

Report No.: SUZR/2022/1002202

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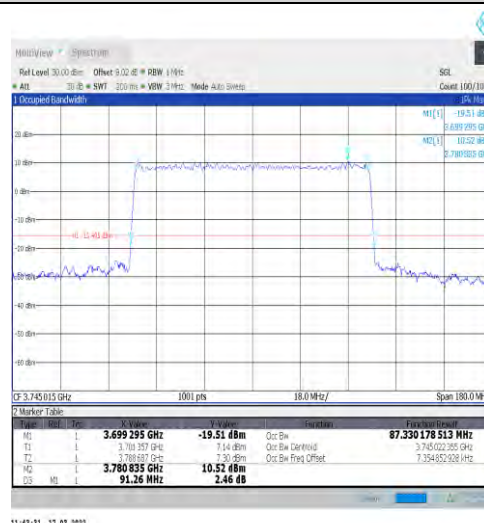
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1-N77-3700-3980-30-90-L-9-CP-256QAM-Outer_Full-245@0-Ant1-87.33-91.260-≤90-PASS



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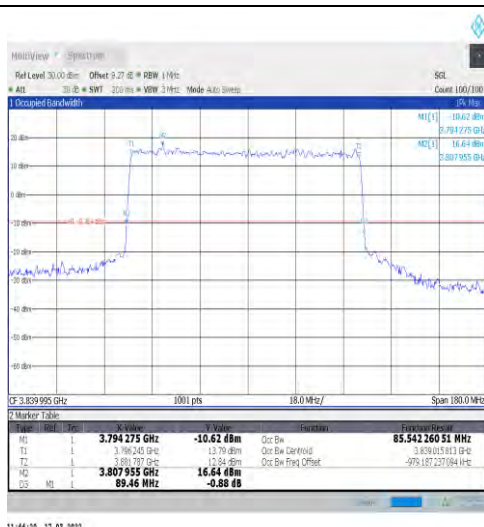
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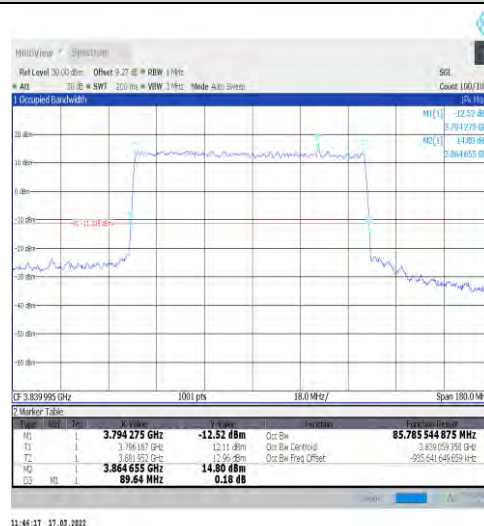
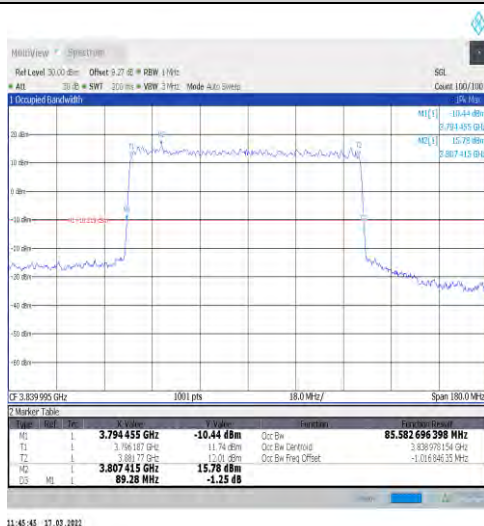
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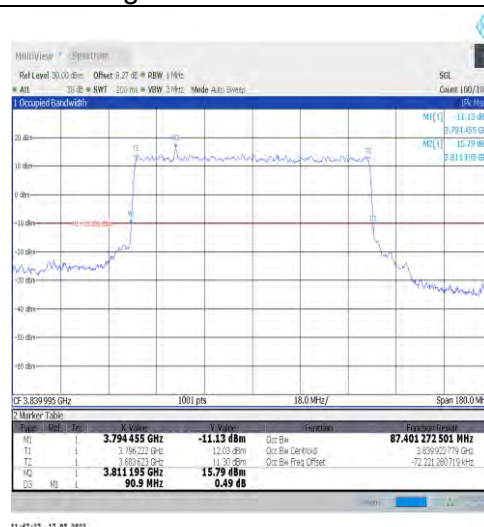
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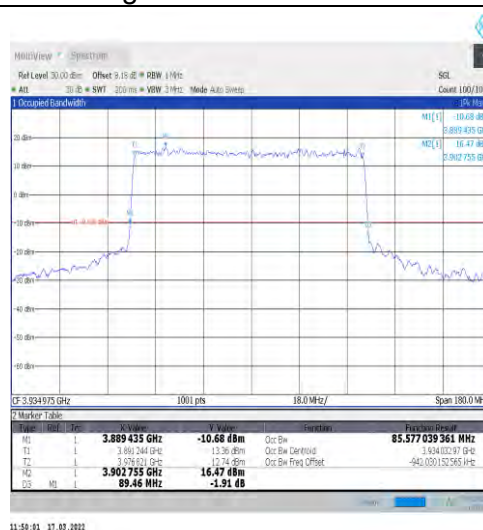
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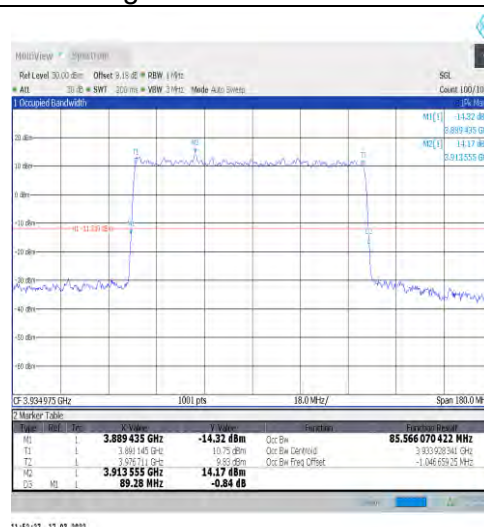
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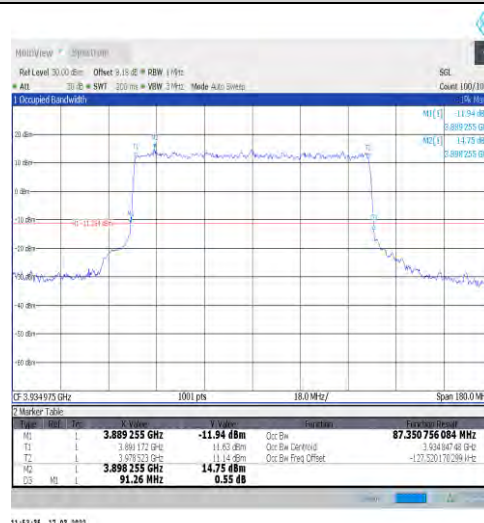
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1-N77-3700-3980-30-90-H-7-CP-16QAM-Outer_Full-245@0-Ant1-87.351-91.260-≤90-PASS



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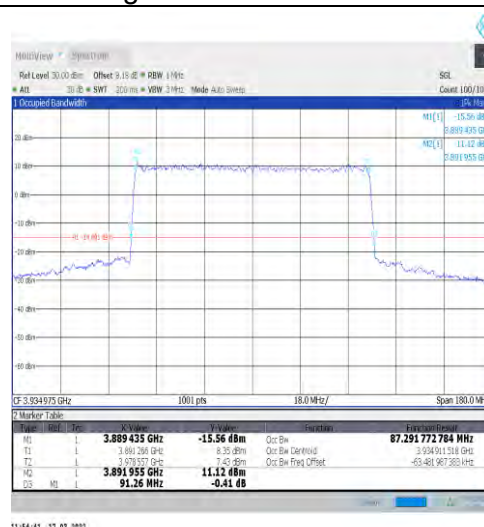
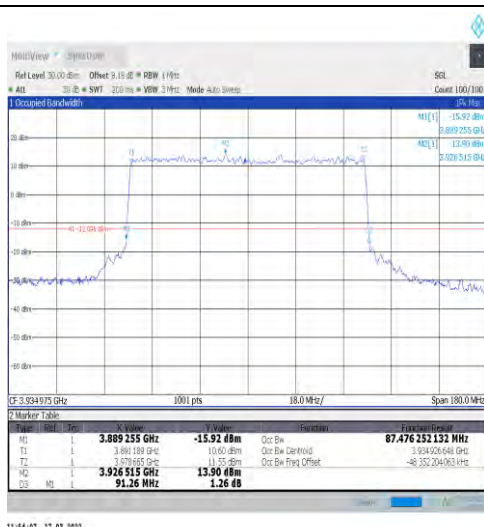
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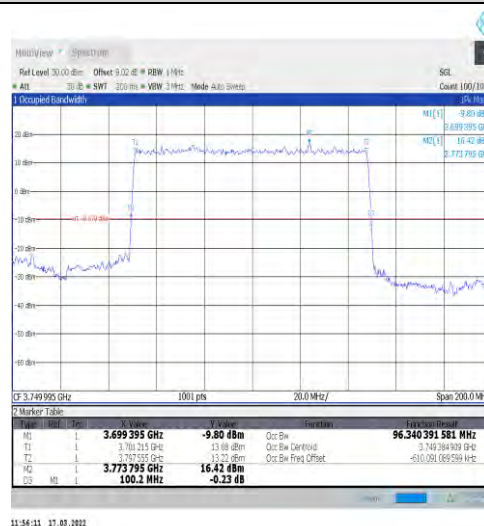
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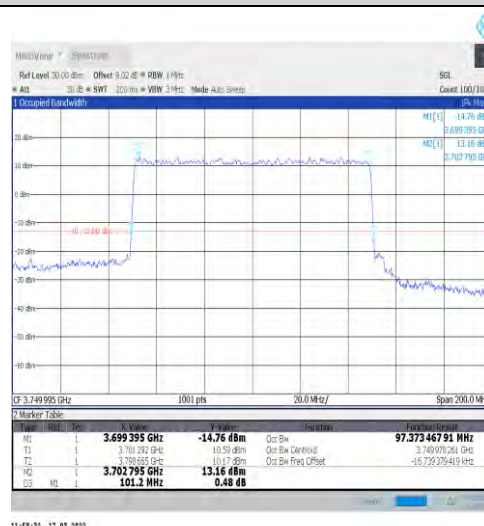
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273@0-Ant1-97.373-101.200-≤100-PASS



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11:59:14 17.03.2022

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12:00:59 17.03.2022

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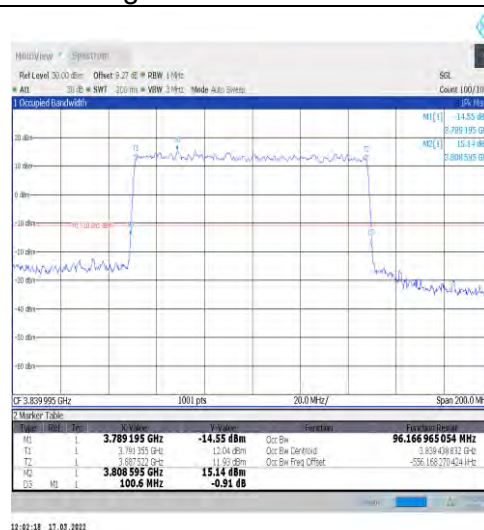
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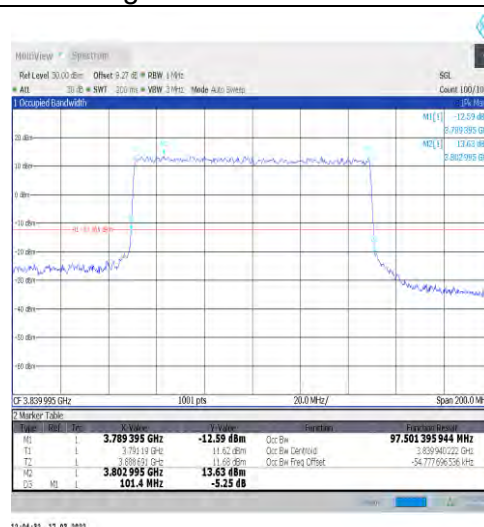
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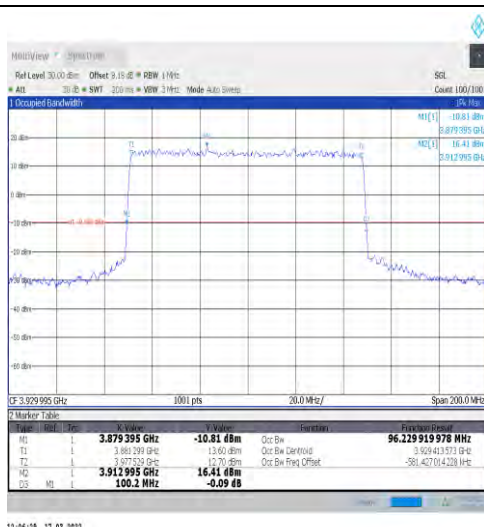
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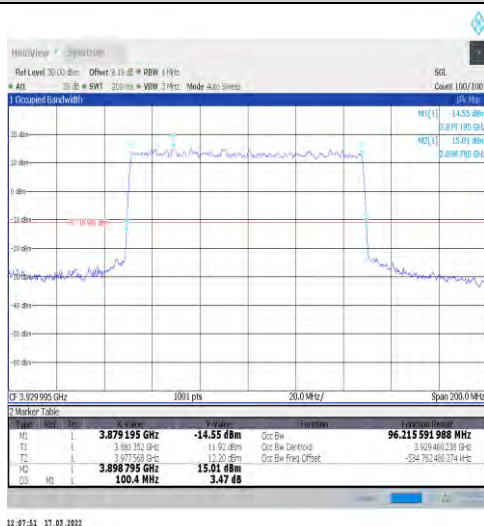
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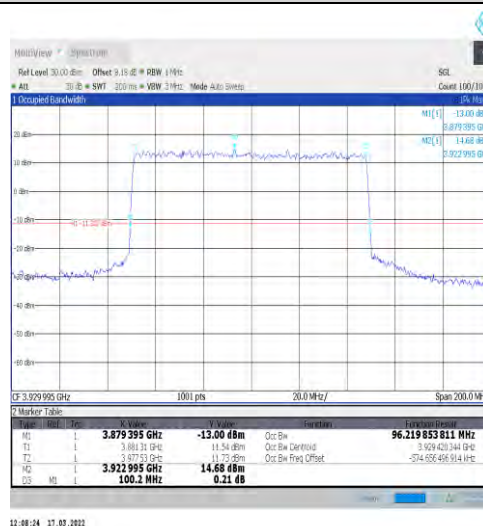
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12-07-14 17:03:2022

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12-08-24 17:03:2022

1-N77-3700-3980-30-100-H-4-DFT-64QAM-Outer_Full
-270@0-Ant1-96.22-100.200-≤100-PASS



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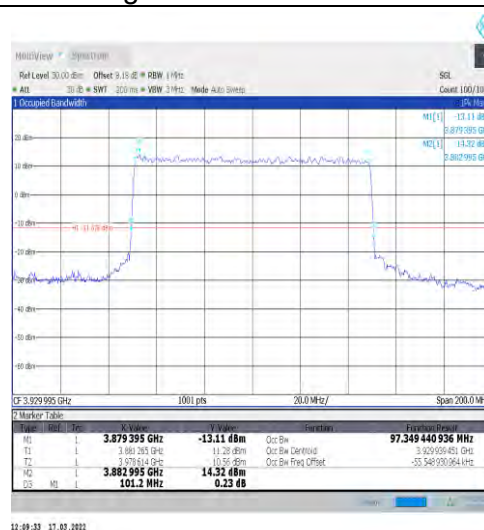
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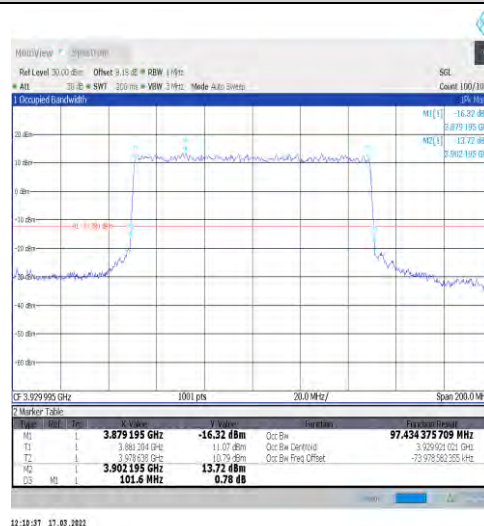
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1-N77-3700-3980-30-100-H-5-DFT-256QAM-Outer_Full-270@0-Ant1-96.439-100.400-≤100-PASS

1-N77-3700-3980-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-97.349-101.200-≤100-PASS



1-N77-3700-3980-30-100-H-7-CP-16QAM-Outer_Ful I-273@0-Ant1-97.502-101.400-≤100-PASS

1-N77-3700-3980-30-100-H-8-CP-64QAM-Outer_Ful I-273@0-Ant1-97.434-101.600-≤100-PASS



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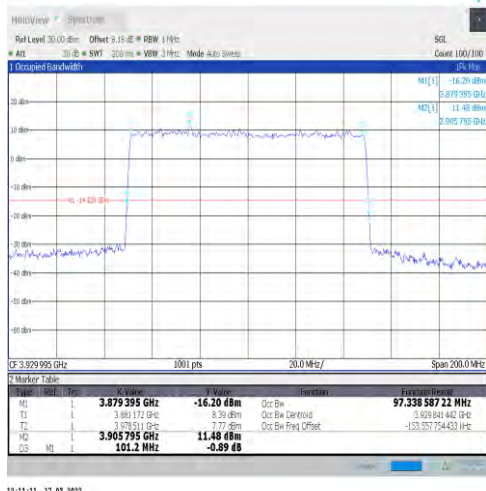
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1-N77-3700-3980-30-100-H-9-CP-256QAM-Outer_F
ull-273@0-Ant1-97.339-101.200-≤100-PASS



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Band Edge for SA

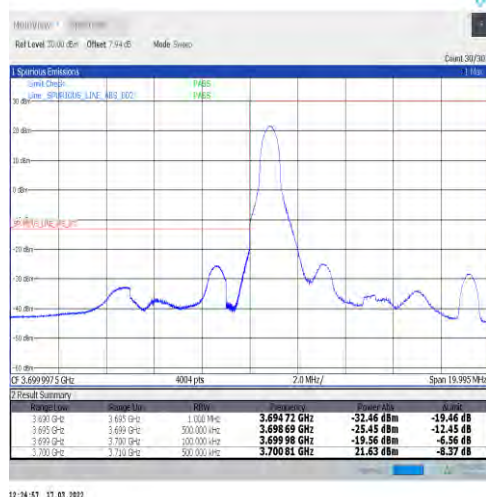
Test Graphs



1-N77-3700-3980-30-10-L-1-DFT-PI2BPSK-Edge_1RB
_Left-1@0-Ant1-PASS-see graph



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



1-N77-3700-3980-30-10-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-PASS-see graph



1-N77-3700-3980-30-10-L-6-CP-QPSK-Outer_Full
-24@0-Ant1-PASS-see graph



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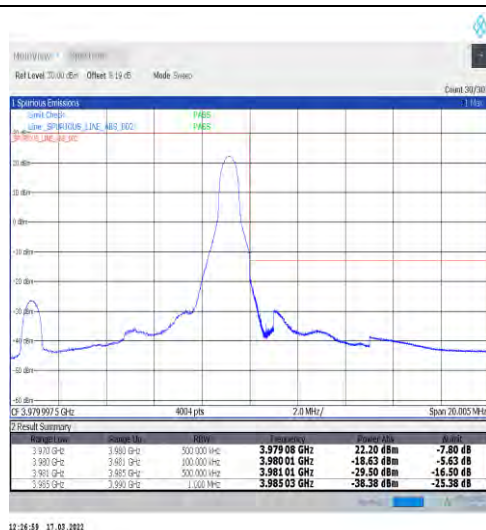
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12:26:59 17.03.2022

1-N77-3700-3980-30-10-H-2-DFT-PI2BPSK-Edge_1R
B_Right-1@23-Ant1-PASS-see graph



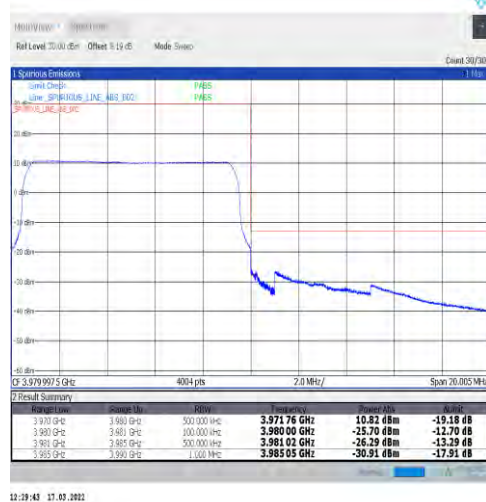
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1-N77-3700-3980-30-10-H-3-DFT-PI2BPSK-Outer
_Full-24@0-Ant1-PASS-see graph



12:28:49 17.03.2022

1-N77-3700-3980-30-10-H-5-CP-QPSK-Edge_1RB_Ri
ght-1@23-Ant1-PASS-see graph



12:29:43 17.03.2022

1-N77-3700-3980-30-10-H-6-CP-QPSK-Outer_Full
-24@0-Ant1-PASS-see graph



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12:38:54 17.03.2022

1-N77-3700-3980-30-15-L-1-DFT-PI2BPSK-Edge_1RB
_Left-1@0-Ant1-PASS-see graph



12:31:47 17.03.2022

1-N77-3700-3980-30-15-L-3-DFT-PI2BPSK-Outer
_Full-36@0-Ant1-PASS-see graph



14:28:38 17.03.2022

1-N77-3700-3980-30-15-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-PASS-see graph



12:33:37 17.03.2022

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



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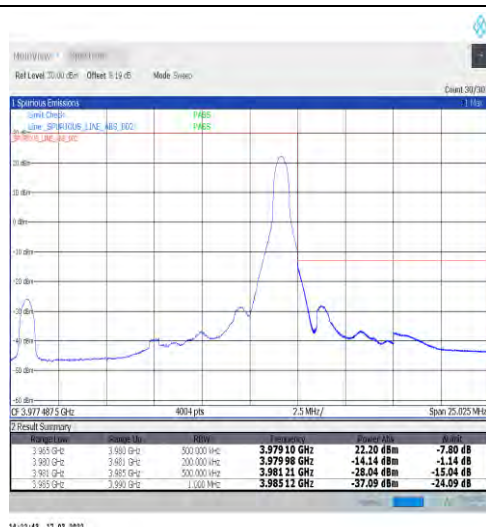
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14:22:45 17.03.2022



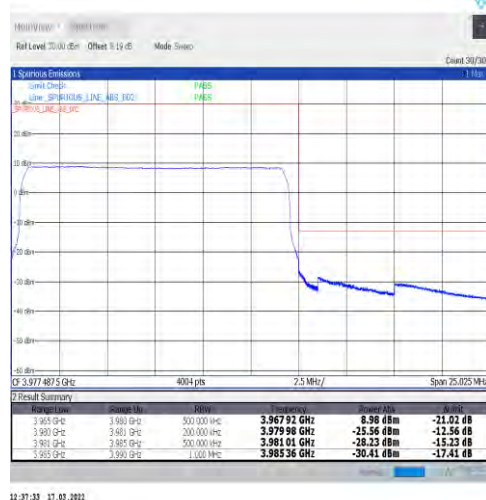
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B_Right-1@37-Ant1-PASS-see graph

1-N77-3700-3980-30-15-H-3-DFT-PI2BPSK-Outer
_Full-36@0-Ant1-PASS-see graph



12:36:39 17.03.2022



12:37:33 17.03.2022

1-N77-3700-3980-30-15-H-5-CP-QPSK-Edge_1RB_Ri
ght-1@37-Ant1-PASS-see graph

1-N77-3700-3980-30-15-H-6-CP-QPSK-Outer_Full
-38@0-Ant1-PASS-see graph



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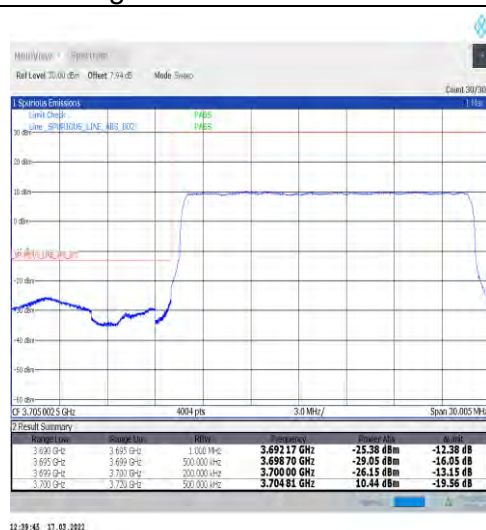
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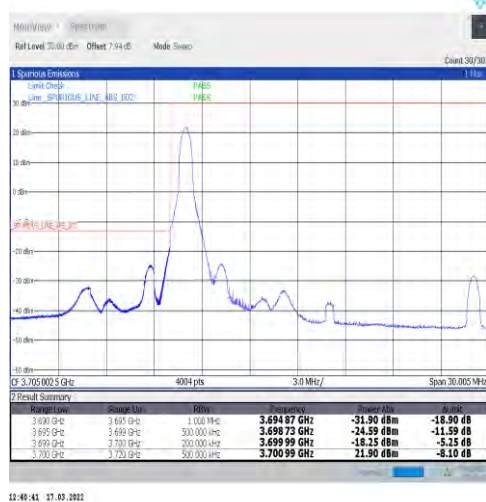
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1-N77-3700-3980-30-20-L-1-DFT-PI2BPSK-Edge_1RB
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12:39:45 17.03.2022

1-N77-3700-3980-30-20-L-3-DFT-PI2BPSK-Outer
_Full-50@0-Ant1-PASS-see graph



12:40:14 17.03.2022

1-N77-3700-3980-30-20-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-PASS-see graph



12:41:35 17.03.2022

1-N77-3700-3980-30-20-L-6-CP-QPSK-Outer_Full
-51@0-Ant1-PASS-see graph



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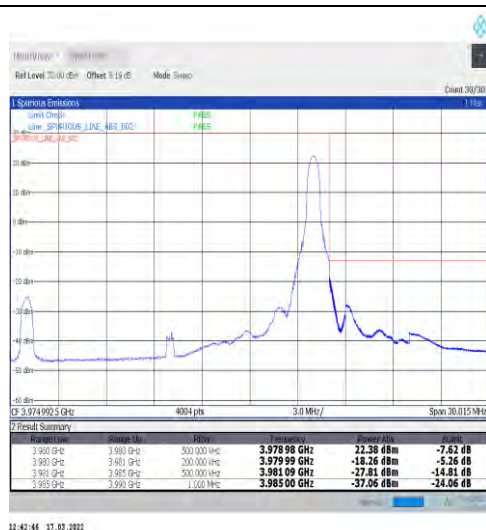
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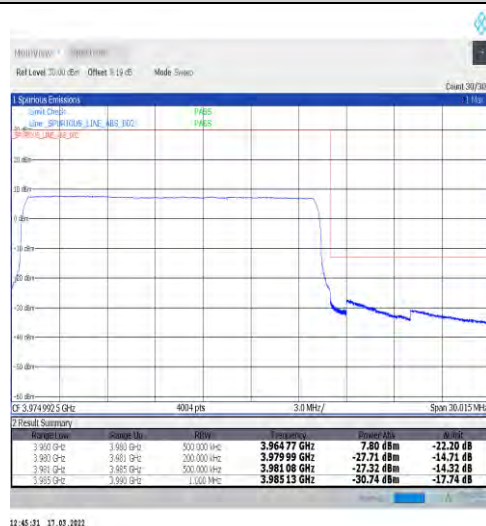
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1-N77-3700-3980-30-20-H-2-DFT-PI2BPSK-Edge_1R
B_Right-1@50-Ant1-PASS-see graph

1-N77-3700-3980-30-20-H-3-DFT-PI2BPSK-Outer
_Full-50@0-Ant1-PASS-see graph



12:44:37 17.03.2022



12:45:31 17.03.2022

1-N77-3700-3980-30-20-H-5-CP-QPSK-Edge_1RB_Ri
ght-1@50-Ant1-PASS-see graph

1-N77-3700-3980-30-20-H-6-CP-QPSK-Outer_Full
-51@0-Ant1-PASS-see graph



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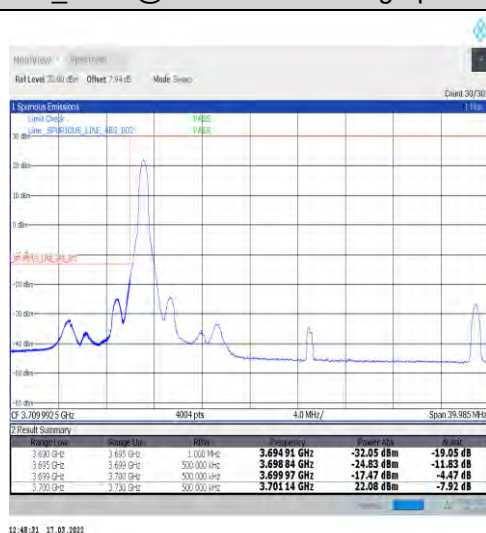
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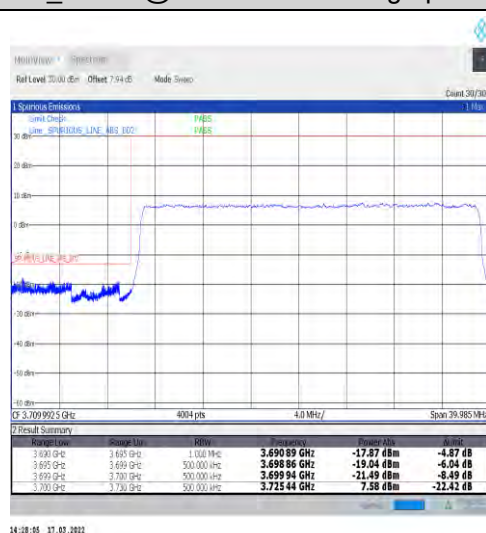
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12:48:31 17.03.2022

1-N77-3700-3980-30-30-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-PASS-see graph



14:08:06 17.03.2022

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



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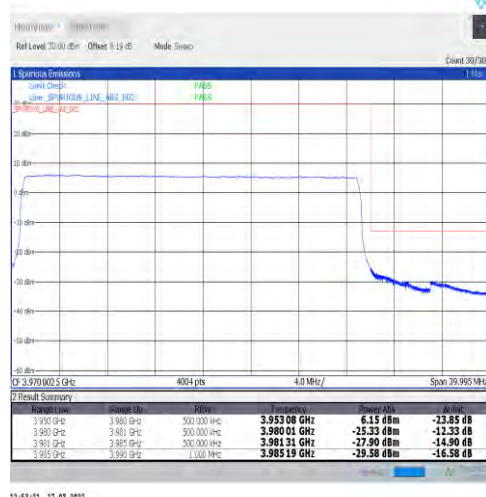
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1-N77-3700-3980-30-30-H-2-DFT-PI2BPSK-Edge_1R
B_Right-1@77-Ant1-PASS-see graph

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



1-N77-3700-3980-30-30-H-5-CP-QPSK-Edge_1RB_Ri
ght-1@77-Ant1-PASS-see graph

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



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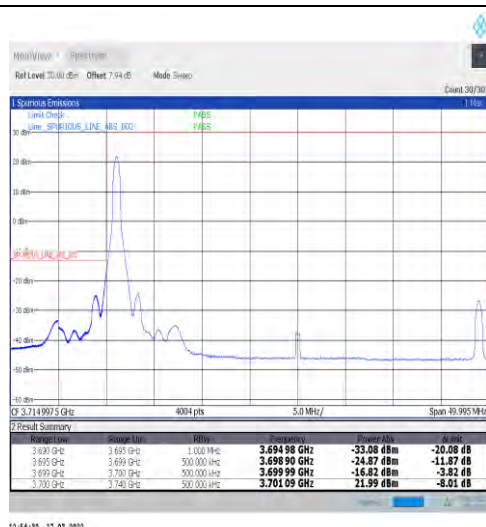
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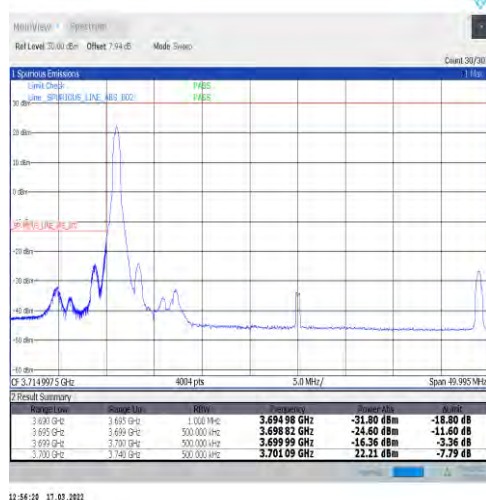
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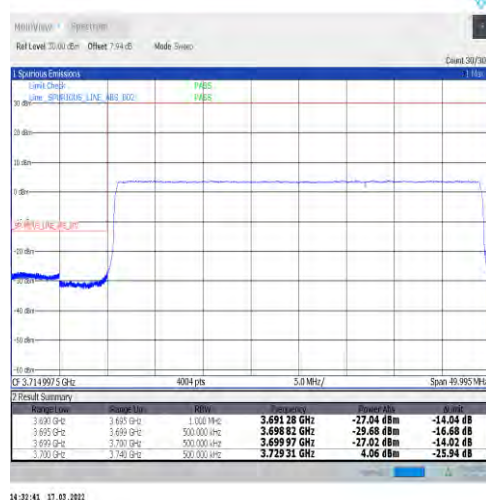
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_Full-100@0-Ant1-PASS-see graph



12:56:10 17.03.2022

1-N77-3700-3980-30-40-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-PASS-see graph



14:32:41 17.03.2022

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



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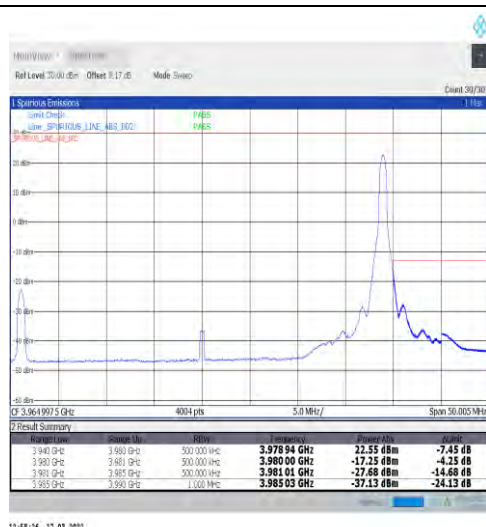
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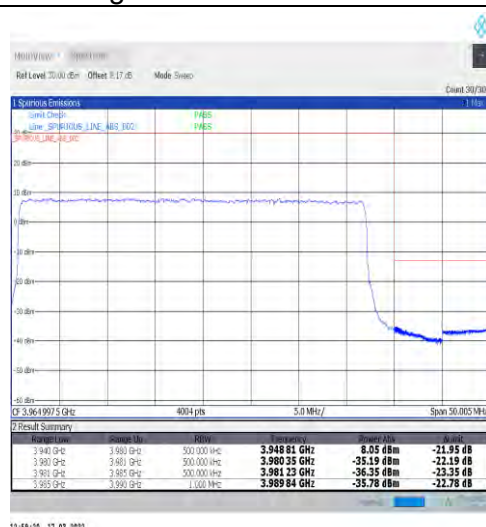
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12:58:16 17.03.2022

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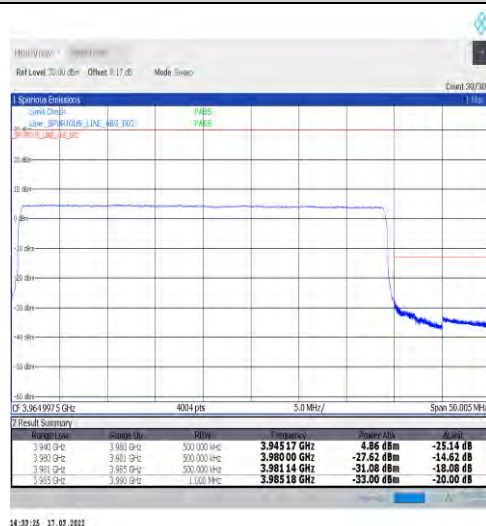
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1-N77-3700-3980-30-40-H-3-DFT-PI2BPSK-Outer
_Full-100@0-Ant1-PASS-see graph



13:08:17 17.03.2022

1-N77-3700-3980-30-40-H-5-CP-QPSK-Edge_1RB_Ri
ght-1@105-Ant1-PASS-see graph



14:33:25 17.03.2022

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



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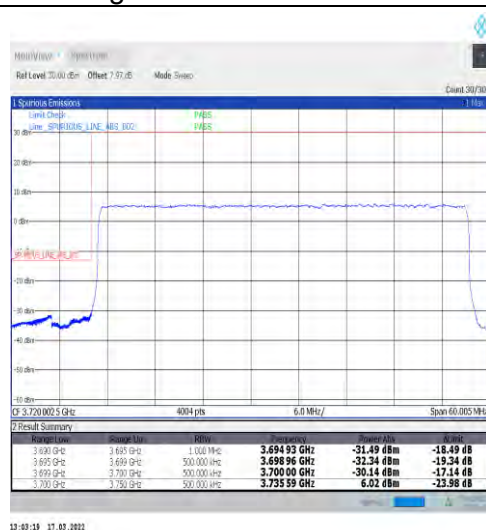
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1-N77-3700-3980-30-50-L-1-DFT-PI2BPSK-Edge_1RB
_Left-1@0-Ant1-PASS-see graph

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



1-N77-3700-3980-30-50-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-PASS-see graph

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



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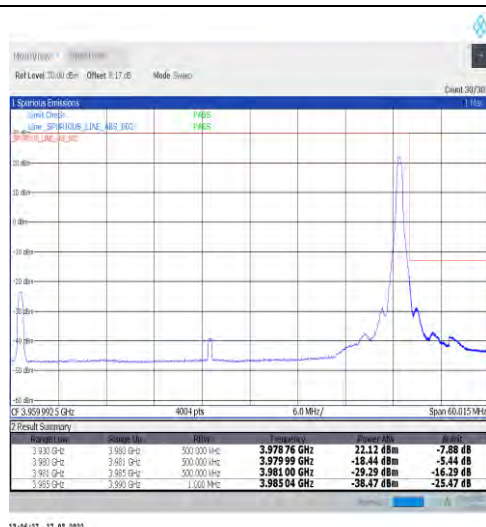
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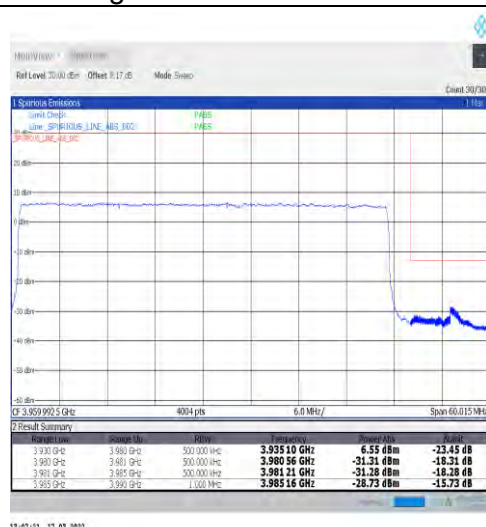
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13:06:27 17.03.2022

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13:07:11 17.03.2022

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13:08:18 17.03.2022

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



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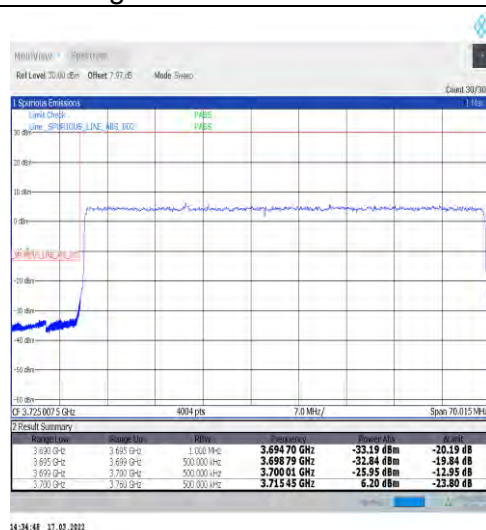
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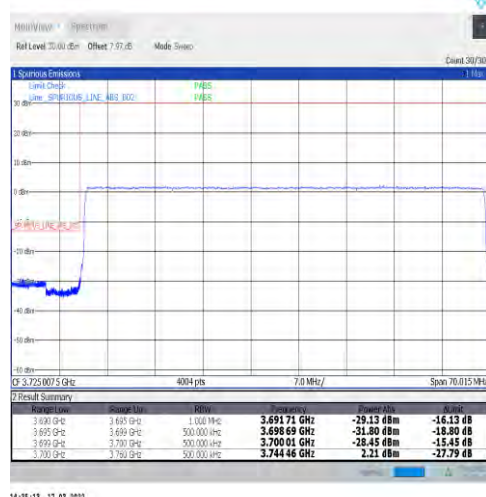
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1-N77-3700-3980-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

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



1-N77-3700-3980-30-60-L-4-CP-QPSK-Edge_1RB_Lef t-1@0-Ant1-PASS-see graph

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



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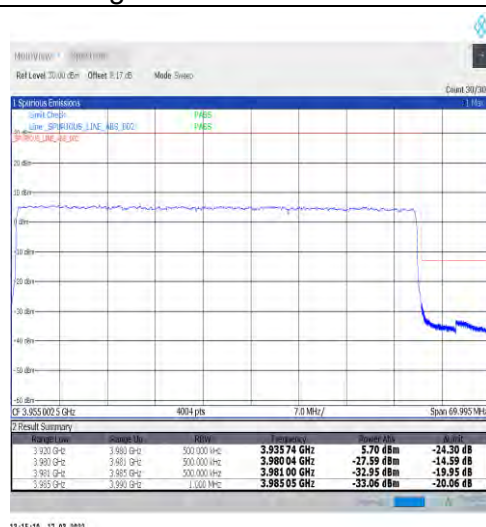
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13:15:18 17.03.2022

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13:16:17 17.03.2022



13:17:41 17.03.2022

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



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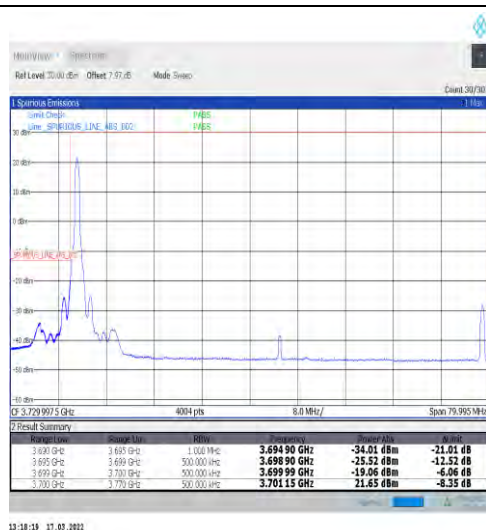
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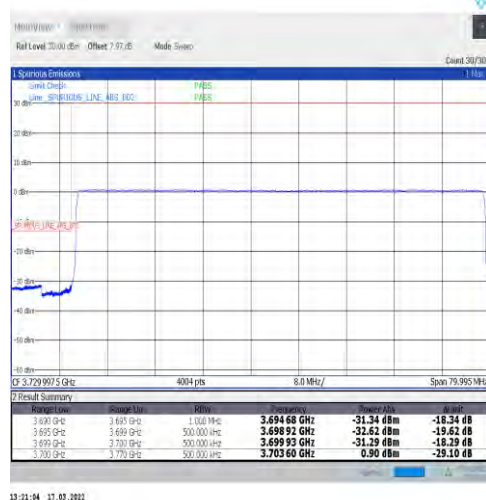
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_Left-1@0-Ant1-PASS-see graph

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_Full-180@0-Ant1-PASS-see graph



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t-1@0-Ant1-PASS-see graph

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



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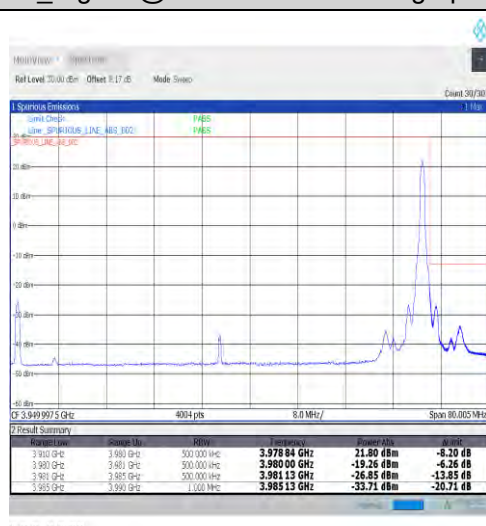
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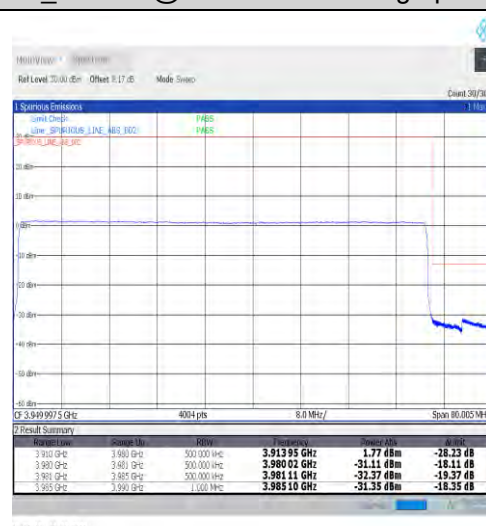
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B_Right-1@188-Ant1-PASS-see graph

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



13-12-14 17:03:2022



13-12-14 17:03:2022

1-N77-3700-3980-30-70-H-5-CP-QPSK-Edge_1RB_Ri
ght-1@188-Ant1-PASS-see graph

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



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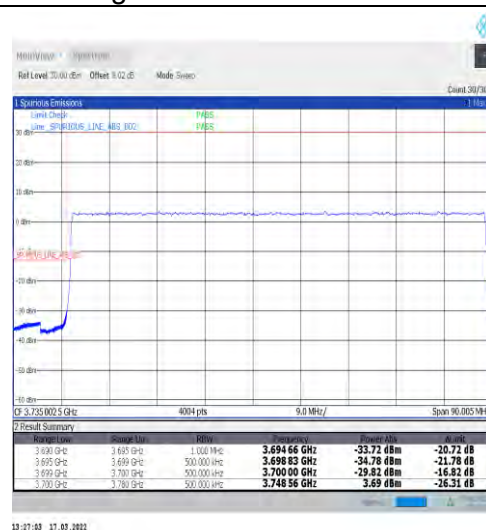
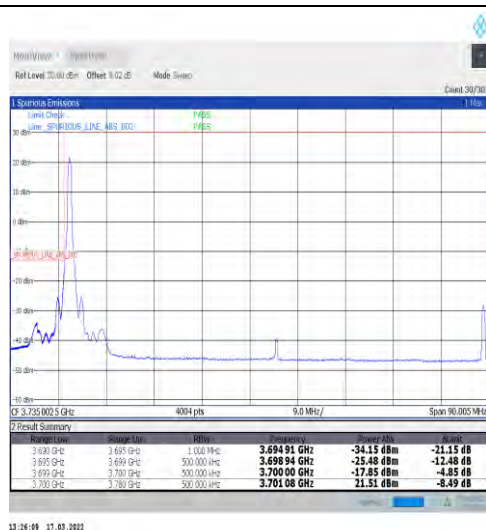
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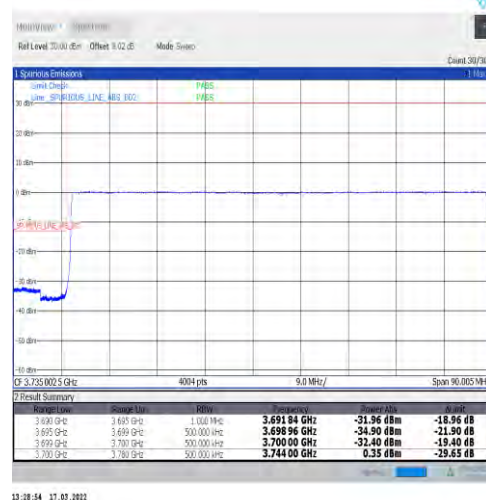
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1-N77-3700-3980-30-80-L-1-DFT-PI2BPSK-Edge_1RB
_Left-1@0-Ant1-PASS-see graph

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



1-N77-3700-3980-30-80-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-PASS-see graph

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



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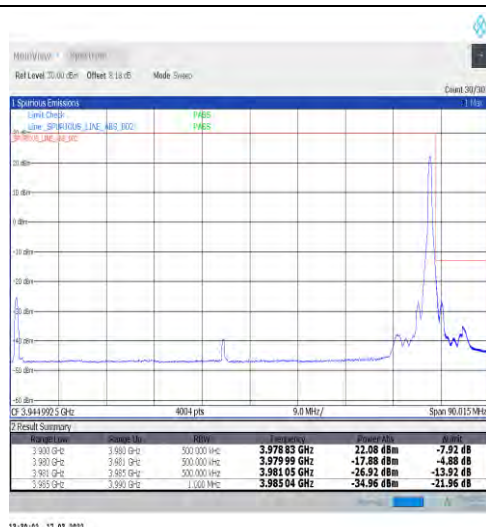
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13:38:02 17.03.2022



13:38:14 17.03.2022

1-N77-3700-3980-30-80-H-2-DFT-PI2BPSK-Edge_1R
B_Right-1@216-Ant1-PASS-see graph

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



13:31:53 17.03.2022



13:32:47 17.03.2022

1-N77-3700-3980-30-80-H-5-CP-QPSK-Edge_1RB_Ri
ght-1@216-Ant1-PASS-see graph

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



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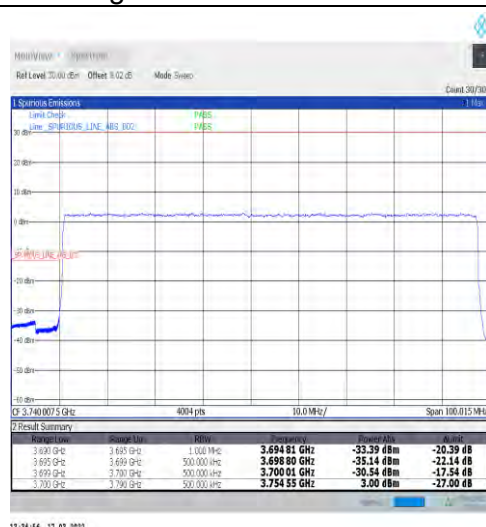
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13-34-51 17.03.2022

1-N77-3700-3980-30-90-L-1-DFT-PI2BPSK-Edge_1RB
_Left-1@0-Ant1-PASS-see graph



13-34-54 17.03.2022

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



13-35-54 17.03.2022

1-N77-3700-3980-30-90-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-PASS-see graph



13-36-47 17.03.2022

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



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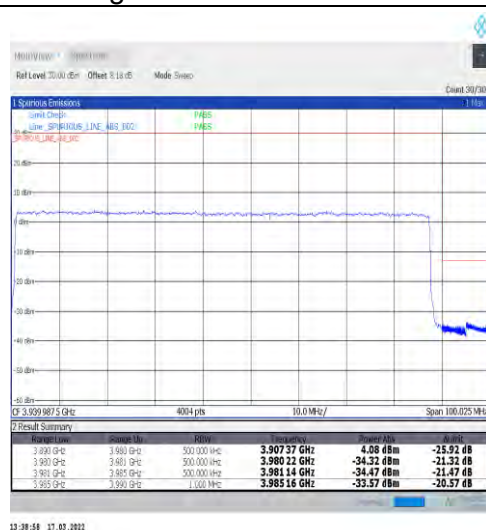
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13:38:14 17.03.2022

1-N77-3700-3980-30-90-H-2-DFT-PI2BPSK-Edge_1R
B_Right-1@244-Ant1-PASS-see graph



13:38:58 17.03.2022

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



13:39:55 17.03.2022

1-N77-3700-3980-30-90-H-5-CP-QPSK-Edge_1R
B_Right-1@244-Ant1-PASS-see graph



13:40:49 17.03.2022

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



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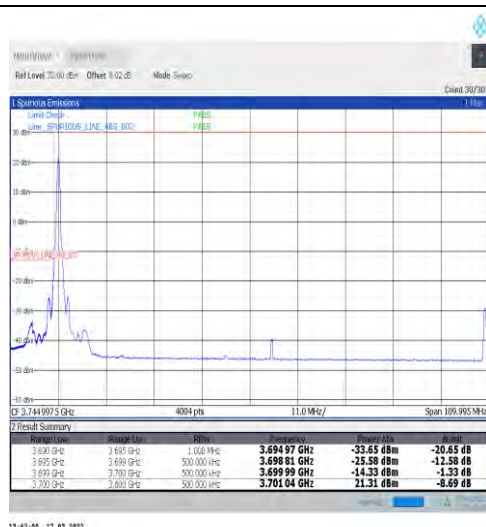
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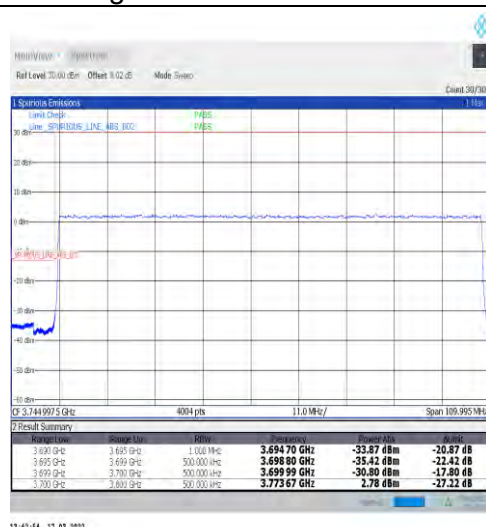
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13:42:04 17.03.2022

1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Edge_1R
B_Left-1@0-Ant1-PASS-see graph



13:42:54 17.03.2022

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



13:43:54 17.03.2022

1-N77-3700-3980-30-100-L-4-CP-QPSK-Edge_1RB_L
eft-1@0-Ant1-PASS-see graph



13:44:44 17.03.2022

1-N77-3700-3980-30-100-L-6-CP-QPSK-Outer_Fu
ll-273@0-Ant1-PASS-see graph



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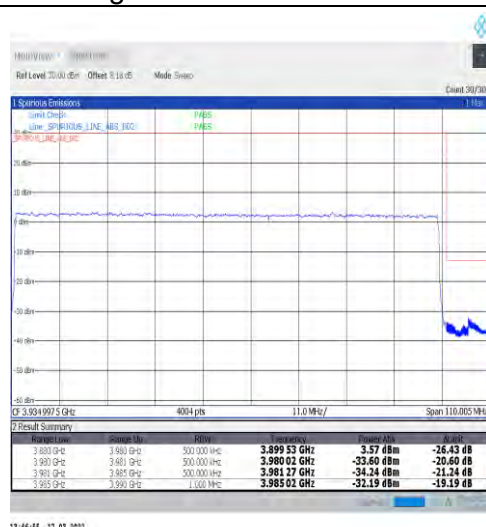
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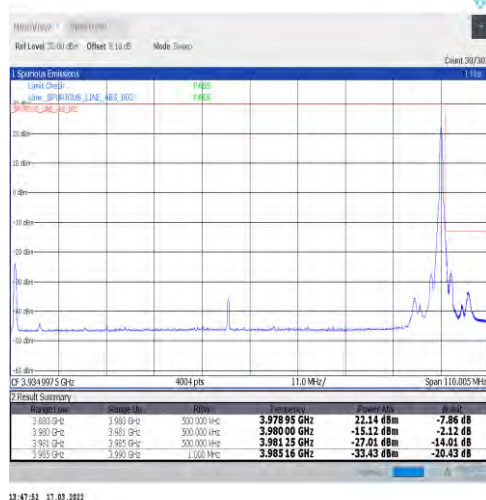
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1-N77-3700-3980-30-100-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@272-Ant1-PASS-see graph



13:46:55 17.03.2022

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



13:47:54 17.03.2022

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



13:48:45 17.03.2022

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



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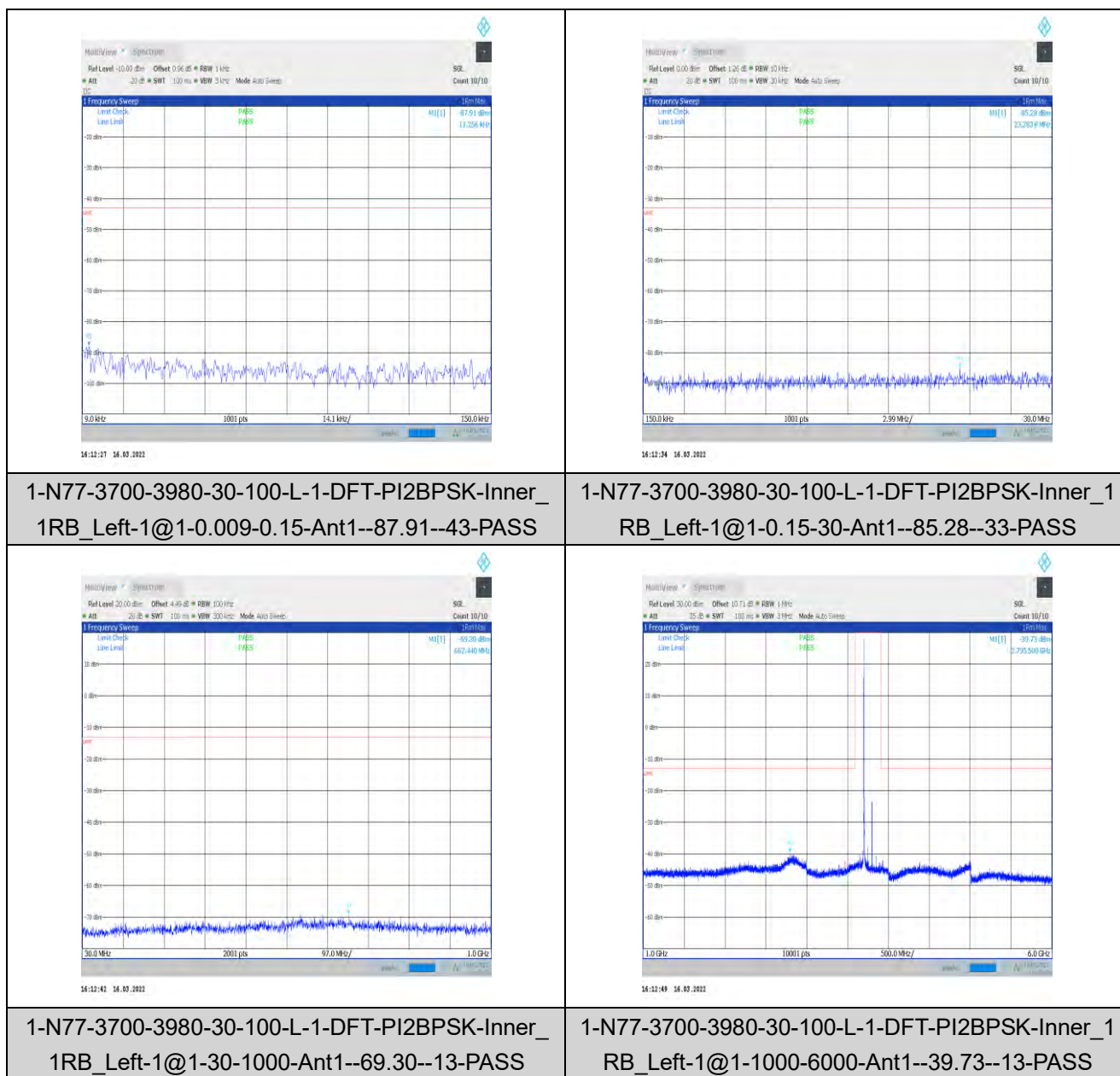
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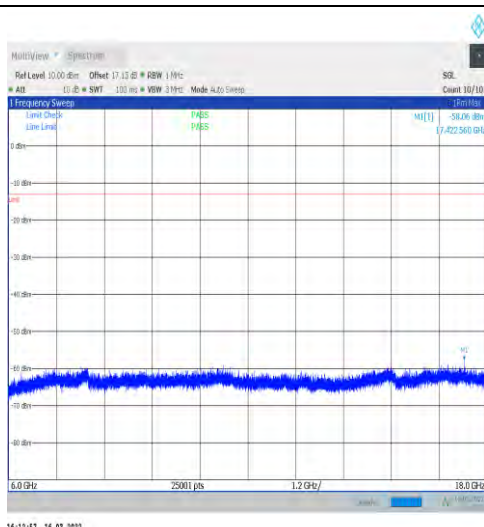
Test Graphs



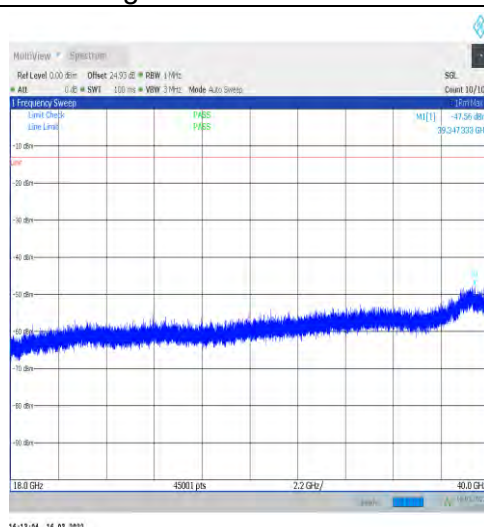
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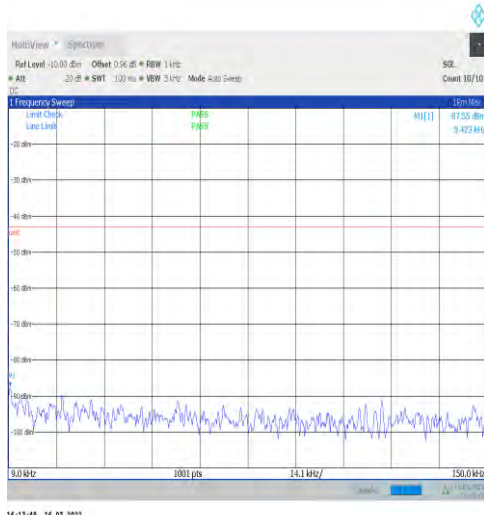
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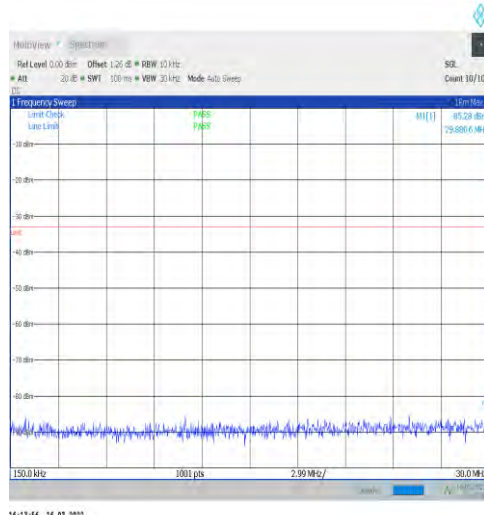
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1--47.56--13-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--87.55--43-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--85.28--33-PASS



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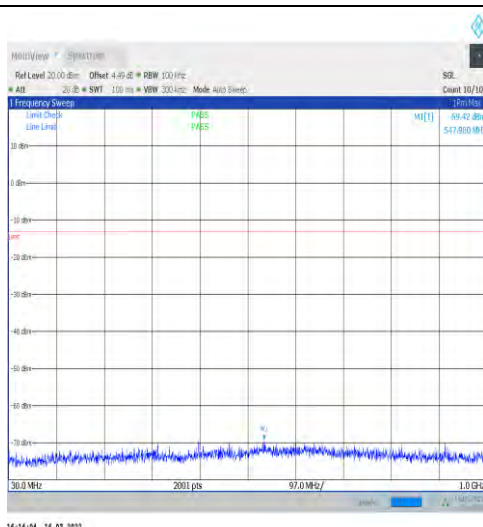
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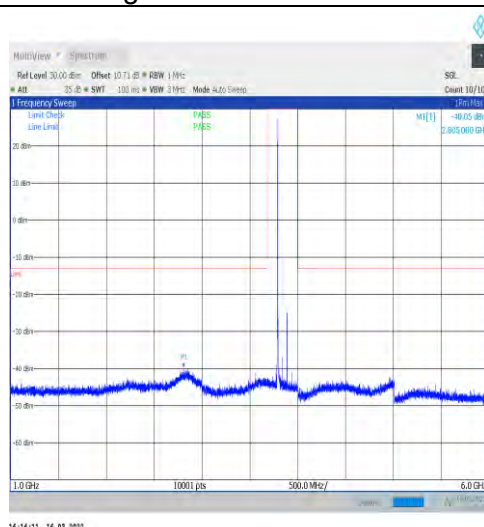
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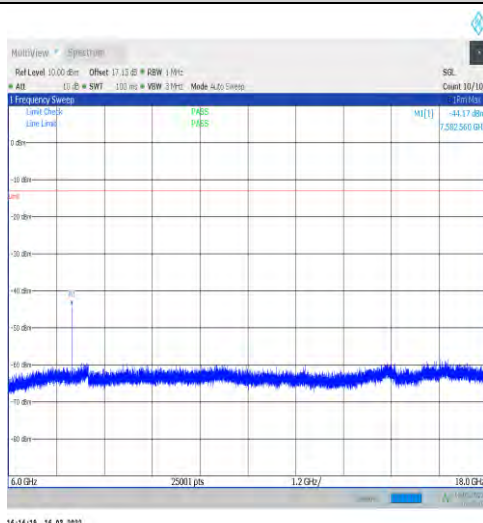
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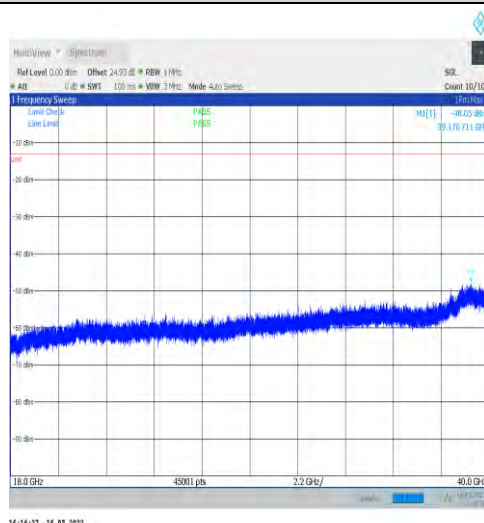
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1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1--44.17--13-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1--48.05--13-PASS



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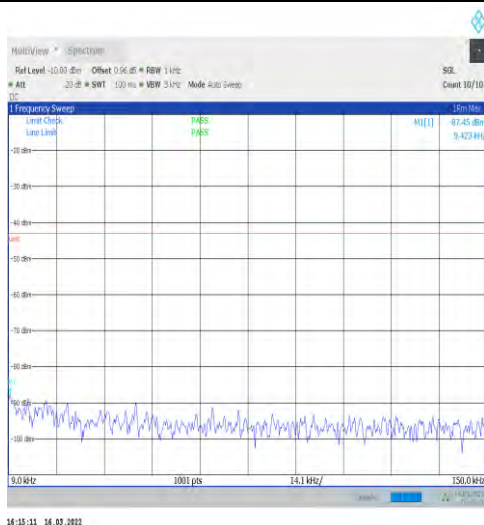
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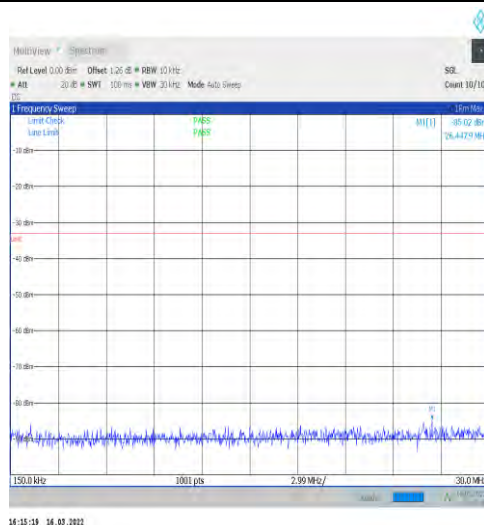
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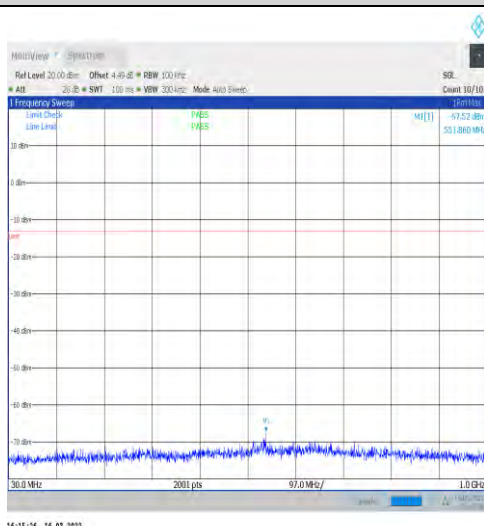
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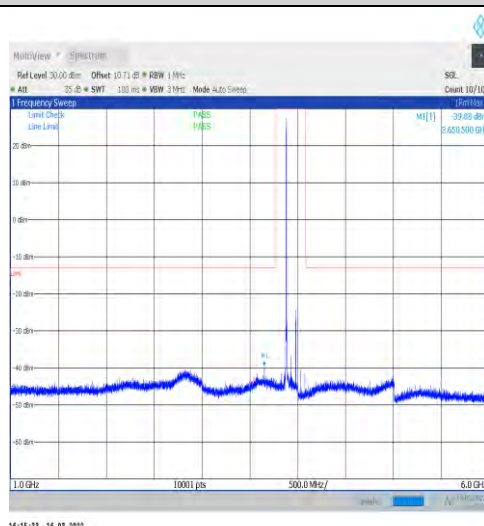
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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--85.02--33-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--67.52--13-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1--39.88--13-PASS



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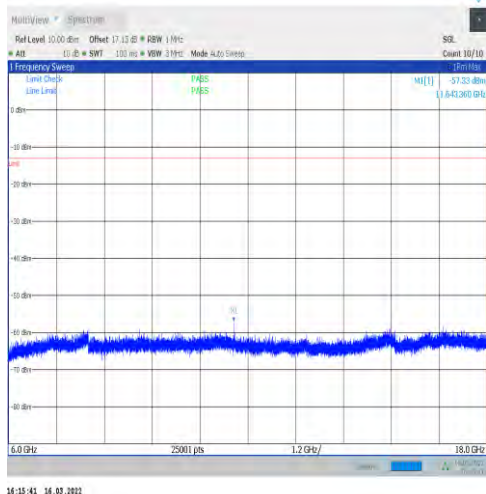
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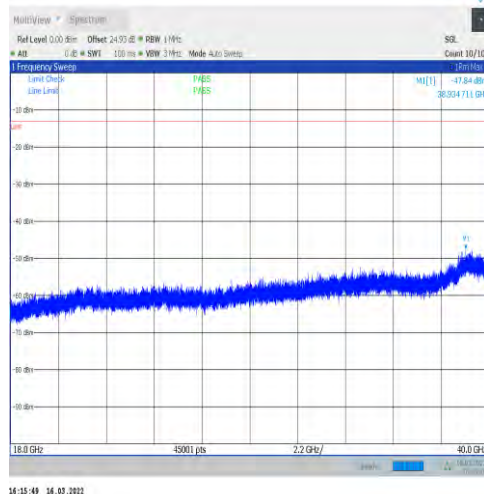
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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1--57.33--13-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1--47.84--13-PASS



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Field Strength of Spurious Radiation

Test Band = NSA DC_2A_n77 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7402	60.00	-100.80	-40.80	-13.00	27.80	163	48	Horizontal
2	9830	57.13	-93.82	-36.69	-13.00	23.69	166	170	Horizontal
3	11253	47.87	-91.05	-43.18	-13.00	30.18	265	1	Horizontal
4	11796	50.28	-91.86	-41.58	-13.00	28.58	174	158	Horizontal
5	15004	51.73	-90.45	-38.72	-13.00	25.72	217	199	Horizontal
6	17695	44.08	-84.97	-40.89	-13.00	27.89	163	60	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	47.97	-100.63	-52.66	-13.00	39.66	263	120	Vertical
2	7502	66.99	-100.34	-33.35	-13.00	20.35	341	174	Vertical
3	9830	59.34	-93.82	-34.48	-13.00	21.48	196	357	Vertical
4	11253	52.98	-91.05	-38.07	-13.00	25.07	271	282	Vertical
5	13129	55.17	-90.23	-35.06	-13.00	22.06	226	77	Vertical
6	14604	55.20	-89.71	-34.51	-13.00	21.51	193	148	Vertical



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Test Band = NSA DC_2A_n77 3700M-3980M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7582	74.89	-99.90	-25.01	-13.00	12.01	263	0	Horizontal
2	9830	57.99	-93.82	-35.83	-13.00	22.83	241	2	Horizontal
3	11796	51.50	-91.86	-40.36	-13.00	27.36	162	280	Horizontal
4	13129	49.17	-90.23	-41.06	-13.00	28.06	274	346	Horizontal
5	15164	49.29	-89.95	-40.66	-13.00	27.66	168	143	Horizontal
6	17954	42.32	-84.09	-41.77	-13.00	28.77	192	131	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7502	67.70	-100.34	-32.64	-13.00	19.64	263	185	Vertical
2	9457	60.39	-94.61	-34.22	-13.00	21.22	326	170	Vertical
3	11253	53.09	-91.05	-37.96	-13.00	24.96	262	282	Vertical
4	13129	58.17	-90.23	-32.06	-13.00	19.06	284	144	Vertical
5	15005	51.42	-90.44	-39.02	-13.00	26.02	176	200	Vertical
6	17854	42.06	-84.29	-42.23	-13.00	29.23	268	255	Vertical



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Test Band = NSA DC_2A_n77 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7682	63.26	-99.67	-36.41	-13.00	23.41	263	184	Horizontal
2	9830	56.43	-93.82	-37.39	-13.00	24.39	214	1	Horizontal
3	11796	52.53	-91.86	-39.33	-13.00	26.33	196	280	Horizontal
4	15004	52.35	-90.45	-38.10	-13.00	25.10	284	200	Horizontal
5	15740.36	42.55	-90.73	-48.18	-13.00	35.18	175	65	Horizontal
6	17695	43.48	-84.97	-41.49	-13.00	28.49	266	65	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7682	57.58	-99.67	-42.09	-13.00	29.09	231	2	Vertical
2	9830	58.88	-93.82	-34.94	-13.00	21.94	142	39	Vertical
3	11796	52.00	-91.86	-39.86	-13.00	26.86	263	349	Vertical
4	13129	58.32	-90.23	-31.91	-13.00	18.91	219	145	Vertical
5	15005	53.87	-90.44	-36.57	-13.00	23.57	185	203	Vertical
6	15740.36	41.62	-90.73	-49.11	-13.00	36.11	168	257	Vertical



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Test Band = NSA DC_5A_n77 3700M-3980M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	47.80	-100.63	-52.83	-13.00	39.83	163	241	Horizontal
2	9830	56.54	-93.82	-37.28	-13.00	24.28	341	357	Horizontal
3	10965.27	41.58	-91.32	-49.74	-13.00	36.74	162	1	Horizontal
4	11796	51.51	-91.86	-40.35	-13.00	27.35	298	161	Horizontal
5	14620.36	40.33	-89.81	-49.48	-13.00	36.48	175	146	Horizontal
6	17862	42.45	-84.28	-41.83	-13.00	28.83	336	255	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	48.40	-100.63	-52.23	-13.00	39.23	263	119	Vertical
2	9830	62.46	-93.82	-31.36	-13.00	18.36	314	200	Vertical
3	10965.27	42.36	-91.32	-48.96	-13.00	35.96	196	133	Vertical
4	11796	55.38	-91.86	-36.48	-13.00	23.48	264	148	Vertical
5	14620.36	40.52	-89.81	-49.29	-13.00	36.29	195	25	Vertical
6	17889	41.78	-84.25	-42.47	-13.00	29.47	247	243	Vertical



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Test Band = NSA DC_5A_n77 3700M-3980M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7582	58.70	-99.90	-41.20	-13.00	28.20	263	357	Horizontal
2	9830	55.40	-93.82	-38.42	-13.00	25.42	314	1	Horizontal
3	11385.27	41.66	-91.68	-50.02	-13.00	37.02	162	26	Horizontal
4	11796	51.72	-91.86	-40.14	-13.00	27.14	294	280	Horizontal
5	15180.36	42.96	-89.91	-46.95	-13.00	33.95	178	0	Horizontal
6	17695	43.84	-84.97	-41.13	-13.00	28.13	268	198	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6758	55.29	-101.87	-46.58	-13.00	33.58	162	307	Vertical
2	7582	65.10	-99.90	-34.80	-13.00	21.80	264	53	Vertical
3	9830	60.60	-93.82	-33.22	-13.00	20.22	175	200	Vertical
4	11385.27	42.60	-91.68	-49.08	-13.00	36.08	268	13	Vertical
5	15164	46.93	-89.95	-43.02	-13.00	30.02	177	92	Vertical
6	17862	42.19	-84.28	-42.09	-13.00	29.09	186	360	Vertical



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Test Band = NSA DC_5A_n77 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6758	53.84	-101.87	-48.03	-13.00	35.03	163	308	Horizontal
2	7862	73.31	-98.80	-25.49	-13.00	12.49	241	173	Horizontal
3	9830	55.86	-93.82	-37.96	-13.00	24.96	175	2	Horizontal
4	11797	51.18	-91.87	-40.69	-13.00	27.69	266	282	Horizontal
5	15740.36	41.21	-90.73	-49.52	-13.00	36.52	185	0	Horizontal
6	17695	43.31	-84.97	-41.66	-13.00	28.66	269	255	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6758	54.56	-101.87	-47.31	-13.00	34.31	162	354	Vertical
2	7862	58.48	-98.80	-40.32	-13.00	27.32	241	308	Vertical
3	9830	60.75	-93.82	-33.07	-13.00	20.07	176	187	Vertical
4	11796	52.17	-91.86	-39.69	-13.00	26.69	298	337	Vertical
5	15725	56.58	-90.71	-34.13	-13.00	21.13	176	161	Vertical
6	17695	42.38	-84.97	-42.59	-13.00	29.59	263	228	Vertical



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Test Band = NSA DC_12A_n77 3700M-3980M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7302	53.04	-100.61	-47.57	-13.00	34.57	263	178	Horizontal
2	9830	57.03	-93.82	-36.79	-13.00	23.79	317	357	Horizontal
3	10965.27	41.64	-91.32	-49.68	-13.00	36.68	261	0	Horizontal
4	11796	51.33	-91.86	-40.53	-13.00	27.53	176	149	Horizontal
5	14620.36	40.45	-89.81	-49.36	-13.00	36.36	298	271	Horizontal
6	17695	44.19	-84.97	-40.78	-13.00	27.78	172	190	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7302	51.56	-100.61	-49.05	-13.00	36.05	263	360	Vertical
2	9830	61.80	-93.82	-32.02	-13.00	19.02	217	190	Vertical
3	10953	52.95	-91.30	-38.35	-13.00	25.35	269	136	Vertical
4	11796	54.48	-91.86	-37.38	-13.00	24.38	175	326	Vertical
5	14604	51.21	-89.71	-38.50	-13.00	25.50	269	95	Vertical
6	17868	43.88	-84.27	-40.39	-13.00	27.39	217	360	Vertical



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Test Band = NSA DC_12A_n77 3700M-3980M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6758	54.36	-101.87	-47.51	-13.00	34.51	163	119	Horizontal
2	7582	59.64	-99.90	-40.26	-13.00	27.26	126	309	Horizontal
3	9830	55.52	-93.82	-38.30	-13.00	25.30	363	160	Horizontal
4	11796	50.26	-91.86	-41.60	-13.00	28.60	294	160	Horizontal
5	15180.36	41.75	-89.91	-48.16	-13.00	35.16	175	133	Horizontal
6	17695	43.90	-84.97	-41.07	-13.00	28.07	299	254	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6758	54.78	-101.87	-47.09	-13.00	34.09	231	119	Vertical
2	7590.18	49.04	-99.85	-50.81	-13.00	37.81	142	119	Vertical
3	9830	60.68	-93.82	-33.14	-13.00	20.14	264	202	Vertical
4	11797	52.61	-91.87	-39.26	-13.00	26.26	179	78	Vertical
5	15180.36	41.80	-89.91	-48.11	-13.00	35.11	362	90	Vertical
6	17787	41.68	-84.41	-42.73	-13.00	29.73	289	295	Vertical



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Test Band = NSA DC_12A_n77 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6758	53.93	-101.87	-47.94	-13.00	34.94	263	307	Horizontal
2	7861	54.95	-98.81	-43.86	-13.00	30.86	314	50	Horizontal
3	9830	55.99	-93.82	-37.83	-13.00	24.83	269	0	Horizontal
4	11796	51.92	-91.86	-39.94	-13.00	26.94	296	157	Horizontal
5	15740.36	41.46	-90.73	-49.27	-13.00	36.27	244	131	Horizontal
6	17695	45.41	-84.97	-39.56	-13.00	26.56	177	5	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.18	46.08	-98.77	-52.69	-13.00	39.69	263	360	Vertical
2	9830	59.16	-93.82	-34.66	-13.00	21.66	341	190	Vertical
3	11797	52.75	-91.87	-39.12	-13.00	26.12	176	135	Vertical
4	14746	47.12	-90.01	-42.89	-13.00	29.89	298	283	Vertical
5	15740.36	41.91	-90.73	-48.82	-13.00	35.82	185	360	Vertical
6	17853	43.00	-84.29	-41.29	-13.00	28.29	261	108	Vertical



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Test Band = NSA DC_13A_n77 3700M-3980M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7302	60.67	-100.61	-39.94	-13.00	26.94	263	358	Horizontal
2	9830	56.31	-93.82	-37.51	-13.00	24.51	241	358	Horizontal
3	10965.27	42.36	-91.32	-48.96	-13.00	35.96	176	160	Horizontal
4	11797	51.36	-91.87	-40.51	-13.00	27.51	284	279	Horizontal
5	14620.36	40.55	-89.81	-49.26	-13.00	36.26	163	146	Horizontal
6	17695	44.82	-84.97	-40.15	-13.00	27.15	214	132	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	47.67	-100.63	-52.96	-13.00	39.96	263	3	Vertical
2	9830	59.12	-93.82	-34.70	-13.00	21.70	241	188	Vertical
3	10965.27	41.70	-91.32	-49.62	-13.00	36.62	171	258	Vertical
4	11140	46.17	-90.92	-44.75	-13.00	31.75	162	359	Vertical
5	11796	55.25	-91.86	-36.61	-13.00	23.61	218	135	Vertical
6	14746	45.28	-90.01	-44.73	-13.00	31.73	369	360	Vertical



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Test Band = NSA DC_13A_n77 3700M-3980M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.18	49.39	-99.85	-50.46	-13.00	37.46	163	50	Horizontal
2	9830	56.78	-93.82	-37.04	-13.00	24.04	264	1	Horizontal
3	11385.27	41.98	-91.68	-49.70	-13.00	36.70	176	157	Horizontal
4	11796	50.77	-91.86	-41.09	-13.00	28.09	297	90	Horizontal
5	15180.36	40.99	-89.91	-48.92	-13.00	35.92	186	199	Horizontal
6	17695	43.92	-84.97	-41.05	-13.00	28.05	324	62	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6758	54.52	-101.87	-47.35	-13.00	34.35	162	3	Vertical
2	7582	62.28	-99.90	-37.62	-13.00	24.62	297	174	Vertical
3	9830	59.59	-93.82	-34.23	-13.00	21.23	185	188	Vertical
4	11797	54.43	-91.87	-37.44	-13.00	24.44	263	133	Vertical
5	14746	45.88	-90.01	-44.13	-13.00	31.13	217	284	Vertical
6	17974	42.50	-84.04	-41.54	-13.00	28.54	186	360	Vertical



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Test Band = NSA DC_13A_n77 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6759	55.04	-101.87	-46.83	-13.00	33.83	263	269	Horizontal
2	7879	53.98	-98.74	-44.76	-13.00	31.76	314	307	Horizontal
3	9830	57.03	-93.82	-36.79	-13.00	23.79	196	22	Horizontal
4	11797	49.54	-91.87	-42.33	-13.00	29.33	271	93	Horizontal
5	15740.36	41.36	-90.73	-49.37	-13.00	36.37	185	132	Horizontal
6	17695	43.49	-84.97	-41.48	-13.00	28.48	264	132	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6758	55.07	-101.87	-46.80	-13.00	33.80	231	358	Vertical
2	7862	58.14	-98.80	-40.66	-13.00	27.66	196	176	Vertical
3	9830	62.01	-93.82	-31.81	-13.00	18.81	241	190	Vertical
4	11796	54.34	-91.86	-37.52	-13.00	24.52	176	136	Vertical
5	13638	45.61	-89.87	-44.26	-13.00	31.26	298	283	Vertical
6	17847	42.55	-84.29	-41.74	-13.00	28.74	177	230	Vertical



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Test Band = NSA DC_66A_n77 3700M-3980M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6962	58.42	-101.46	-43.04	-13.00	30.04	263	118	Horizontal
2	8703	53.62	-96.23	-42.61	-13.00	29.61	214	106	Horizontal
3	9830	56.53	-93.82	-37.29	-13.00	24.29	182	1	Horizontal
4	10965.27	41.56	-91.32	-49.76	-13.00	36.76	269	25	Horizontal
5	11796	51.84	-91.86	-40.02	-13.00	27.02	172	282	Horizontal
6	14604	46.22	-89.71	-43.49	-13.00	30.49	233	203	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7302	55.06	-100.61	-45.55	-13.00	32.55	263	117	Vertical
2	8703	59.99	-96.23	-36.24	-13.00	23.24	326	2	Vertical
3	9830	60.22	-93.82	-33.60	-13.00	20.60	268	1	Vertical
4	10965.27	42.40	-91.32	-48.92	-13.00	35.92	175	35	Vertical
5	14392	45.51	-90.14	-44.63	-13.00	31.63	264	142	Vertical
6	17937	41.82	-84.14	-42.32	-13.00	29.32	122	6	Vertical



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Test Band = NSA DC_66A_n77 3700M-3980M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6962	57.65	-101.46	-43.81	-13.00	30.81	263	114	Horizontal
2	7590.18	49.06	-99.85	-50.79	-13.00	37.79	214	2	Horizontal
3	9831	55.71	-93.82	-38.11	-13.00	25.11	196	1	Horizontal
4	11385.27	42.01	-91.68	-49.67	-13.00	36.67	268	280	Horizontal
5	15180.36	41.71	-89.91	-48.20	-13.00	35.20	175	0	Horizontal
6	17695	44.08	-84.97	-40.89	-13.00	27.89	264	60	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7582	70.93	-99.90	-28.97	-13.00	15.97	231	185	Vertical
2	8703	61.11	-96.23	-35.12	-13.00	22.12	175	357	Vertical
3	9830	57.48	-93.82	-36.34	-13.00	23.34	264	0	Vertical
4	11796	51.72	-91.86	-40.14	-13.00	27.14	196	348	Vertical
5	13925	47.95	-89.66	-41.71	-13.00	28.71	264	337	Vertical
6	15180.36	41.55	-89.91	-48.36	-13.00	35.36	166	77	Vertical



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Test Band = NSA DC_66A_n77 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7861	54.98	-98.81	-43.83	-13.00	30.83	231	173	Horizontal
2	9830	55.36	-93.82	-38.46	-13.00	25.46	185	1	Horizontal
3	11796	50.52	-91.86	-41.34	-13.00	28.34	264	0	Horizontal
4	13925	46.15	-89.66	-43.51	-13.00	30.51	176	201	Horizontal
5	15740.36	41.48	-90.73	-49.25	-13.00	36.25	269	321	Horizontal
6	17695	42.79	-84.97	-42.18	-13.00	29.18	126	7	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6962	63.39	-101.46	-38.07	-13.00	25.07	231	240	Vertical
2	7870.18	48.25	-98.77	-50.52	-13.00	37.52	162	307	Vertical
3	8703	60.81	-96.23	-35.42	-13.00	22.42	294	357	Vertical
4	9830	59.92	-93.82	-33.90	-13.00	20.90	175	357	Vertical
5	11796	50.99	-91.86	-40.87	-13.00	27.87	268	347	Vertical
6	15740.36	41.53	-90.73	-49.20	-13.00	36.20	193	321	Vertical



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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	10.400000	0.002708	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	7.300000	0.001901	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	7.900000	0.002057	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	6.400000	0.001667	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	4.800000	0.001250	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	6.300000	0.001641	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	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	9.700000	0.002526	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	12.400000	0.003229	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	19.600000	0.005104	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	9.500000	0.002474	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	11.000000	0.002865	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	15.700000	0.004089	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	4.900000	0.001276	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	14.200000	0.003698	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	11.000000	0.002865	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	4.800000	0.001250	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	3.100000	0.000807	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	7.500000	0.001953	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	0.200000	0.000052	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	0.300000	0.000078	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	10.000000	0.002604	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	10.800000	0.002813	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	6.700000	0.001745	PASS

The End



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