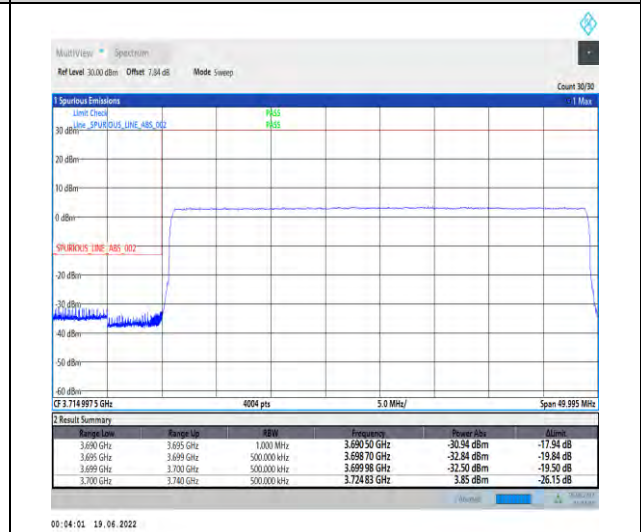
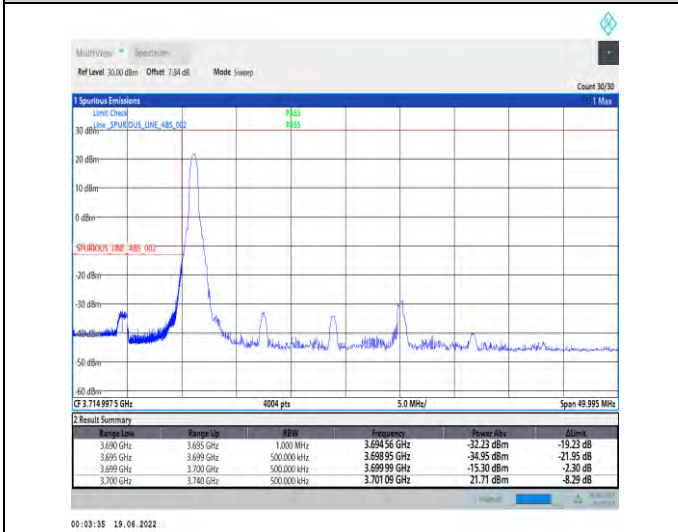


1-N77-3700-3980--30-40-L-1-DFT-PI2BPSK-Edge\_1R\_B\_Left-1@0-Ant1-PASS-see graph

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



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

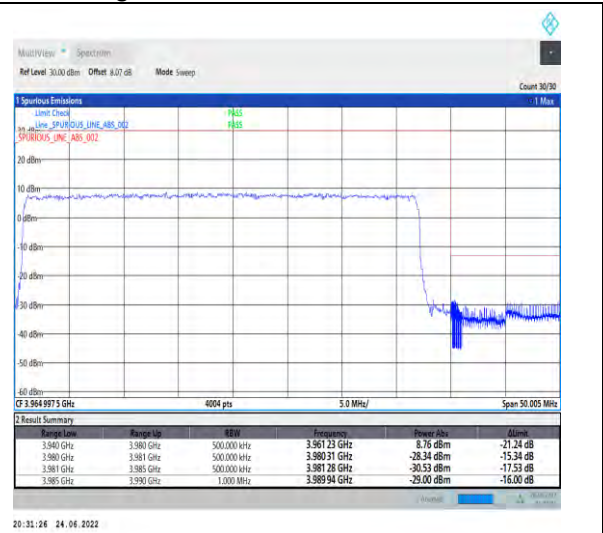
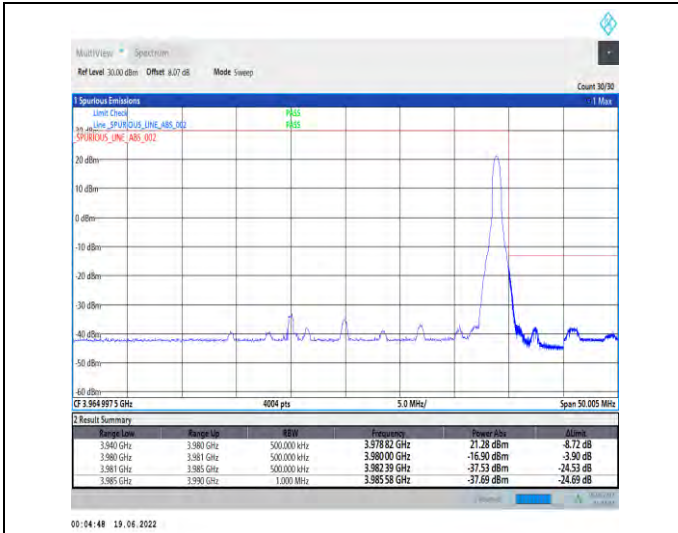
1-N77-3700-3980--30-40-L-6-CP-QPSK-Outer\_Ful I-106@0-Ant1-PASS-see graph



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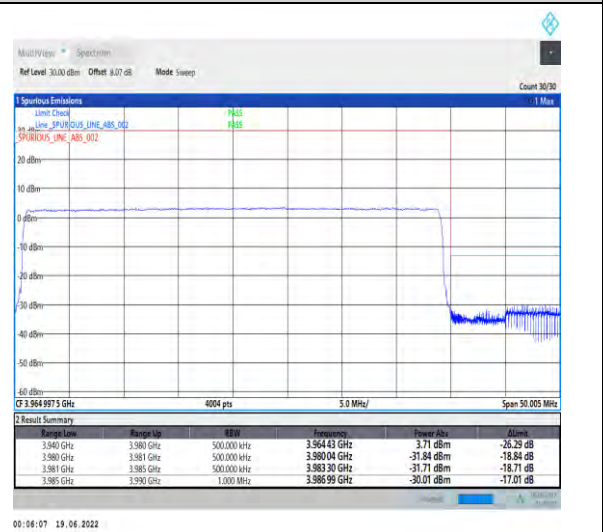
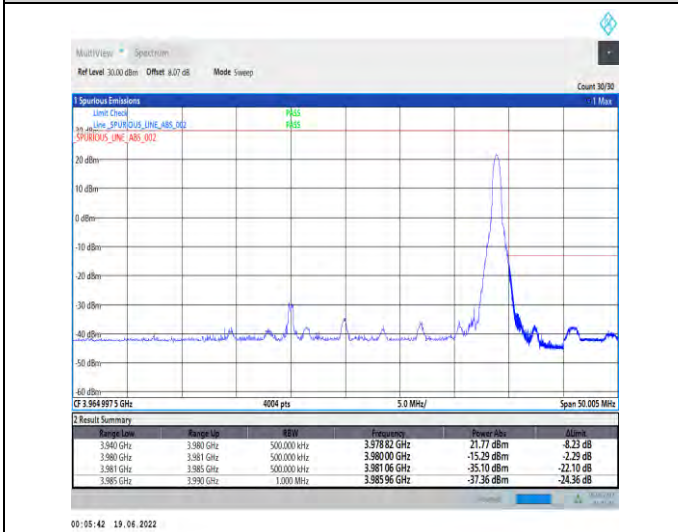
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1-N77-3700-3980--30-40-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@105-Ant1-PASS-see graph

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



1-N77-3700-3980--30-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant1-PASS-see graph

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

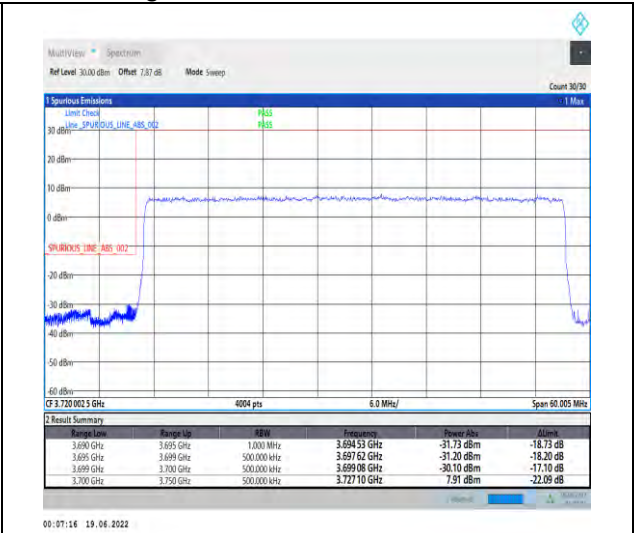
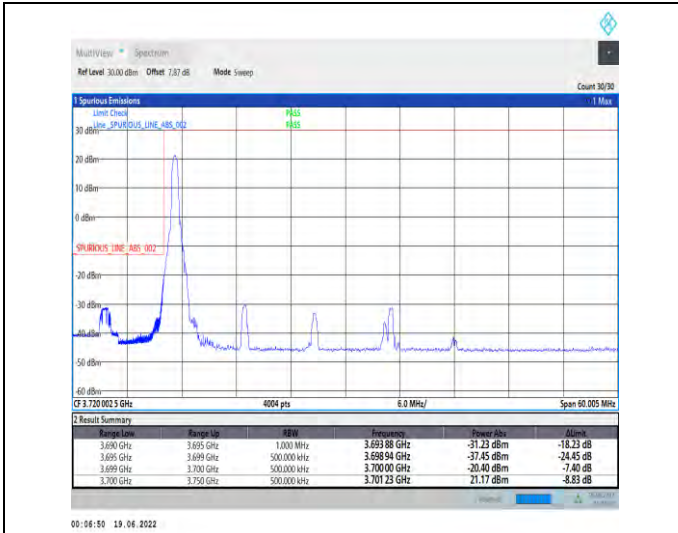


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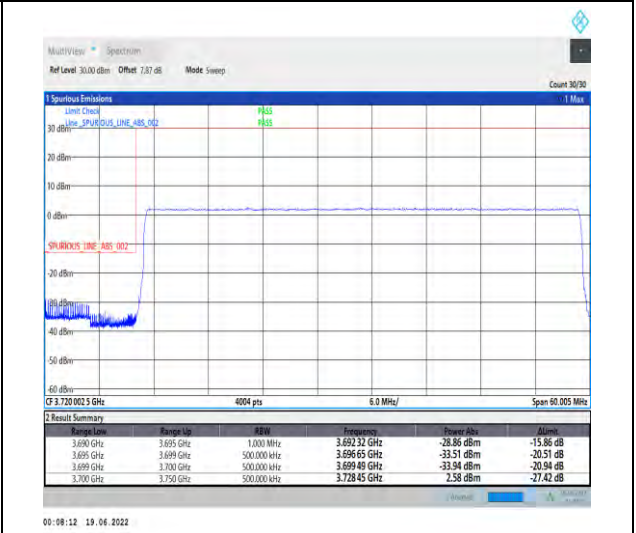
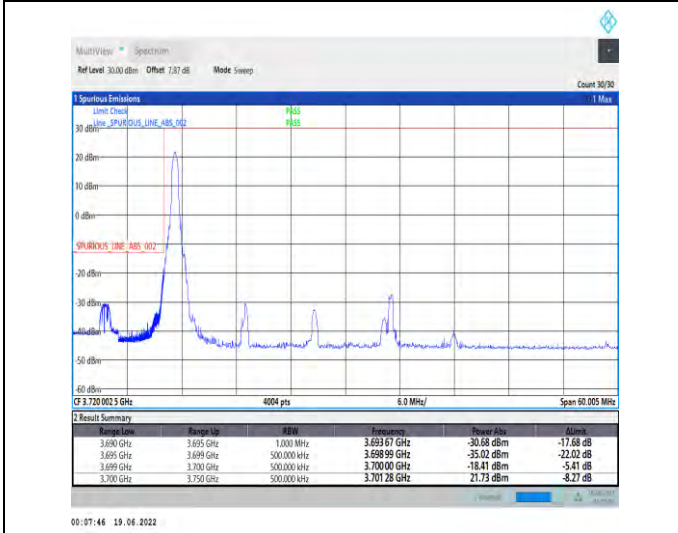
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1-N77-3700-3980--30-50-L-1-DFT-PI2BPSK-Edge\_1R\_B\_Left-1@0-Ant1-PASS-see graph

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\_L\_eff-1@0-Ant1-PASS-see graph

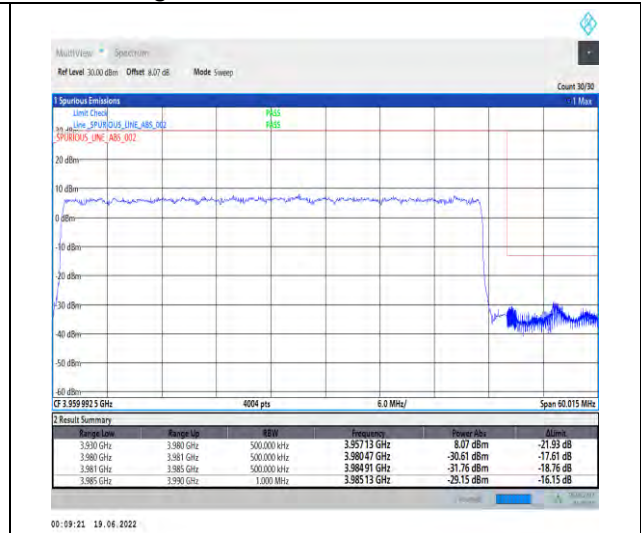
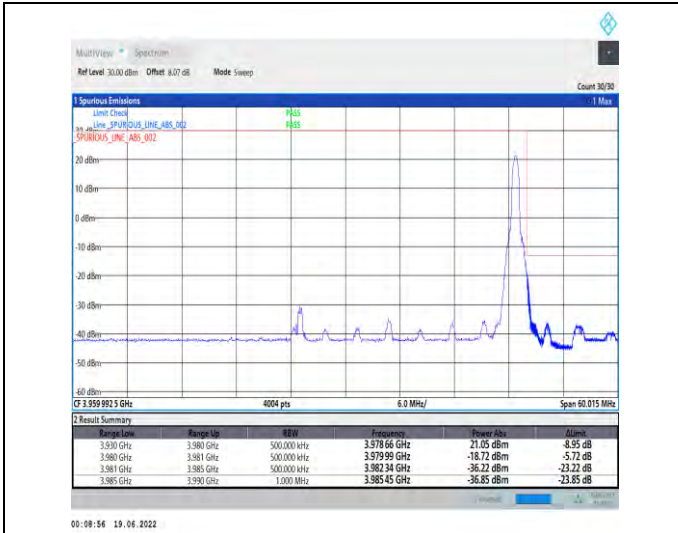
1-N77-3700-3980--30-50-L-6-CP-QPSK-Outer\_Ful\_I-133@0-Ant1-PASS-see graph



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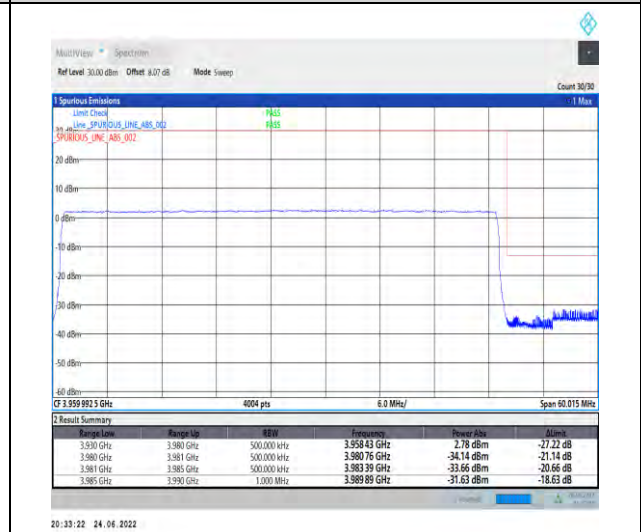
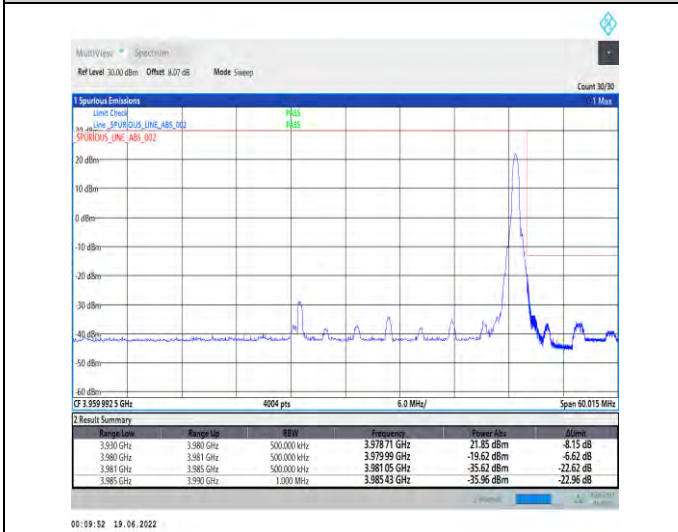
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1-N77-3700-3980--30-50-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@132-Ant1-PASS-see graph

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



1-N77-3700-3980--30-50-H-5-CP-QPSK-Edge\_1RB\_R ight-1@132-Ant1-PASS-see graph

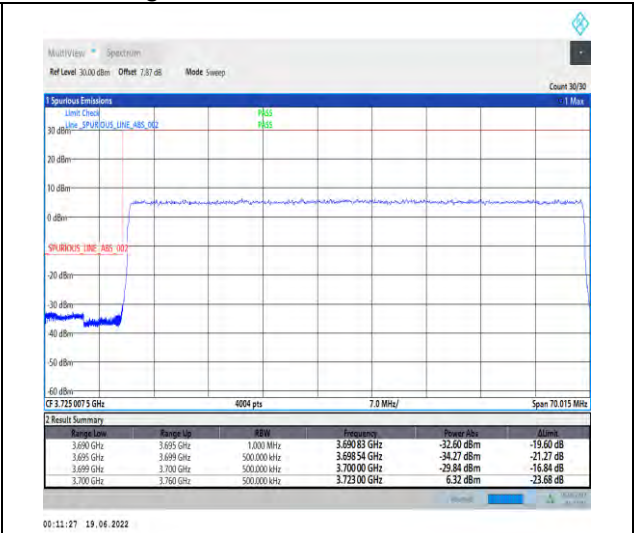
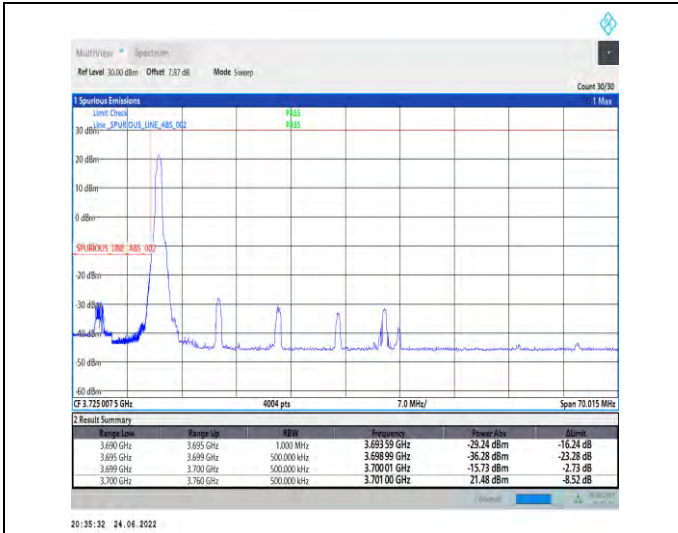
1-N77-3700-3980--30-50-H-6-CP-QPSK-Outer\_Fu ll-133@0-Ant1-PASS-see graph



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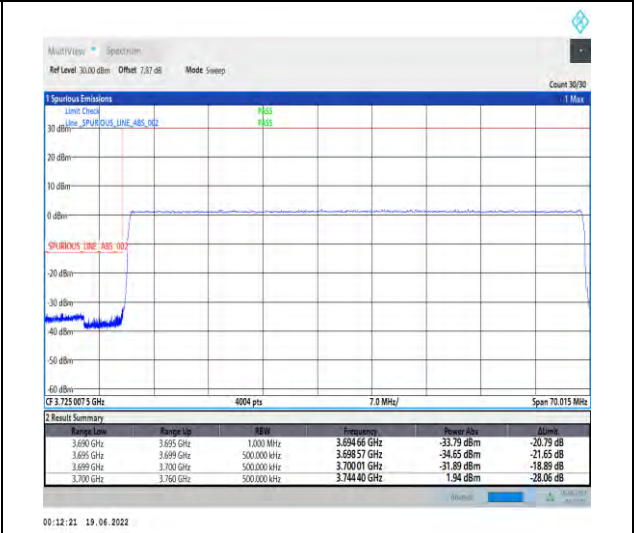
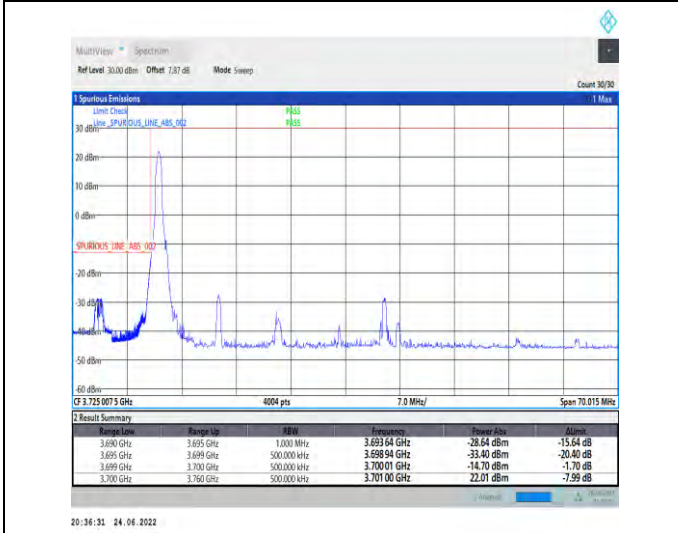
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1-N77-3700-3980--30-60-L-1-DFT-PI2BPSK-Edge\_1R\_B\_Left-1@0-Ant1-PASS-see graph

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\_L\_eff-1@0-Ant1-PASS-see graph

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

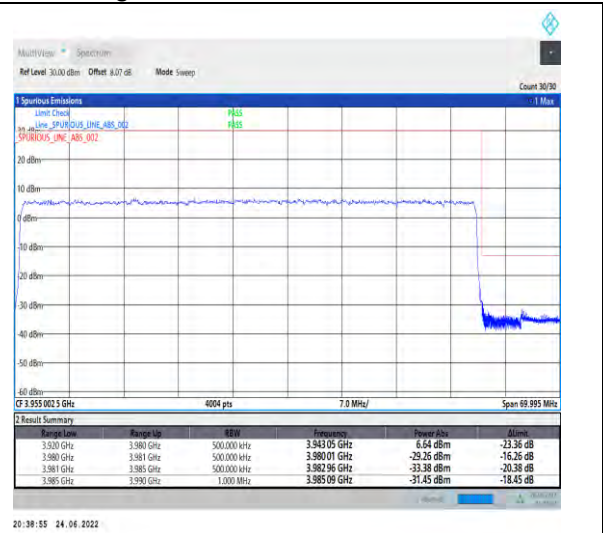
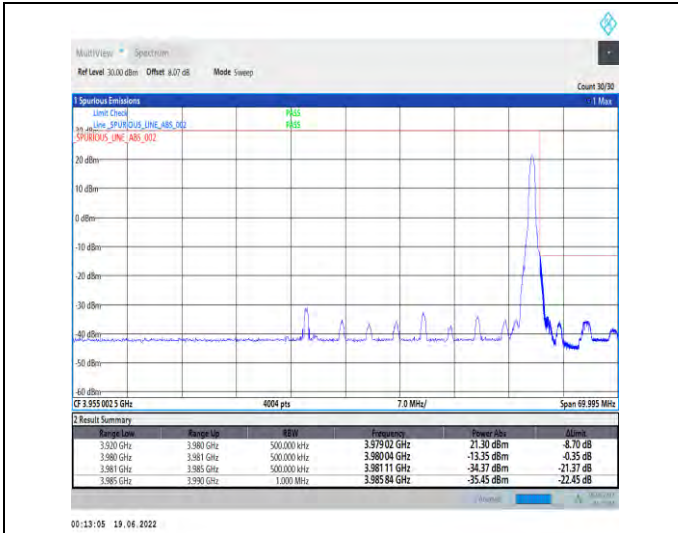


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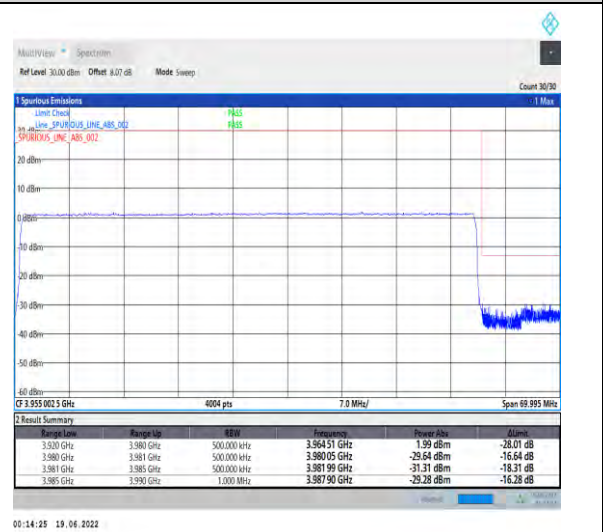
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1-N77-3700-3980--30-60-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@161-Ant1-PASS-see graph

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



1-N77-3700-3980--30-60-H-5-CP-QPSK-Edge\_1RB\_R ight-1@161-Ant1-PASS-see graph

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

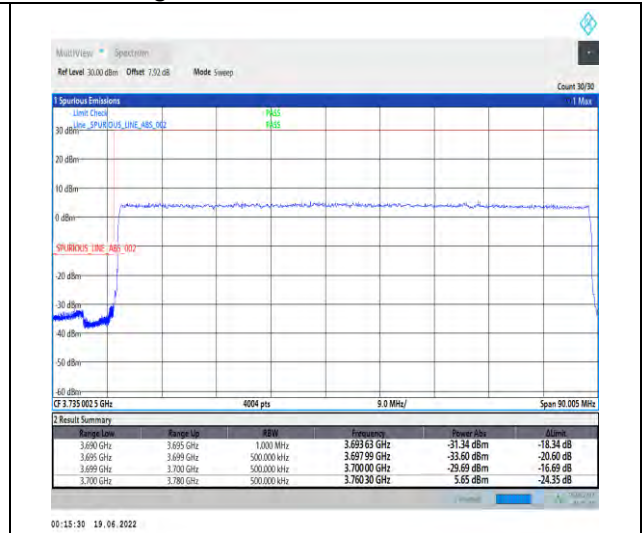
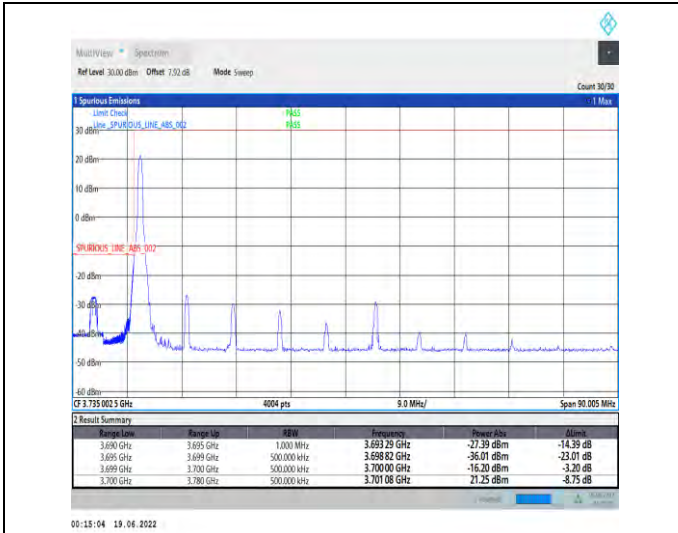


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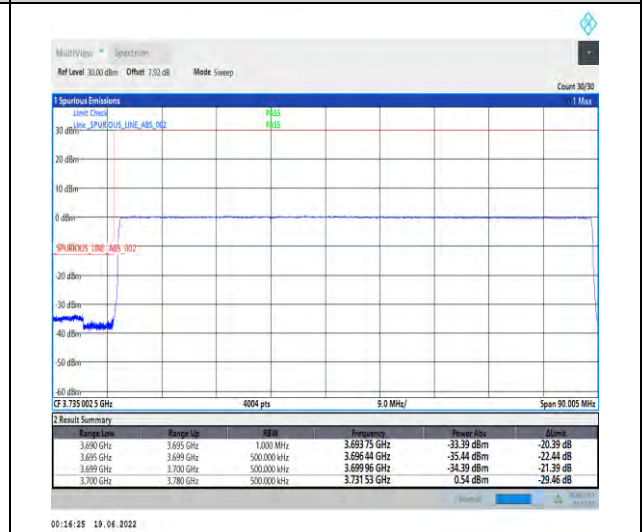
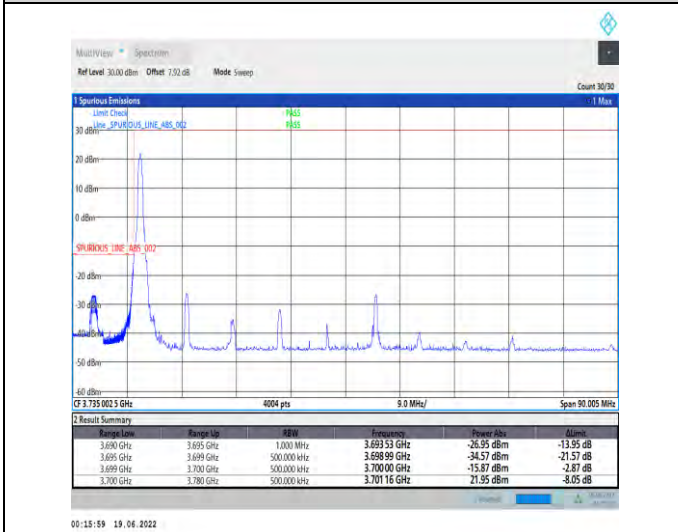
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1-N77-3700-3980--30-80-L-1-DFT-PI2BPSK-Edge\_1R\_B\_Left-1@0-Ant1-PASS-see graph

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\_L\_eff-1@0-Ant1-PASS-see graph

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



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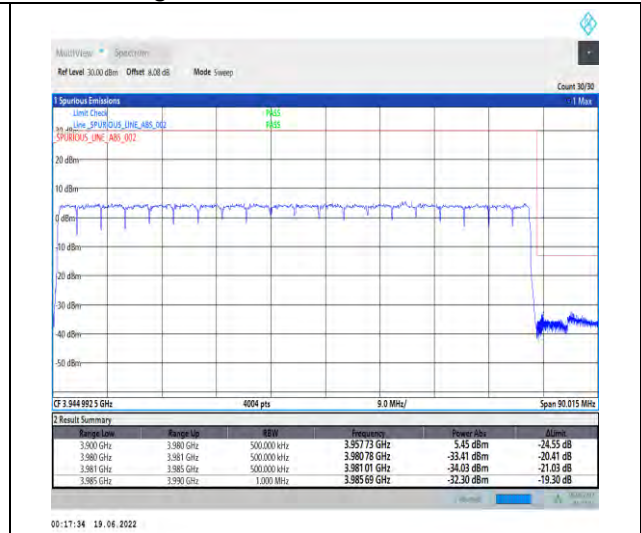
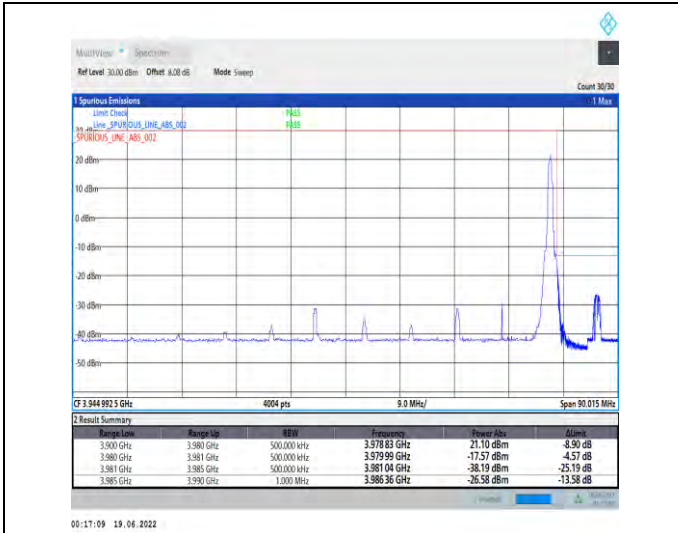
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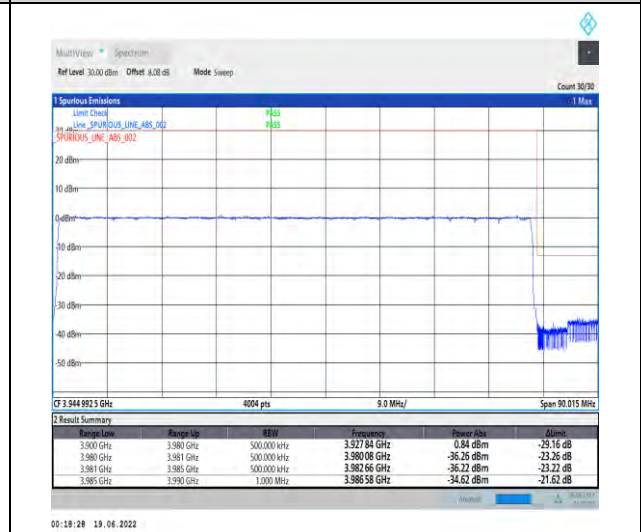
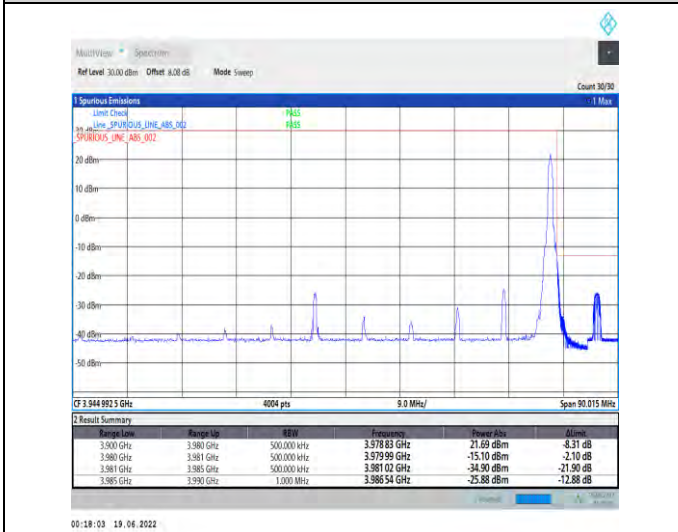
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1-N77-3700-3980--30-80-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@216-Ant1-PASS-see graph

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



1-N77-3700-3980--30-80-H-5-CP-QPSK-Edge\_1RB\_R ight-1@216-Ant1-PASS-see graph

1-N77-3700-3980--30-80-H-6-CP-QPSK-Outer\_Fu ll-217@0-Ant1-PASS-see graph

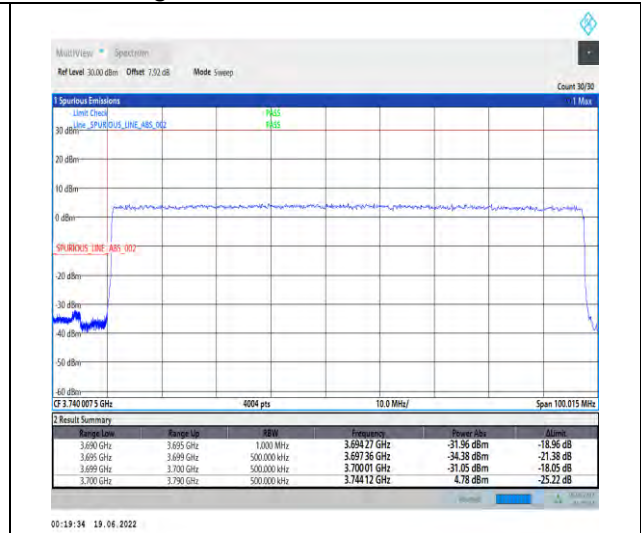
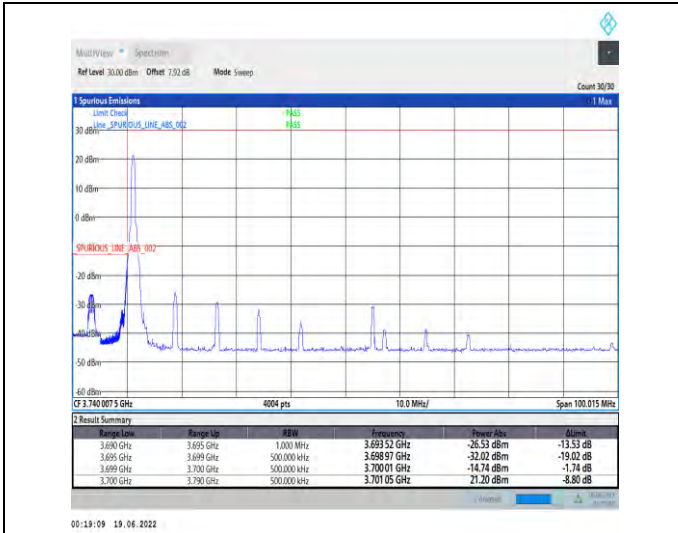


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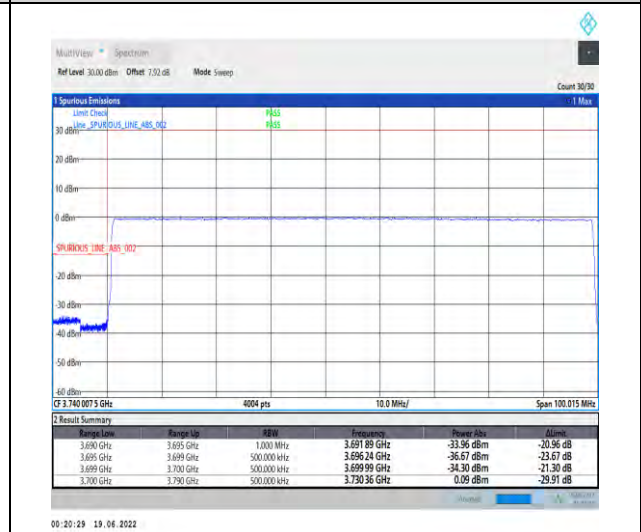
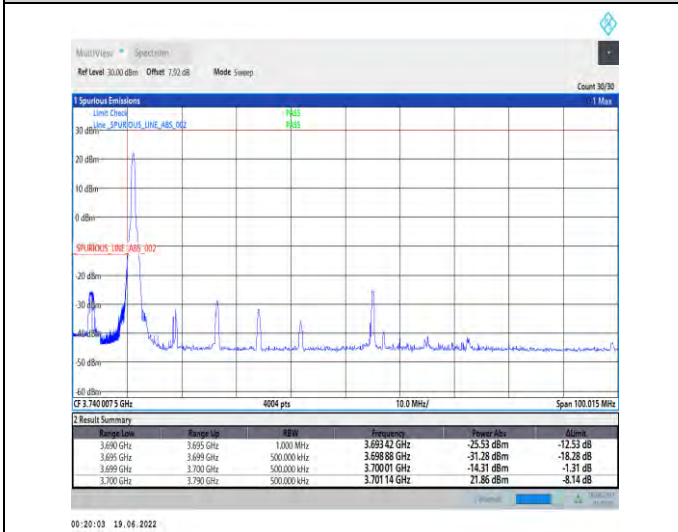
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1-N77-3700-3980--30-90-L-3-DFT-PI2BPSK-Outer\_Full-240@0-Ant1-PASS-see graph



1-N77-3700-3980--30-90-L-4-CP-QPSK-Edge\_1RB\_L\_eff-1@0-Ant1-PASS-see graph

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

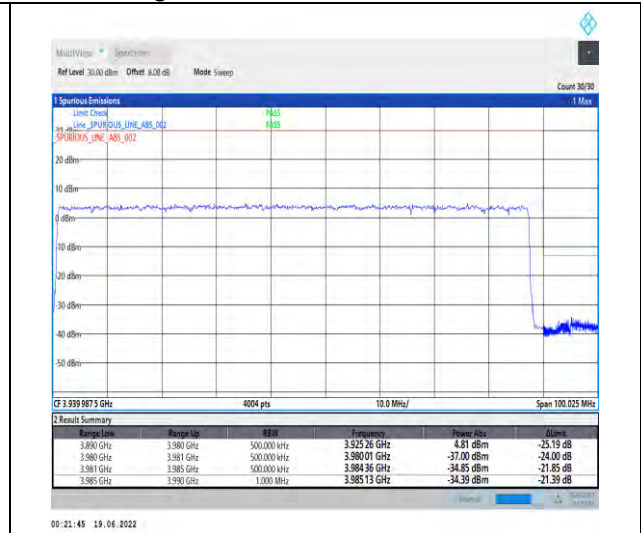
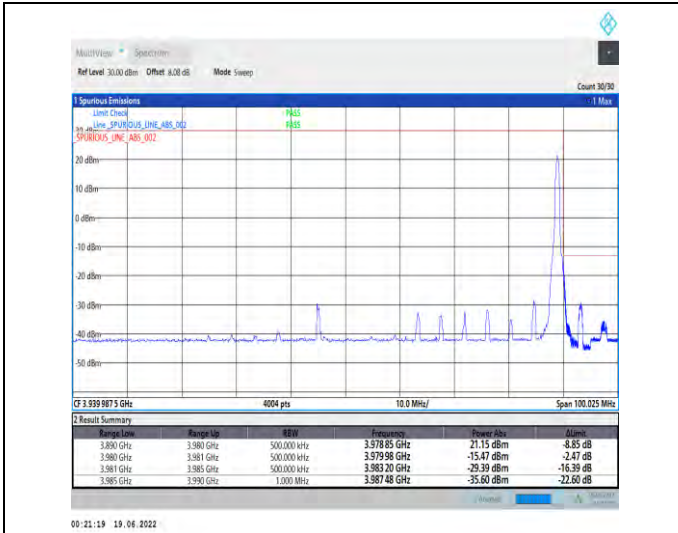


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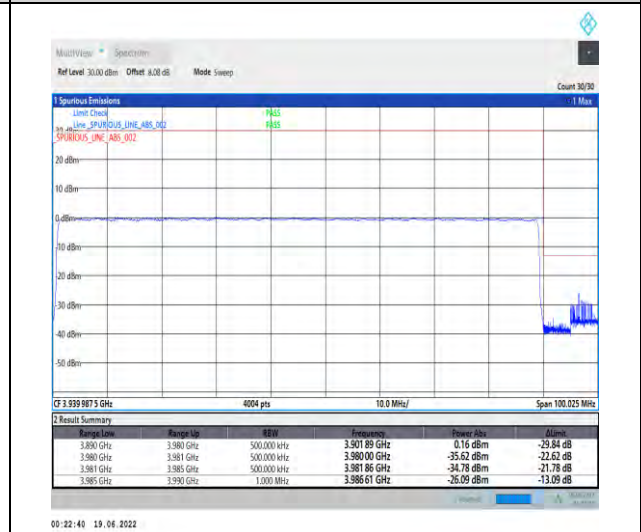
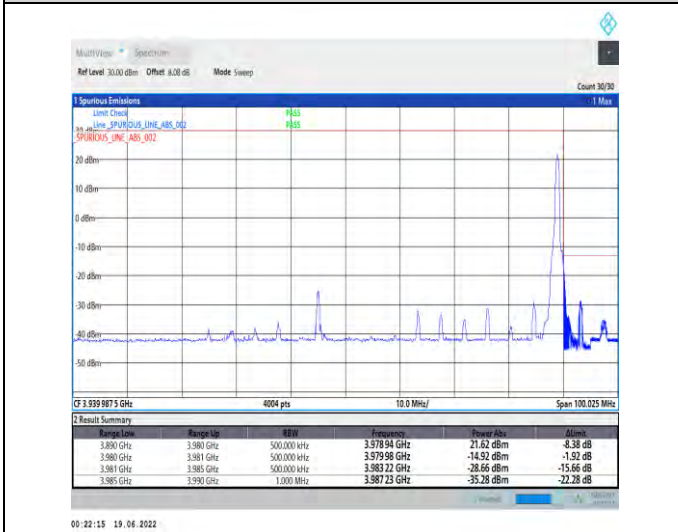
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1-N77-3700-3980--30-90-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@244-Ant1-PASS-see graph

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



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

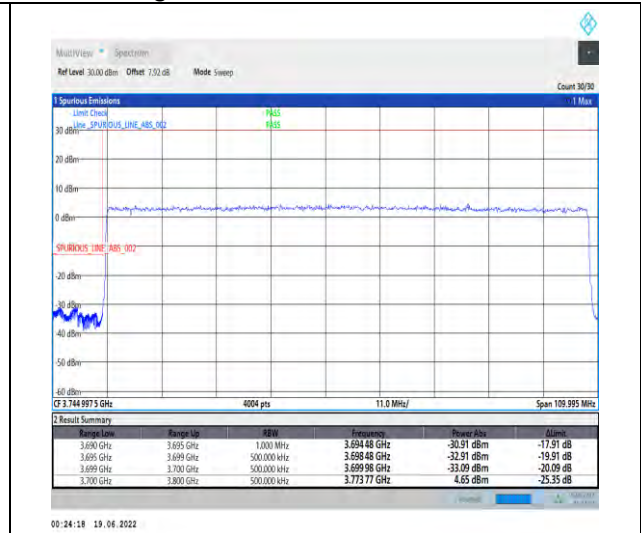
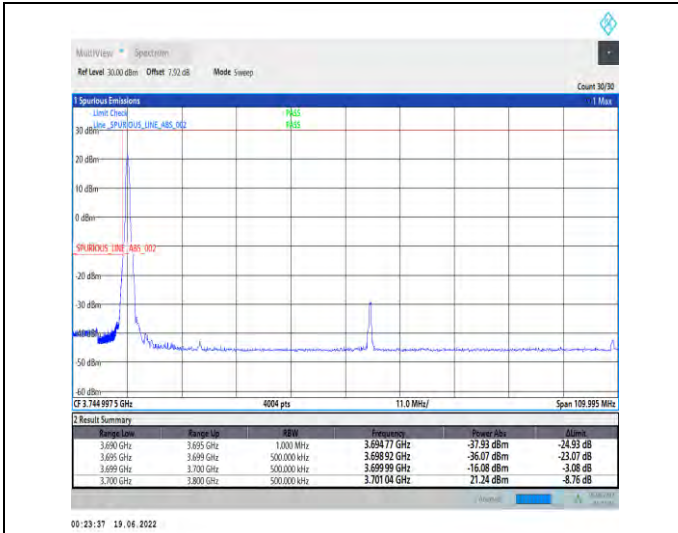
1-N77-3700-3980--30-90-H-6-CP-QPSK-Outer\_Fu ll-245@0-Ant1-PASS-see graph



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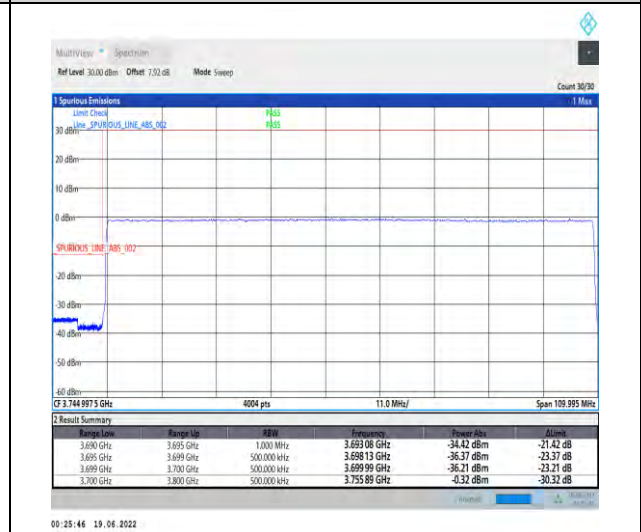
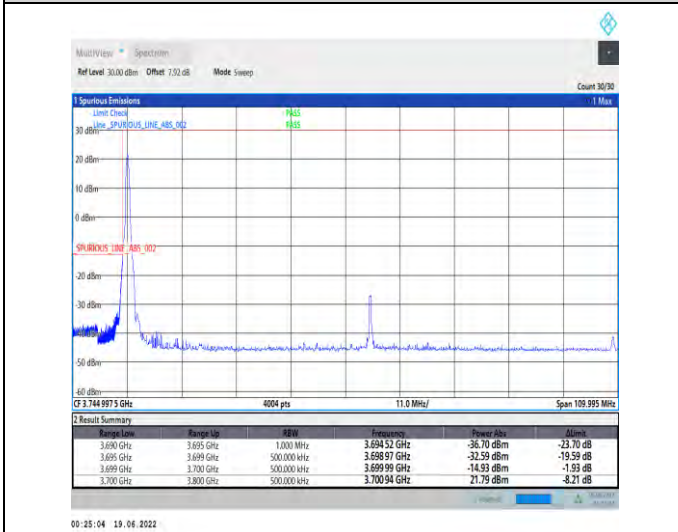
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1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Edge\_1 RB\_Left-1@0-Ant1-PASS-see graph

1-N77-3700-3980--30-100-L-3-DFT-PI2BPSK-Out er\_Full-270@0-Ant1-PASS-see graph



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

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



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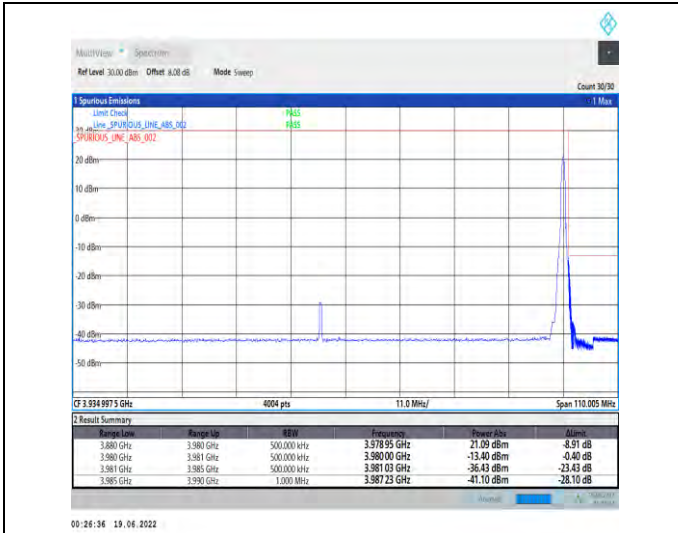
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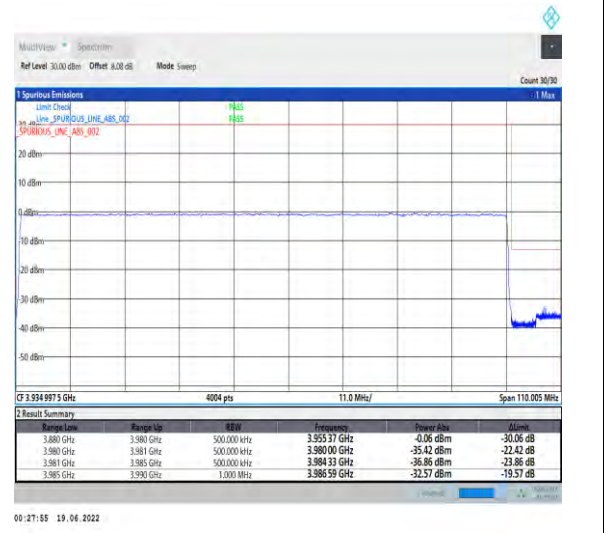
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1-N77-3700-3980--30-100-H-2-DFT-PI2BPSK-Edge\_1 RB\_Right-1@272-Ant1-PASS-see graph

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



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

1-N77-3700-3980--30-100-H-6-CP-QPSK-Outer\_F ull-273@0-Ant1-PASS-see graph



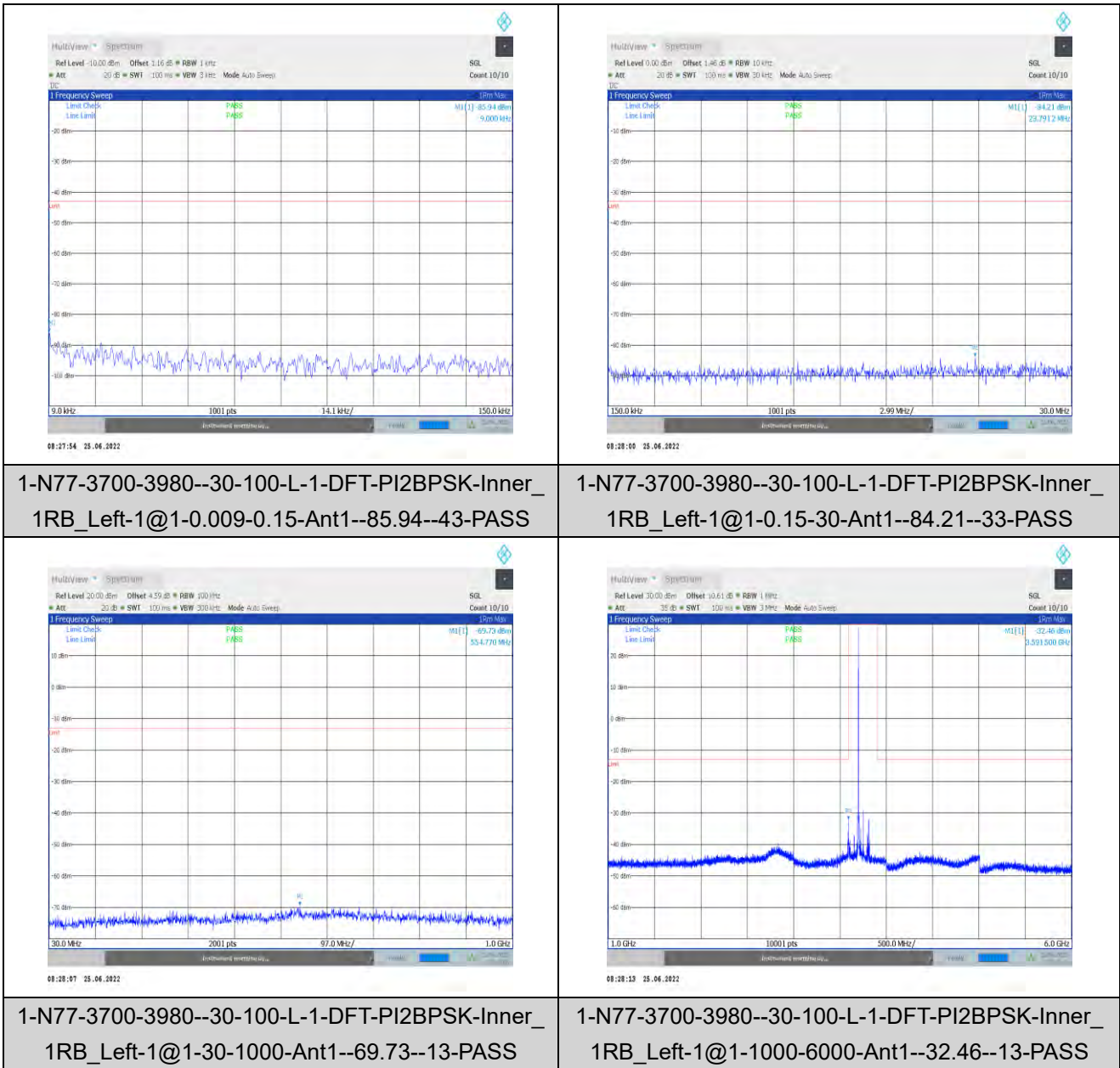
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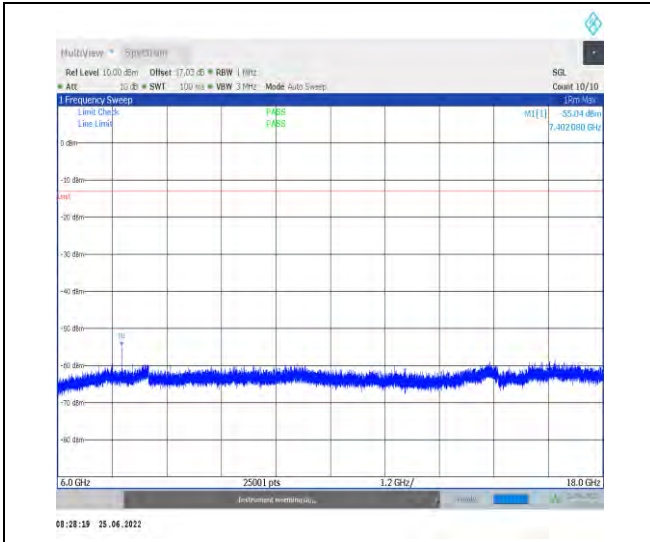
## Conducted Spurious Emission for SA

### Test Graphs

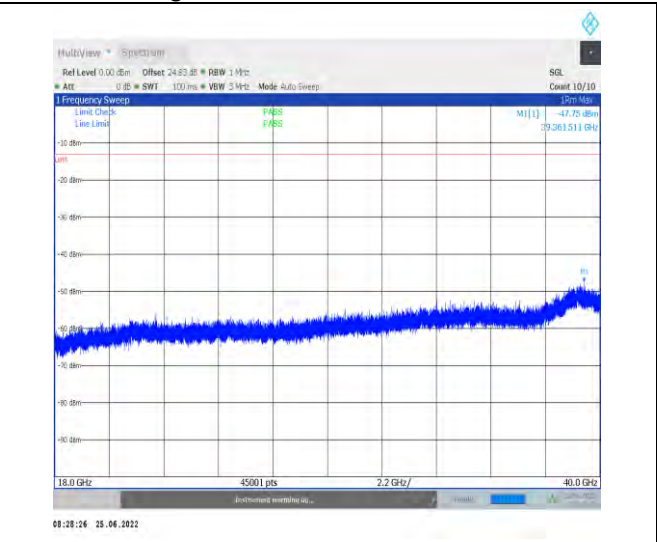


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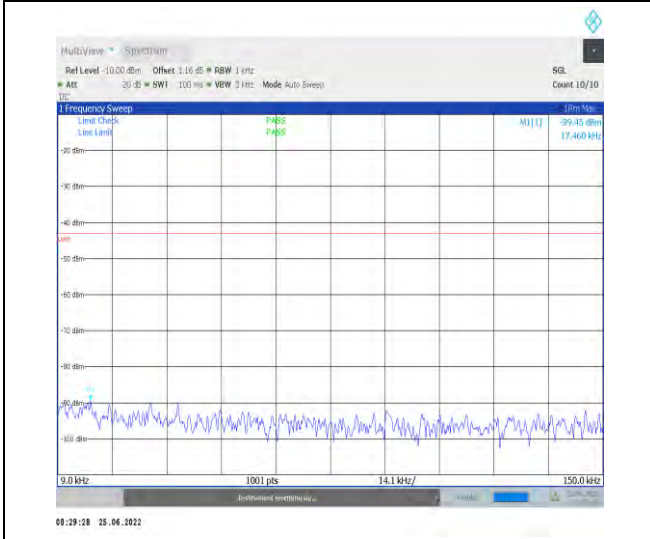
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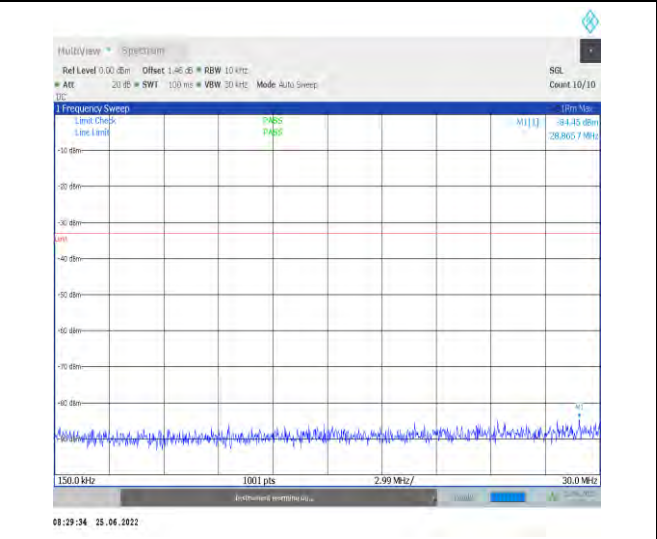
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1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant1--47.75--13-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1--89.45--43-PASS

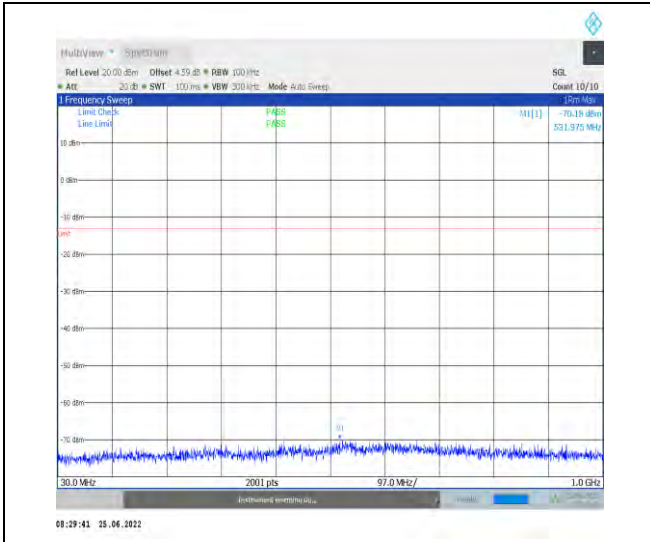


1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1--84.45--33-PASS

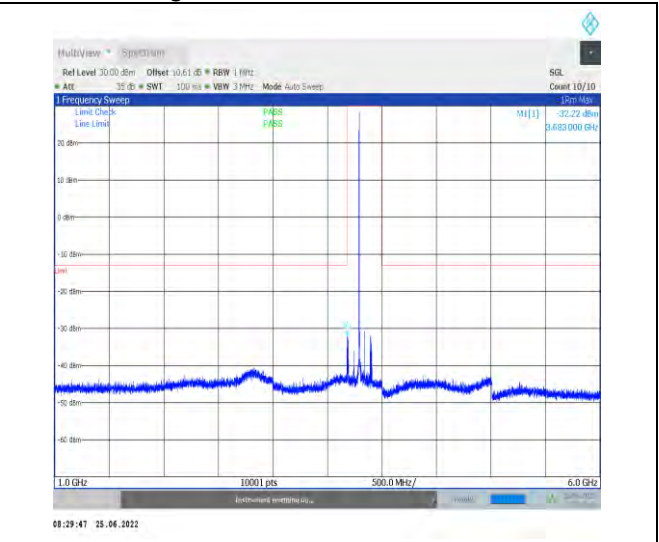


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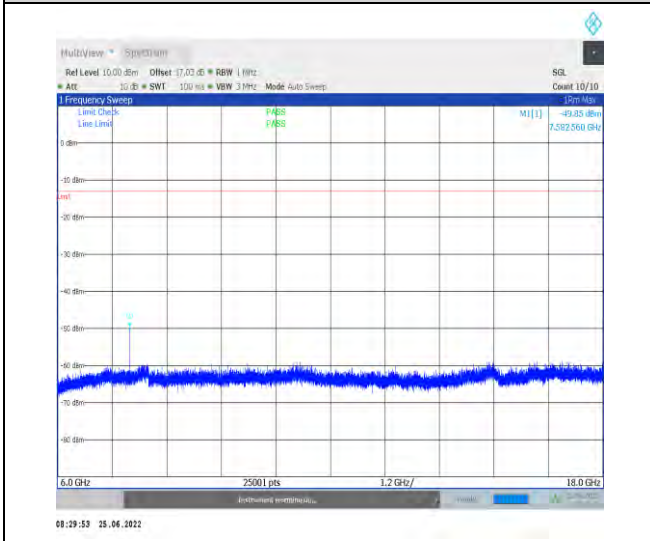
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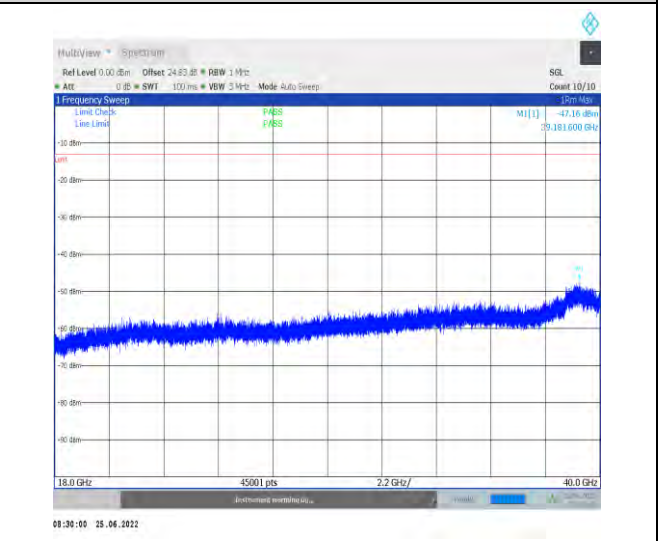
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1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_  
1RB\_Left-1@1-1000-6000-Ant1--32.22--13-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner  
\_1RB\_Left-1@1-6000-18000-Ant1--49.85--13-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPSK-Inner\_  
1RB\_Left-1@1-18000-40000-Ant1--47.16--13-PASS



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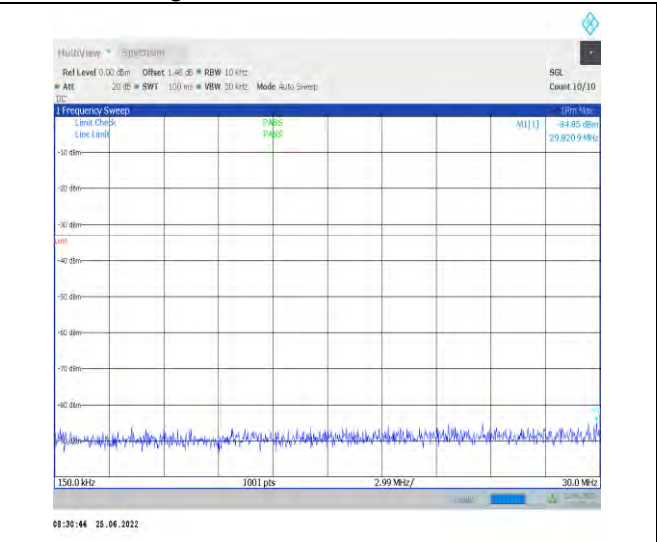
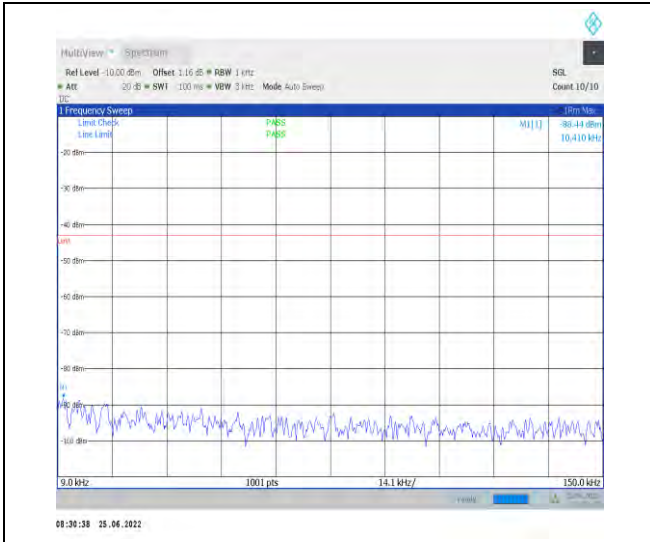
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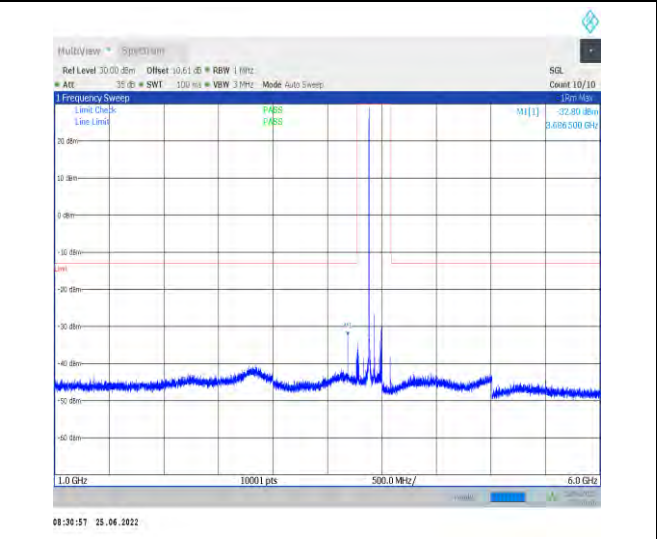
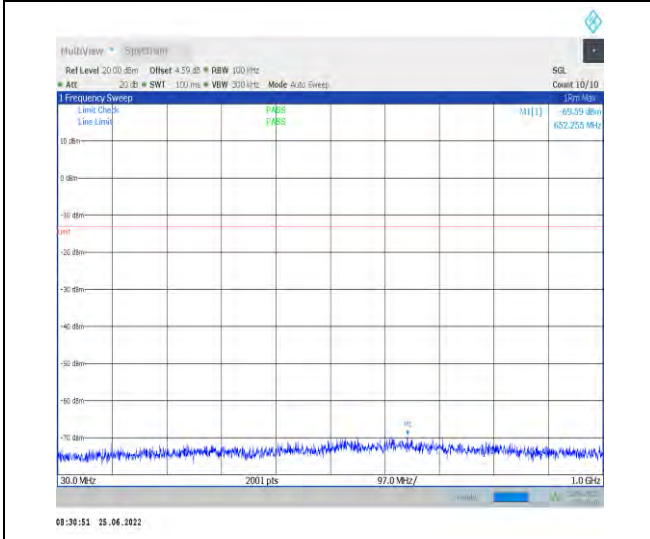
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1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner  
\_1RB\_Left-1@1-0.009-0.15-Ant1--88.44--43-PASS

1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner\_  
1RB\_Left-1@1-0.15-30-Ant1--84.85--33-PASS



1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner  
\_1RB\_Left-1@1-30-1000-Ant1--69.59--13-PASS

1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner\_  
1RB\_Left-1@1-1000-6000-Ant1--32.80--13-PASS



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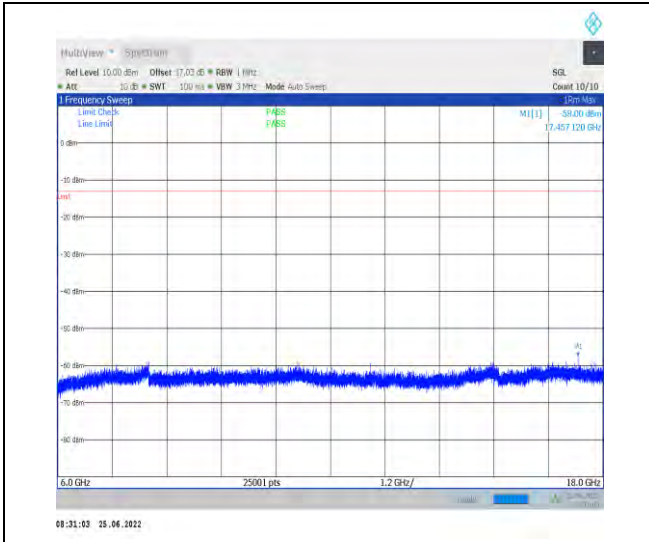
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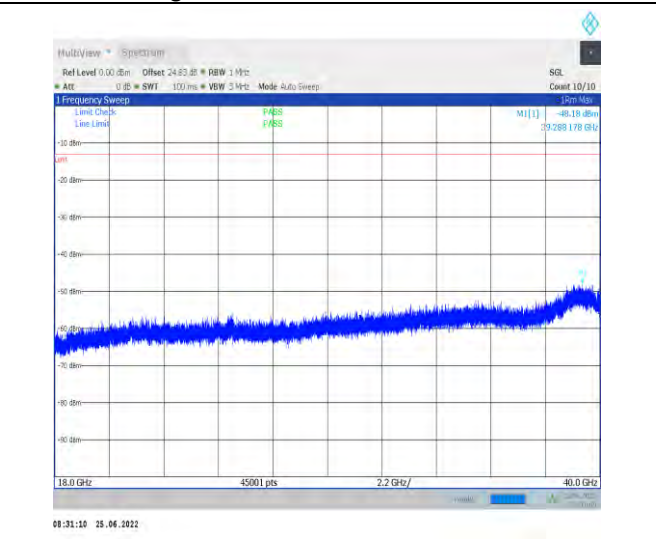
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1-N77-3700-3980--30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant1--48.18--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band77 3700-3980\_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	46.45	-101.99	-55.54	-13.00	42.54	269	1	Horizontal
2	7888.625	49.83	-101.10	-51.27	-13.00	38.27	145	0	Horizontal
3	9589.475	44.86	-96.10	-51.24	-13.00	38.24	175	329	Horizontal
4	10965.2700	38.04	-93.83	-55.79	-13.00	42.79	236	356	Horizontal
5	12333.375	39.80	-92.93	-53.13	-13.00	40.13	191	356	Horizontal
6	14620.3600	35.61	-90.58	-54.97	-13.00	41.97	250	255	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.31	-101.99	-54.68	-40.00	14.68	294	256	Vertical
2	8409.575	48.16	-99.32	-51.16	-40.00	11.16	281	195	Vertical
3	9830.4	45.04	-96.10	-51.06	-40.00	11.06	196	150	Vertical
4	10965.2700	39.28	-93.83	-54.55	-40.00	14.55	230	0	Vertical
5	13949.125	37.80	-90.35	-52.55	-40.00	12.55	233	209	Vertical
6	14620.3600	34.45	-90.58	-56.13	-40.00	16.13	261	104	Vertical



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**Test Band = SA Band77 3700-3980\_ TM1**  
**Test Channel = Mid**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	46.18	-101.65	-55.47	-13.00	42.47	174	194	Horizontal
2	9597.525	45.13	-96.04	-50.91	-13.00	37.91	158	0	Horizontal
3	11835.2700	34.79	-93.72	-58.93	-13.00	45.93	269	344	Horizontal
4	13958.325	37.33	-90.27	-52.94	-13.00	39.94	193	87	Horizontal
5	15180.3600	33.25	-90.18	-56.93	-13.00	43.93	211	194	Horizontal
6	17459.5	38.50	-90.42	-51.92	-13.00	38.92	301	344	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	46.68	-101.65	-54.97	-13.00	41.97	287	102	Vertical
2	9093.825	45.54	-97.43	-51.89	-13.00	38.89	194	0	Vertical
3	11835.2700	34.26	-93.72	-59.46	-13.00	46.46	176	118	Vertical
4	13918.075	37.32	-90.62	-53.30	-13.00	40.30	236	194	Vertical
5	15180.3600	33.47	-90.18	-56.71	-13.00	43.71	233	316	Vertical
6	17139.8	39.47	-90.84	-51.37	-13.00	38.37	266	163	Vertical



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**Test Band = SA Band77 3700-3980\_ TM1**  
**Test Channel = High**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	45.49	-101.09	-55.60	-13.00	42.60	194	125	Horizontal
2	9095.55	46.03	-97.42	-51.39	-13.00	38.39	185	23	Horizontal
3	11805.2700	34.19	-93.71	-59.52	-13.00	46.52	163	26	Horizontal
4	13922.1	37.61	-90.59	-52.98	-13.00	39.98	235	154	Horizontal
5	15740.3600	32.30	-90.17	-57.87	-13.00	44.87	164	2	Horizontal
6	17200.75	40.23	-91.43	-51.20	-13.00	38.20	170	29	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	45.77	-101.09	-55.32	-13.00	42.32	186	42	Vertical
2	8634.4	46.66	-98.50	-51.84	-13.00	38.84	254	285	Vertical
3	11805.2700	35.31	-93.71	-58.40	-13.00	45.40	136	150	Vertical
4	13916.35	38.57	-90.64	-52.07	-13.00	39.07	196	7	Vertical
5	15740.3600	33.21	-90.17	-56.96	-13.00	43.96	236	73	Vertical
6	17683.75	38.58	-88.42	-49.84	-13.00	36.84	140	2	Vertical



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**Test Band = NSA 2A-n77A 3700-3980\_ TM1**

**Test Channel = Low**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	48.97	-101.99	-53.02	-13.00	40.02	169	91	Horizontal
2	8338.85	51.07	-99.68	-48.61	-13.00	35.61	154	254	Horizontal
3	10965.2700	42.87	-93.83	-50.96	-13.00	37.96	185	136	Horizontal
4	13688.65	46.10	-91.19	-45.09	-13.00	32.09	149	300	Horizontal
5	14620.3600	41.54	-90.58	-49.04	-13.00	36.04	176	211	Horizontal
6	17156.475	46.34	-91.00	-44.66	-13.00	31.66	211	47	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.58	-101.99	-54.41	-13.00	41.41	123	315	Vertical
2	8029.5	50.14	-100.14	-50.00	-13.00	37.00	230	165	Vertical
3	10965.2700	42.00	-93.83	-51.83	-13.00	38.83	153	300	Vertical
4	12700.8	46.44	-92.63	-46.19	-13.00	33.19	164	16	Vertical
5	14620.3600	41.71	-90.58	-48.87	-13.00	35.87	195	2	Vertical
6	17694.675	46.38	-88.28	-41.90	-13.00	28.90	183	117	Vertical



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Test Band = NSA 2A-n77A 3700-3980\_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	47.66	-101.65	-53.99	-13.00	40.99	165	357	Horizontal
2	8386	50.22	-99.39	-49.17	-13.00	36.17	142	195	Horizontal
3	11835.2700	42.32	-93.72	-51.40	-13.00	38.40	185	140	Horizontal
4	13456.35	45.06	-91.51	-46.45	-13.00	33.45	133	225	Horizontal
5	15180.3600	42.10	-90.18	-48.08	-13.00	35.08	261	299	Horizontal
6	17109.325	45.73	-90.54	-44.81	-13.00	31.81	144	135	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	47.81	-101.65	-53.84	-13.00	40.84	255	42	Vertical
2	8415.9	50.96	-99.33	-48.37	-13.00	35.37	164	42	Vertical
3	11835.2700	43.52	-93.72	-50.20	-13.00	37.20	158	225	Vertical
4	12802	45.58	-92.25	-46.67	-13.00	33.67	169	42	Vertical
5	15180.3600	40.79	-90.18	-49.39	-13.00	36.39	194	178	Vertical
6	16942	45.74	-90.69	-44.95	-13.00	31.95	172	299	Vertical



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Test Band = NSA 2A-n77A 3700-3980\_TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	48.43	-101.09	-52.66	-13.00	39.66	215	209	Horizontal
2	8394.625	50.46	-99.33	-48.87	-13.00	35.87	236	178	Horizontal
3	11805.2700	42.36	-93.71	-51.35	-13.00	38.35	211	1	Horizontal
4	13694.975	45.84	-91.19	-45.35	-13.00	32.35	142	178	Horizontal
5	15740.3600	42.47	-90.17	-47.70	-13.00	34.70	239	329	Horizontal
6	17182.35	46.07	-91.26	-45.19	-13.00	32.19	194	329	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	48.82	-101.09	-52.27	-13.00	39.27	145	357	Vertical
2	9396.85	48.94	-96.70	-47.76	-13.00	34.76	236	46	Vertical
3	11805.2700	42.67	-93.71	-51.04	-13.00	38.04	261	215	Vertical
4	14472.95	43.84	-89.69	-45.85	-13.00	32.85	158	74	Vertical
5	15740.3600	42.44	-90.17	-47.73	-13.00	34.73	195	60	Vertical
6	17165.675	45.42	-91.09	-45.67	-13.00	32.67	177	257	Vertical



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Test Band = NSA 5A-n77A 3700-3980\_TM1  
 Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	48.19	-101.99	-53.80	-13.00	40.80	145	44	Horizontal
2	8344.6	50.16	-99.65	-49.49	-13.00	36.49	195	125	Horizontal
3	10965.2700	44.44	-93.83	-49.39	-13.00	36.39	172	270	Horizontal
4	13737.525	45.23	-91.33	-46.10	-13.00	33.10	236	196	Horizontal
5	14620.3600	41.77	-90.58	-48.81	-13.00	35.81	161	90	Horizontal
6	17157.05	45.22	-91.01	-45.79	-13.00	32.79	111	233	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	48.69	-101.99	-53.30	-13.00	40.30	214	89	Vertical
2	8347.475	51.10	-99.63	-48.53	-13.00	35.53	236	164	Vertical
3	10965.2700	43.17	-93.83	-50.66	-13.00	37.66	261	317	Vertical
4	14620.3600	41.24	-90.58	-49.34	-13.00	36.34	148	257	Vertical
5	15826.5	44.14	-90.45	-46.31	-13.00	33.31	175	120	Vertical
6	16978.8	45.65	-90.54	-44.89	-13.00	31.89	199	181	Vertical



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Test Band = NSA 5A-n77A 3700-3980\_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	48.05	-101.65	-53.60	-13.00	40.60	154	126	Horizontal
2	8406.125	50.34	-99.31	-48.97	-13.00	35.97	263	287	Horizontal
3	11835.2700	42.44	-93.72	-51.28	-13.00	38.28	251	287	Horizontal
4	13734.65	46.01	-91.32	-45.31	-13.00	32.31	145	18	Horizontal
5	15180.3600	41.86	-90.18	-48.32	-13.00	35.32	196	0	Horizontal
6	17029.975	44.96	-90.46	-45.50	-13.00	32.50	172	243	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	48.16	-101.65	-53.49	-13.00	40.49	255	165	Vertical
2	8689.025	50.18	-98.65	-48.47	-13.00	35.47	145	0	Vertical
3	11835.2700	42.86	-93.72	-50.86	-13.00	37.86	169	317	Vertical
4	13752.475	45.71	-91.38	-45.67	-13.00	32.67	195	29	Vertical
5	15180.3600	41.62	-90.18	-48.56	-13.00	35.56	172	1	Vertical
6	16937.975	44.77	-90.70	-45.93	-13.00	32.93	231	134	Vertical



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Test Band = NSA 5A-n77A 3700-3980\_TM1  
 Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	47.95	-101.09	-53.14	-13.00	40.14	169	255	Horizontal
2	8806.9	49.38	-98.30	-48.92	-13.00	35.92	158	147	Horizontal
3	11805.2700	42.26	-93.71	-51.45	-13.00	38.45	145	1	Horizontal
4	14489.05	44.19	-89.57	-45.38	-13.00	32.38	176	251	Horizontal
5	15740.3600	42.05	-90.17	-48.12	-13.00	35.12	236	193	Horizontal
6	16633.8	45.97	-91.71	-45.74	-13.00	32.74	261	96	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	49.26	-101.09	-51.83	-13.00	38.83	169	256	Vertical
2	8864.975	50.72	-98.13	-47.41	-13.00	34.41	184	256	Vertical
3	11805.2700	42.31	-93.71	-51.40	-13.00	38.40	175	270	Vertical
4	13727.175	45.29	-91.29	-46.00	-13.00	33.00	236	73	Vertical
5	15740.3600	42.03	-90.17	-48.14	-13.00	35.14	261	331	Vertical
6	17694.675	47.57	-88.28	-40.71	-13.00	27.71	199	270	Vertical



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**Test Band = NSA 7A-n77A 3700-3980\_ TM1**  
**Test Channel = Low**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	48.37	-101.99	-53.62	-13.00	40.62	184	31	Horizontal
2	8386.575	49.85	-99.38	-49.53	-13.00	36.53	175	300	Horizontal
3	10965.2700	42.78	-93.83	-51.05	-13.00	38.05	196	180	Horizontal
4	12651.925	45.74	-92.90	-47.16	-13.00	34.16	236	284	Horizontal
5	14620.3600	41.13	-90.58	-49.45	-13.00	36.45	142	195	Horizontal
6	16973.625	46.09	-90.56	-44.47	-13.00	31.47	266	165	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.49	-101.99	-54.50	-13.00	41.50	154	356	Vertical
2	8399.8	50.95	-99.30	-48.35	-13.00	35.35	265	74	Vertical
3	10965.2700	42.72	-93.83	-51.11	-13.00	38.11	194	16	Vertical
4	13709.35	45.45	-91.23	-45.78	-13.00	32.78	185	8	Vertical
5	14620.3600	40.70	-90.58	-49.88	-13.00	36.88	236	283	Vertical
6	17158.775	45.54	-91.02	-45.48	-13.00	32.48	142	195	Vertical



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**Test Band = NSA 7A-n77A 3700-3980\_ TM1**

**Test Channel = Mid**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	47.60	-101.65	-54.05	-13.00	41.05	145	120	Horizontal
2	8377.375	50.93	-99.44	-48.51	-13.00	35.51	236	346	Horizontal
3	11835.2700	42.98	-93.72	-50.74	-13.00	37.74	261	90	Horizontal
4	13692.675	45.44	-91.19	-45.75	-13.00	32.75	158	126	Horizontal
5	15180.3600	42.66	-90.18	-47.52	-13.00	34.52	194	16	Horizontal
6	17185.225	45.94	-91.28	-45.34	-13.00	32.34	172	270	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	46.86	-101.65	-54.79	-13.00	41.79	123	91	Vertical
2	8366.45	49.71	-99.51	-49.80	-13.00	36.80	265	180	Vertical
3	11835.2700	43.66	-93.72	-50.06	-13.00	37.06	142	145	Vertical
4	13703.6	44.89	-91.21	-46.32	-13.00	33.32	251	343	Vertical
5	15180.3600	41.36	-90.18	-48.82	-13.00	35.82	199	17	Vertical
6	17113.925	45.75	-90.58	-44.83	-13.00	31.83	155	105	Vertical



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**Test Band = NSA 7A-n77A 3700-3980\_ TM1**

**Test Channel = High**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	47.76	-101.09	-53.33	-13.00	40.33	158	194	Horizontal
2	8381.975	50.84	-99.41	-48.57	-13.00	35.57	145	133	Horizontal
3	11805.2700	43.23	-93.71	-50.48	-13.00	37.48	263	356	Horizontal
4	13747.875	45.77	-91.36	-45.59	-13.00	32.59	291	150	Horizontal
5	15740.3600	40.64	-90.17	-49.53	-13.00	36.53	145	118	Horizontal
6	17150.725	45.58	-90.94	-45.36	-13.00	32.36	288	225	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	47.63	-101.09	-53.46	-13.00	40.46	145	60	Vertical
2	8373.925	50.15	-99.46	-49.31	-13.00	36.31	195	164	Vertical
3	11805.2700	42.77	-93.71	-50.94	-13.00	37.94	175	125	Vertical
4	13149.3	45.63	-91.95	-46.32	-13.00	33.32	266	181	Vertical
5	15740.3600	42.26	-90.17	-47.91	-13.00	34.91	251	236	Vertical
6	17170.275	45.85	-91.14	-45.29	-13.00	32.29	145	1	Vertical



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Test Band = NSA 12A-n77A 3700-3980\_TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.71	-101.99	-54.28	-13.00	41.28	155	4	Horizontal
2	8346.9	50.40	-99.63	-49.23	-13.00	36.23	142	151	Horizontal
3	10965.2700	43.58	-93.83	-50.25	-13.00	37.25	195	319	Horizontal
4	12679.525	45.70	-92.75	-47.05	-13.00	34.05	162	256	Horizontal
5	14620.3600	41.20	-90.58	-49.38	-13.00	36.38	144	30	Horizontal
6	16642.425	45.66	-91.73	-46.07	-13.00	33.07	180	256	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	48.08	-101.99	-53.91	-13.00	40.91	122	148	Vertical
2	8402.1	50.34	-99.30	-48.96	-13.00	35.96	236	239	Vertical
3	10965.2700	43.31	-93.83	-50.52	-13.00	37.52	261	42	Vertical
4	13703.025	45.06	-91.21	-46.15	-13.00	33.15	148	359	Vertical
5	14620.3600	41.65	-90.58	-48.93	-13.00	35.93	199	222	Vertical
6	16946.6	45.61	-90.67	-45.06	-13.00	32.06	255	208	Vertical



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**Test Band = NSA 12A-n77A 3700-3980\_ TM1**  
**Test Channel = Mid**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	48.10	-101.65	-53.55	-13.00	40.55	185	287	Horizontal
2	8406.7	50.03	-99.31	-49.28	-13.00	36.28	164	287	Horizontal
3	11835.2700	42.74	-93.72	-50.98	-13.00	37.98	196	256	Horizontal
4	13688.075	45.42	-91.19	-45.77	-13.00	32.77	125	46	Horizontal
5	15180.3600	41.84	-90.18	-48.34	-13.00	35.34	145	4	Horizontal
6	16965	45.54	-90.60	-45.06	-13.00	32.06	172	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	47.33	-101.65	-54.32	-13.00	41.32	154	299	Vertical
2	8393.475	49.94	-99.34	-49.40	-13.00	36.40	132	90	Vertical
3	11835.2700	43.03	-93.72	-50.69	-13.00	37.69	126	75	Vertical
4	13704.75	45.89	-91.21	-45.32	-13.00	32.32	265	90	Vertical
5	15180.3600	41.15	-90.18	-49.03	-13.00	36.03	145	195	Vertical
6	17113.35	45.49	-90.58	-45.09	-13.00	32.09	185	211	Vertical



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**Test Band = NSA 12A-n77A 3700-3980\_ TM1**  
**Test Channel = High**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	48.55	-101.09	-52.54	-13.00	39.54	169	324	Horizontal
2	8640.15	49.87	-98.51	-48.64	-13.00	35.64	194	310	Horizontal
3	11805.2700	42.90	-93.71	-50.81	-13.00	37.81	175	134	Horizontal
4	14500.55	43.64	-89.49	-45.85	-13.00	32.85	122	359	Horizontal
5	15740.3600	42.06	-90.17	-48.11	-13.00	35.11	251	350	Horizontal
6	16829.3	45.89	-91.33	-45.44	-13.00	32.44	145	310	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	49.03	-101.09	-52.06	-13.00	39.06	125	123	Vertical
2	8376.225	50.65	-99.45	-48.80	-13.00	35.80	162	238	Vertical
3	11805.2700	42.92	-93.71	-50.79	-13.00	37.79	236	312	Vertical
4	13638.05	45.07	-91.17	-46.10	-13.00	33.10	145	58	Vertical
5	15740.3600	41.63	-90.17	-48.54	-13.00	35.54	185	145	Vertical
6	17103	44.75	-90.47	-45.72	-13.00	32.72	191	312	Vertical



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Test Band = NSA 66A-n77A 3700-3980\_TM1  
 Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.78	-101.99	-54.21	-13.00	41.21	155	76	Horizontal
2	8409.575	48.99	-99.32	-50.33	-13.00	37.33	165	165	Horizontal
3	10965.2700	41.46	-93.83	-52.37	-13.00	39.37	195	316	Horizontal
4	12658.825	43.74	-92.86	-49.12	-13.00	36.12	148	76	Horizontal
5	14620.3600	39.15	-90.58	-51.43	-13.00	38.43	175	316	Horizontal
6	16513.05	44.22	-91.62	-47.40	-13.00	34.40	255	225	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.49	-101.99	-54.50	-13.00	41.50	152	226	Vertical
2	8402.1	49.31	-99.30	-49.99	-13.00	36.99	236	3	Vertical
3	10965.2700	40.83	-93.83	-53.00	-13.00	40.00	261	91	Vertical
4	12877.9	44.15	-92.37	-48.22	-13.00	35.22	145	243	Vertical
5	14620.3600	40.31	-90.58	-50.27	-13.00	37.27	195	152	Vertical
6	17119.1	43.86	-90.63	-46.77	-13.00	33.77	148	286	Vertical



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Test Band = NSA 66A-n77A 3700-3980\_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	47.75	-101.65	-53.90	-13.00	40.90	125	3	Horizontal
2	8301.475	50.35	-99.92	-49.57	-13.00	36.57	236	16	Horizontal
3	11835.2700	40.24	-93.72	-53.48	-13.00	40.48	261	300	Horizontal
4	13709.925	43.57	-91.23	-47.66	-13.00	34.66	148	225	Horizontal
5	15180.3600	38.99	-90.18	-51.19	-13.00	38.19	175	151	Horizontal
6	17169.7	43.76	-91.13	-47.37	-13.00	34.37	191	254	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	46.91	-101.65	-54.74	-13.00	41.74	122	255	Vertical
2	8860.95	48.91	-98.14	-49.23	-13.00	36.23	236	118	Vertical
3	11835.2700	40.59	-93.72	-53.13	-13.00	40.13	261	2	Vertical
4	13634.6	43.18	-91.17	-47.99	-13.00	34.99	145	1	Vertical
5	15180.3600	37.60	-90.18	-52.58	-13.00	39.58	185	209	Vertical
6	17166.25	44.26	-91.10	-46.84	-13.00	33.84	196	344	Vertical



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**Test Band = NSA 66A-n77A 3700-3980\_ TM1**
**Test Channel = High**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	47.90	-101.09	-53.19	-13.00	40.19	154	62	Horizontal
2	8662	48.47	-98.58	-50.11	-13.00	37.11	126	257	Horizontal
3	11805.2700	40.88	-93.71	-52.83	-13.00	39.83	236	227	Horizontal
4	14411.425	42.51	-90.17	-47.66	-13.00	34.66	261	302	Horizontal
5	15740.3600	38.95	-90.17	-51.22	-13.00	38.22	145	331	Horizontal
6	16836.2	44.15	-91.29	-47.14	-13.00	34.14	195	122	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	47.54	-101.09	-53.55	-13.00	40.55	199	316	Vertical
2	8948.925	48.58	-97.98	-49.40	-13.00	36.40	145	150	Vertical
3	11805.2700	41.06	-93.71	-52.65	-13.00	39.65	185	356	Vertical
4	14745.5	43.09	-90.39	-47.30	-13.00	34.30	263	194	Vertical
5	15740.3600	38.90	-90.17	-51.27	-13.00	38.27	236	346	Vertical
6	16959.25	43.67	-90.62	-46.95	-13.00	33.95	215	181	Vertical

Remark:

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

$$\text{Level} = \text{Reading Level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor} = \text{AF(dB/m)} + \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$



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Rev.: 01

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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	7.100000	0.001849	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.700000	0.001224	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	11.000000	0.002865	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	6.200000	0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	6.400000	0.001667	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	5.200000	0.001354	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	2.600000	0.000677	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	2.600000	0.000677	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	8.900000	0.002318	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	11.000000	0.002865	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.300000	0.001901	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	16.100000	0.004193	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	11.300000	0.002943	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	2.600000	0.000677	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	8.500000	0.002214	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	0.700000	0.000182	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-0.900000	-0.000234	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	4.700000	0.001224	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	3.600000	0.000938	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	6.900000	0.001797	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	5.700000	0.001484	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	3.600000	0.000938	PASS

---End of Attachment---



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