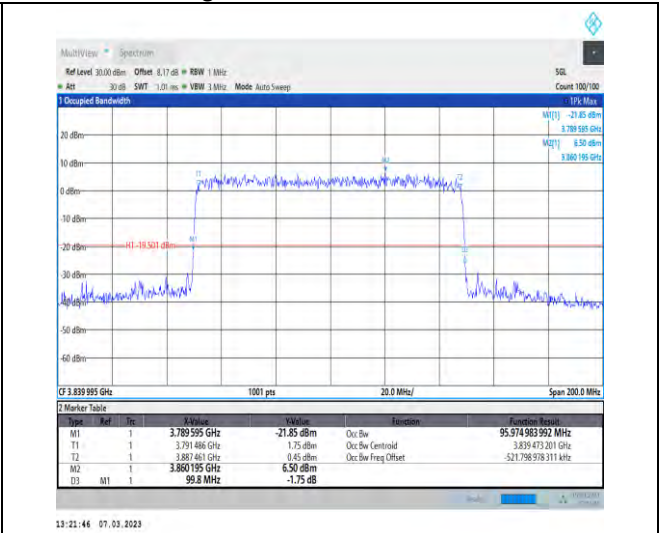
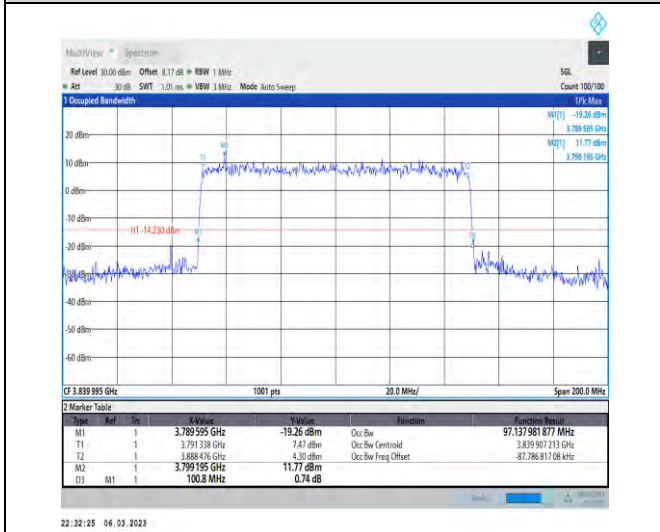


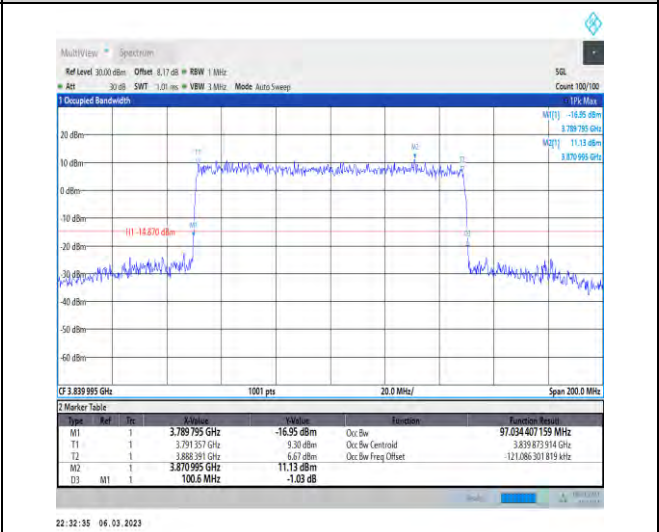
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1-N77-3700-3980-PC3-30-100-M-6-CP-QPSK-Outer_Full-273@0-Ant1-97.138-100.800-≤100-PASS



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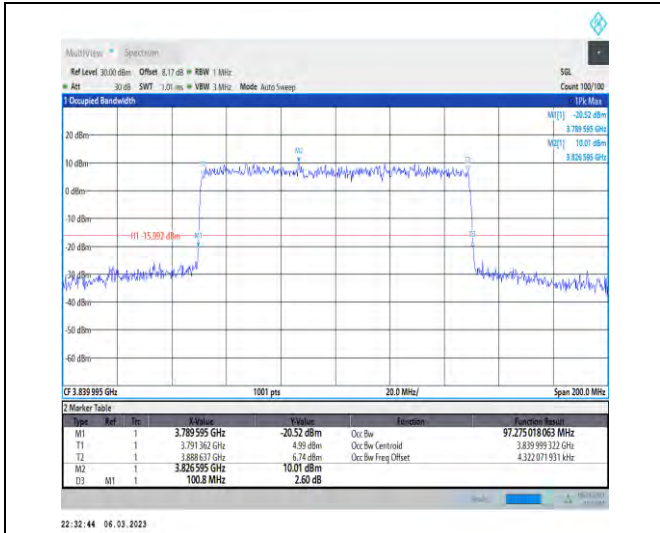


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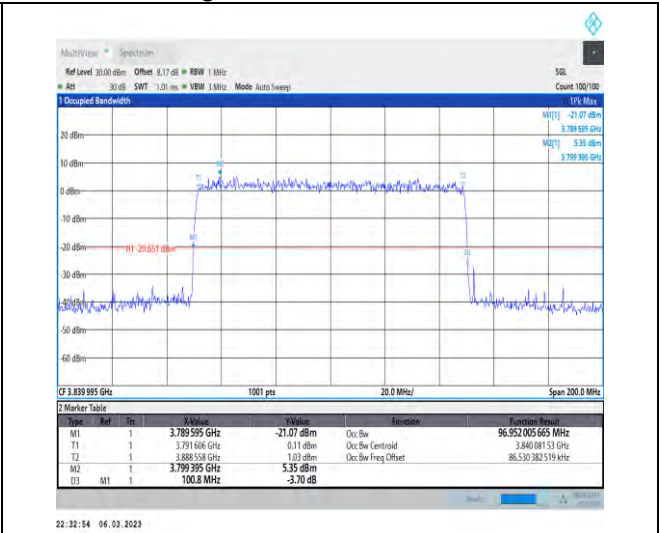
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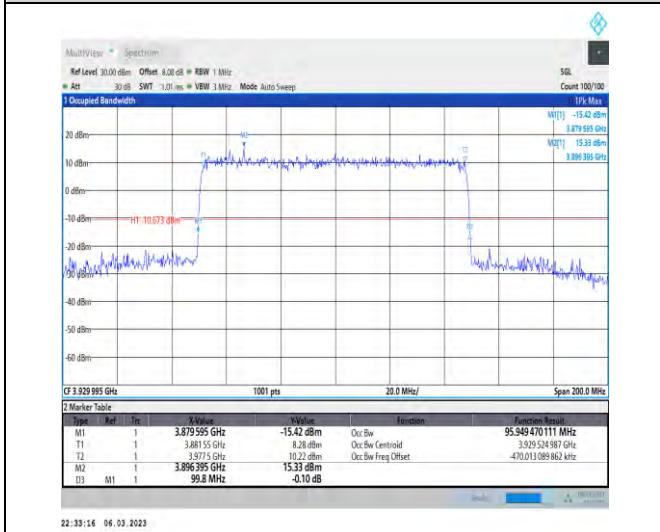
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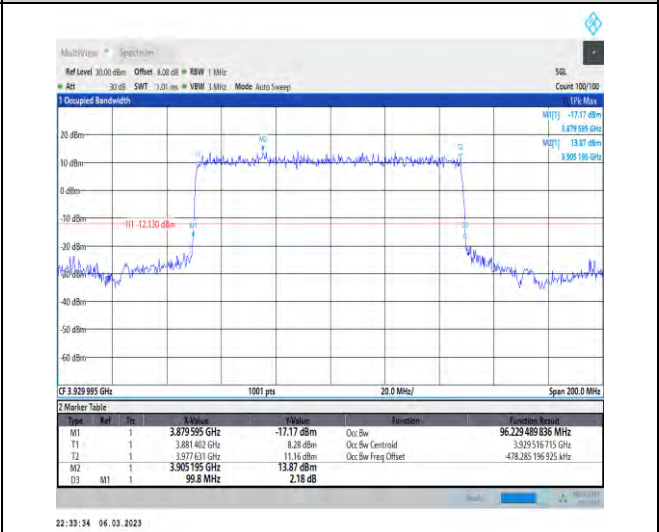
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1-N77-3700-3980-PC3-30-100-M-9-CP-256QAM-Outer_Full-273@0-Ant1-96.952-100.800-≤100-PASS



1-N77-3700-3980-PC3-30-100-H-1-DFT-QPSK-Outer_Full-270@0-Ant1-95.949-99.800-≤100-PASS



1-N77-3700-3980-PC3-30-100-H-2-DFT-PI2BPSK-Outer_Full-270@0-Ant1-96.229-99.800-≤100-PASS



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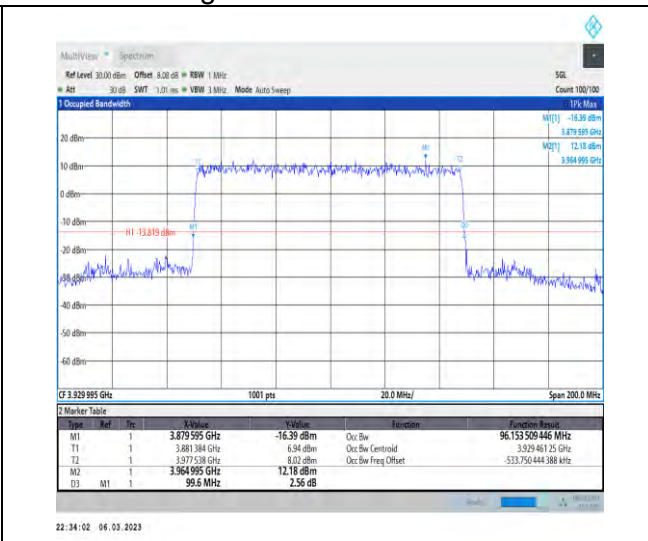
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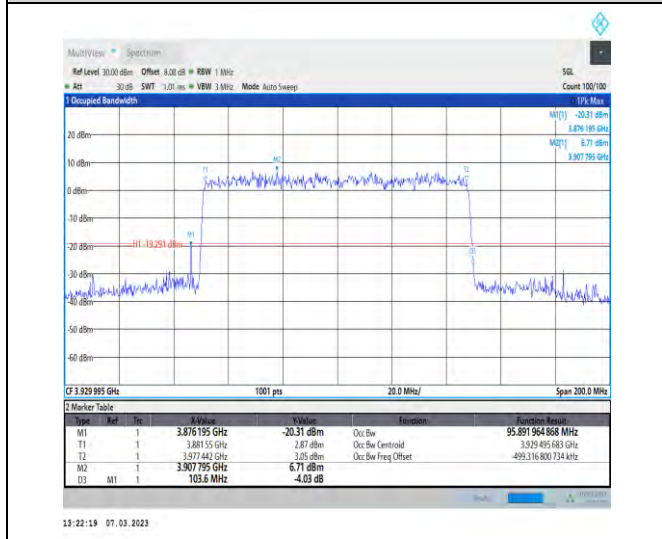
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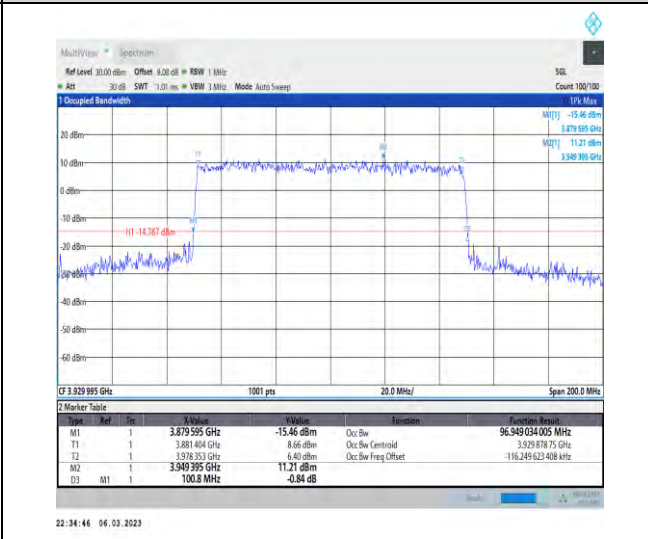
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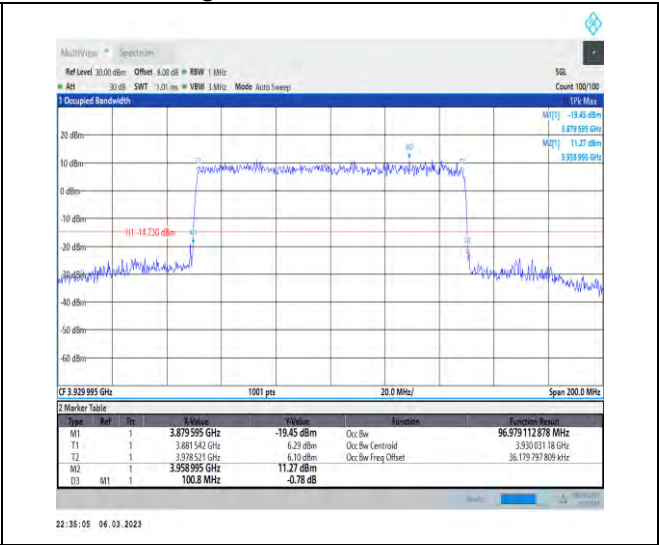
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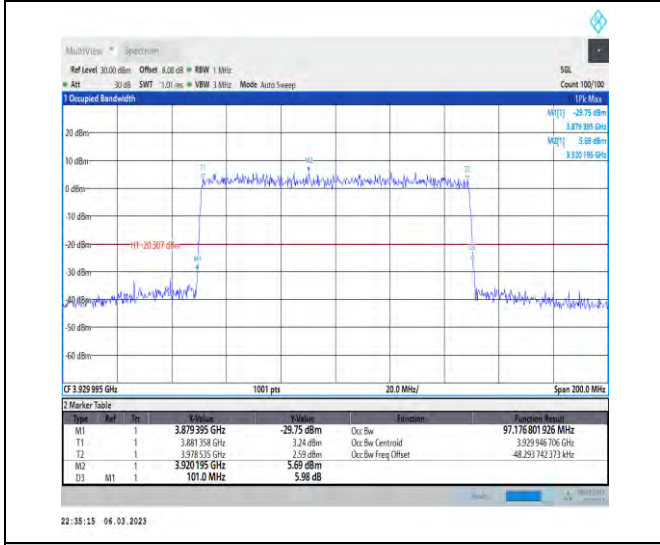


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1-N77-3700-3980-PC3-30-100-H-7-CP-16QAM-Outer_Full-273@0-Ant1-97.118-100.800-≤100-PASS

1-N77-3700-3980-PC3-30-100-H-8-CP-64QAM-Outer_Full-273@0-Ant1-96.979-100.800-≤100-PASS



1-N77-3700-3980-PC3-30-100-H-9-CP-256QAM-Outer_Full-273@0-Ant1-97.177-101.000-≤100-PASS



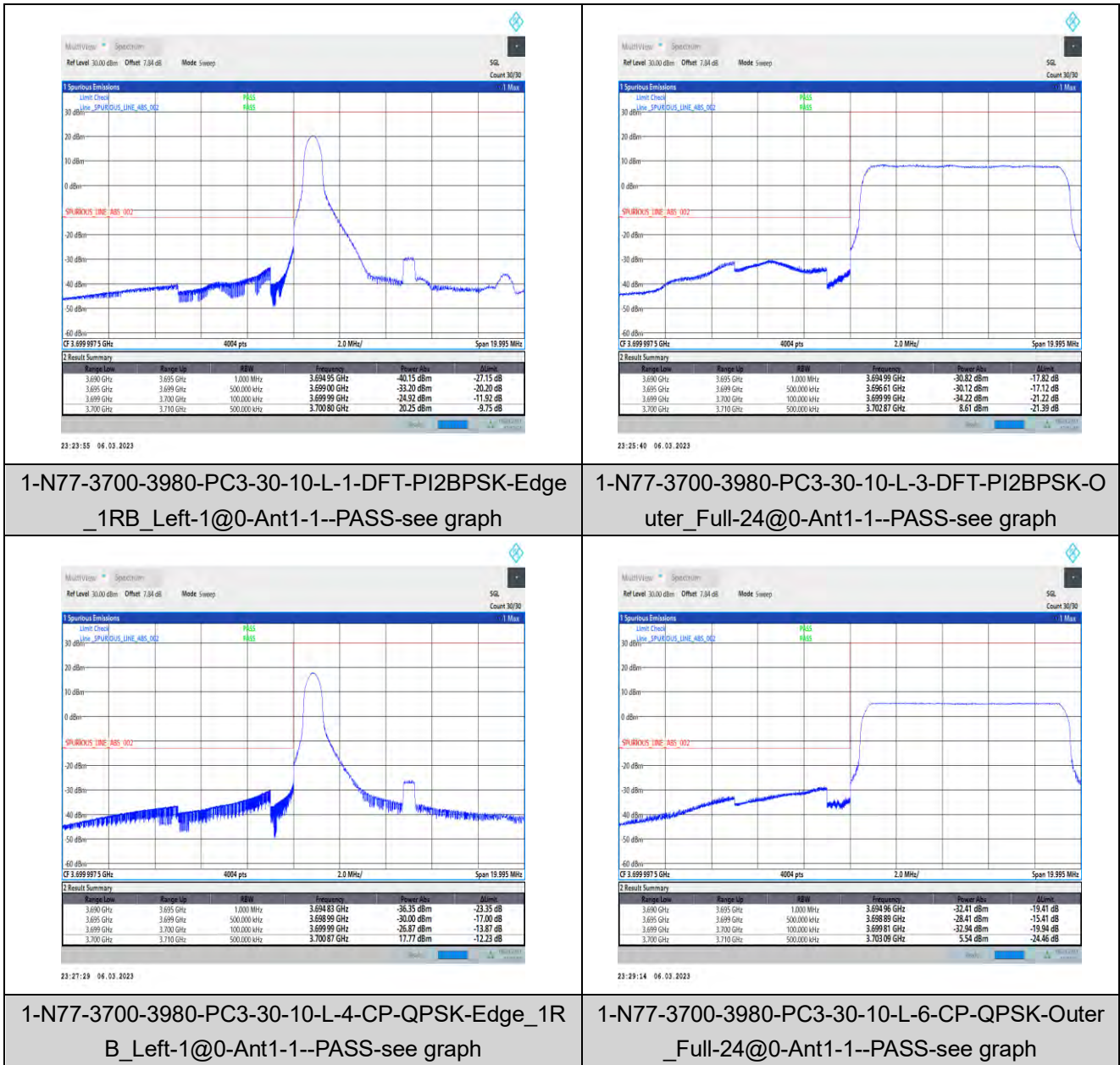
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Band Edge for SA

Test Graphs



1-N77-3700-3980-PC3-30-10-L-1-DFT-PI2BPSK-Edge
 _1RB_Left-1@0-Ant1-1--PASS-see graph

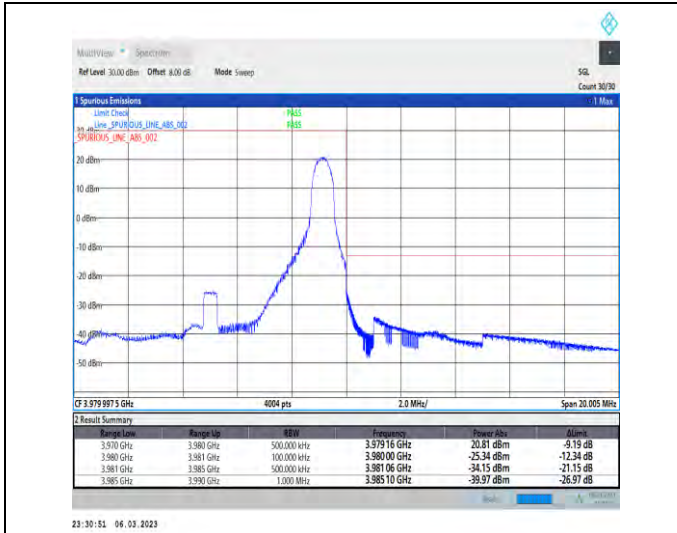
1-N77-3700-3980-PC3-30-10-L-3-DFT-PI2BPSK-O
 uter_Full-24@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC3-30-10-L-4-CP-QPSK-Edge_1R
 B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC3-30-10-L-6-CP-QPSK-Outer
 _Full-24@0-Ant1-1--PASS-see graph



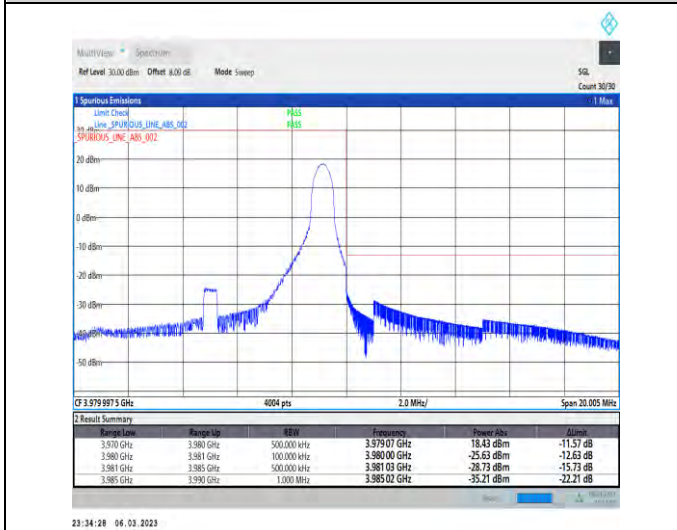
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1-N77-3700-3980-PC3-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@23-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-10-H-3-DFT-PI2BPSK-Outer_Full-24@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-10-H-6-CP-QPSK-Outer_Full-24@0-Ant1-1--PASS-see graph

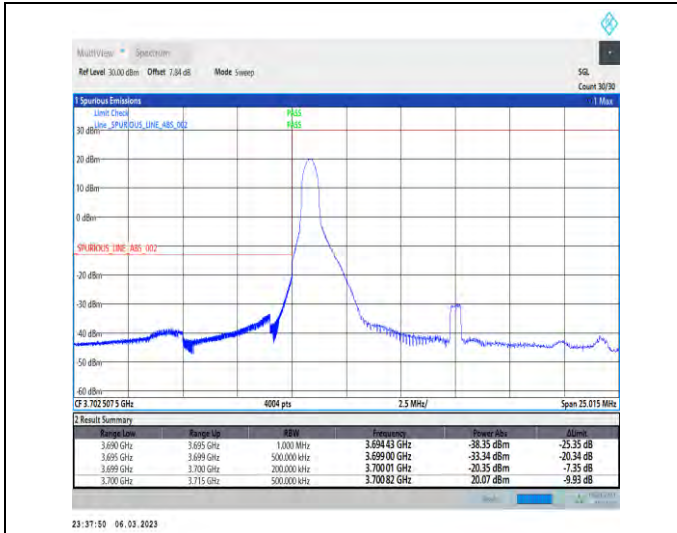


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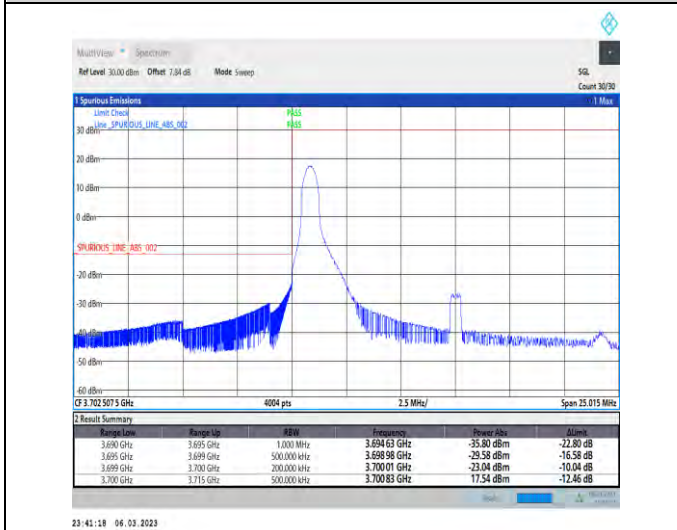
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1-N77-3700-3980-PC3-30-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

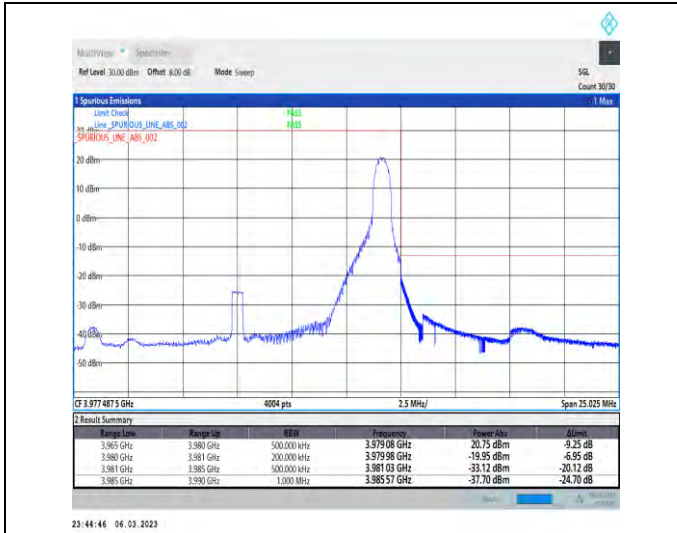
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1-N77-3700-3980-PC3-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant1-1--PASS-see graph

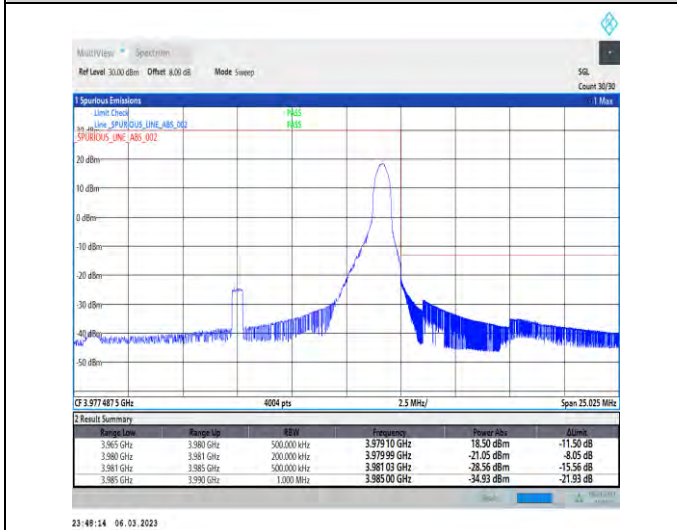




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1-N77-3700-3980-PC3-30-15-H-5-CP-QPSK-Edge_1RB_Right-1@37-Ant1-1--PASS-see graph



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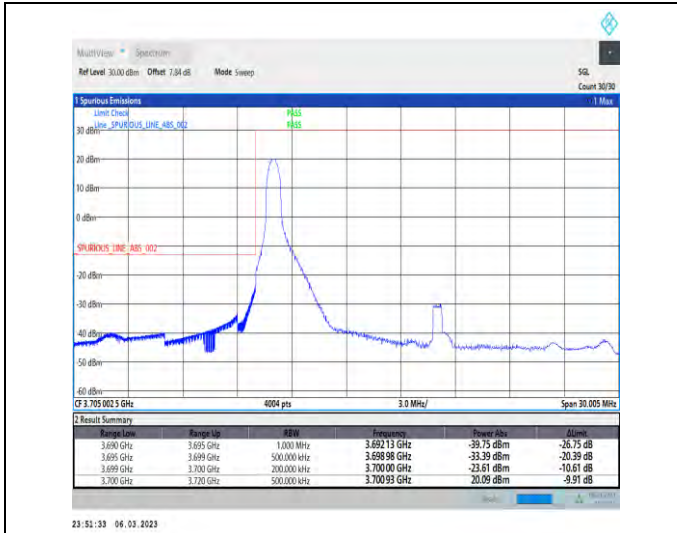


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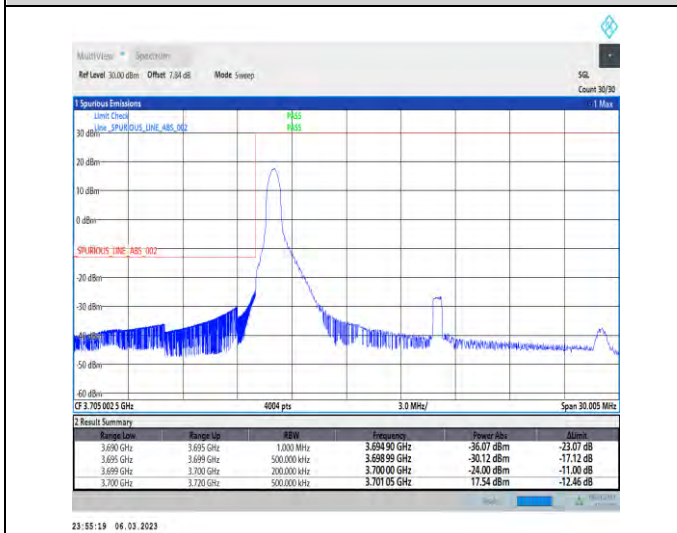
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1-N77-3700-3980-PC3-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



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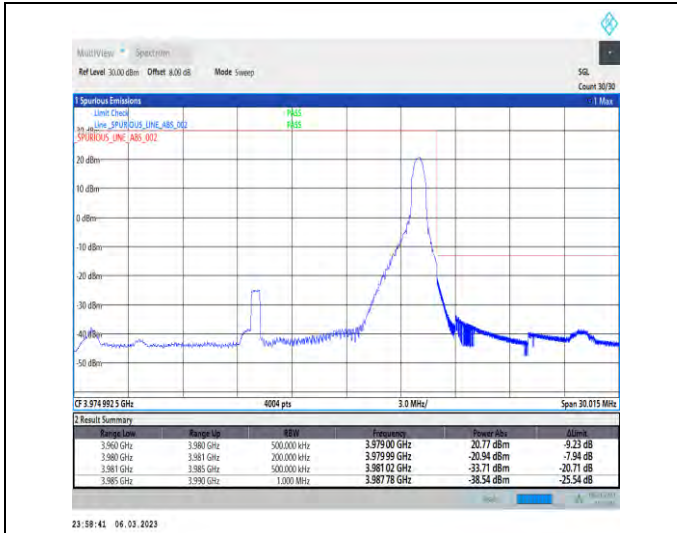


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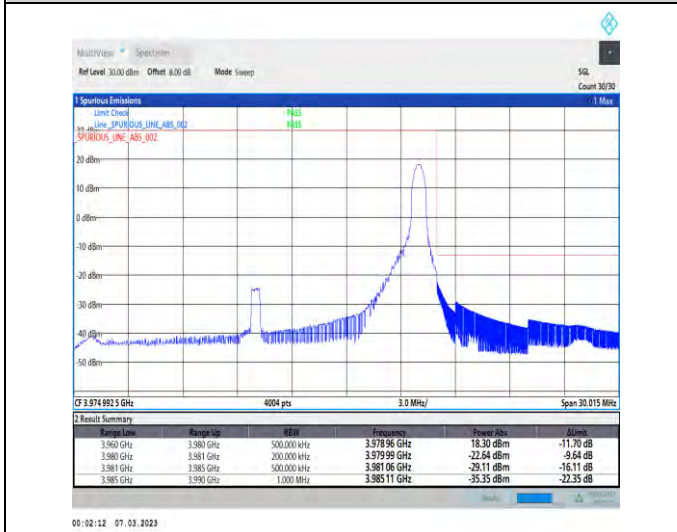
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1-N77-3700-3980-PC3-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@50-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant1-1--PASS-see graph

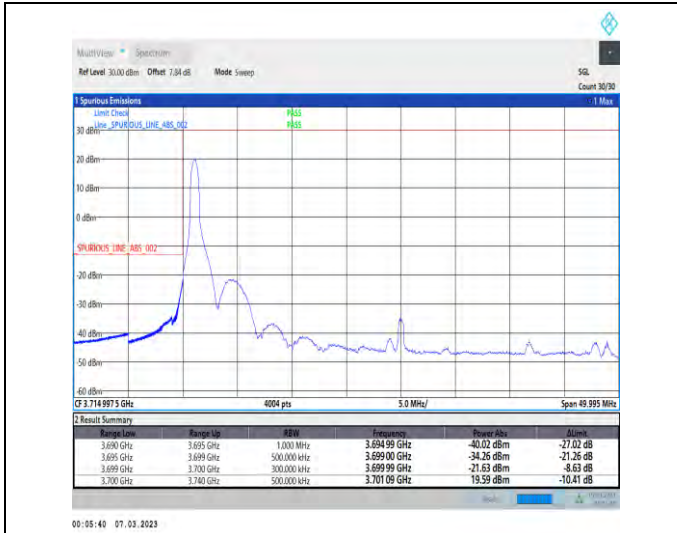


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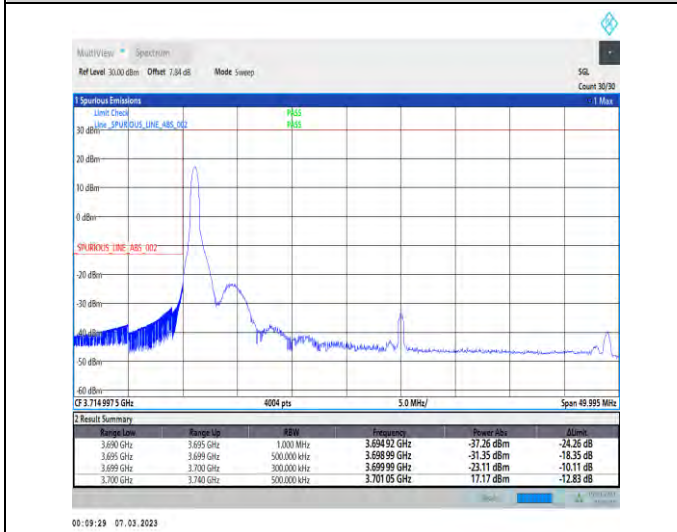
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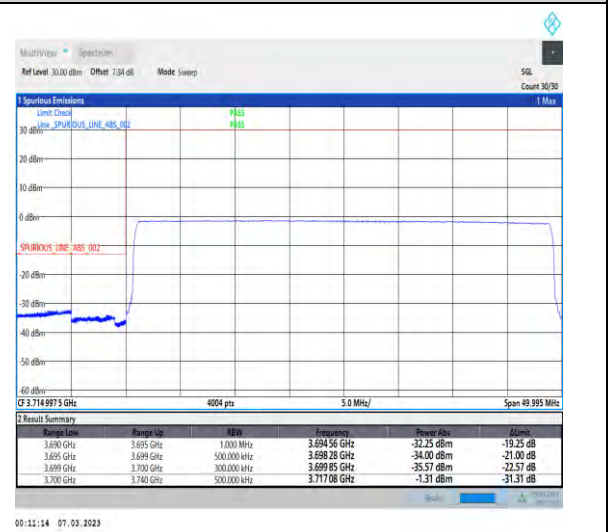
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1-N77-3700-3980-PC3-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant1-1--PASS-see graph



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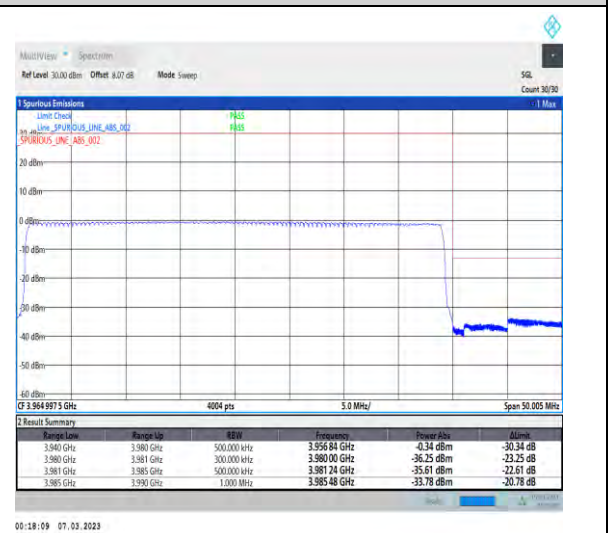
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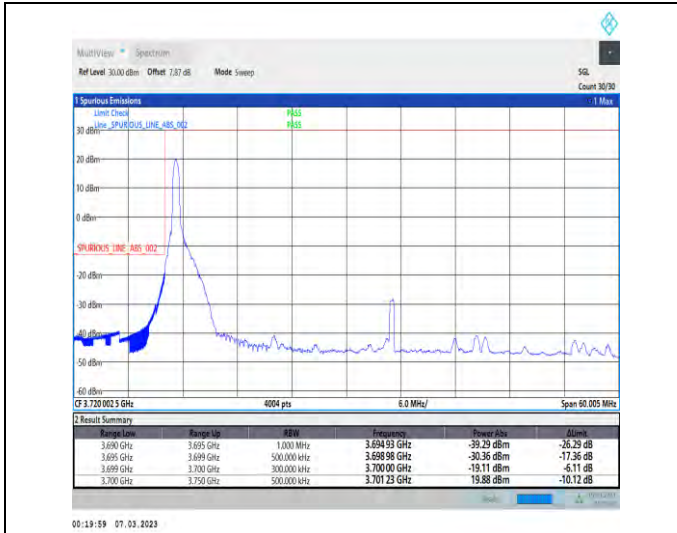


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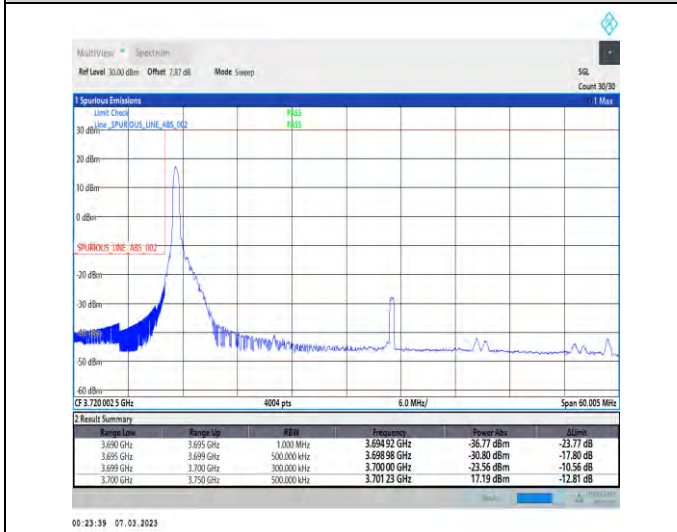




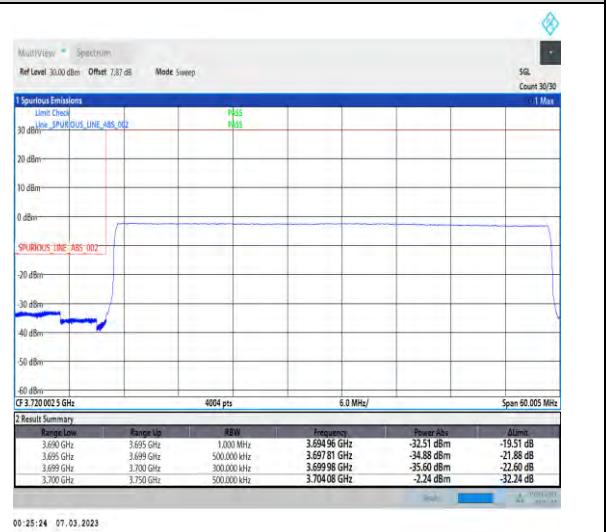
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1-N77-3700-3980-PC3-30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-50-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph

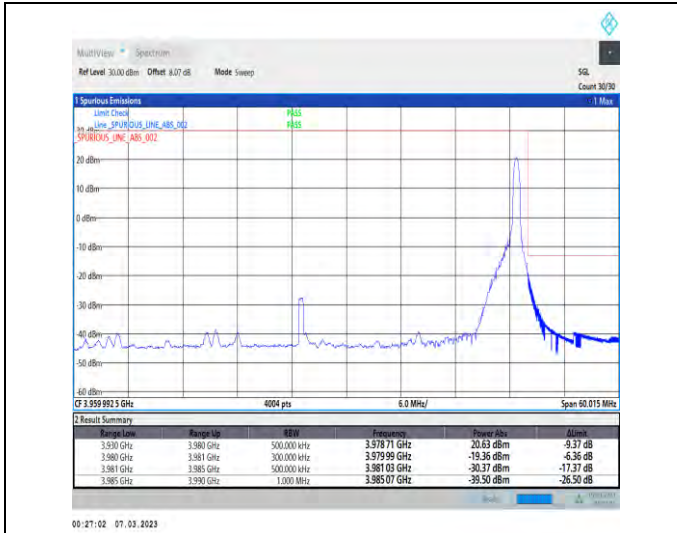


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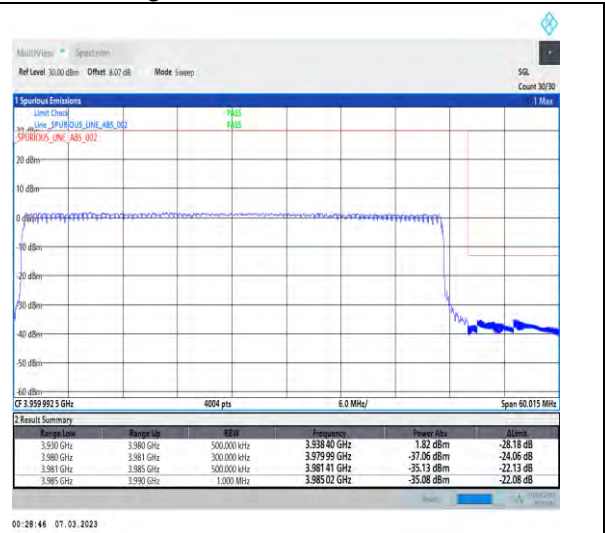
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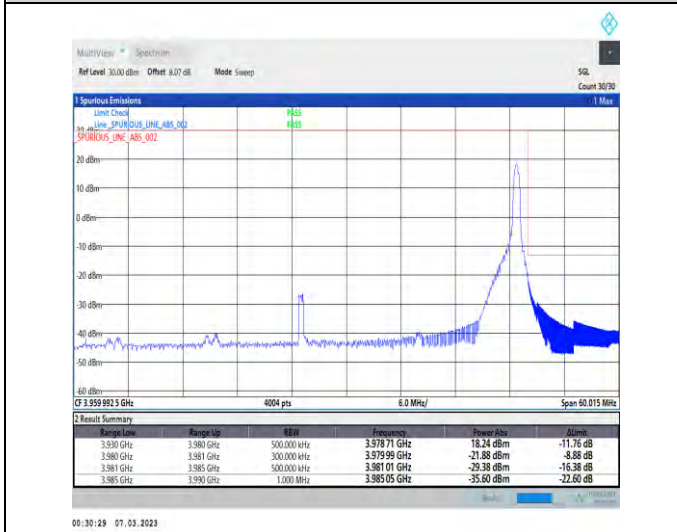
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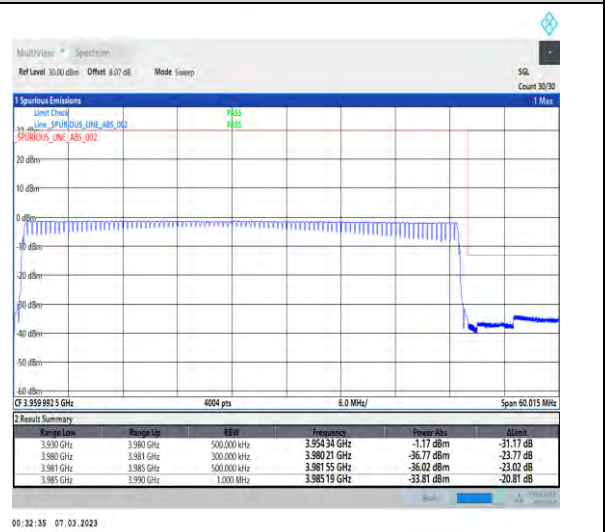
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1-N77-3700-3980-PC3-30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-50-H-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph

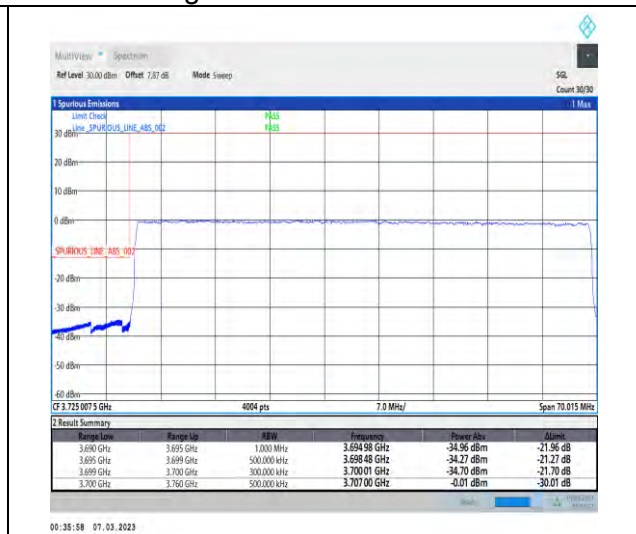


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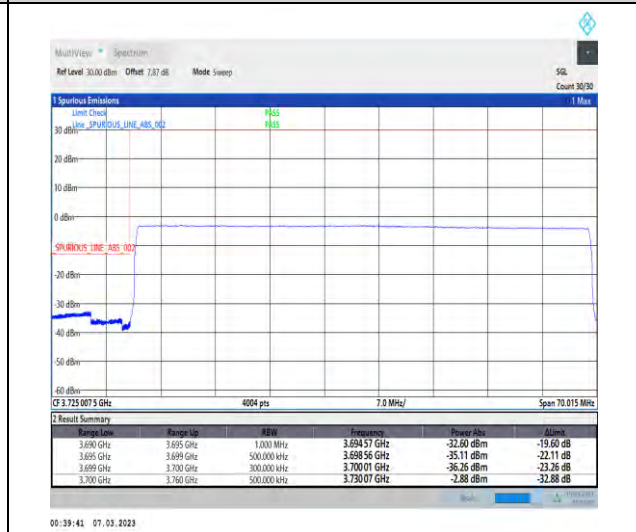
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1-N77-3700-3980-PC3-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

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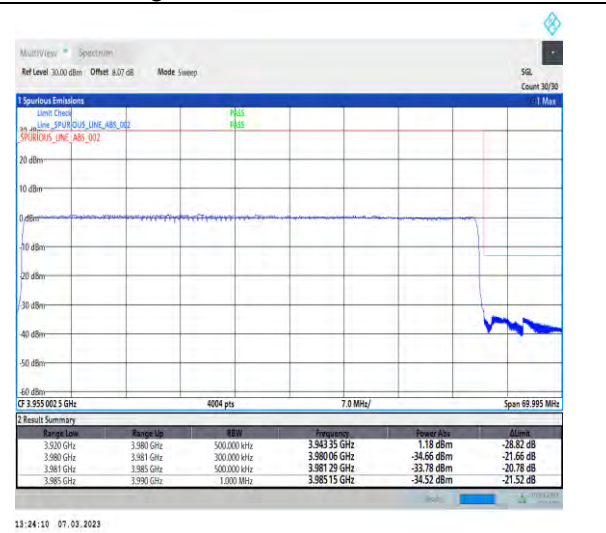
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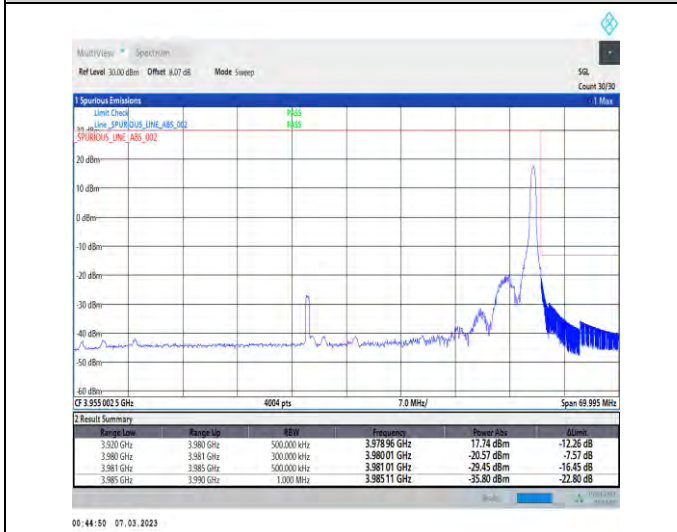




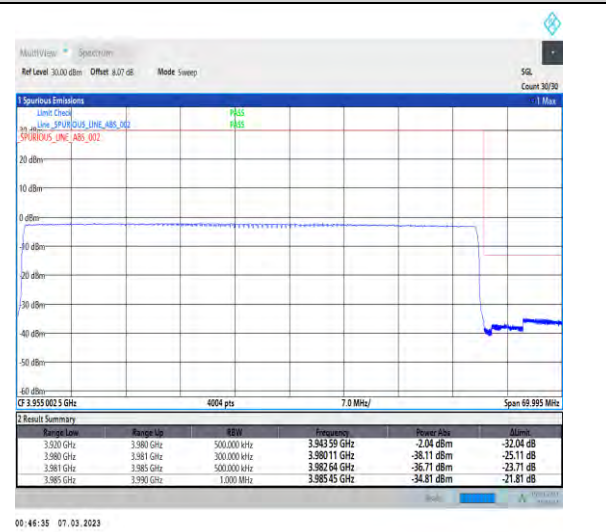
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1-N77-3700-3980-PC3-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph



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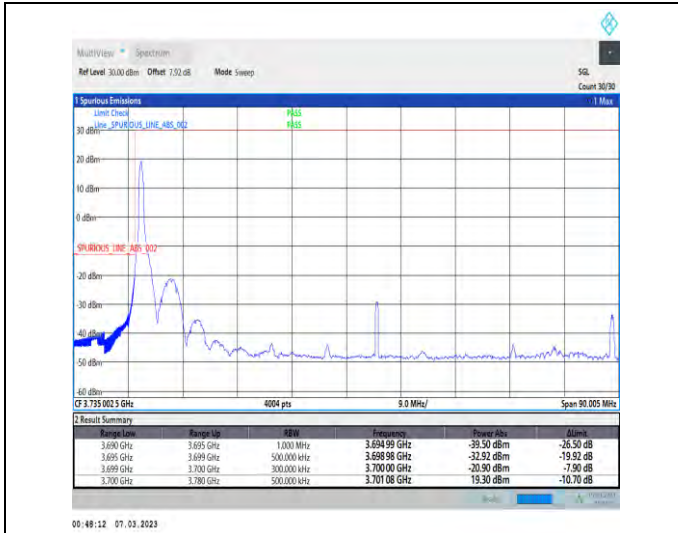


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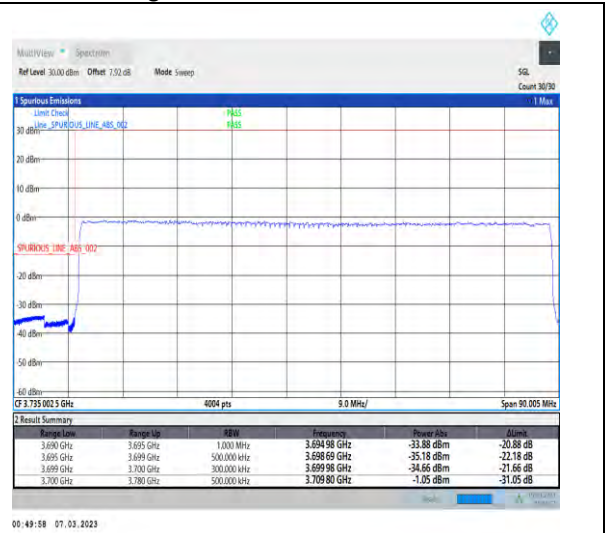
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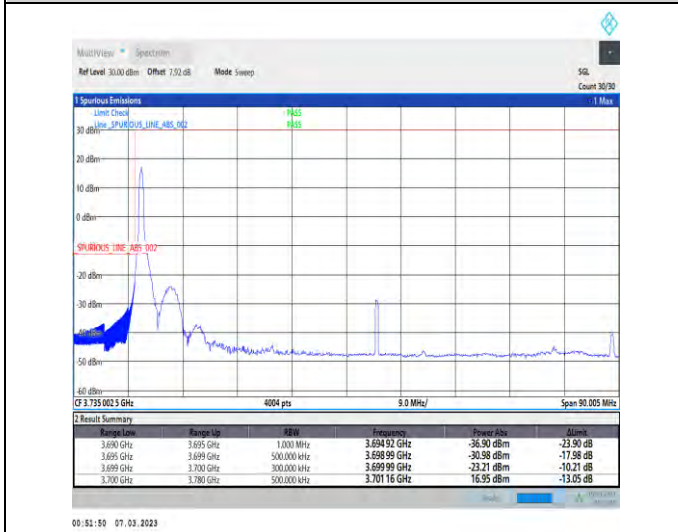
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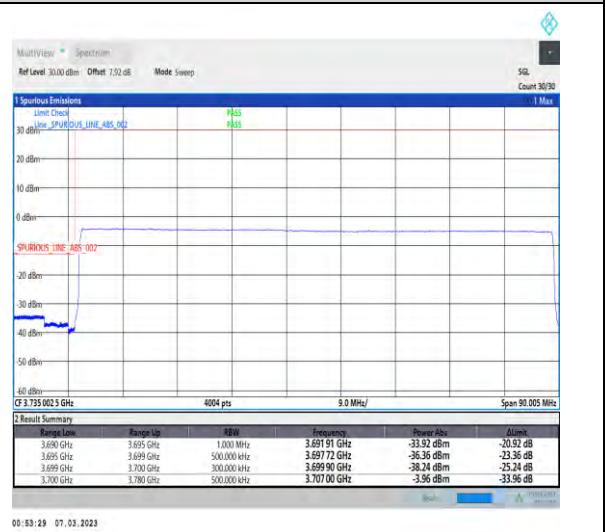
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1-N77-3700-3980-PC3-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph

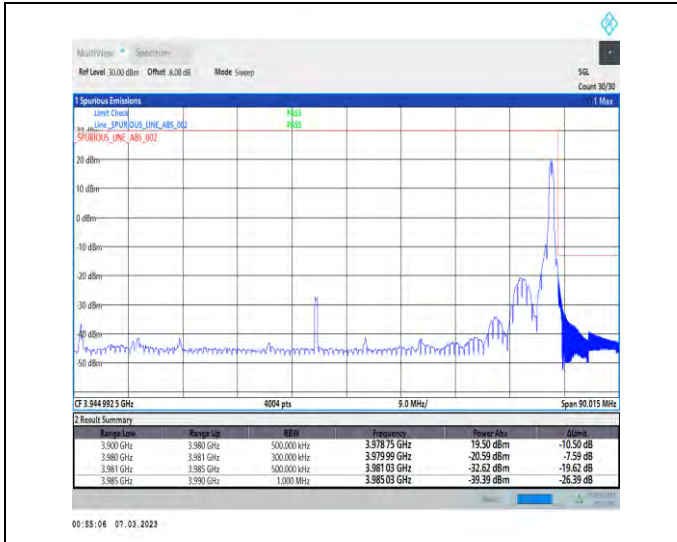


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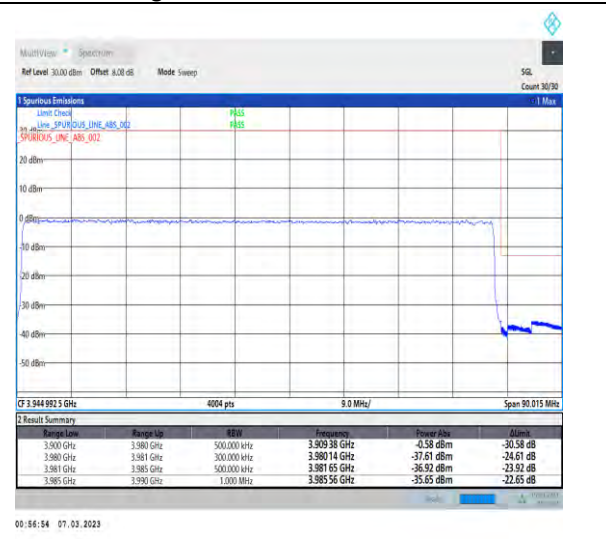
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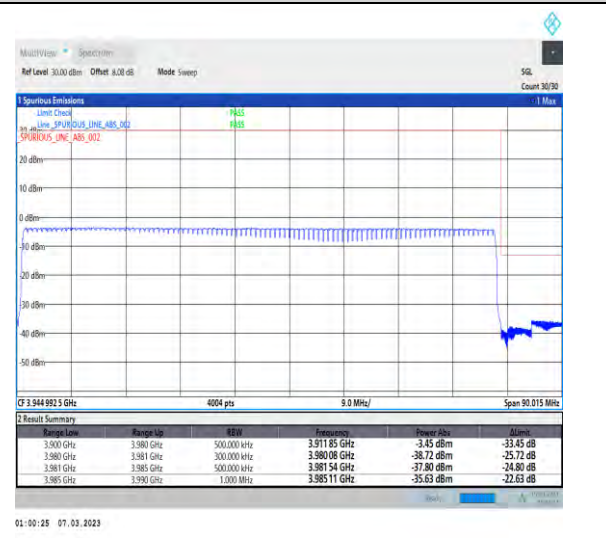
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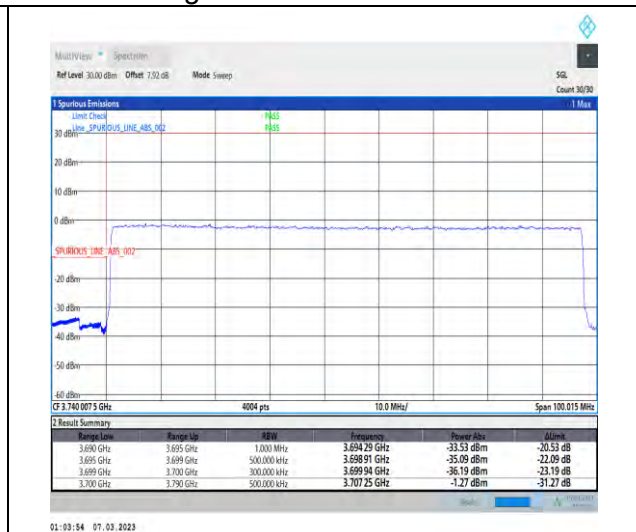


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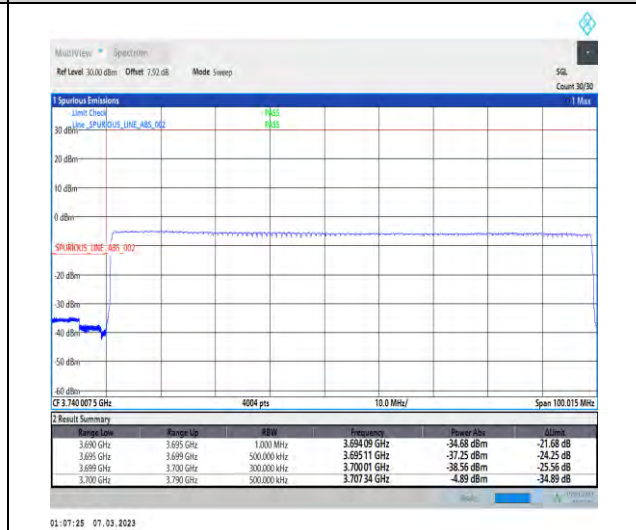
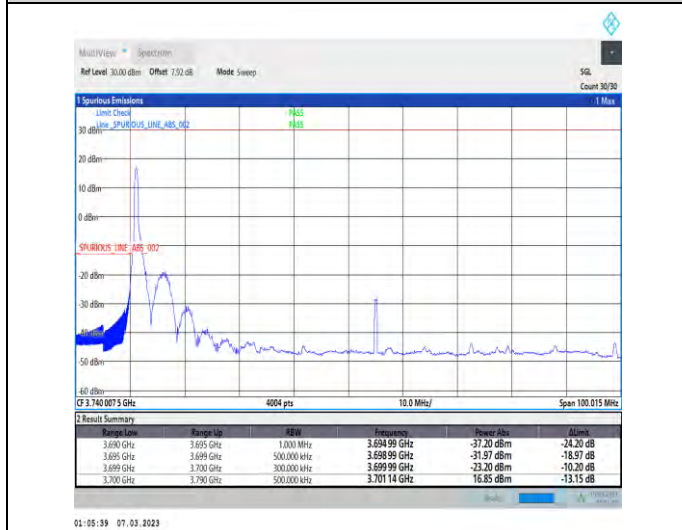
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1-N77-3700-3980-PC3-30-90-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

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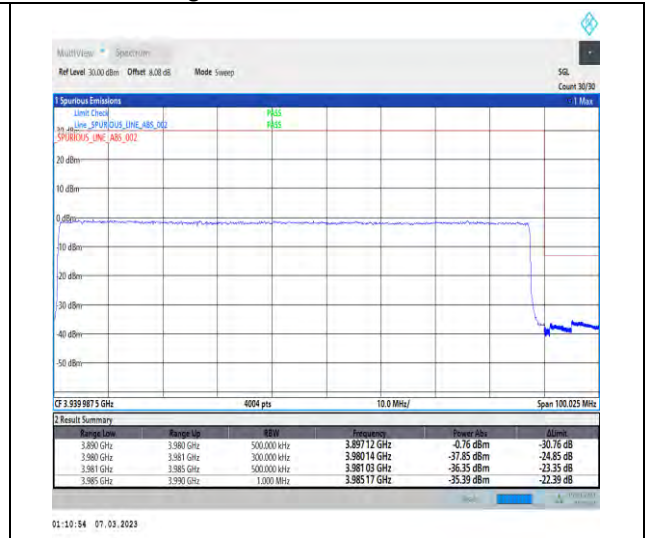
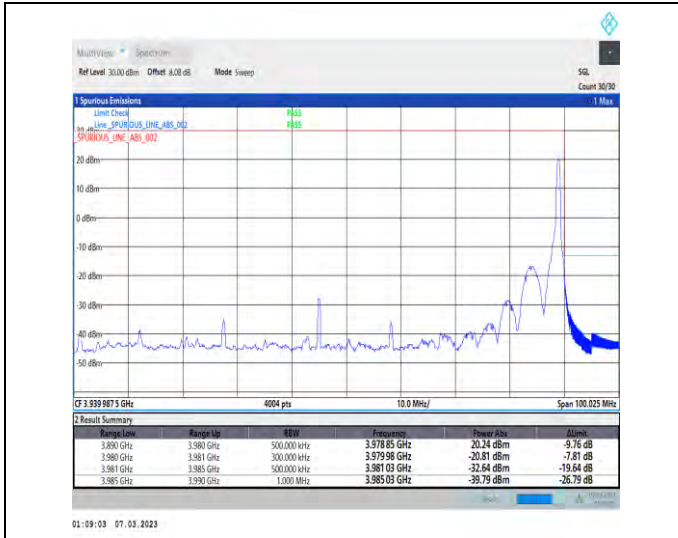


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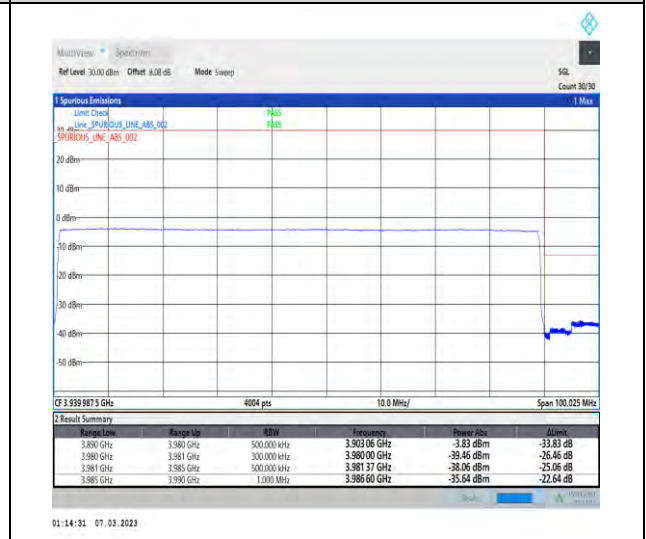
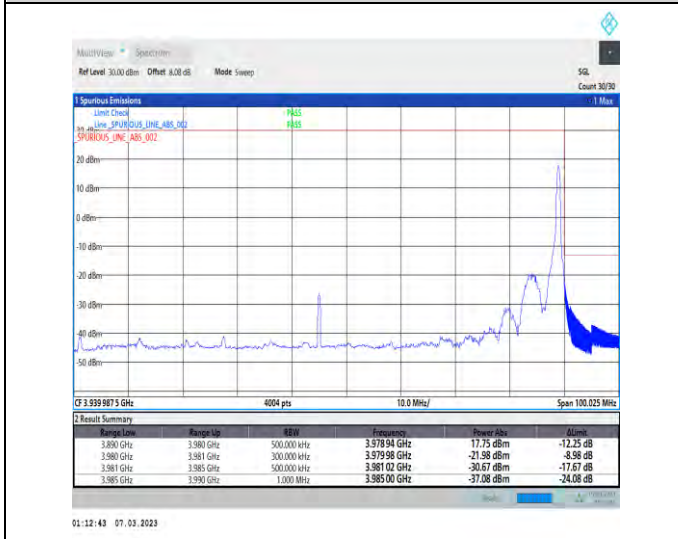


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1-N77-3700-3980-PC3-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-1--PASS-see graph

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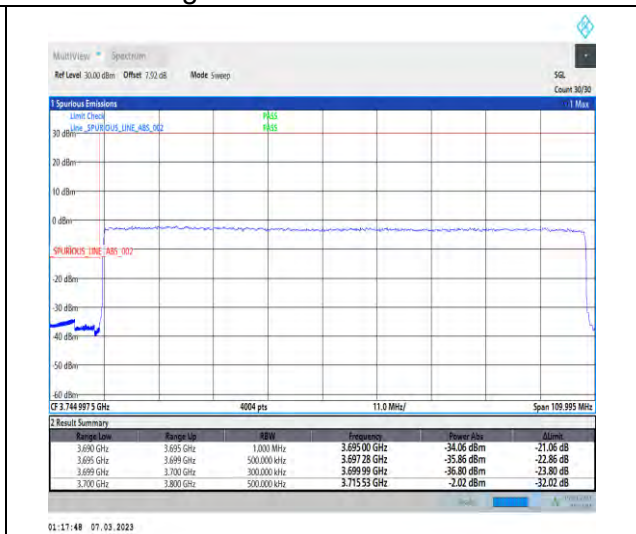
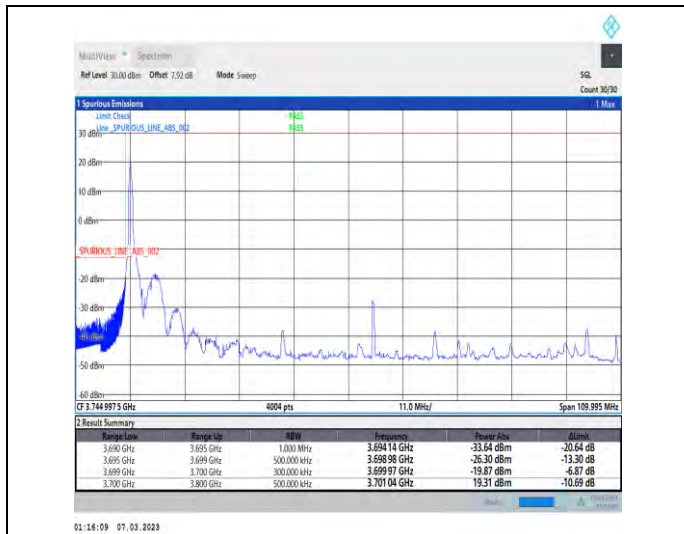


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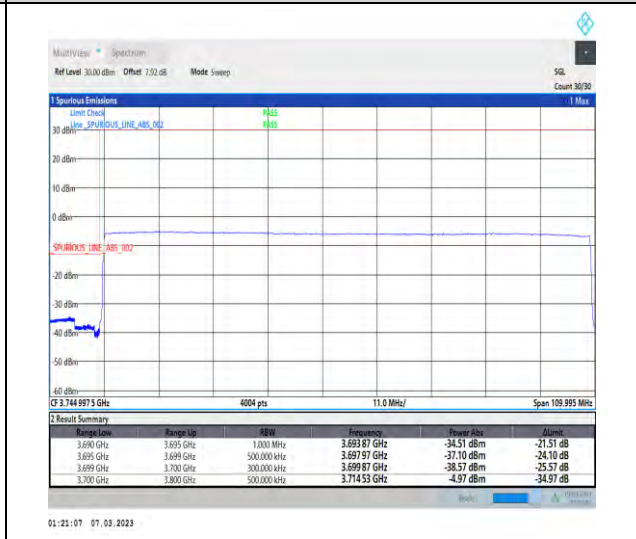
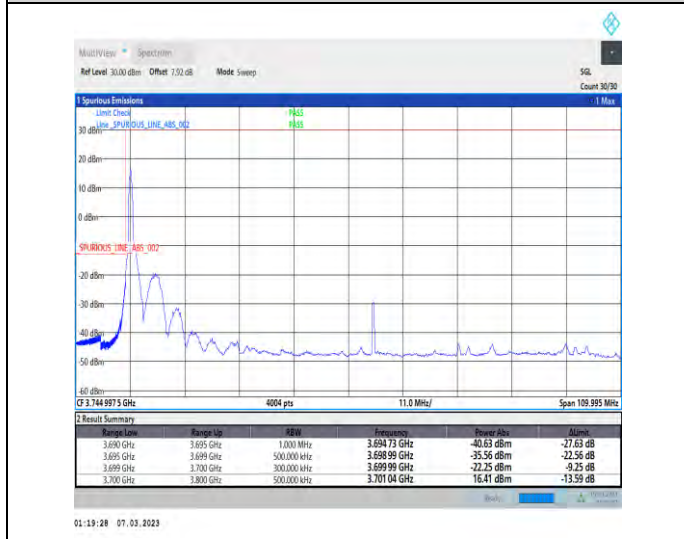
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1-N77-3700-3980-PC3-30-100-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

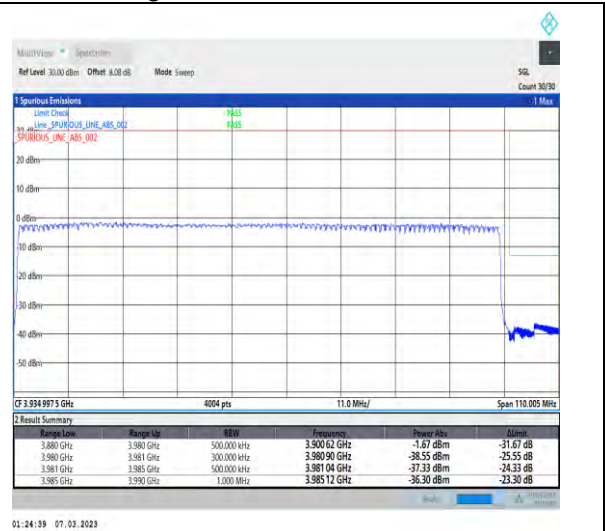
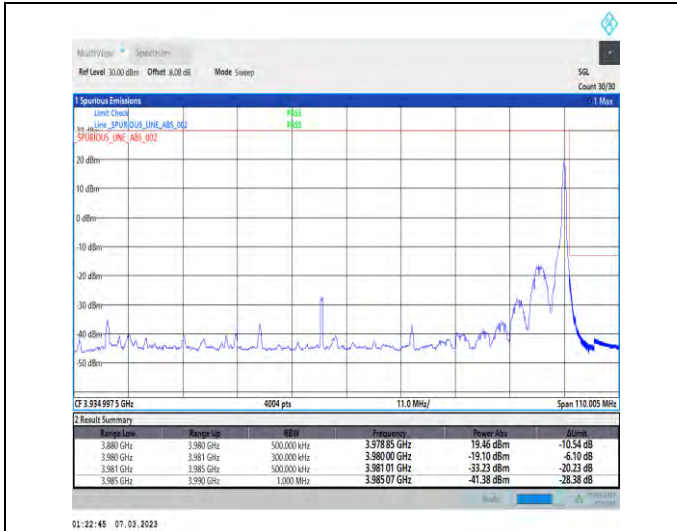
1-N77-3700-3980-PC3-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

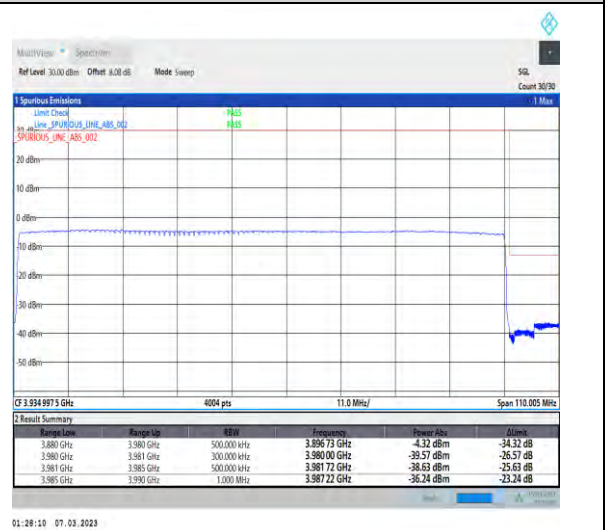
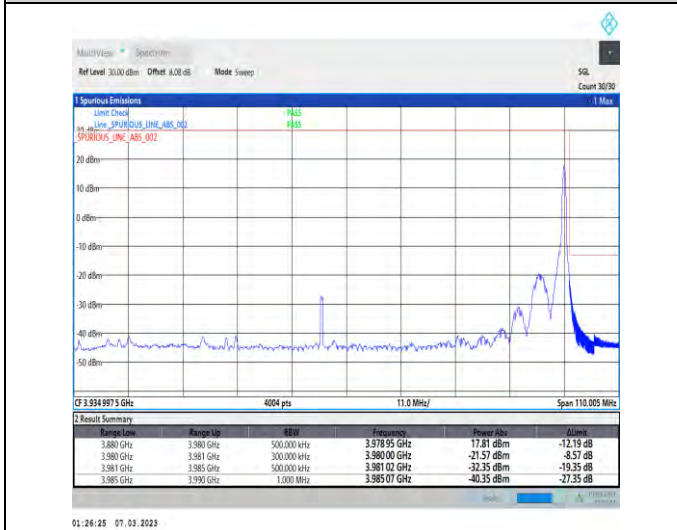
1-N77-3700-3980-PC3-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph





1-N77-3700-3980-PC3-30-100-H-2-DFT-PI2BPSK-Edge_1_RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980-PC3-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-100-H-5-CP-QPSK-Edge_1_RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980-PC3-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph

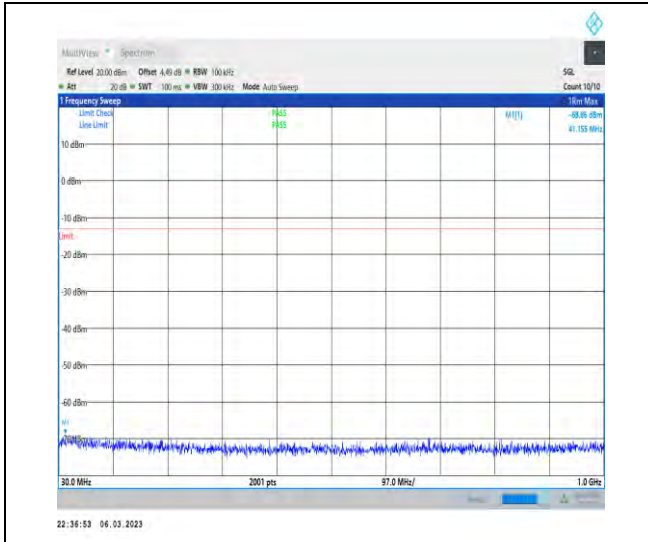


Conducted Spurious Emission for SA

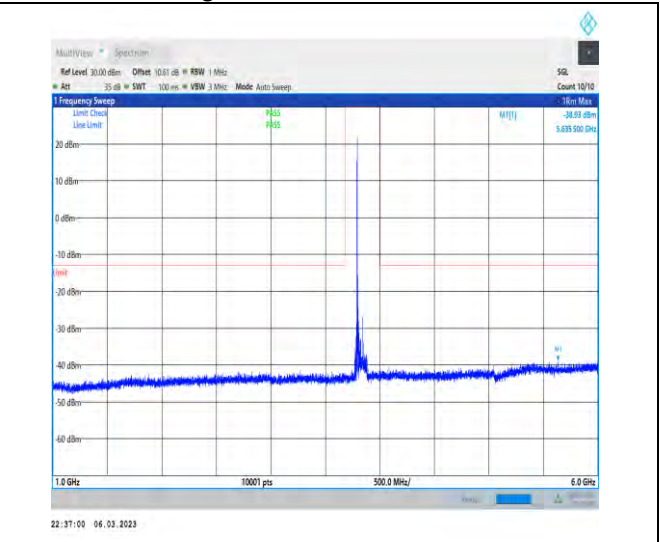
Test Graphs

<p>1-N77-3700-3980-PC3-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.02--80.41--43-PASS</p>	<p>1-N77-3700-3980-PC3-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-29.61--86.36--33-PASS</p>
<p>1-N77-3700-3980-PC3-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-43.10--68.94--13-PASS</p>	<p>1-N77-3700-3980-PC3-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5443.50--39.05--13-PASS</p>

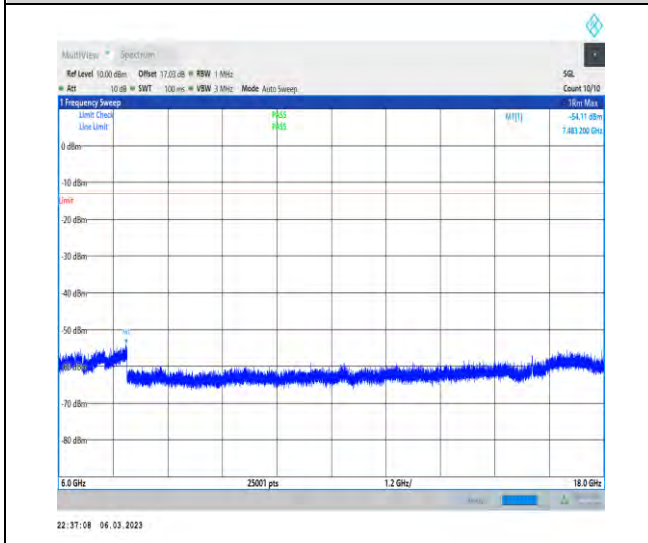




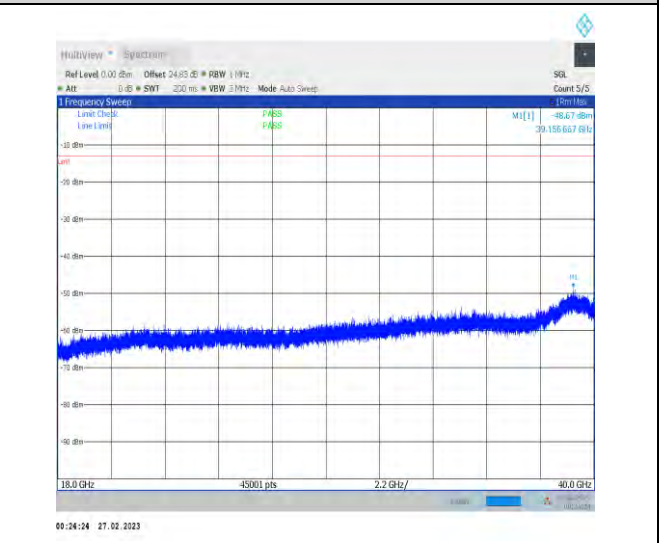
1-N77-3700-3980-PC3-30-100-M-1-DFT-PI2BPSK-
nner_1RB_Left-1@1-30-1000-Ant1-41.16--68.86--1
3-PASS



1-N77-3700-3980-PC3-30-100-M-1-DFT-PI2BPSK-In
ner_1RB_Left-1@1-1000-6000-Ant1-5635.50--38.93-
-13-PASS

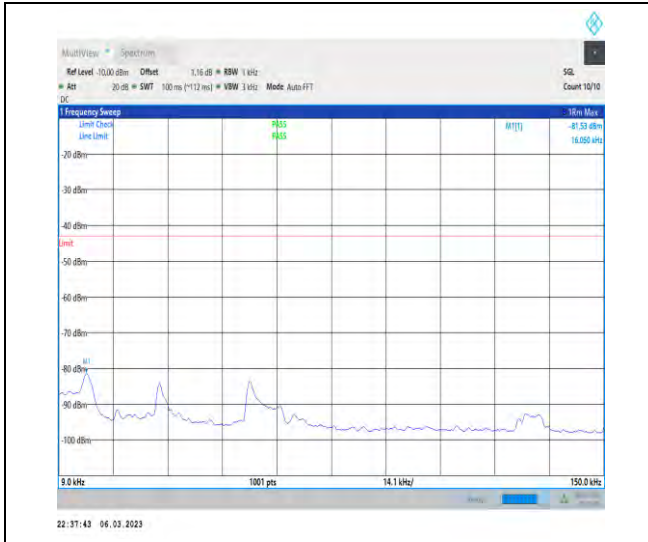


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nner_1RB_Left-1@1-6000-18000-Ant1-7483.20--54.
11--13-PASS

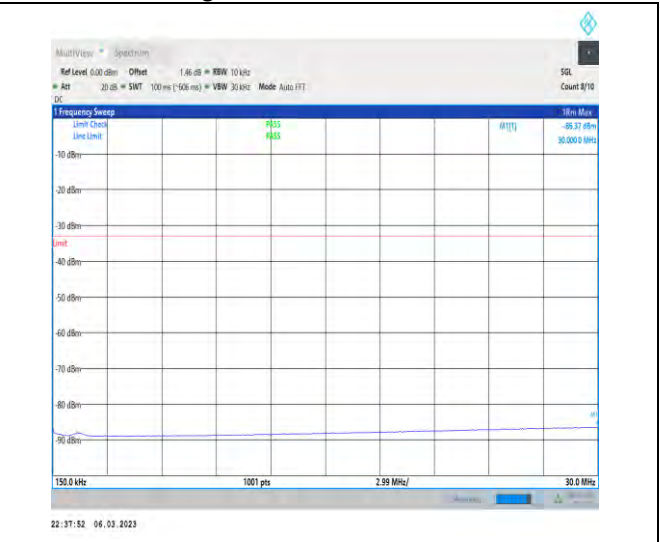


1-N77-3700-3980-PC3-30-100-M-1-DFT-PI2BPSK-In
ner_1RB_Left-1@1-18000-40000-Ant1-18000.00--57.
16--13-PASS

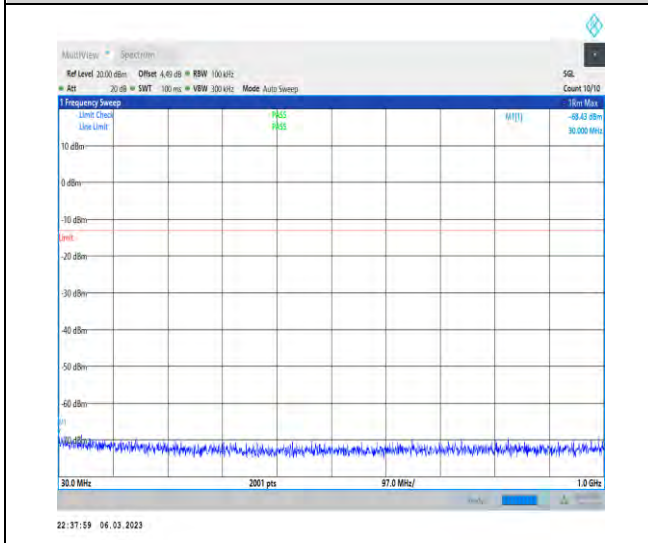




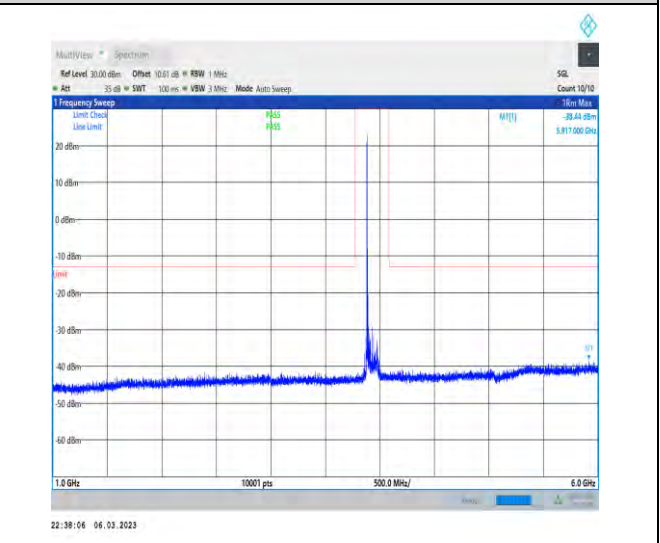
1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.02--81.53--43-PASS



1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-30.00--86.37--33-PASS



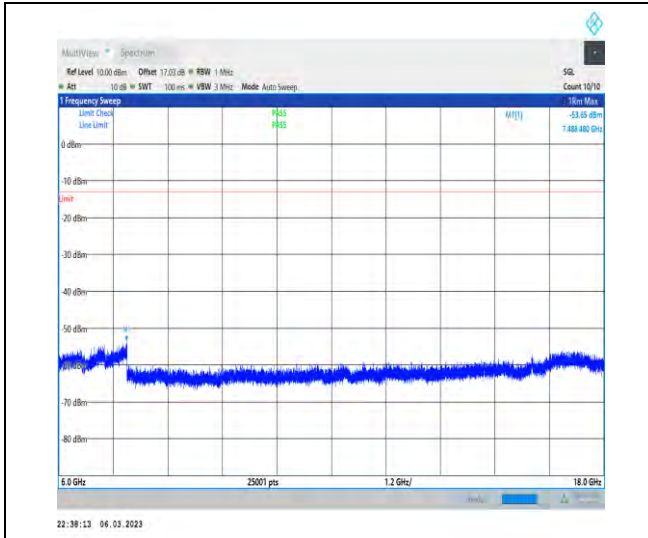
1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-30.00--68.43--13-PASS



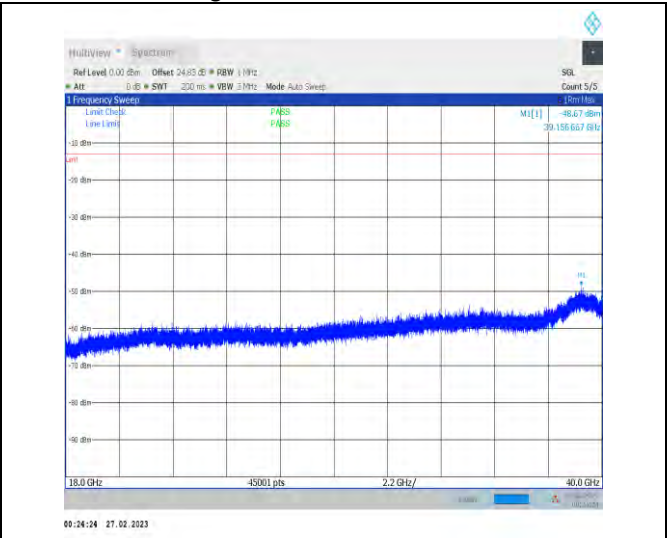
1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5917.00--38.44--13-PASS



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1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-I
 nner_1RB_Left-1@1-6000-18000-Ant1-7488.48--53.
 65--13-PASS



1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-In
 nner_1RB_Left-1@1-18000-40000-Ant1-18000.00--57.
 91--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 77 3700M-3980M_100MHz_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	58.97	-43.04	33.87	-45.45	-13.00	32.45	263	222	Horizontal
2	7310.18	48.18	-41.76	36.39	-52.45	-13.00	39.45	254	359	Horizontal
3	9831	57.48	-37.07	38.52	-36.34	-13.00	23.34	175	360	Horizontal
4	10965.27	42.01	-35.62	39.56	-49.31	-13.00	36.31	284	122	Horizontal
5	14620.36	41.42	-34.13	39.58	-48.39	-13.00	35.39	145	242	Horizontal
6	17694.3333	47.06	-31.10	41.38	-37.92	-13.00	24.92	265	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	48.60	-41.76	36.39	-52.03	-13.00	39.03	263	3	Vertical
2	9831	59.60	-37.07	38.52	-34.22	-13.00	21.22	254	122	Vertical
3	11000	45.91	-35.69	39.60	-45.44	-13.00	32.44	174	51	Vertical
4	11796.8333	55.83	-35.41	38.80	-36.04	-13.00	23.04	255	233	Vertical
5	14746.1667	47.85	-34.20	39.45	-42.15	-13.00	29.15	265	165	Vertical
6	17867	42.15	-31.08	42.07	-42.12	-13.00	29.12	241	141	Vertical



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Test Band = SA Band 77 3700M-3980M_100MHz_TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	58.98	-43.04	33.87	-45.44	-13.00	32.44	142	53	Horizontal
2	7590.18	48.92	-41.27	36.68	-50.93	-13.00	37.93	263	12	Horizontal
3	9831	57.37	-37.07	38.52	-36.45	-13.00	23.45	251	143	Horizontal
4	11796.8333	50.67	-35.41	38.80	-41.20	-13.00	28.20	142	204	Horizontal
5	15180.36	41.56	-33.61	38.96	-48.35	-13.00	35.35	254	234	Horizontal
6	17694.3333	47.95	-31.10	41.38	-37.03	-13.00	24.03	175	356	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	6758	55.99	-42.32	35.72	-45.88	-13.00	32.88	263	62	Vertical
2	7582.8333	53.49	-41.30	36.67	-46.40	-13.00	33.40	251	31	Vertical
3	9831	58.49	-37.07	38.52	-35.33	-13.00	22.33	144	144	Vertical
4	11796.8333	55.01	-35.41	38.80	-36.86	-13.00	23.86	185	31	Vertical
5	14746.1667	48.20	-34.20	39.45	-41.80	-13.00	28.80	265	163	Vertical
6	17694.3333	43.14	-31.10	41.38	-41.84	-13.00	28.84	241	174	Vertical



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Test Band = SA Band 77 3700M-3980M_100MHz_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	58.52	-43.04	33.87	-45.90	-13.00	32.90	142	242	Horizontal
2	7861.6667	52.43	-40.77	37.22	-46.38	-13.00	33.38	263	212	Horizontal
3	9829.8333	56.55	-37.07	38.52	-37.26	-13.00	24.26	251	360	Horizontal
4	11796.8333	50.57	-35.41	38.80	-41.30	-13.00	28.30	144	295	Horizontal
5	15740.36	43.68	-33.70	38.24	-47.05	-13.00	34.05	175	261	Horizontal
6	17694.3333	47.03	-31.10	41.38	-37.95	-13.00	24.95	263	334	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.18	46.48	-40.75	37.24	-52.29	-13.00	39.29	261	3	Vertical
2	9831	58.19	-37.07	38.52	-35.63	-13.00	22.63	142	132	Vertical
3	11796.8333	54.46	-35.41	38.80	-37.41	-13.00	24.41	252	43	Vertical
4	14746.1667	49.62	-34.20	39.45	-40.38	-13.00	27.38	241	266	Vertical
5	15740.36	42.21	-33.70	38.24	-48.52	-13.00	35.52	175	32	Vertical
6	17694.3333	44.11	-31.10	41.38	-40.87	-13.00	27.87	255	360	Vertical



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Test Band = NSA_2A-n77 3700M-3980M _ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9559.9583	38.03	-37.91	38.54	-56.59	-13.00	43.59	265	288	Horizontal
2	13593.5833	34.70	-34.38	39.96	-54.99	-13.00	41.99	284	196	Horizontal
3	17833.7292	32.95	-30.98	41.93	-51.36	-13.00	38.36	142	213	Horizontal
4	7482.18	39.14	-41.66	36.49	-61.29	-13.00	48.29	263	13	Horizontal
5	11223.27	33.34	-35.10	39.38	-57.64	-13.00	44.64	221	213	Horizontal
6	14964.36	31.88	-34.32	39.24	-58.46	-13.00	45.46	142	82	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	9574.3333	38.05	-37.86	38.54	-56.53	-13.00	43.53	241	16	Vertical
2	13573.9375	34.55	-34.30	39.94	-55.06	-13.00	42.06	174	326	Vertical
3	17840.9167	32.72	-31.00	41.96	-51.58	-13.00	38.58	142	0	Vertical
4	7482.18	39.67	-41.66	36.49	-60.76	-13.00	47.76	263	271	Vertical
5	11223.27	33.45	-35.10	39.38	-57.53	-13.00	44.53	225	0	Vertical
6	14964.36	32.05	-34.32	39.24	-58.29	-13.00	45.29	284	271	Vertical



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Test Band = NSA_2A-n77 3700M-3980M _ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9581.5208	38.30	-37.84	38.54	-56.26	-13.00	43.26	265	33	Horizontal
2	13681.75	35.09	-34.80	40.01	-54.96	-13.00	41.96	284	252	Horizontal
3	17871.5833	33.06	-31.09	42.09	-51.21	-13.00	38.21	142	0	Horizontal
4	7590.18	38.26	-41.27	36.68	-61.59	-13.00	48.59	263	1	Horizontal
5	11835.27	32.72	-35.25	38.76	-59.02	-13.00	46.02	225	233	Horizontal
6	15180.36	31.37	-33.62	38.97	-58.54	-13.00	45.54	144	197	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	9595.8958	38.29	-37.79	38.54	-56.22	-13.00	43.22	102	252	Vertical
2	13645.3333	35.53	-34.63	39.99	-54.37	-13.00	41.37	265	123	Vertical
3	17834.6875	32.45	-30.98	41.94	-51.86	-13.00	38.86	284	0	Vertical
4	7590.18	38.24	-41.27	36.68	-61.61	-13.00	48.61	142	102	Vertical
5	11835.27	32.89	-35.25	38.76	-58.85	-13.00	45.85	263	158	Vertical
6	15180.36	30.97	-33.62	38.97	-58.94	-13.00	45.94	228	216	Vertical



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Test Band = NSA_2A-n77 3700M-3980M _ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10207.7917	37.04	-36.62	38.73	-56.11	-13.00	43.11	265	44	Horizontal
2	13586.875	34.72	-34.35	39.95	-54.94	-13.00	41.94	284	11	Horizontal
3	17922.375	32.91	-31.21	42.29	-51.27	-13.00	38.27	142	25	Horizontal
4	7770.18	38.78	-41.00	37.04	-60.44	-13.00	47.44	263	44	Horizontal
5	11655.27	31.54	-35.22	38.94	-59.99	-13.00	46.99	225	251	Horizontal
6	15540.36	30.76	-33.41	38.50	-59.41	-13.00	46.41	142	64	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	9593.9792	38.43	-37.80	38.54	-56.09	-13.00	43.09	251	48	Vertical
2	13594.5417	34.43	-34.39	39.96	-55.26	-13.00	42.26	142	139	Vertical
3	17832.7708	33.10	-30.98	41.93	-51.21	-13.00	38.21	265	267	Vertical
4	7770.18	38.32	-41.00	37.04	-60.90	-13.00	47.90	284	139	Vertical
5	11655.27	31.19	-35.22	38.94	-60.34	-13.00	47.34	142	120	Vertical
6	15540.36	31.22	-33.41	38.50	-58.95	-13.00	45.95	263	65	Vertical



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Test Band = NSA_5A-n77 3700M-3980M _ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9518.75	38.39	-38.04	38.55	-56.36	-13.00	43.36	296	5	Horizontal
2	13598.375	34.91	-34.40	39.96	-54.79	-13.00	41.79	265	14	Horizontal
3	17612.3542	31.93	-31.79	41.05	-54.07	-13.00	41.07	241	196	Horizontal
4	7482.18	38.65	-41.66	36.49	-61.78	-13.00	48.78	145	14	Horizontal
5	11223.27	32.67	-35.10	39.38	-58.31	-13.00	45.31	263	121	Horizontal
6	14964.36	31.38	-34.32	39.24	-58.96	-13.00	45.96	228	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	9432.5	37.95	-37.80	38.56	-56.55	-13.00	43.55	254	161	Vertical
2	13579.6875	34.73	-34.32	39.95	-54.90	-13.00	41.90	174	70	Vertical
3	17850.9792	32.49	-31.03	42.00	-51.80	-13.00	38.80	142	343	Vertical
4	7482.18	39.88	-41.66	36.49	-60.55	-13.00	47.55	263	161	Vertical
5	11223.27	33.64	-35.10	39.38	-57.34	-13.00	44.34	225	0	Vertical
6	14964.36	31.07	-34.32	39.24	-59.27	-13.00	46.27	175	178	Vertical



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Test Band = NSA_5A-n77 3700M-3980M _ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9452.625	37.32	-37.89	38.55	-57.27	-13.00	44.27	285	157	Horizontal
2	13607.4792	34.90	-34.45	39.96	-54.84	-13.00	41.84	241	288	Horizontal
3	17935.7917	32.44	-31.23	42.34	-51.70	-13.00	38.70	142	249	Horizontal
4	7590.18	37.49	-41.27	36.68	-62.36	-13.00	49.36	263	102	Horizontal
5	11835.27	32.20	-35.25	38.76	-59.54	-13.00	46.54	225	288	Horizontal
6	15180.36	30.79	-33.62	38.97	-59.12	-13.00	46.12	287	3	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	9628	38.07	-37.74	38.54	-56.40	-13.00	43.40	254	289	Vertical
2	13595.0208	35.56	-34.39	39.96	-54.13	-13.00	41.13	142	123	Vertical
3	17999.5208	32.76	-31.31	42.60	-51.21	-13.00	38.21	265	104	Vertical
4	7590.18	37.75	-41.27	36.68	-62.10	-13.00	49.10	284	1	Vertical
5	11835.27	33.15	-35.25	38.76	-58.59	-13.00	45.59	254	249	Vertical
6	15180.36	31.17	-33.62	38.97	-58.74	-13.00	45.74	142	5	Vertical



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Test Band = NSA_5A-n77 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9609.7917	38.07	-37.77	38.54	-56.42	-13.00	43.42	254	29	Horizontal
2	13587.3542	34.61	-34.35	39.95	-55.05	-13.00	42.05	142	5	Horizontal
3	17944.4167	32.31	-31.24	42.38	-51.81	-13.00	38.81	265	236	Horizontal
4	7770.18	39.20	-41.00	37.04	-60.02	-13.00	47.02	285	0	Horizontal
5	11655.27	31.03	-35.22	38.94	-60.50	-13.00	47.50	263	218	Horizontal
6	15540.36	31.08	-33.41	38.50	-59.09	-13.00	46.09	324	343	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	9550.8542	38.03	-37.94	38.54	-56.62	-13.00	43.62	241	125	Vertical
2	13589.2708	34.63	-34.36	39.95	-55.04	-13.00	42.04	142	6	Vertical
3	17946.3333	32.51	-31.24	42.39	-51.60	-13.00	38.60	252	2	Vertical
4	7770.18	38.53	-41.00	37.04	-60.69	-13.00	47.69	263	0	Vertical
5	11655.27	31.11	-35.22	38.94	-60.42	-13.00	47.42	285	343	Vertical
6	15540.36	32.05	-33.41	38.50	-58.12	-13.00	45.12	227	198	Vertical



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Test Band = NSA_12A-n77 3700M-3980M _ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8938	38.54	-38.84	38.53	-57.02	-13.00	44.02	285	213	Horizontal
2	13592.625	35.09	-34.38	39.96	-54.59	-13.00	41.59	241	0	Horizontal
3	17942.0208	32.81	-31.23	42.37	-51.32	-13.00	38.32	142	158	Horizontal
4	7482.18	39.31	-41.66	36.49	-61.12	-13.00	48.12	263	142	Horizontal
5	11223.27	33.61	-35.10	39.38	-57.37	-13.00	44.37	228	2	Horizontal
6	14964.36	31.85	-34.32	39.24	-58.49	-13.00	45.49	205	51	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	9569.5417	38.29	-37.88	38.54	-56.30	-13.00	43.30	142	87	Vertical
2	13600.2917	35.17	-34.41	39.96	-54.54	-13.00	41.54	265	253	Vertical
3	17874.9375	32.98	-31.10	42.10	-51.29	-13.00	38.29	284	106	Vertical
4	7482.18	39.61	-41.66	36.49	-60.82	-13.00	47.82	142	160	Vertical
5	11223.27	32.79	-35.10	39.38	-58.19	-13.00	45.19	263	87	Vertical
6	14964.36	31.97	-34.32	39.24	-58.37	-13.00	45.37	228	32	Vertical



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Test Band = NSA_12A-n77 3700M-3980M _ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9567.1458	38.09	-37.89	38.54	-56.51	-13.00	43.51	296	307	Horizontal
2	13470.4375	34.63	-34.26	39.88	-55.01	-13.00	42.01	265	343	Horizontal
3	17834.2083	33.25	-30.98	41.94	-51.06	-13.00	38.06	241	139	Horizontal
4	7590.18	38.91	-41.27	36.68	-60.94	-13.00	47.94	254	357	Horizontal
5	11835.27	32.59	-35.25	38.76	-59.15	-13.00	46.15	142	326	Horizontal
6	15180.36	30.87	-33.62	38.97	-59.04	-13.00	46.04	263	288	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	9437.2917	37.96	-37.82	38.56	-56.56	-13.00	43.56	241	46	Vertical
2	13583.0417	34.47	-34.34	39.95	-55.18	-13.00	42.18	185	307	Vertical
3	17675.6042	32.21	-31.25	41.30	-53.00	-13.00	40.00	263	343	Vertical
4	7590.18	38.40	-41.27	36.68	-61.45	-13.00	48.45	265	270	Vertical
5	11835.27	32.46	-35.25	38.76	-59.28	-13.00	46.28	241	212	Vertical
6	15180.36	31.68	-33.62	38.97	-58.23	-13.00	45.23	148	270	Vertical



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Test Band = NSA_12A-n77 3700M-3980M _ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9567.625	38.25	-37.88	38.54	-56.35	-13.00	43.35	285	28	Horizontal
2	13590.7083	34.73	-34.37	39.95	-54.94	-13.00	41.94	241	5	Horizontal
3	17969.8125	32.85	-31.27	42.48	-51.20	-13.00	38.20	142	0	Horizontal
4	7770.18	38.72	-41.00	37.04	-60.50	-13.00	47.50	263	1	Horizontal
5	11655.27	32.06	-35.22	38.94	-59.47	-13.00	46.47	265	196	Horizontal
6	15540.36	31.23	-33.41	38.50	-58.94	-13.00	45.94	241	28	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	9422.4375	38.00	-37.75	38.56	-56.45	-13.00	43.45	196	0	Vertical
2	13609.875	34.87	-34.46	39.97	-54.88	-13.00	41.88	265	0	Vertical
3	17941.0625	32.83	-31.23	42.36	-51.30	-13.00	38.30	284	15	Vertical
4	7770.18	38.72	-41.00	37.04	-60.50	-13.00	47.50	142	357	Vertical
5	11655.27	32.21	-35.22	38.94	-59.32	-13.00	46.32	263	251	Vertical
6	15540.36	31.28	-33.41	38.50	-58.89	-13.00	45.89	221	180	Vertical



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Test Band = NSA_66A-n77 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9564.2708	37.74	-37.89	38.54	-56.87	-13.00	43.87	285	65	Horizontal
2	13586.3958	34.66	-34.35	39.95	-55.00	-13.00	42.00	241	14	Horizontal
3	17847.1458	32.77	-31.02	41.99	-51.52	-13.00	38.52	142	272	Horizontal
4	7482.18	39.91	-41.66	36.49	-60.52	-13.00	47.52	263	272	Horizontal
5	11223.27	32.63	-35.10	39.38	-58.35	-13.00	45.35	221	0	Horizontal
6	14964.36	31.74	-34.32	39.24	-58.60	-13.00	45.60	155	46	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	9439.6875	37.84	-37.83	38.56	-56.69	-13.00	43.69	296	11	Vertical
2	13472.8333	34.78	-34.24	39.88	-54.84	-13.00	41.84	265	25	Vertical
3	17690.9375	32.22	-31.13	41.36	-52.80	-13.00	39.80	284	4	Vertical
4	7482.18	40.58	-41.66	36.49	-59.85	-13.00	46.85	142	176	Vertical
5	11223.27	32.56	-35.10	39.38	-58.42	-13.00	45.42	263	253	Vertical
6	14964.36	31.88	-34.32	39.24	-58.46	-13.00	45.46	224	25	Vertical



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Test Band = NSA_66A-n77 3700M-3980M _ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9433.9375	37.67	-37.80	38.56	-56.84	-13.00	43.84	296	47	Horizontal
2	13586.875	34.48	-34.35	39.95	-55.18	-13.00	42.18	265	121	Horizontal
3	17828.9375	33.16	-30.97	41.92	-51.15	-13.00	38.15	284	138	Horizontal
4	7590.18	37.66	-41.27	36.68	-62.19	-13.00	49.19	142	102	Horizontal
5	11835.27	32.95	-35.25	38.76	-58.79	-13.00	45.79	263	0	Horizontal
6	15180.36	30.35	-33.62	38.97	-59.56	-13.00	46.56	221	268	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	9330.4375	38.02	-38.16	38.57	-56.84	-13.00	43.84	185	1	Vertical
2	13608.4375	34.57	-34.45	39.97	-55.18	-13.00	42.18	265	45	Vertical
3	17948.25	33.01	-31.24	42.39	-51.10	-13.00	38.10	241	325	Vertical
4	7590.18	38.97	-41.27	36.68	-60.88	-13.00	47.88	142	343	Vertical
5	11835.27	32.35	-35.25	38.76	-59.39	-13.00	46.39	263	12	Vertical
6	15180.36	31.01	-33.62	38.97	-58.90	-13.00	45.90	228	268	Vertical



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Test Band = NSA_66A-n77 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9577.2083	38.17	-37.85	38.54	-56.40	-13.00	43.40	296	4	Horizontal
2	13584	34.43	-34.34	39.95	-55.22	-13.00	42.22	265	158	Horizontal
3	17930.5208	32.67	-31.22	42.32	-51.49	-13.00	38.49	284	1	Horizontal
4	7770.18	38.26	-41.00	37.04	-60.96	-13.00	47.96	142	324	Horizontal
5	11655.27	32.23	-35.22	38.94	-59.30	-13.00	46.30	263	44	Horizontal
6	15540.36	31.64	-33.41	38.50	-58.53	-13.00	45.53	221	44	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	9555.6458	38.16	-37.92	38.54	-56.48	-13.00	43.48	196	101	Vertical
2	13594.5417	34.43	-34.39	39.96	-55.26	-13.00	42.26	265	48	Vertical
3	17702.9167	31.93	-31.05	41.41	-52.96	-13.00	39.96	241	5	Vertical
4	7770.18	38.81	-41.00	37.04	-60.41	-13.00	47.41	142	5	Vertical
5	11655.27	31.67	-35.22	38.94	-59.86	-13.00	46.86	263	0	Vertical
6	15540.36	32.05	-33.41	38.50	-58.12	-13.00	45.12	285	139	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	2.300000	0.000599	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.000000	-0.000521	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.800000	-0.000469	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-1.600000	-0.000417	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-4.600000	-0.001198	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-2.300000	-0.000599	PASS



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Frequency Error VS. Temperature

Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.300000	-0.000599	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	6.900000	0.001797	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	2.100000	0.000547	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.800000	-0.000208	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	7.000000	0.001823	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.700000	-0.000964	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-2.300000	-0.000599	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	2.100000	0.000547	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-6.700000	-0.001745	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-0.200000	-0.000052	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-5.700000	-0.001484	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-4.100000	-0.001068	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	-6.200000	-0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-6.000000	-0.001563	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-8.500000	-0.002214	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-9.000000	-0.002344	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-8.500000	-0.002214	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-2.500000	-0.000651	PASS

---End of Attachment---



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