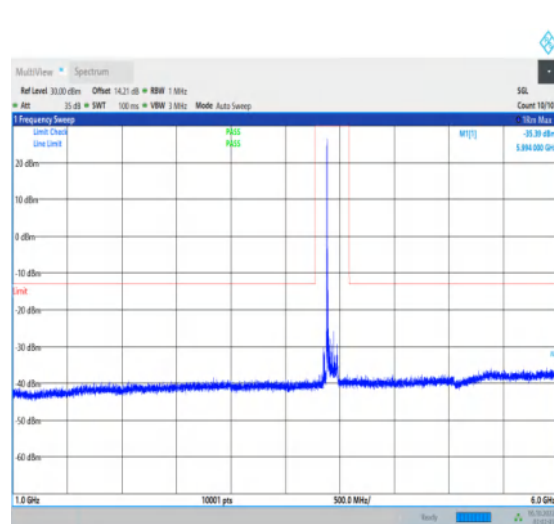
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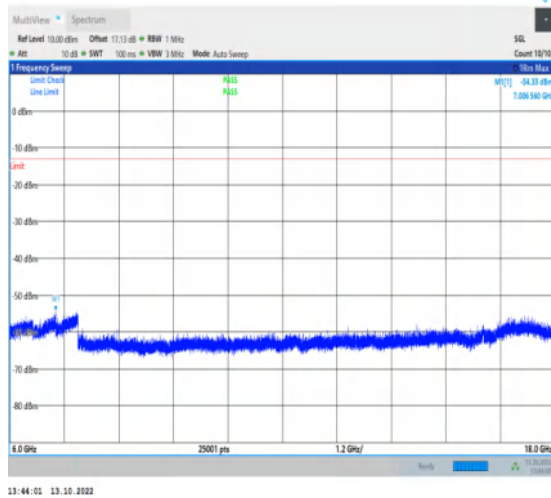
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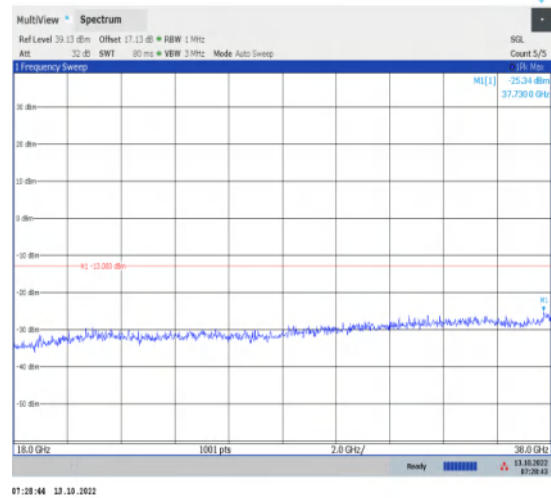
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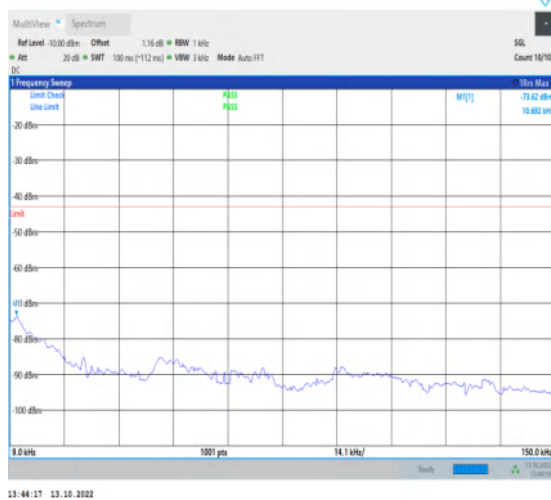
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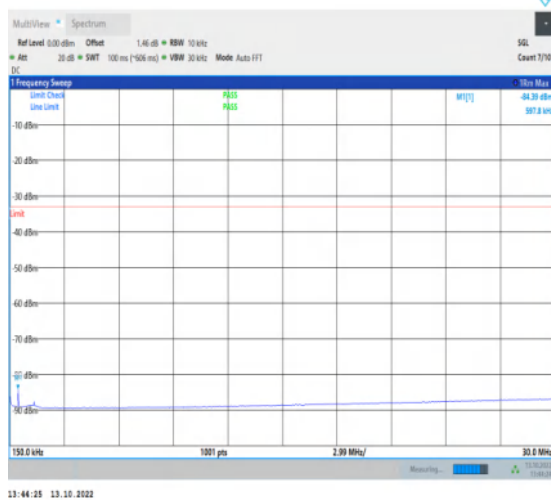
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1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.01--73.62--43-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1-0.60--84.39--33-PASS



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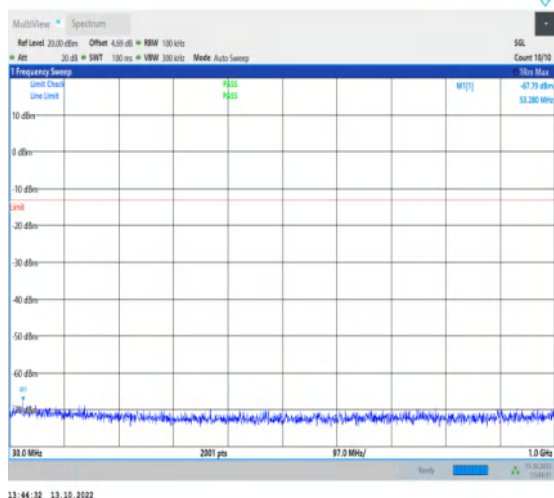
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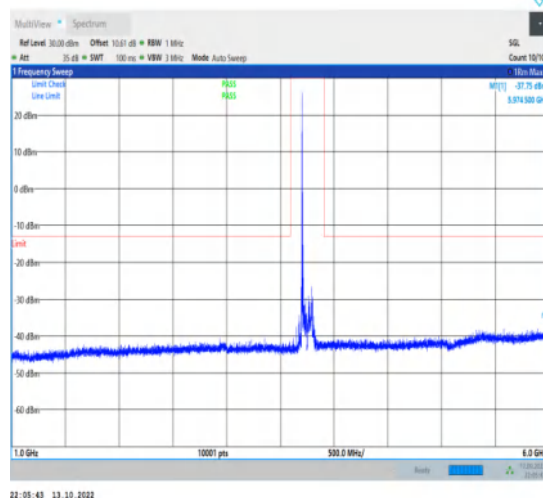
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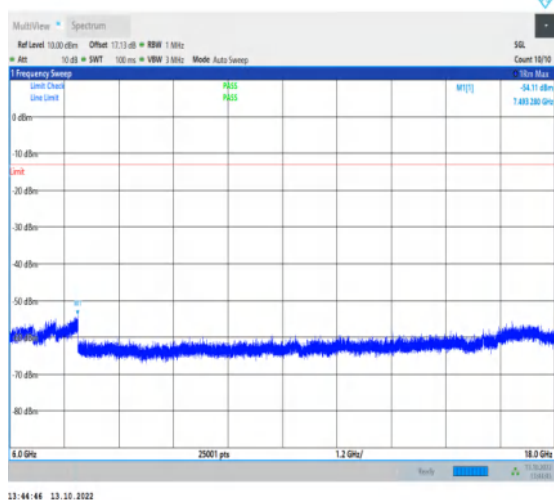
Page: 144 of 160



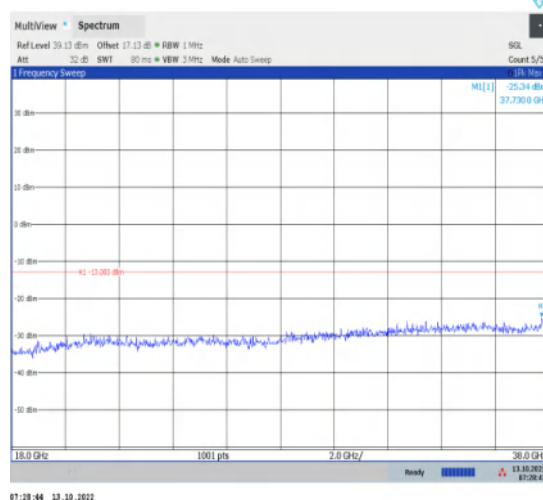
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SS



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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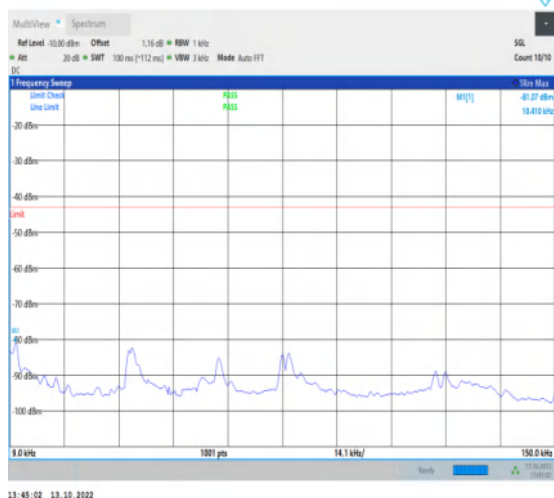
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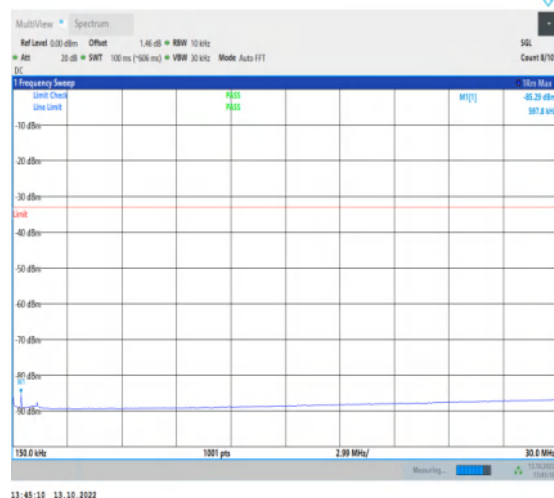
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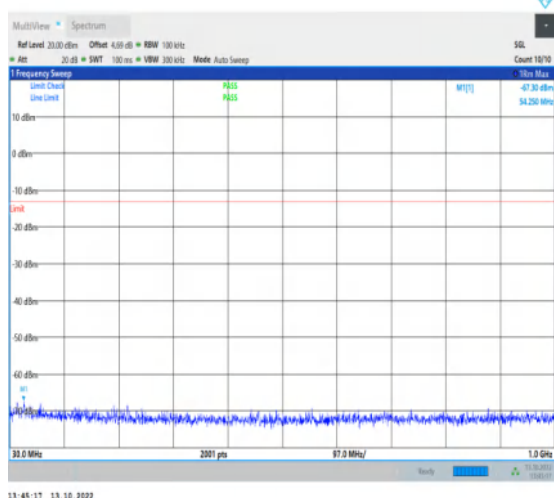
Page: 145 of 160



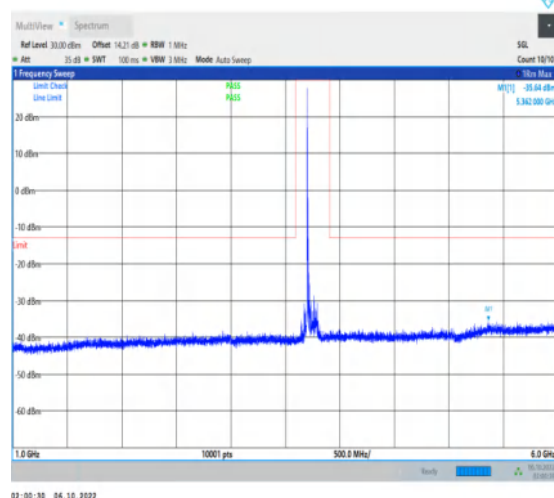
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1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1-0.60--85.29--33-PASS



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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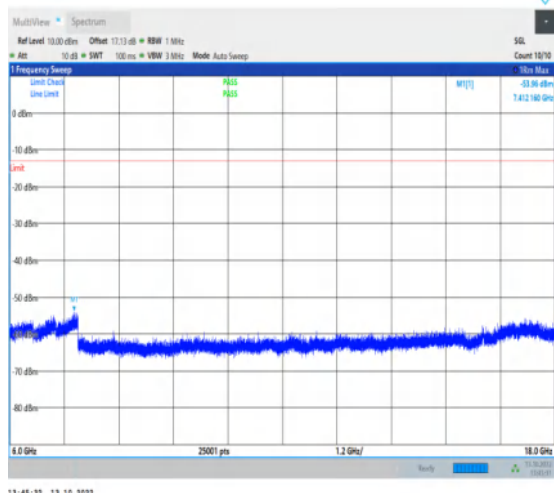
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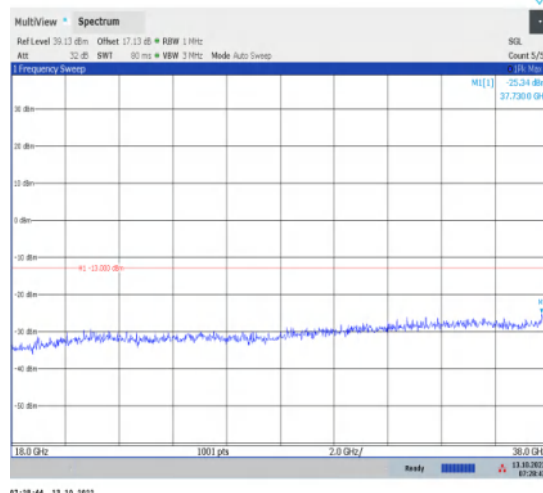
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1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant1-7412.16--53.96--13-PASS



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 = 5G NR SA Band77\_ TM1**

**Test Channel = Low 3700-3980 ANT4**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7310.1800       | 46.85          | -43.27      | 36.54    | -55.14      | -13.00      | 42.14       | 144         | 346       | Horizontal |
| 2               | 8495.25         | 48.00          | -41.78      | 37.53    | -51.51      | -13.00      | 38.51       | 175         | 5         | Horizontal |
| 3               | 9592.925        | 44.64          | -39.25      | 38.44    | -51.43      | -13.00      | 38.43       | 126         | 237       | Horizontal |
| 4               | 10965.2700      | 36.41          | -37.67      | 39.10    | -57.42      | -13.00      | 44.42       | 236         | 208       | Horizontal |
| 5               | 12829.6         | 37.14          | -36.69      | 39.66    | -55.15      | -13.00      | 42.15       | 215         | 132       | Horizontal |
| 6               | 14620.3600      | 33.69          | -35.23      | 39.91    | -56.89      | -13.00      | 43.89       | 173         | 13        | Horizontal |

**Test Band = 5G NR SA Band77\_ TM1**

**Test Channel = Low 3700-3980 ANT4**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7310.1800       | 45.72          | -43.27      | 36.54    | -56.27      | -13.00      | 43.27       | 165         | 147       | Vertical |
| 2               | 7779.375        | 50.07          | -42.66      | 36.74    | -51.11      | -13.00      | 38.11       | 142         | 300       | Vertical |
| 3               | 9591.775        | 44.08          | -39.26      | 38.44    | -52.00      | -13.00      | 39.00       | 188         | 221       | Vertical |
| 4               | 10965.2700      | 36.51          | -37.67      | 39.10    | -57.32      | -13.00      | 44.32       | 145         | 24        | Vertical |
| 5               | 12815.225       | 36.85          | -36.66      | 39.65    | -55.42      | -13.00      | 42.42       | 170         | 24        | Vertical |
| 6               | 14620.3600      | 33.75          | -35.23      | 39.91    | -56.83      | -13.00      | 43.83       | 193         | 300       | Vertical |



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**Test Band = 5G NR SA Band77\_ TM1**  
**Test Channel = Mid 3700-3980 ANT4**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7590.1800       | 46.78          | -42.78      | 36.39    | -54.87      | -13.00      | 41.87       | 261         | 176       | Horizontal |
| 2               | 8416.475        | 47.56          | -41.44      | 37.36    | -51.78      | -13.00      | 38.78       | 142         | 356       | Horizontal |
| 3               | 10096.05        | 41.27          | -38.73      | 38.64    | -54.07      | -13.00      | 41.07       | 130         | 5         | Horizontal |
| 4               | 11270.2         | 39.40          | -37.04      | 39.11    | -53.79      | -13.00      | 40.79       | 122         | 162       | Horizontal |
| 5               | 11835.2700      | 32.30          | -37.25      | 38.79    | -61.42      | -13.00      | 48.42       | 174         | 5         | Horizontal |
| 6               | 15180.3600      | 31.34          | -33.90      | 38.98    | -58.84      | -13.00      | 45.84       | 139         | 176       | Horizontal |

**Test Band = 5G NR SA Band77\_ TM1**  
**Test Channel = Mid 3700-3980 ANT4**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7590.1800       | 46.02          | -42.78      | 36.39    | -55.63      | -13.00      | 42.63       | 186         | 162       | Vertical |
| 2               | 8415.325        | 47.17          | -41.44      | 37.36    | -52.16      | -13.00      | 39.16       | 145         | 1         | Vertical |
| 3               | 9596.95         | 43.32          | -39.22      | 38.44    | -52.72      | -13.00      | 39.72       | 182         | 356       | Vertical |
| 4               | 11169           | 38.07          | -36.96      | 39.10    | -55.04      | -13.00      | 42.04       | 193         | 67        | Vertical |
| 5               | 11835.2700      | 32.81          | -37.25      | 38.79    | -60.91      | -13.00      | 47.91       | 130         | 145       | Vertical |
| 6               | 15180.3600      | 31.28          | -33.90      | 38.98    | -58.90      | -13.00      | 45.90       | 134         | 53        | Vertical |



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**Test Band = 5G NR SA Band77\_ TM1**  
**Test Channel = High 3700-3980 ANT4**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7069.825        | 49.40          | -43.46      | 36.26    | -53.06      | -13.00      | 40.06       | 268         | 207       | Horizontal |
| 2               | 7870.1800       | 45.86          | -42.69      | 36.86    | -55.23      | -13.00      | 42.23       | 145         | 1         | Horizontal |
| 3               | 9521.625        | 44.02          | -39.80      | 38.46    | -52.58      | -13.00      | 39.58       | 185         | 328       | Horizontal |
| 4               | 11805.2700      | 32.20          | -37.21      | 38.76    | -61.51      | -13.00      | 48.51       | 196         | 312       | Horizontal |
| 5               | 13769.15        | 36.14          | -36.17      | 39.99    | -55.30      | -13.00      | 42.30       | 142         | 328       | Horizontal |
| 6               | 15740.3600      | 32.55          | -33.18      | 38.27    | -57.62      | -13.00      | 44.62       | 103         | 344       | Horizontal |

**Test Band = 5G NR SA Band77\_ TM1**  
**Test Channel = High 3700-3980 ANT4**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7330.875        | 48.77          | -43.16      | 36.53    | -53.13      | -13.00      | 40.13       | 195         | 0         | Vertical |
| 2               | 7870.1800       | 45.45          | -42.69      | 36.86    | -55.64      | -13.00      | 42.64       | 142         | 328       | Vertical |
| 3               | 9613.625        | 43.23          | -39.24      | 38.43    | -52.84      | -13.00      | 39.84       | 136         | 251       | Vertical |
| 4               | 11805.2700      | 32.17          | -37.21      | 38.76    | -61.54      | -13.00      | 48.54       | 266         | 282       | Vertical |
| 5               | 13666.225       | 35.98          | -36.01      | 40.09    | -55.20      | -13.00      | 42.20       | 211         | 0         | Vertical |
| 6               | 15740.3600      | 31.27          | -33.18      | 38.27    | -58.90      | -13.00      | 45.90       | 185         | 145       | Vertical |



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**Test Band = 5G NR SA Band77\_ TM1**  
**Test Channel = Low 3700-3980 ANT6**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7310.1800       | 46.18          | -43.27      | 36.54    | -55.81      | -13.00      | 42.81       | 256         | 1         | Horizontal |
| 2               | 8358.4          | 46.54          | -41.58      | 37.28    | -53.02      | -13.00      | 40.02       | 144         | 23        | Horizontal |
| 3               | 9067.375        | 44.43          | -40.56      | 38.25    | -53.14      | -13.00      | 40.14       | 188         | 6         | Horizontal |
| 4               | 10264.525       | 41.01          | -39.08      | 38.83    | -54.50      | -13.00      | 41.50       | 195         | 0         | Horizontal |
| 5               | 10965.2700      | 35.37          | -37.67      | 39.10    | -58.46      | -13.00      | 45.46       | 147         | 254       | Horizontal |
| 6               | 14620.3600      | 33.28          | -35.23      | 39.91    | -57.30      | -13.00      | 44.30       | 170         | 6         | Horizontal |

**Test Band = 5G NR SA Band77\_ TM1**  
**Test Channel = Low 3700-3980 ANT6**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7310.1800       | 46.05          | -43.27      | 36.54    | -55.94      | -13.00      | 42.94       | 255         | 0         | Vertical |
| 2               | 8410.725        | 47.01          | -41.42      | 37.35    | -52.31      | -13.00      | 39.31       | 146         | 146       | Vertical |
| 3               | 9061.625        | 44.09          | -40.59      | 38.24    | -53.51      | -13.00      | 40.51       | 258         | 13        | Vertical |
| 4               | 9531.4          | 43.78          | -39.72      | 38.46    | -52.74      | -13.00      | 39.74       | 259         | 163       | Vertical |
| 5               | 10965.2700      | 36.06          | -37.67      | 39.10    | -57.77      | -13.00      | 44.77       | 291         | 85        | Vertical |
| 6               | 14620.3600      | 33.66          | -35.23      | 39.91    | -56.92      | -13.00      | 43.92       | 145         | 25        | Vertical |



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**Test Band = 5G NR SA Band77\_ TM1**

**Test Channel = Mid 3700-3980 ANT6**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7590.1800       | 46.25          | -42.78      | 36.39    | -55.40      | -13.00      | 42.40       | 245         | 98        | Horizontal |
| 2               | 8375.65         | 45.84          | -41.49      | 37.30    | -53.61      | -13.00      | 40.61       | 146         | 160       | Horizontal |
| 3               | 8961.575        | 45.66          | -40.89      | 38.18    | -52.31      | -13.00      | 39.31       | 291         | 160       | Horizontal |
| 4               | 11835.2700      | 33.76          | -37.25      | 38.79    | -59.96      | -13.00      | 46.96       | 178         | 0         | Horizontal |
| 5               | 13749.025       | 37.32          | -36.12      | 40.01    | -54.05      | -13.00      | 41.05       | 142         | 68        | Horizontal |
| 6               | 15180.3600      | 32.32          | -33.90      | 38.98    | -57.86      | -13.00      | 44.86       | 133         | 68        | Horizontal |

**Test Band = 5G NR SA Band77\_ TM1**

**Test Channel = Mid 3700-3980 ANT6**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7590.1800       | 45.91          | -42.78      | 36.39    | -55.74      | -13.00      | 42.74       | 254         | 25        | Vertical |
| 2               | 8532.625        | 47.31          | -41.50      | 37.61    | -51.84      | -13.00      | 38.84       | 198         | 301       | Vertical |
| 3               | 9573.95         | 43.22          | -39.40      | 38.45    | -52.99      | -13.00      | 39.99       | 174         | 242       | Vertical |
| 4               | 11835.2700      | 33.59          | -37.25      | 38.79    | -60.13      | -13.00      | 47.13       | 124         | 235       | Vertical |
| 5               | 13452.325       | 35.85          | -36.37      | 40.15    | -55.63      | -13.00      | 42.63       | 135         | 145       | Vertical |
| 6               | 15180.3600      | 33.76          | -33.90      | 38.98    | -56.42      | -13.00      | 43.42       | 261         | 102       | Vertical |



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**Test Band = 5G NR SA Band77\_ TM1**  
**Test Channel = High 3700-3980 ANT6**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7870.1800       | 45.07          | -42.69      | 36.86    | -56.02      | -13.00      | 43.02       | 245         | 12        | Horizontal |
| 2               | 8675.8          | 45.94          | -41.23      | 37.88    | -52.68      | -13.00      | 39.68       | 168         | 267       | Horizontal |
| 3               | 9058.175        | 44.68          | -40.60      | 38.24    | -52.94      | -13.00      | 39.94       | 152         | 53        | Horizontal |
| 4               | 10963.725       | 39.73          | -37.67      | 39.10    | -54.10      | -13.00      | 41.10       | 142         | 1         | Horizontal |
| 5               | 11805.2700      | 33.89          | -37.21      | 38.76    | -59.82      | -13.00      | 46.82       | 155         | 0         | Horizontal |
| 6               | 15740.3600      | 30.11          | -33.18      | 38.27    | -60.06      | -13.00      | 47.06       | 195         | 86        | Horizontal |

**Test Band = 5G NR SA Band77\_ TM1**  
**Test Channel = High 3700-3980 ANT6**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7870.1800       | 44.94          | -42.69      | 36.86    | -56.15      | -13.00      | 43.15       | 287         | 224       | Vertical |
| 2               | 8410.15         | 46.56          | -41.41      | 37.35    | -52.76      | -13.00      | 39.76       | 149         | 356       | Vertical |
| 3               | 8689.6          | 45.67          | -41.29      | 37.90    | -52.99      | -13.00      | 39.99       | 245         | 1         | Vertical |
| 4               | 9559            | 44.31          | -39.51      | 38.45    | -52.01      | -13.00      | 39.01       | 166         | 0         | Vertical |
| 5               | 11805.2700      | 34.17          | -37.21      | 38.76    | -59.54      | -13.00      | 46.54       | 215         | 330       | Vertical |
| 6               | 15740.3600      | 31.50          | -33.18      | 38.27    | -58.67      | -13.00      | 45.67       | 134         | 101       | Vertical |



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**Test Band = UL MIMO N77\_ TM1**

**Test Channel = Low 3700-3980**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 6810.1800       | 47.10          | -43.61      | 35.85    | -55.92      | -13.00      | 42.92       | 269         | 69        | Horizontal |
| 2               | 8422.8          | 44.49          | -41.47      | 37.38    | -54.86      | -13.00      | 41.86       | 158         | 175       | Horizontal |
| 3               | 8963.875        | 41.69          | -40.88      | 38.18    | -56.28      | -13.00      | 43.28       | 149         | 330       | Horizontal |
| 4               | 10215.2700      | 31.47          | -39.23      | 38.81    | -64.21      | -13.00      | 51.21       | 126         | 344       | Horizontal |
| 5               | 13620.3600      | 28.72          | -36.03      | 40.13    | -62.44      | -13.00      | 49.44       | 153         | 100       | Horizontal |
| 6               | 17025.4500      | 30.06          | -33.71      | 38.51    | -60.40      | -13.00      | 47.40       | 175         | 0         | Horizontal |

**Test Band = UL MIMO N77\_ TM1**

**Test Channel = Low 3700-3980**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 6810.1800       | 45.79          | -43.61      | 35.85    | -57.23      | -13.00      | 44.23       | 258         | 300       | Vertical |
| 2               | 8421.075        | 45.50          | -41.46      | 37.37    | -53.85      | -13.00      | 40.85       | 145         | 269       | Vertical |
| 3               | 8931.1          | 43.59          | -40.90      | 38.16    | -54.41      | -13.00      | 41.41       | 126         | 1         | Vertical |
| 4               | 10215.2700      | 33.34          | -39.23      | 38.81    | -62.34      | -13.00      | 49.34       | 292         | 0         | Vertical |
| 5               | 13620.3600      | 28.52          | -36.03      | 40.13    | -62.64      | -13.00      | 49.64       | 111         | 1         | Vertical |
| 6               | 17025.4500      | 30.86          | -33.71      | 38.51    | -59.60      | -13.00      | 46.60       | 160         | 132       | Vertical |



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**Test Band = UL MIMO N77\_ TM1**

**Test Channel = Mid 3700-3980**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 6910.1800       | 47.55          | -43.80      | 35.97    | -55.54      | -13.00      | 42.54       | 255         | 2         | Horizontal |
| 2               | 8403.25         | 43.71          | -41.38      | 37.34    | -55.60      | -13.00      | 42.60       | 142         | 25        | Horizontal |
| 3               | 9531.4          | 39.87          | -39.72      | 38.46    | -56.65      | -13.00      | 43.65       | 162         | 13        | Horizontal |
| 4               | 10365.2700      | 32.00          | -38.81      | 38.85    | -63.21      | -13.00      | 50.21       | 159         | 6         | Horizontal |
| 5               | 13820.3600      | 29.79          | -36.11      | 39.98    | -61.60      | -13.00      | 48.60       | 145         | 0         | Horizontal |
| 6               | 17275.4500      | 32.20          | -35.16      | 38.70    | -59.51      | -13.00      | 46.51       | 176         | 344       | Horizontal |

**Test Band = UL MIMO N77\_ TM1**

**Test Channel = Mid 3700-3980**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 6910.1800       | 45.82          | -43.80      | 35.97    | -57.27      | -13.00      | 44.27       | 215         | 225       | Vertical |
| 2               | 8415.9          | 44.77          | -41.44      | 37.36    | -54.56      | -13.00      | 41.56       | 145         | 14        | Vertical |
| 3               | 9419.275        | 40.39          | -39.93      | 38.49    | -56.31      | -13.00      | 43.31       | 222         | 0         | Vertical |
| 4               | 10365.2700      | 32.17          | -38.81      | 38.85    | -63.04      | -13.00      | 50.04       | 261         | 148       | Vertical |
| 5               | 13820.3600      | 29.40          | -36.11      | 39.98    | -61.99      | -13.00      | 48.99       | 199         | 117       | Vertical |
| 6               | 17275.4500      | 31.46          | -35.16      | 38.70    | -60.25      | -13.00      | 47.25       | 154         | 25        | Vertical |



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**Test Band = UL MIMO N77\_ TM1**

**Test Channel = High 3700-3980**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7010.1800       | 45.49          | -43.06      | 36.11    | -56.72      | -13.00      | 43.72       | 285         | 132       | Horizontal |
| 2               | 8411.3          | 44.54          | -41.42      | 37.35    | -54.78      | -13.00      | 41.78       | 142         | 23        | Horizontal |
| 3               | 9437.1          | 40.86          | -39.93      | 38.48    | -55.85      | -13.00      | 42.85       | 136         | 132       | Horizontal |
| 4               | 10515.2700      | 31.45          | -38.64      | 38.98    | -63.48      | -13.00      | 50.48       | 266         | 208       | Horizontal |
| 5               | 14020.3600      | 27.23          | -35.04      | 40.15    | -62.92      | -13.00      | 49.92       | 154         | 163       | Horizontal |
| 6               | 17525.4500      | 31.01          | -33.81      | 39.28    | -58.78      | -13.00      | 45.78       | 196         | 301       | Horizontal |

**Test Band = UL MIMO N77\_ TM1**

**Test Channel = High 3700-3980**

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7010.1800       | 45.65          | -43.06      | 36.11    | -56.56      | -13.00      | 43.56       | 256         | 12        | Vertical |
| 2               | 8438.325        | 43.78          | -41.53      | 37.41    | -55.60      | -13.00      | 42.60       | 142         | 1         | Vertical |
| 3               | 9448.025        | 40.24          | -39.94      | 38.48    | -56.48      | -13.00      | 43.48       | 133         | 300       | Vertical |
| 4               | 10515.2700      | 32.47          | -38.64      | 38.98    | -62.46      | -13.00      | 49.46       | 199         | 357       | Vertical |
| 5               | 14020.3600      | 27.55          | -35.04      | 40.15    | -62.60      | -13.00      | 49.60       | 176         | 98        | Vertical |
| 6               | 17525.4500      | 28.81          | -33.81      | 39.28    | -60.98      | -13.00      | 47.98       | 142         | 38        | Vertical |



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**Test Band = 5G NR NSA 41A-N77A\_TM1**  
**Test Channel = Low 3700-3980 WORSE**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7310.1800       | 44.98          | -43.27      | 36.54    | -57.01      | -13.00      | 44.01       | 296         | 210       | Horizontal |
| 2               | 8404.4          | 45.01          | -41.39      | 37.34    | -54.30      | -13.00      | 41.30       | 145         | 72        | Horizontal |
| 3               | 9487.125        | 41.61          | -39.95      | 38.47    | -55.14      | -13.00      | 42.14       | 126         | 13        | Horizontal |
| 4               | 10965.2700      | 30.59          | -37.67      | 39.10    | -63.24      | -13.00      | 50.24       | 266         | 286       | Horizontal |
| 5               | 12048.75        | 35.37          | -37.18      | 39.01    | -58.07      | -13.00      | 45.07       | 154         | 177       | Horizontal |
| 6               | 14620.3600      | 29.68          | -35.23      | 39.91    | -60.90      | -13.00      | 47.90       | 175         | 132       | 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               | 7310.1800       | 44.49          | -43.27      | 36.54    | -57.50      | -13.00      | 44.50       | 299         | 150       | Vertical |
| 2               | 8411.3          | 45.19          | -41.42      | 37.35    | -54.13      | -13.00      | 41.13       | 254         | 73        | Vertical |
| 3               | 10021.875       | 38.06          | -39.23      | 38.53    | -57.91      | -13.00      | 44.91       | 126         | 59        | Vertical |
| 4               | 10965.2700      | 30.35          | -37.67      | 39.10    | -63.48      | -13.00      | 50.48       | 142         | 104       | Vertical |
| 5               | 12880.775       | 34.08          | -36.82      | 39.71    | -58.29      | -13.00      | 45.29       | 132         | 242       | Vertical |
| 6               | 14620.3600      | 29.49          | -35.23      | 39.91    | -61.09      | -13.00      | 48.09       | 133         | 87        | Vertical |



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Test Band = 5G NR NSA 41A-N77A\_TM1

Test Channel = Mid 3700-3980 WORSE

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7590.1800       | 44.56          | -42.78      | 36.39    | -57.09      | -13.00      | 44.09       | 255         | 288       | Horizontal |
| 2               | 8412.45         | 44.95          | -41.42      | 37.36    | -54.38      | -13.00      | 41.38       | 142         | 242       | Horizontal |
| 3               | 9569.925        | 41.11          | -39.43      | 38.45    | -55.13      | -13.00      | 42.13       | 163         | 332       | Horizontal |
| 4               | 11835.2700      | 29.67          | -37.25      | 38.79    | -64.05      | -13.00      | 51.05       | 266         | 302       | Horizontal |
| 5               | 13867.475       | 34.16          | -35.79      | 40.02    | -56.87      | -13.00      | 43.87       | 291         | 358       | Horizontal |
| 6               | 15180.3600      | 30.60          | -33.90      | 38.98    | -59.58      | -13.00      | 46.58       | 145         | 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               | 7590.1800       | 44.75          | -42.78      | 36.39    | -56.90      | -13.00      | 43.90       | 288         | 193       | Vertical |
| 2               | 8404.4          | 45.24          | -41.39      | 37.34    | -54.07      | -13.00      | 41.07       | 149         | 2         | Vertical |
| 3               | 9451.475        | 42.55          | -39.94      | 38.48    | -54.17      | -13.00      | 41.17       | 174         | 0         | Vertical |
| 4               | 11835.2700      | 29.84          | -37.25      | 38.79    | -63.88      | -13.00      | 50.88       | 152         | 282       | Vertical |
| 5               | 13653           | 32.81          | -36.01      | 40.10    | -58.36      | -13.00      | 45.36       | 136         | 224       | Vertical |
| 6               | 15180.3600      | 29.88          | -33.90      | 38.98    | -60.30      | -13.00      | 47.30       | 261         | 55        | Vertical |



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**Test Band = 5G NR NSA 41A-N77A\_TM1**

**Test Channel = High 3700-3980 WORSE**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7870.1800       | 42.87          | -42.69      | 36.86    | -58.22      | -13.00      | 45.22       | 245         | 15        | Horizontal |
| 2               | 8406.7          | 45.15          | -41.40      | 37.34    | -54.16      | -13.00      | 41.16       | 126         | 150       | Horizontal |
| 3               | 9481.375        | 41.42          | -39.95      | 38.47    | -55.32      | -13.00      | 42.32       | 266         | 316       | Horizontal |
| 4               | 11805.2700      | 28.77          | -37.21      | 38.76    | -64.94      | -13.00      | 51.94       | 215         | 1         | Horizontal |
| 5               | 13738.1         | 33.51          | -36.09      | 40.02    | -57.82      | -13.00      | 44.82       | 196         | 15        | Horizontal |
| 6               | 15740.3600      | 29.64          | -33.18      | 38.27    | -60.53      | -13.00      | 47.53       | 145         | 59        | 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               | 7870.1800       | 44.01          | -42.69      | 36.86    | -57.08      | -13.00      | 44.08       | 152         | 73        | Vertical |
| 2               | 8430.275        | 45.55          | -41.50      | 37.39    | -53.82      | -13.00      | 40.82       | 142         | 225       | Vertical |
| 3               | 10044.875       | 37.66          | -39.07      | 38.56    | -58.11      | -13.00      | 45.11       | 166         | 25        | Vertical |
| 4               | 11805.2700      | 30.44          | -37.21      | 38.76    | -63.27      | -13.00      | 50.27       | 299         | 133       | Vertical |
| 5               | 13859.425       | 32.77          | -35.85      | 40.01    | -58.32      | -13.00      | 45.32       | 215         | 266       | Vertical |
| 6               | 15740.3600      | 29.02          | -33.18      | 38.27    | -61.15      | -13.00      | 48.15       | 174         | 316       | 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

| Temperature   |     |           |             |         |            |         |             |               |                 |         |
|---------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| 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    |

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