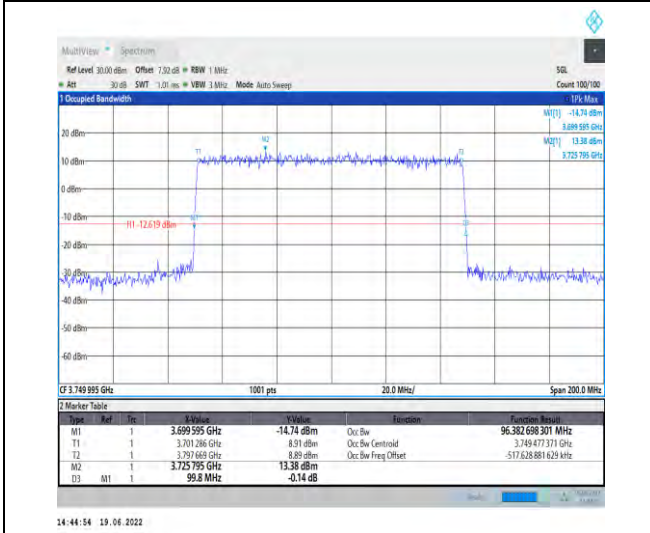


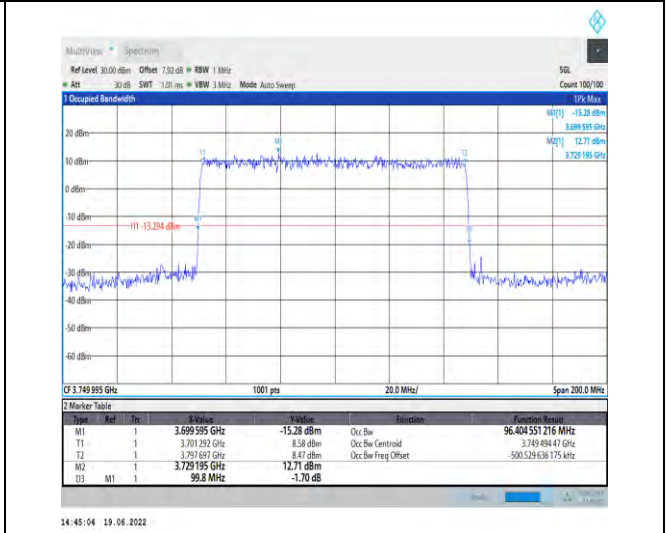
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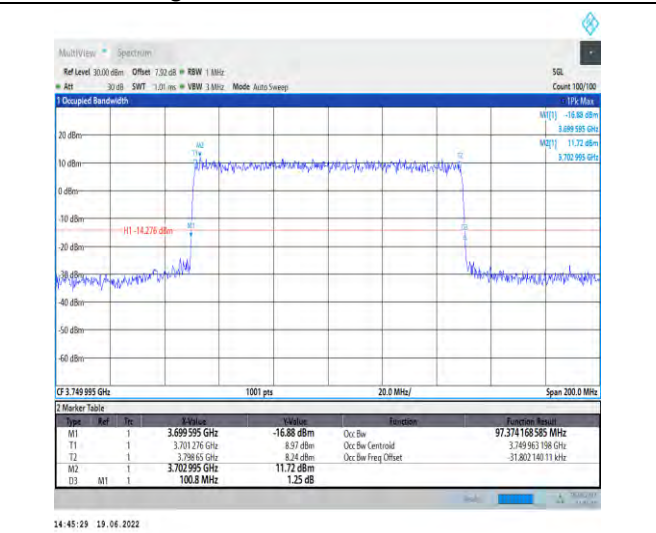
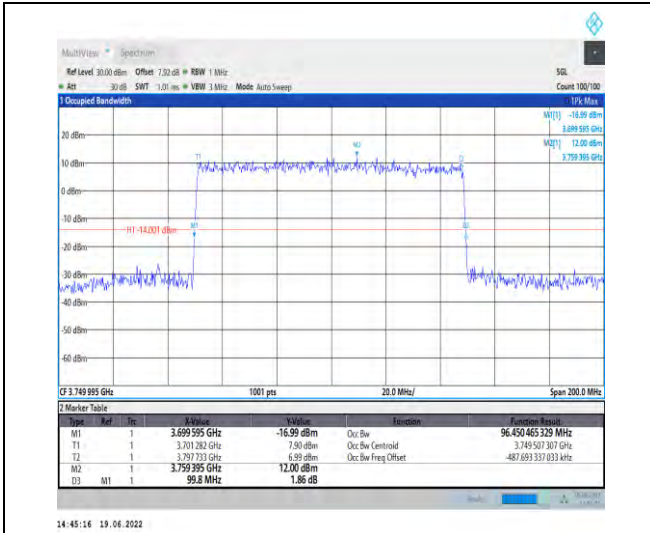
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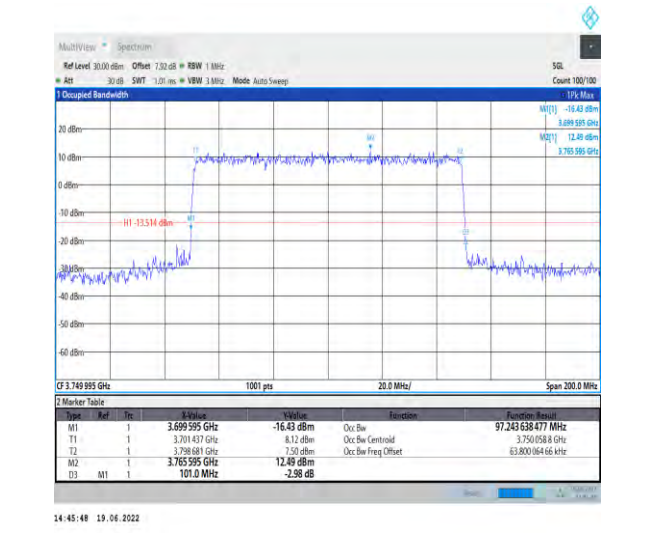
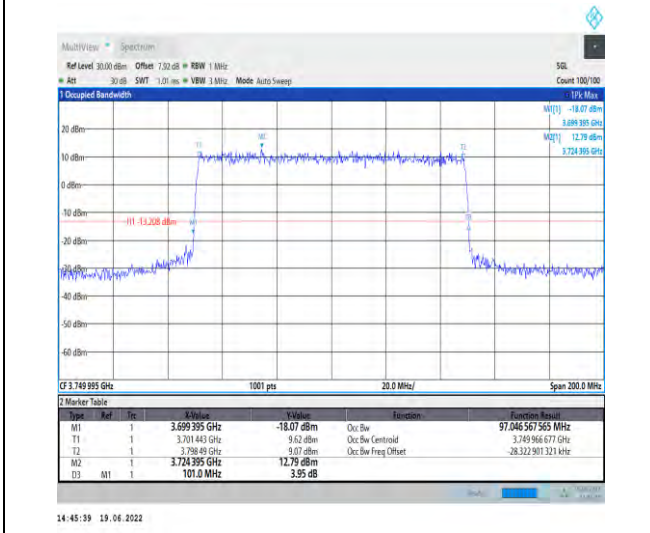
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1-N78-3700-3800-PC2-30-100-L-5-DFT-256QAM-Outer\_Full-270@0-Ant1-96.45-99.800-≤100-PASS

1-N78-3700-3800-PC2-30-100-L-6-CP-QPSK-Outer\_Full-273@0-Ant1-97.374-100.800-≤100-PASS



1-N78-3700-3800-PC2-30-100-L-7-CP-16QAM-Outer\_Full-273@0-Ant1-97.047-101.000-≤100-PASS

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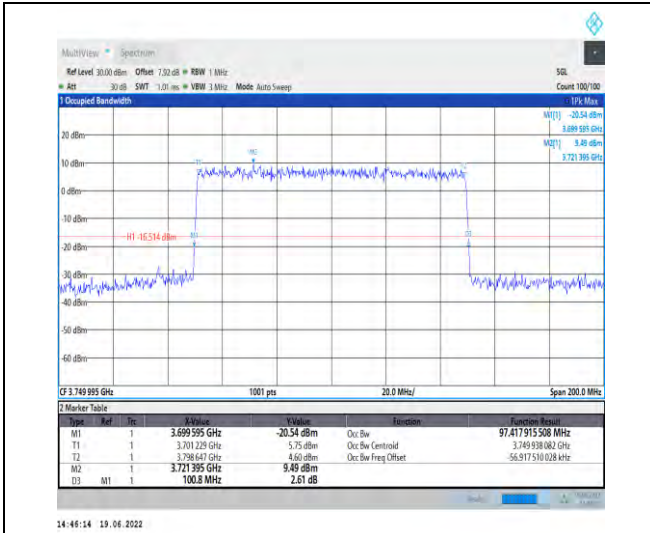


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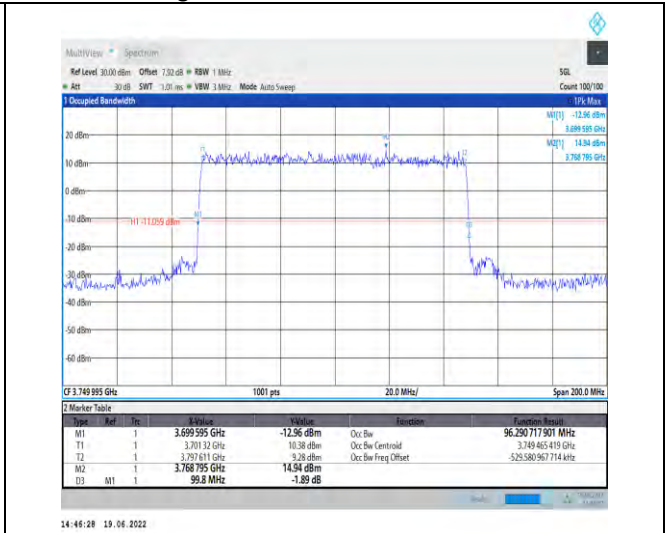
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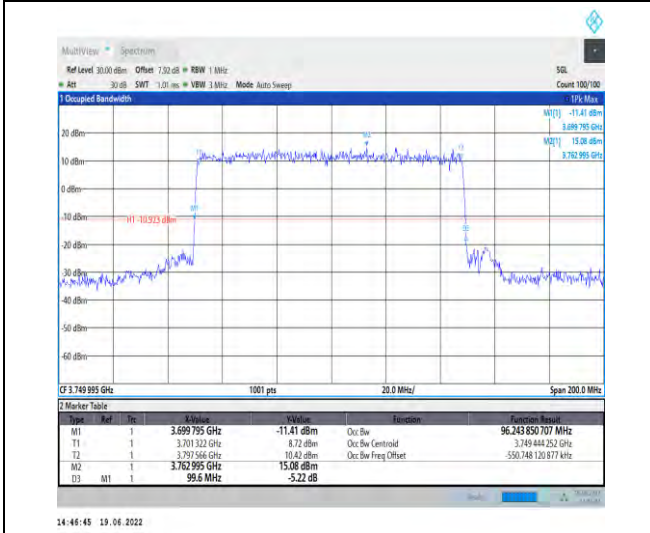
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1-N78-3700-3800-PC2-30-100-M-1-DFT-QPSK-Outer\_Full-270@0-Ant1-96.291-99.800-≤100-PASS



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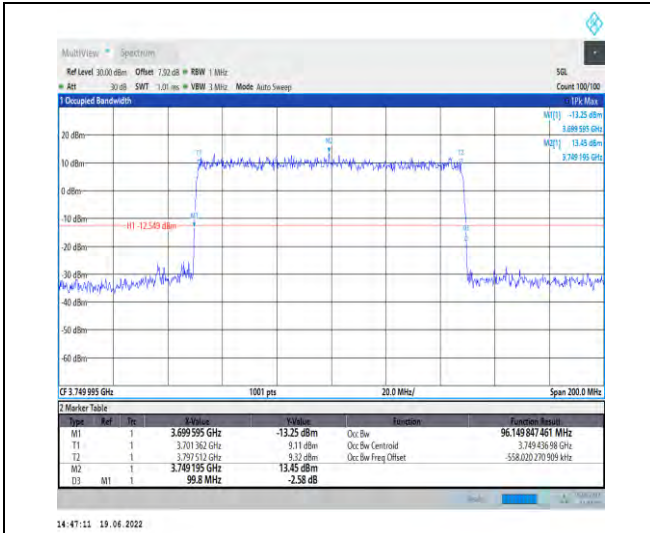


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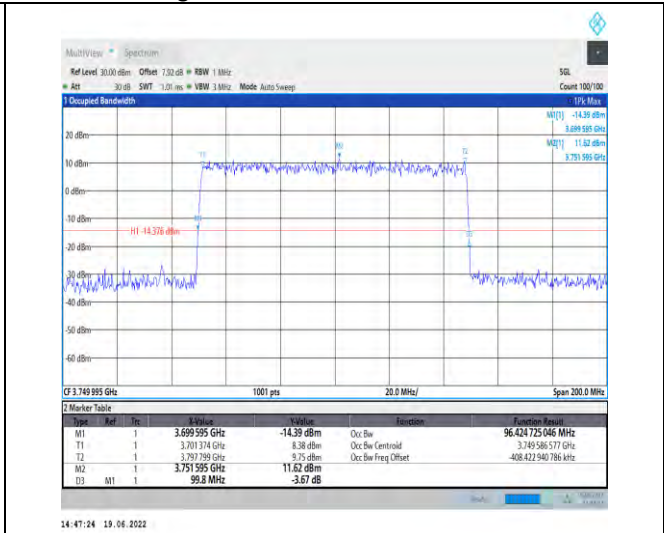
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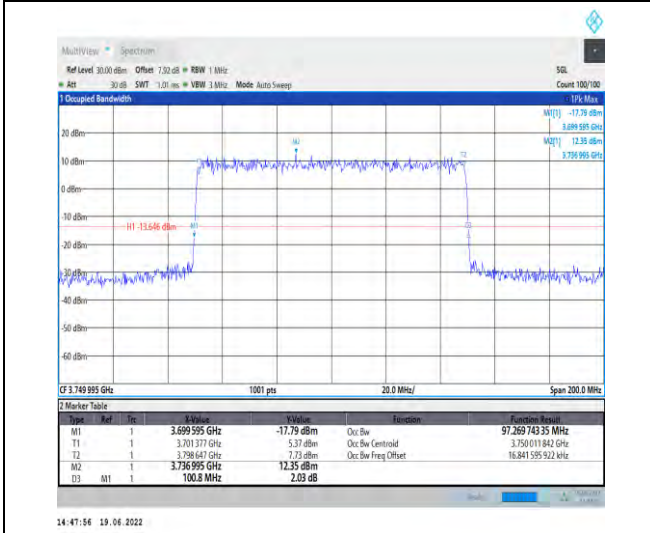
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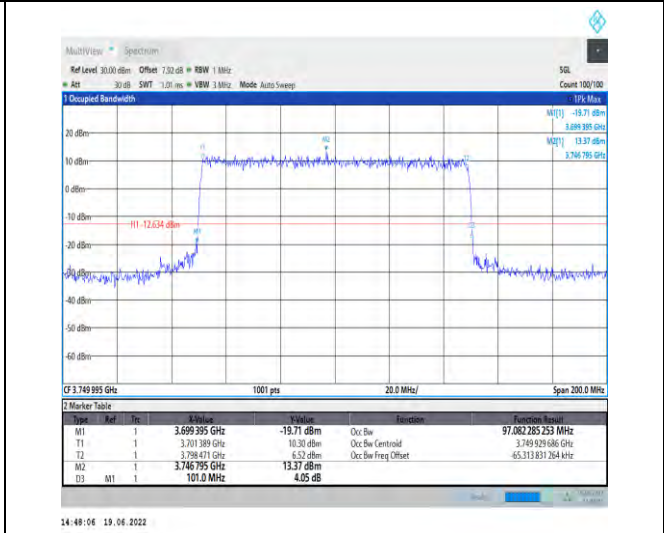
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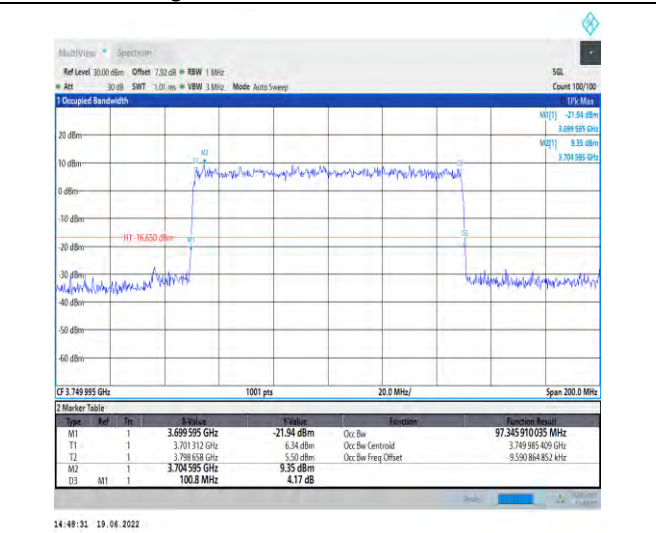
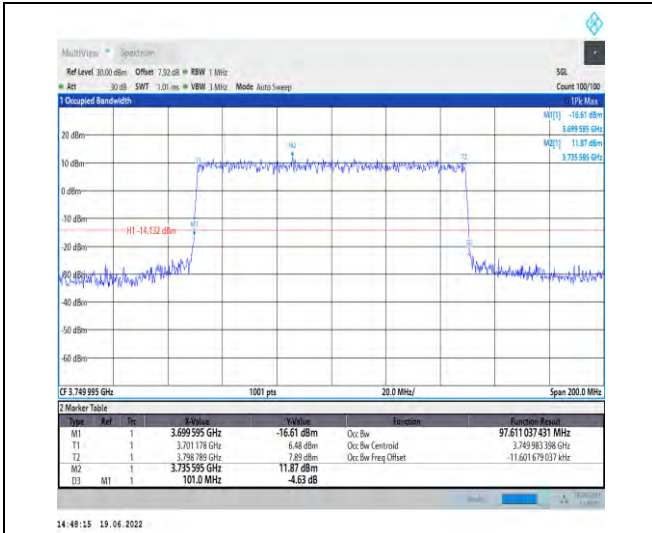
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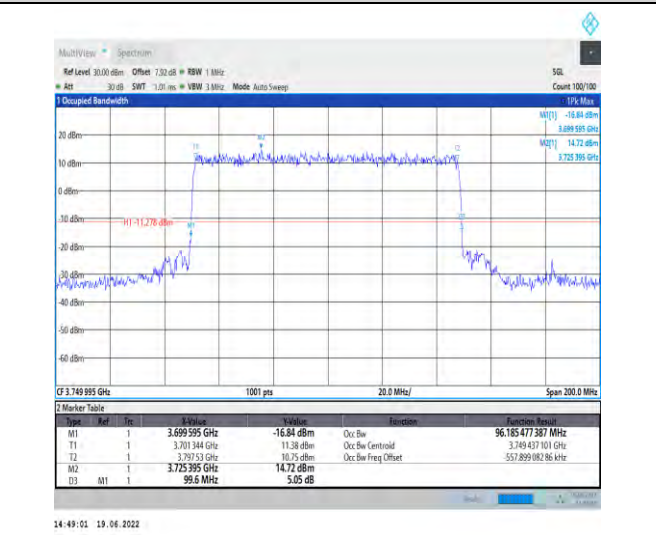
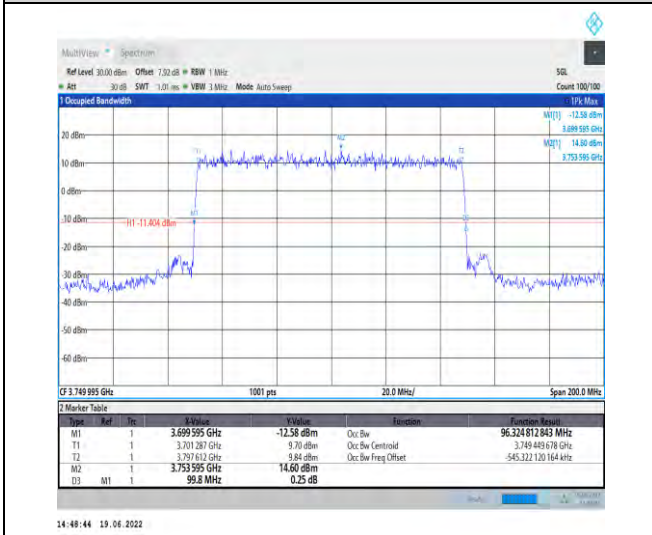
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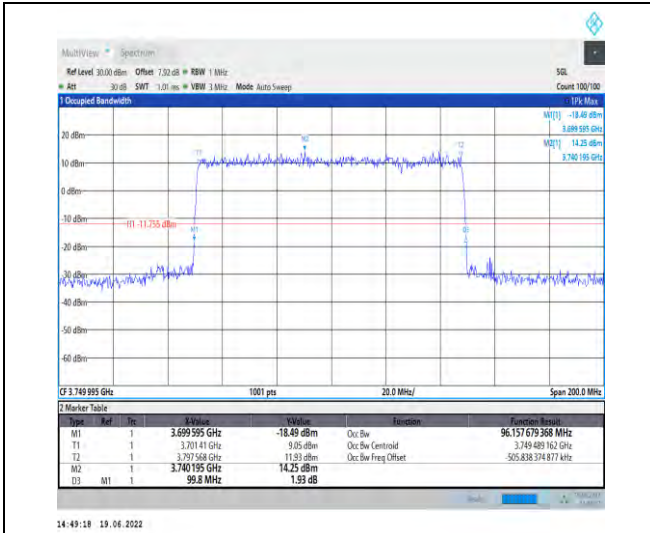
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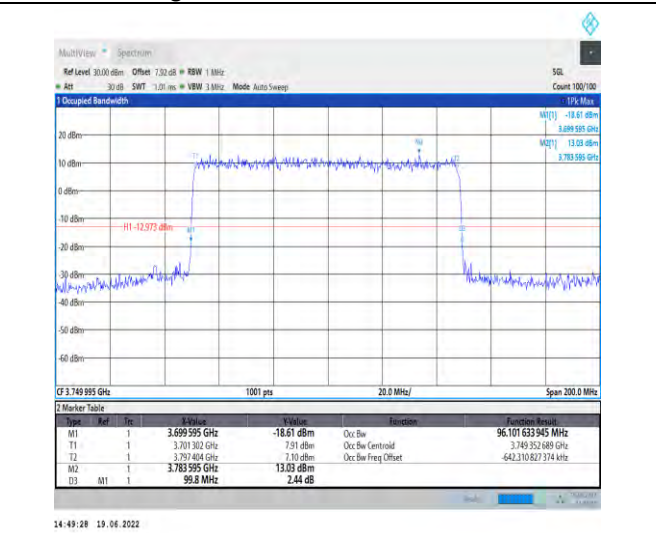
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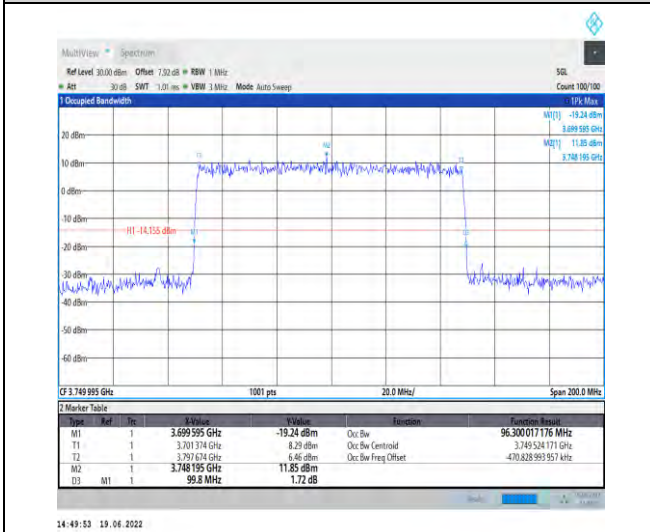




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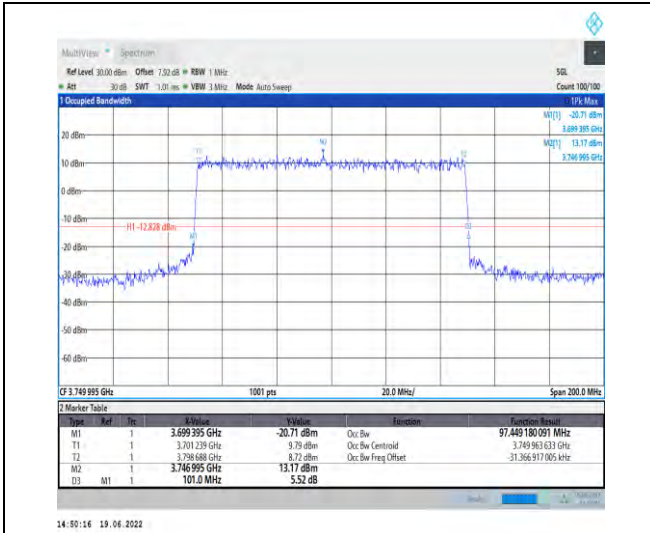


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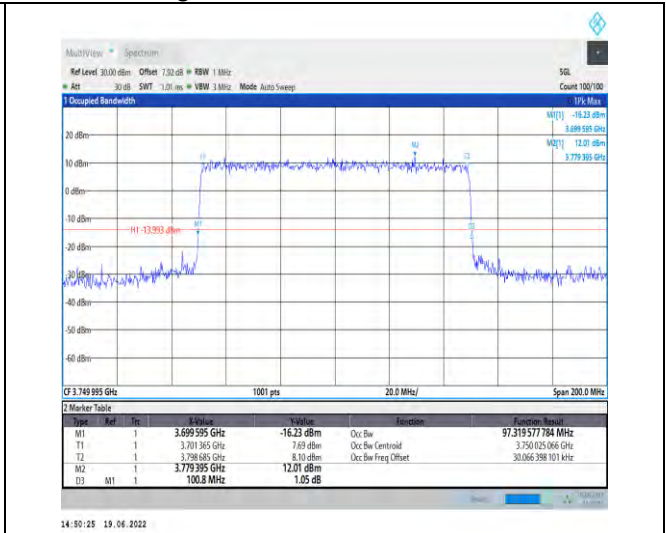
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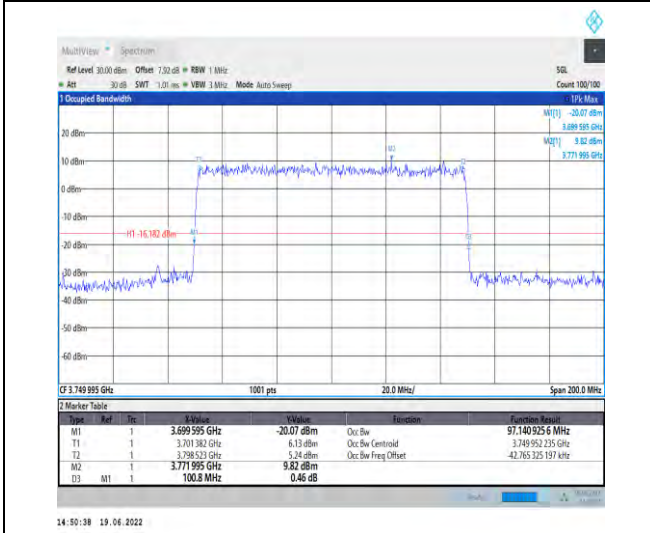
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1-N78-3700-3800-PC2-30-100-H-8-CP-64QAM-Outer\_Full-273@0-Ant1-97.32-100.800-≤100-PASS



1-N78-3700-3800-PC2-30-100-H-9-CP-256QAM-Outer\_Full-273@0-Ant1-97.141-100.800-≤100-PASS



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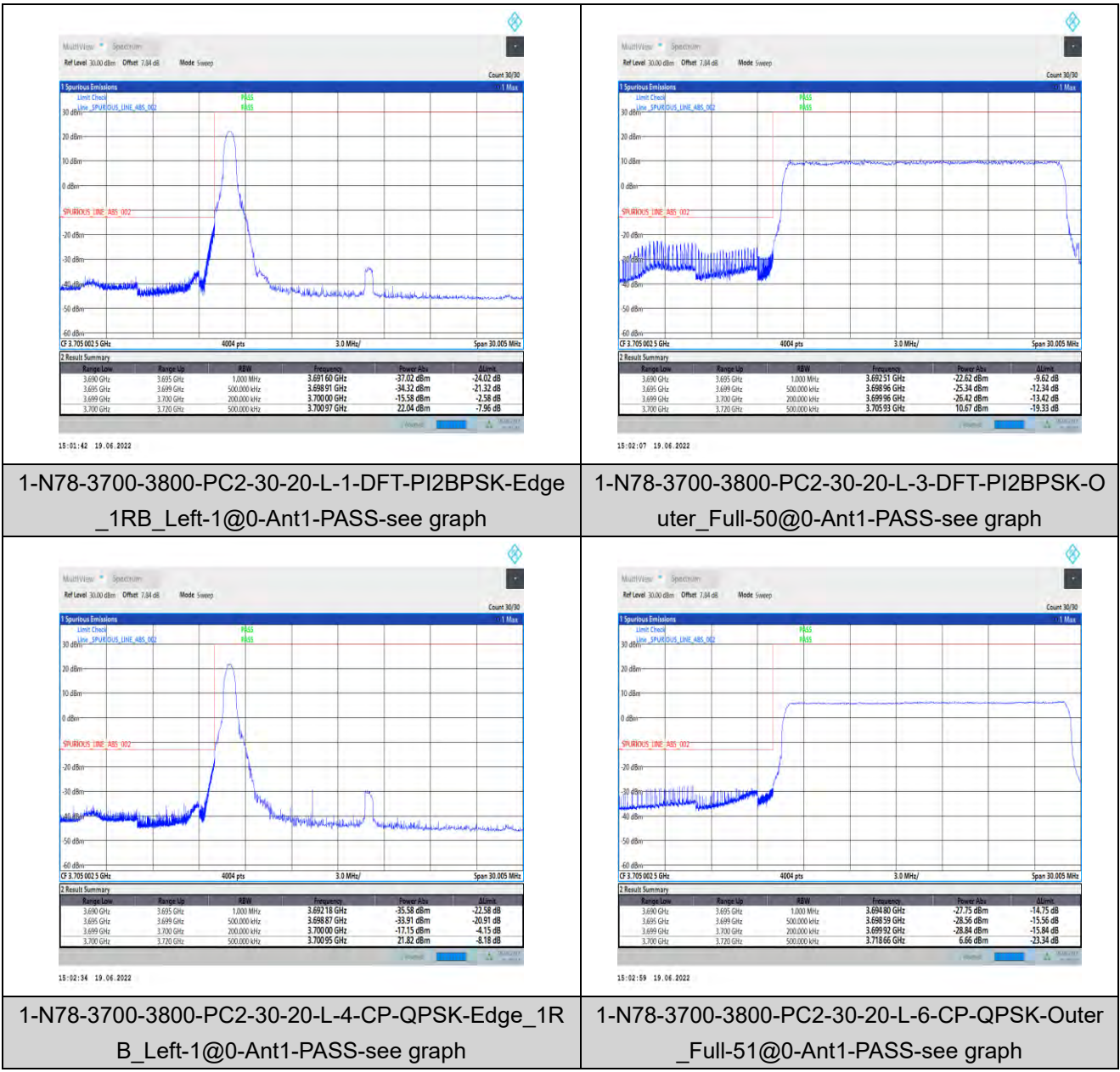
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## Band Edge for SA

### Test Graphs

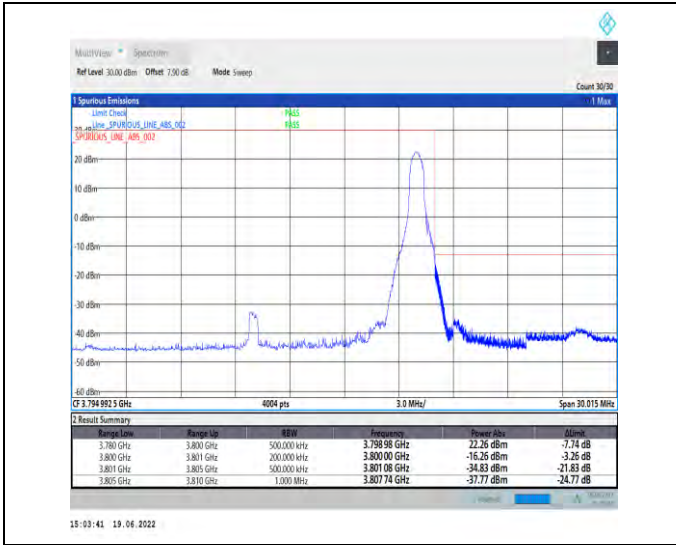


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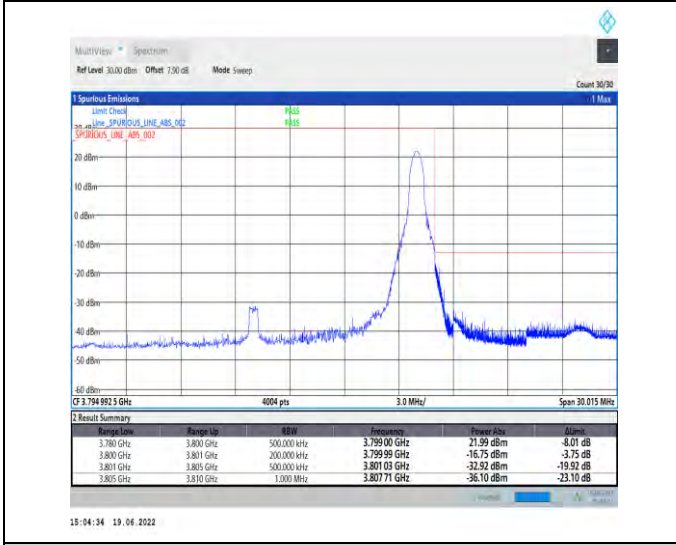




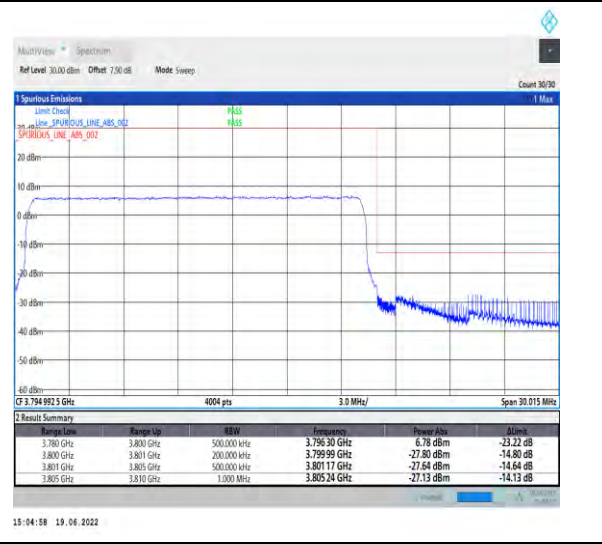
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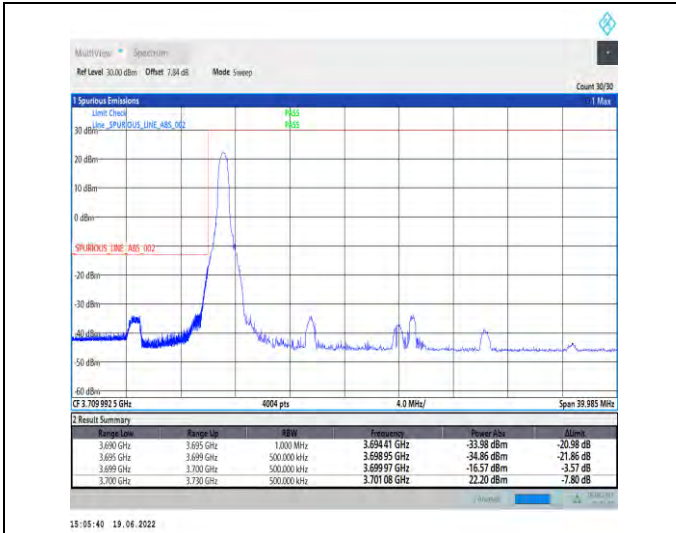


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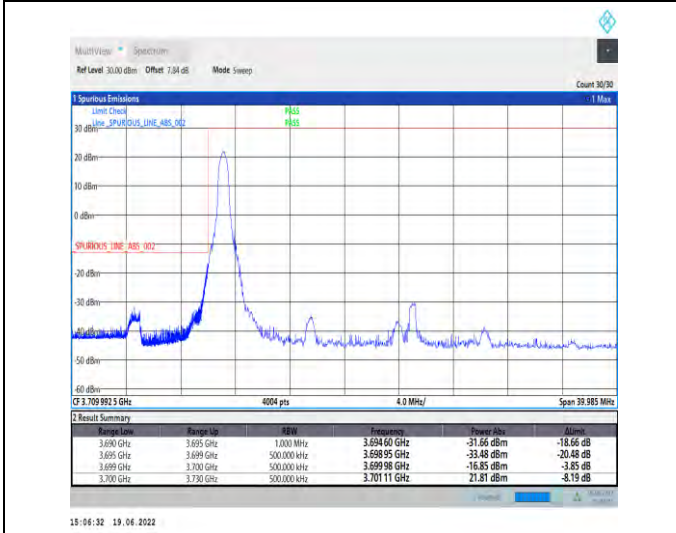
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1-N78-3700-3800-PC2-30-30-L-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-30-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-30-L-6-CP-QPSK-Outer\_Full-78@0-Ant1-PASS-see graph

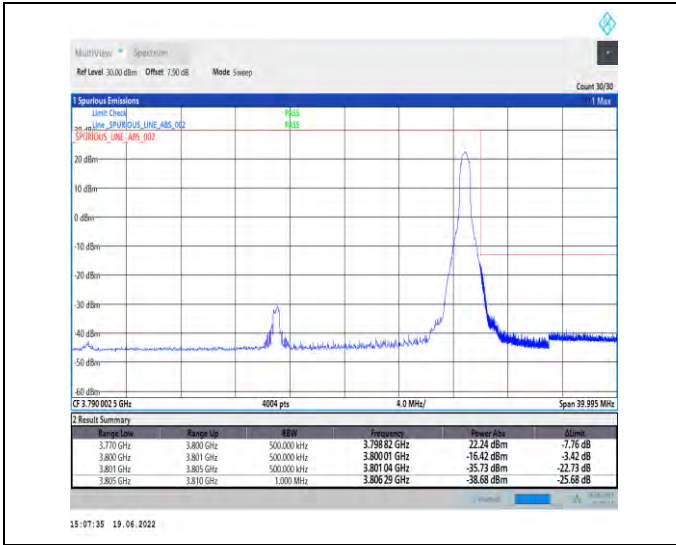


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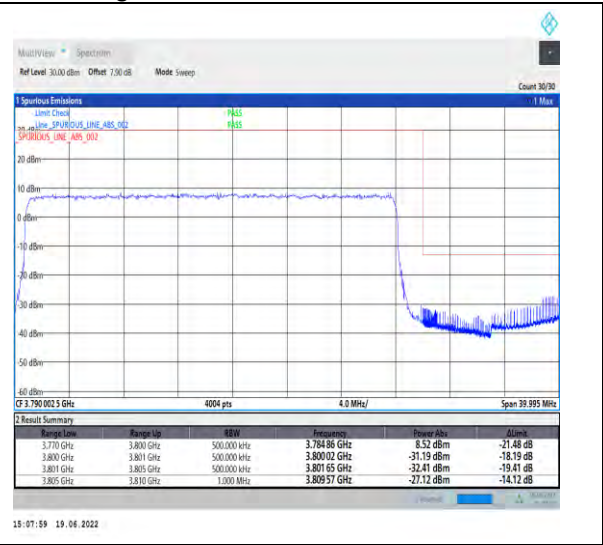
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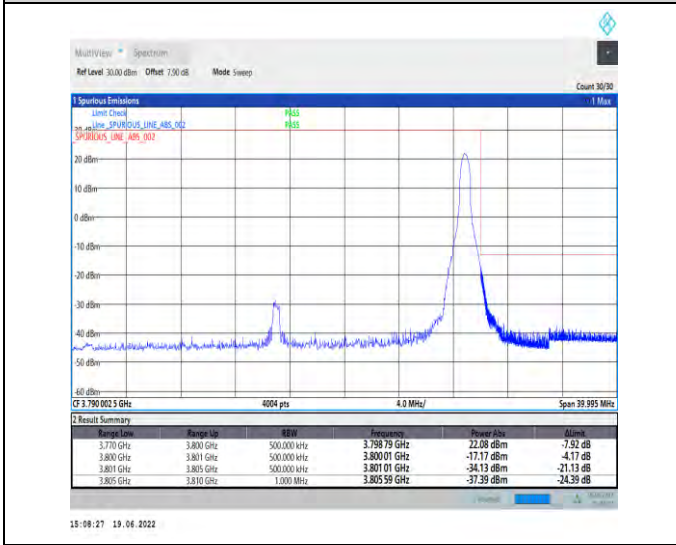
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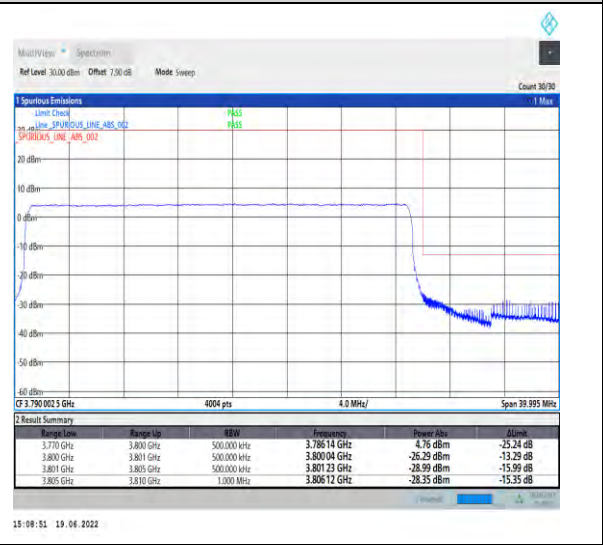
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1-N78-3700-3800-PC2-30-30-H-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-30-H-5-CP-QPSK-Edge\_1RB\_Right-1@77-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-30-H-6-CP-QPSK-Outer\_Full-78@0-Ant1-PASS-see graph

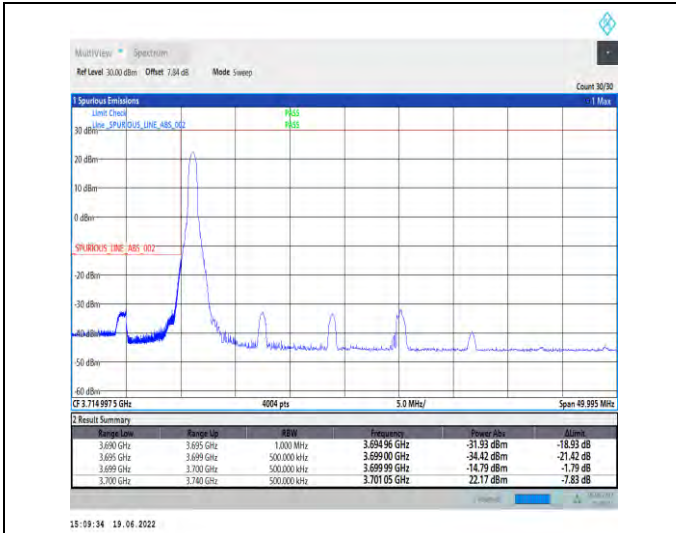


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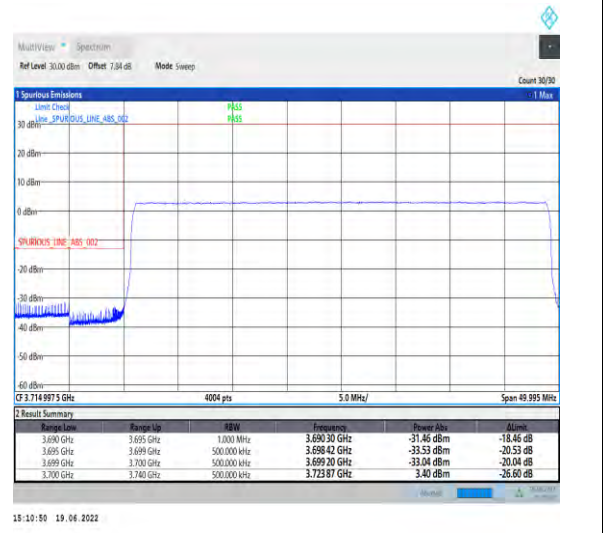
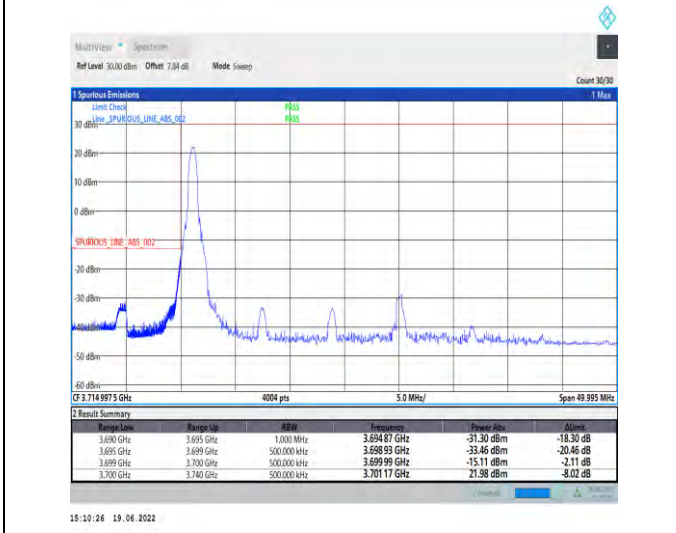
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1-N78-3700-3800-PC2-30-40-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph

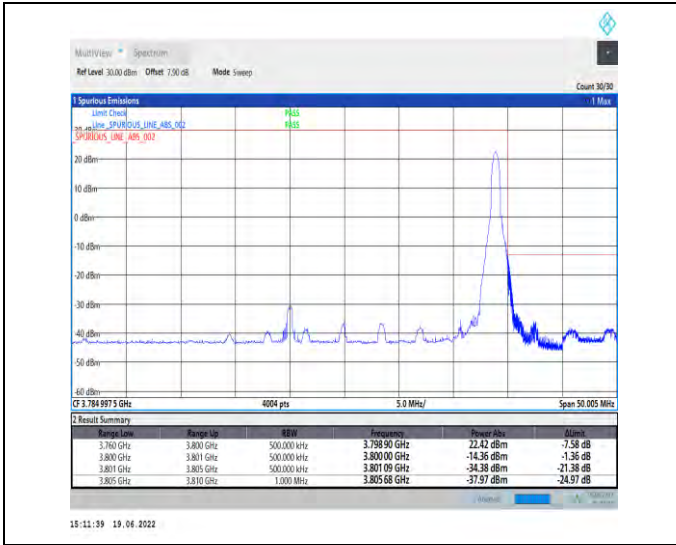
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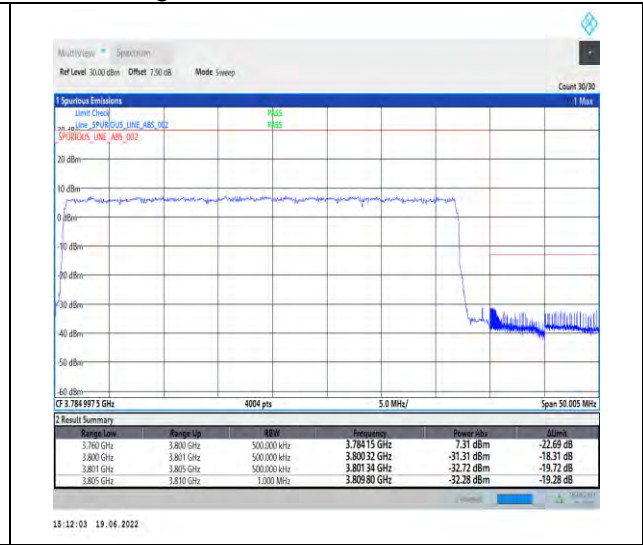
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1-N78-3700-3800-PC2-30-40-L-6-CP-QPSK-Outer\_Full-106@0-Ant1-PASS-see graph

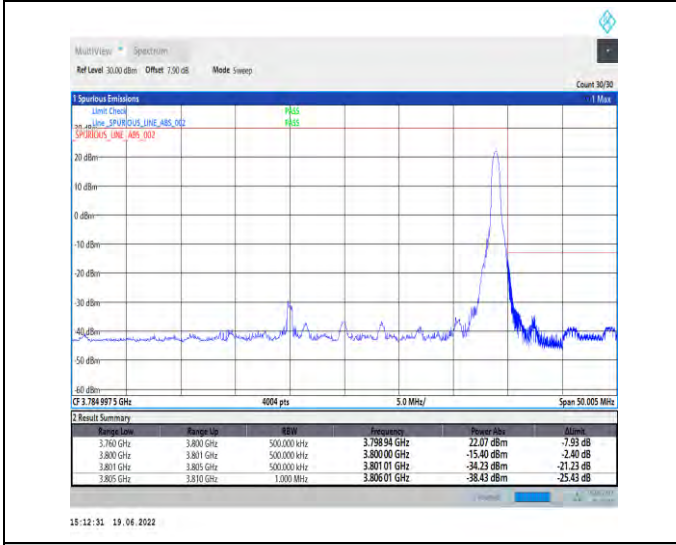




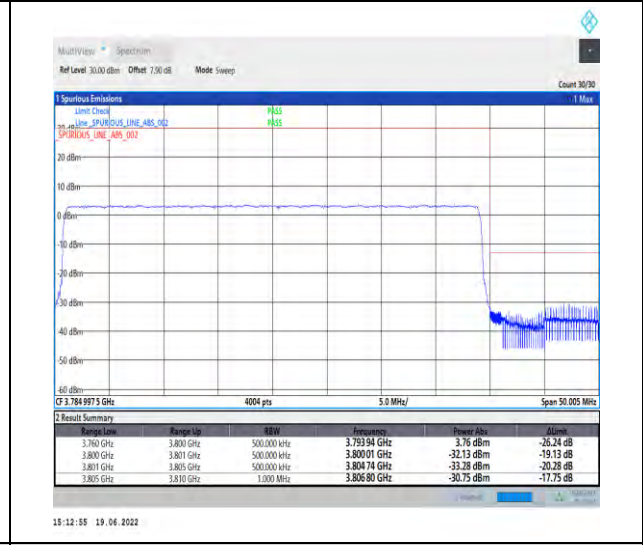
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1-N78-3700-3800-PC2-30-40-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-40-H-6-CP-QPSK-Outer\_Full-106@0-Ant1-PASS-see graph

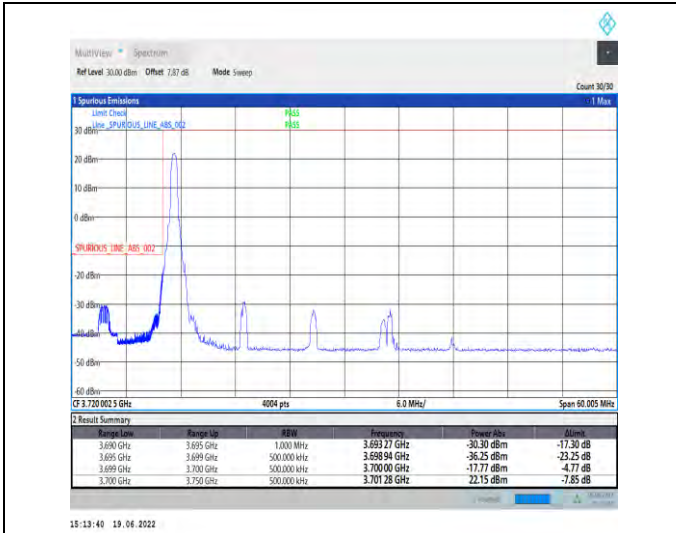


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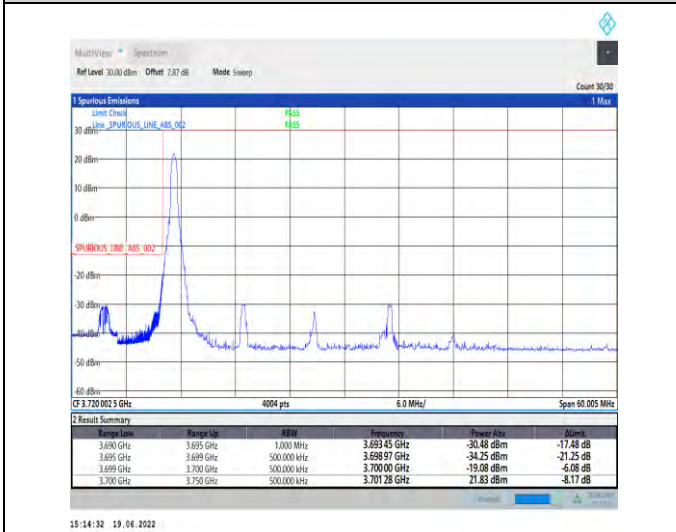
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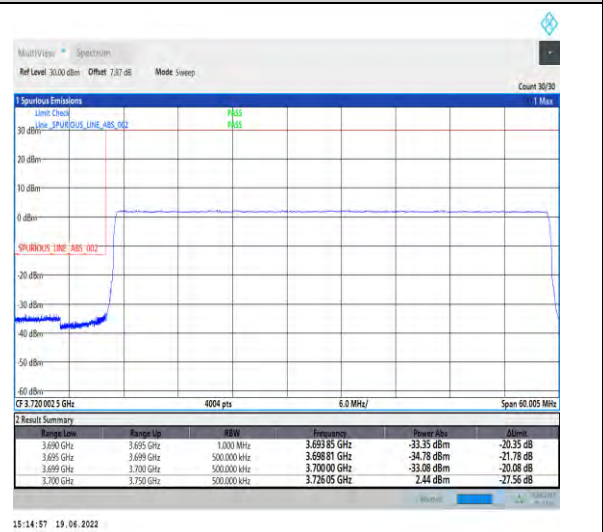
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1-N78-3700-3800-PC2-30-50-L-3-DFT-PI2BPSK-Outer\_Full-128@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-50-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-50-L-6-CP-QPSK-Outer\_Full-133@0-Ant1-PASS-see graph

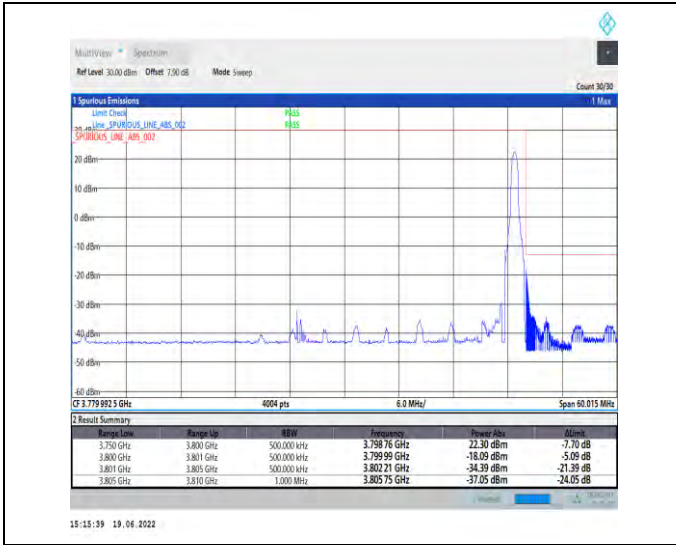


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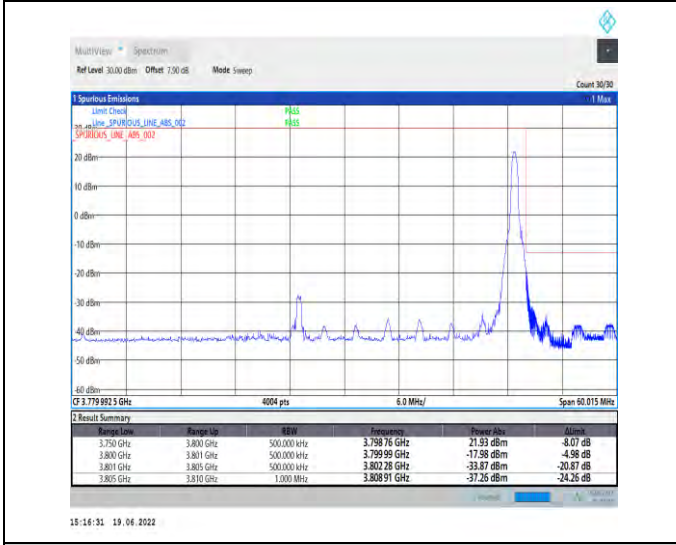
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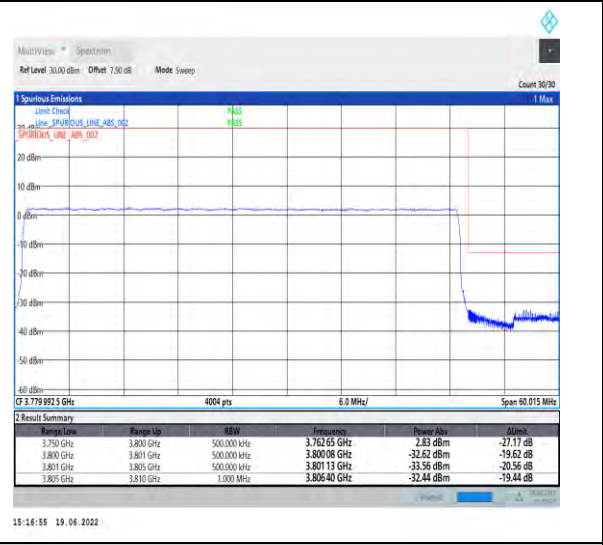
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1-N78-3700-3800-PC2-30-50-H-3-DFT-PI2BPSK-Outer\_Full-128@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-50-H-5-CP-QPSK-Edge\_1RB\_Right-1@132-Ant1-PASS-see graph



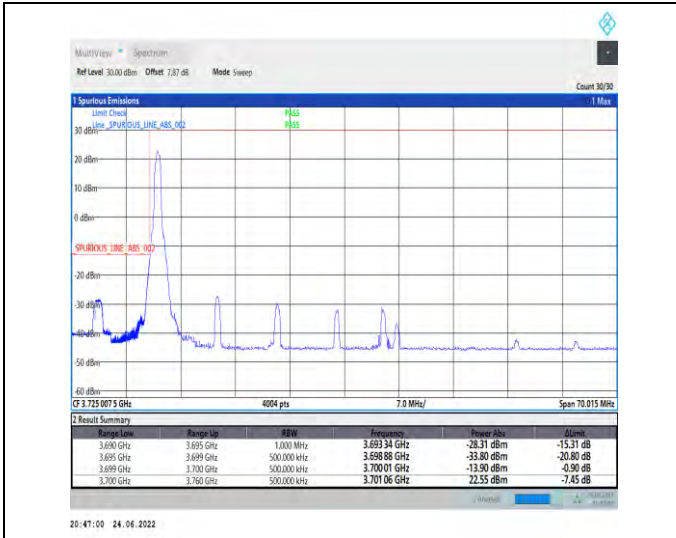
1-N78-3700-3800-PC2-30-50-H-6-CP-QPSK-Outer\_Full-133@0-Ant1-PASS-see graph



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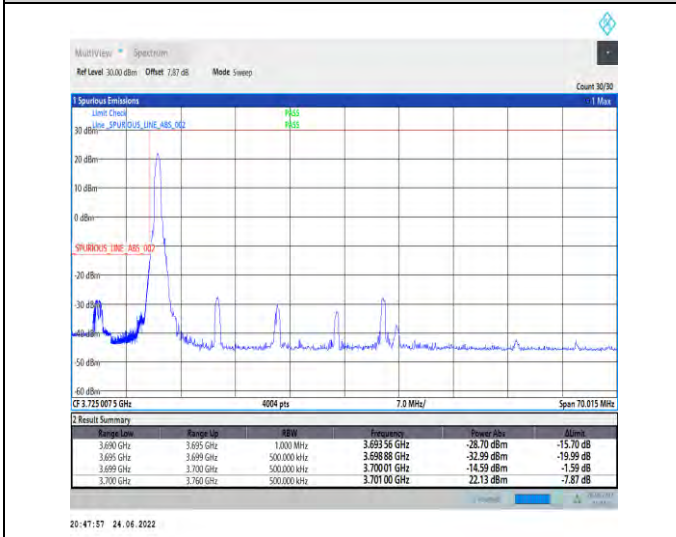
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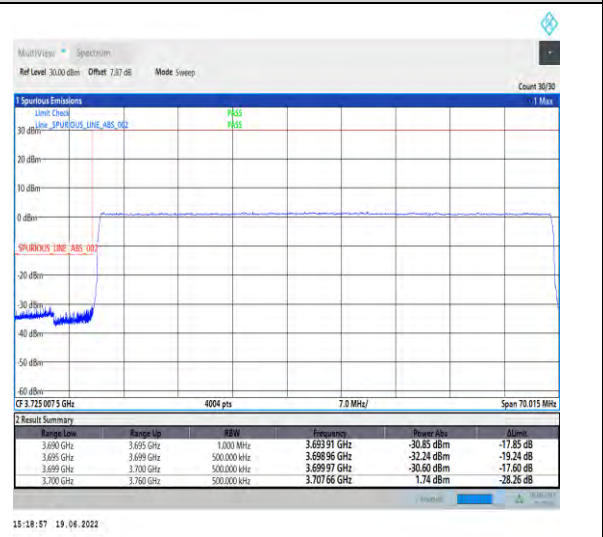
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1-N78-3700-3800-PC2-30-60-L-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-60-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-60-L-6-CP-QPSK-Outer\_Full-162@0-Ant1-PASS-see graph



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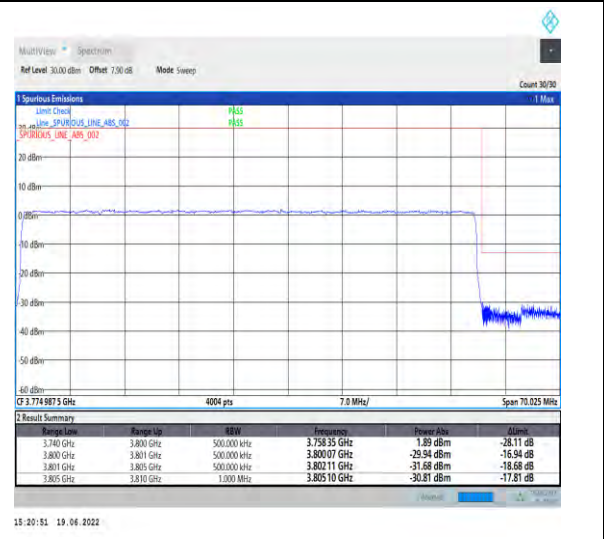
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1-N78-3700-3800-PC2-30-60-H-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-60-H-5-CP-QPSK-Edge\_1RB\_Right-1@161-Ant1-PASS-see graph



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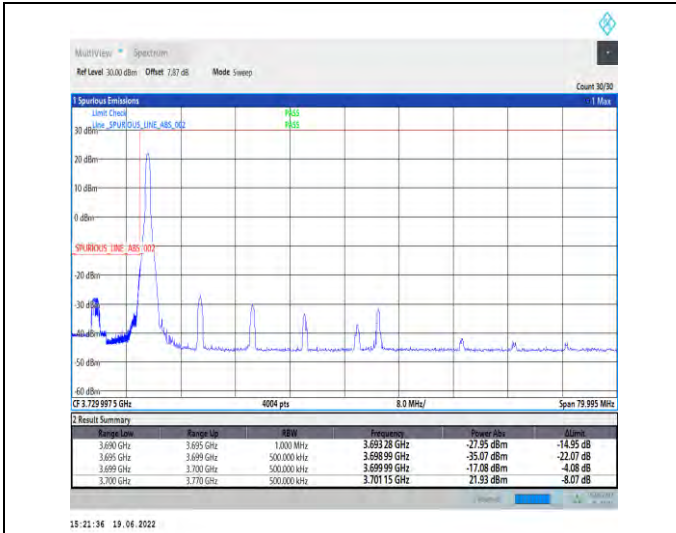


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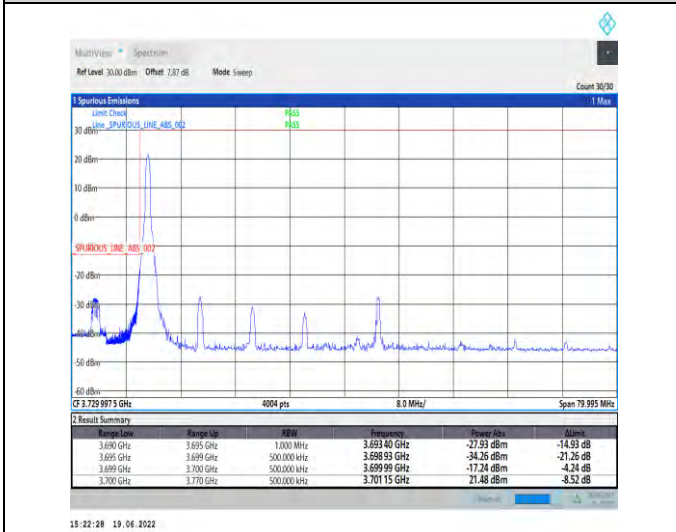
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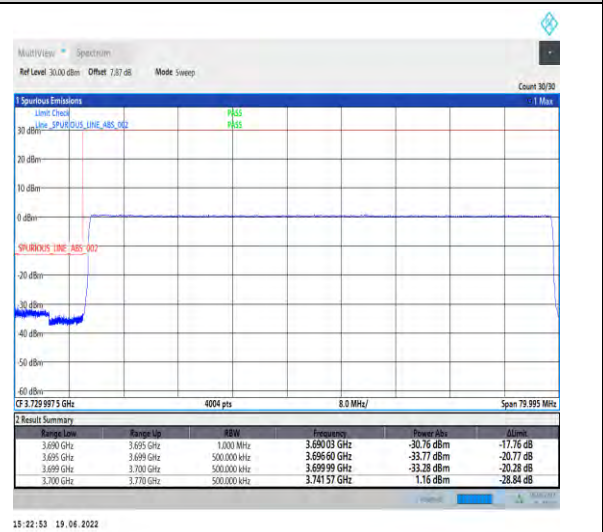
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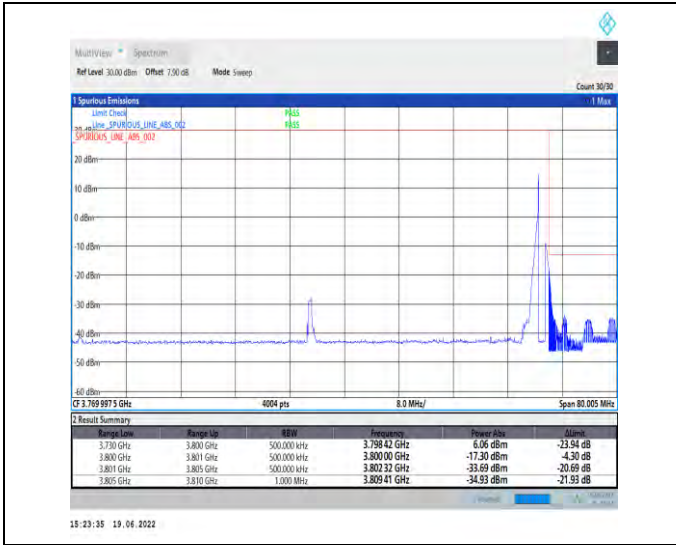
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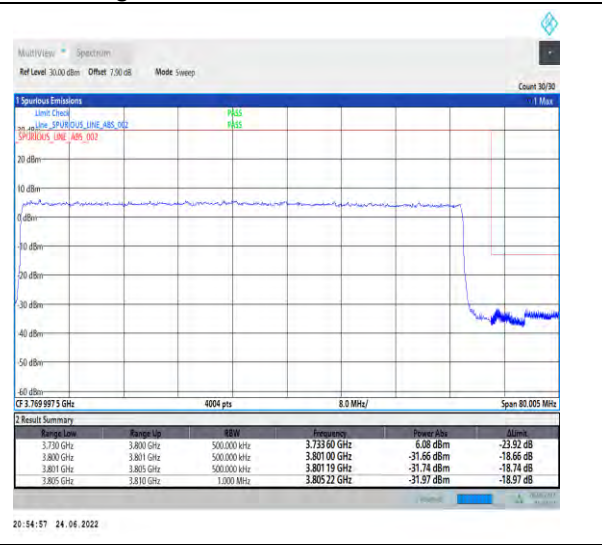
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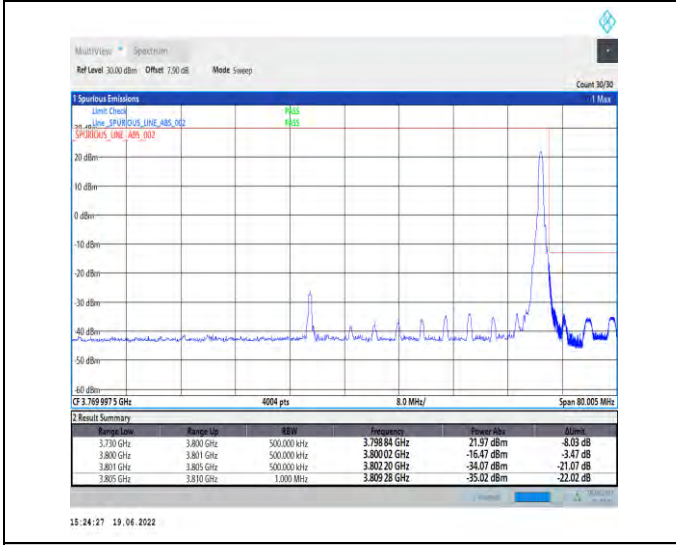
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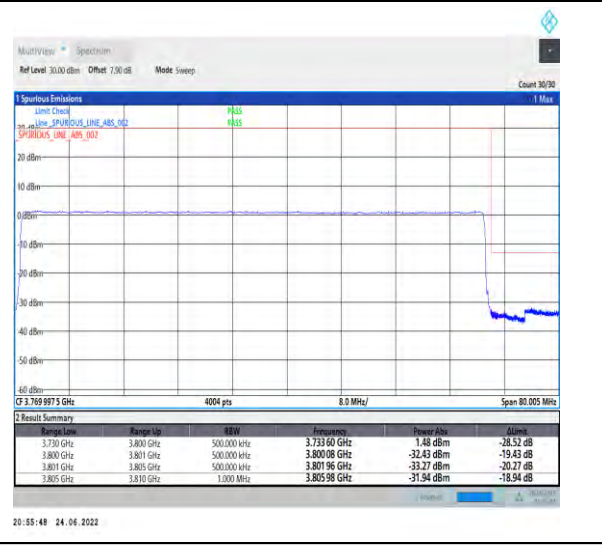
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1-N78-3700-3800-PC2-30-70-H-5-CP-QPSK-Edge\_1RB\_Right-1@188-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-70-H-6-CP-QPSK-Outer\_Full-189@0-Ant1-PASS-see graph

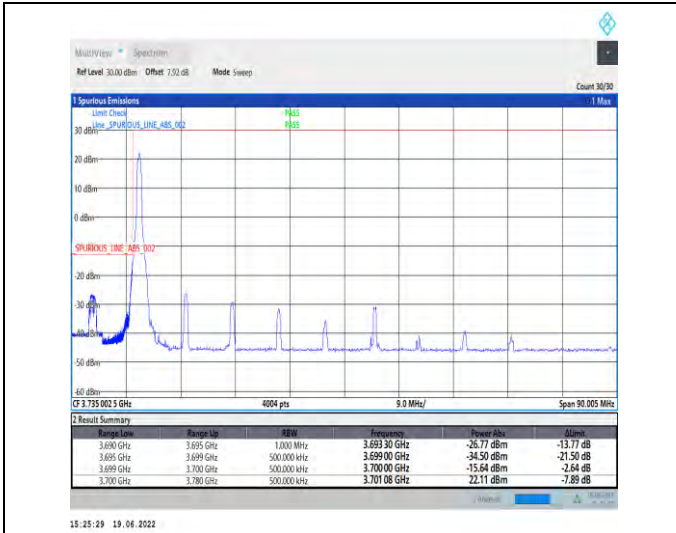


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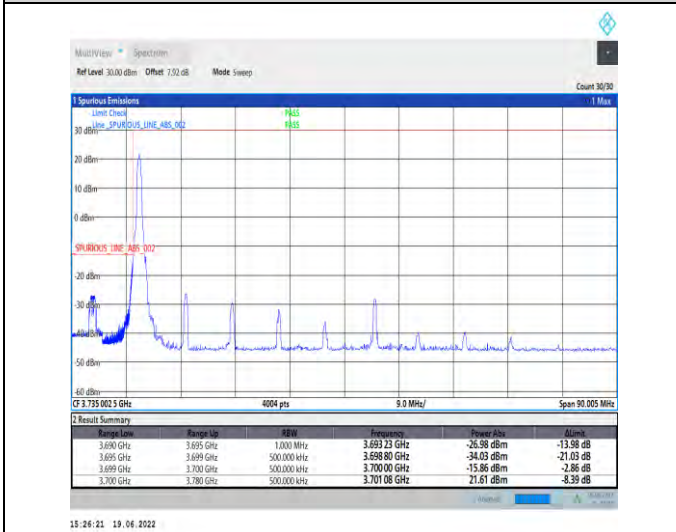
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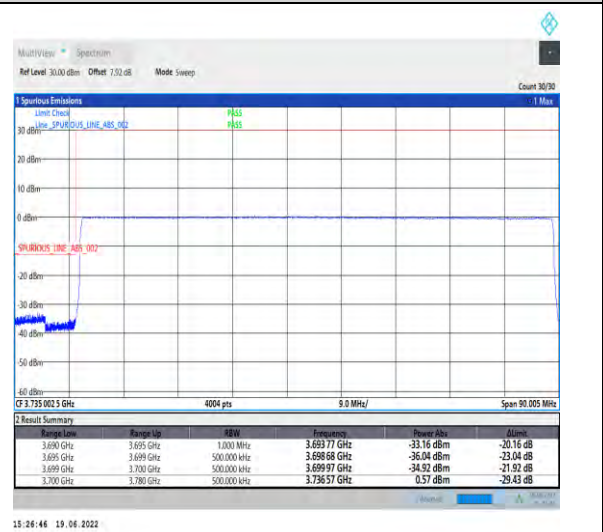
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1-N78-3700-3800-PC2-30-80-L-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-80-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-80-L-6-CP-QPSK-Outer\_Full-217@0-Ant1-PASS-see graph

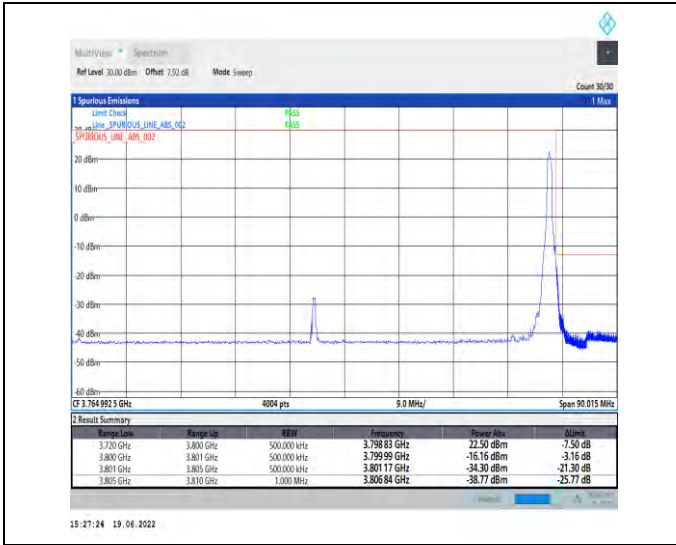


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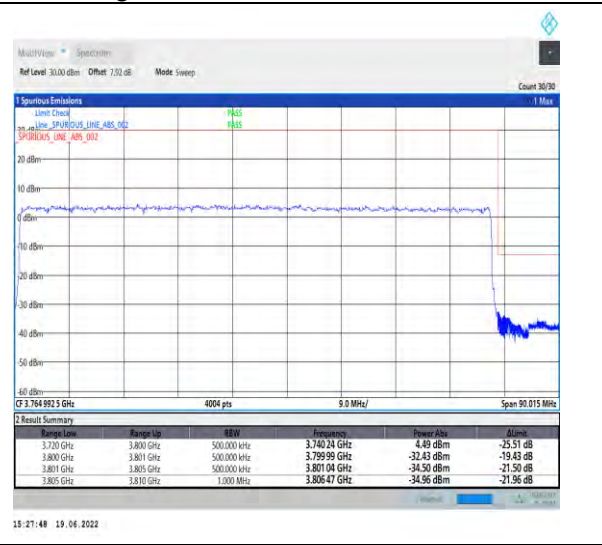
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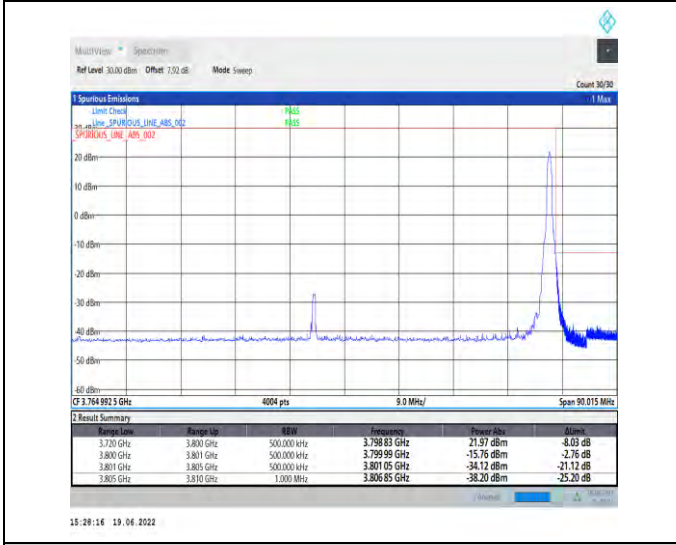
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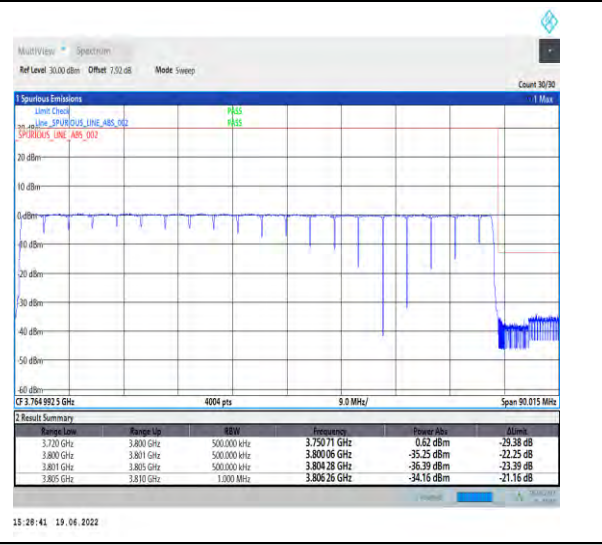
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1-N78-3700-3800-PC2-30-80-H-5-CP-QPSK-Edge\_1RB\_Right-1@216-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-80-H-6-CP-QPSK-Outer\_Full-217@0-Ant1-PASS-see graph

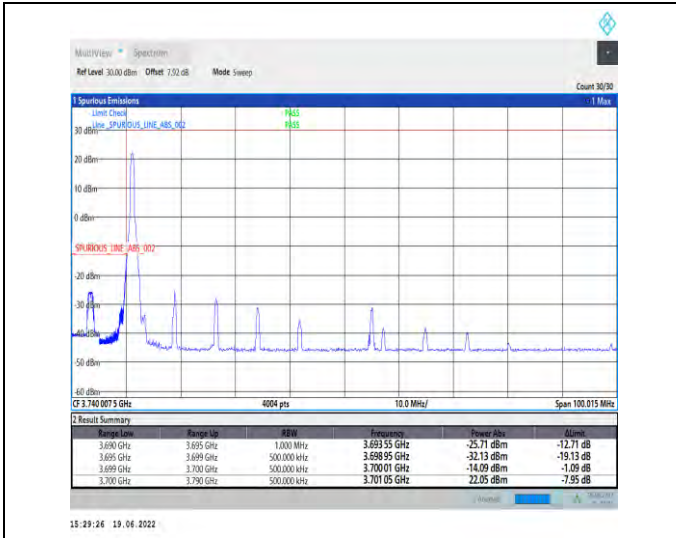


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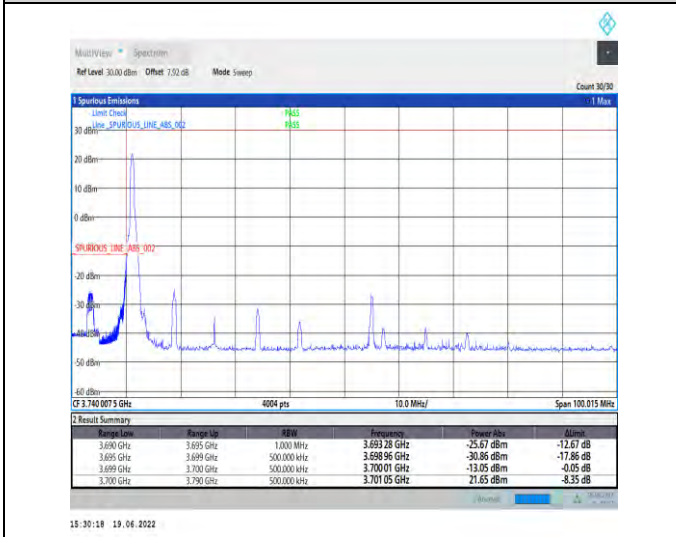
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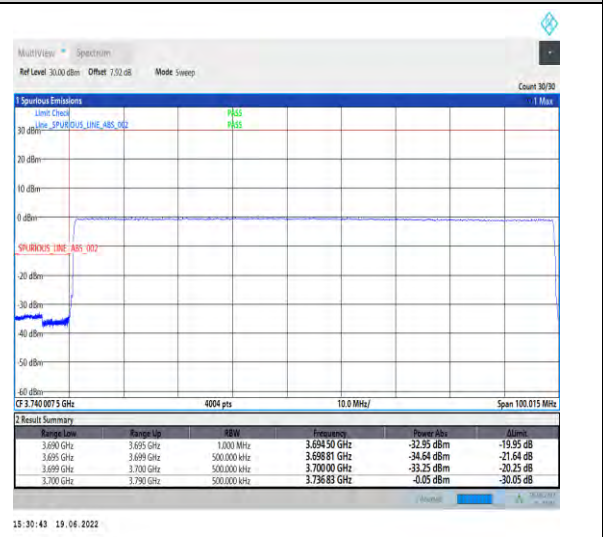
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1-N78-3700-3800-PC2-30-90-L-3-DFT-PI2BPSK-Outer\_Full-240@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-90-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph



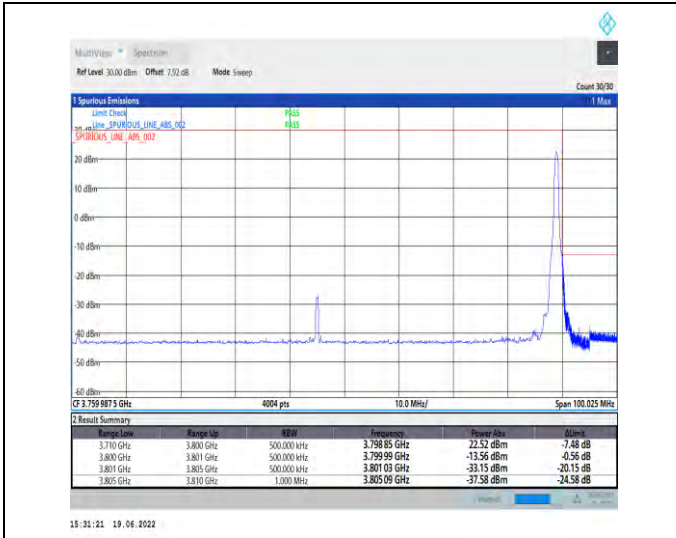
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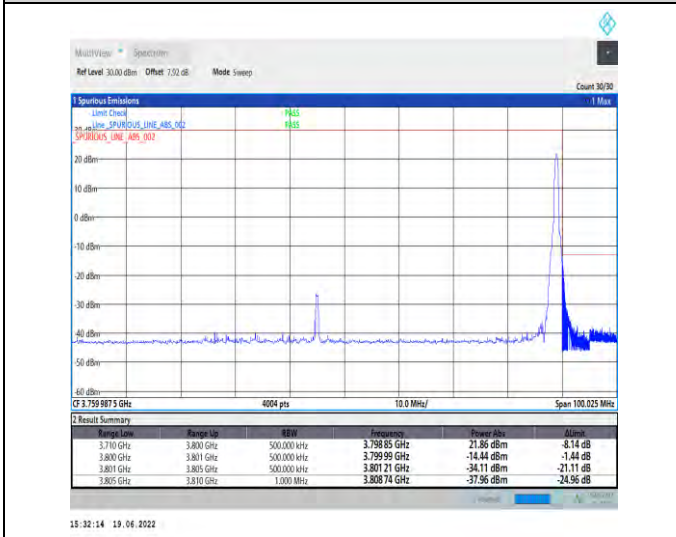
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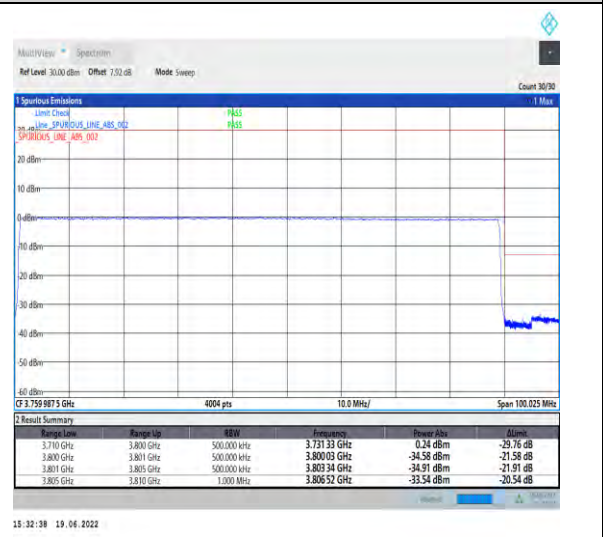
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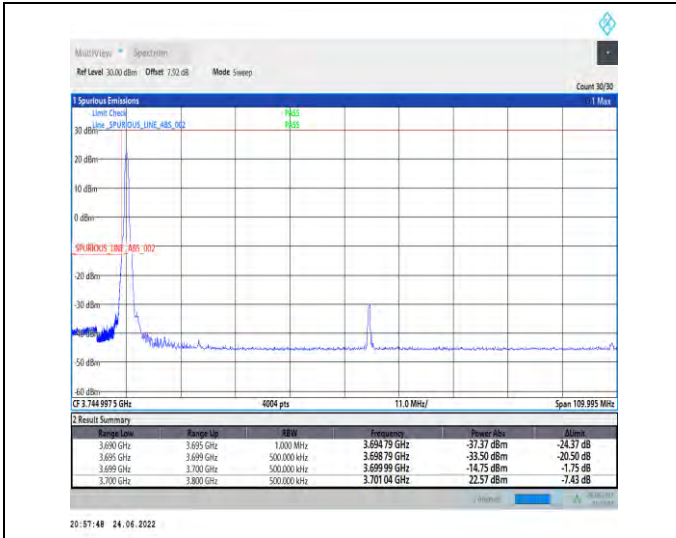


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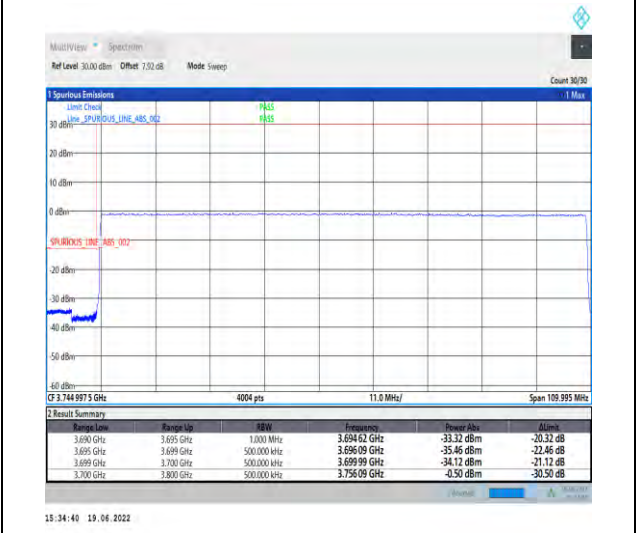
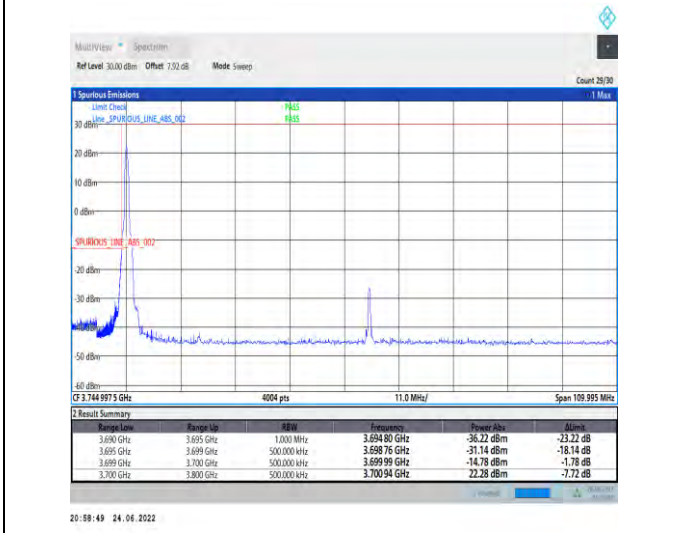
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1-N78-3700-3800-PC2-30-100-L-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant1-PASS-see graph

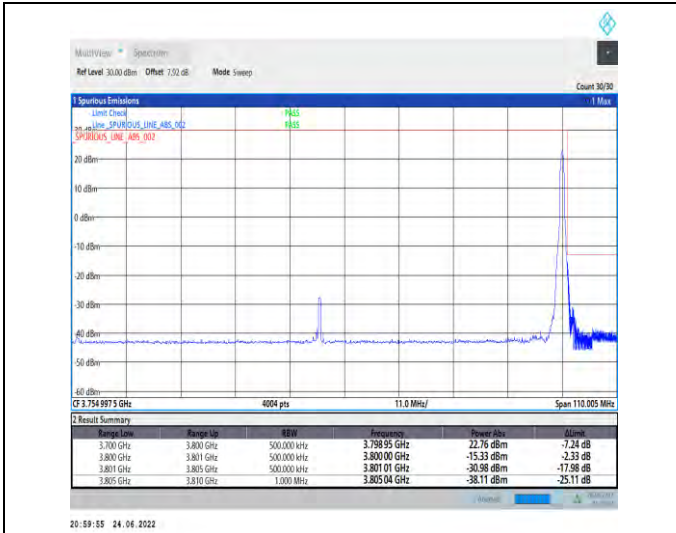


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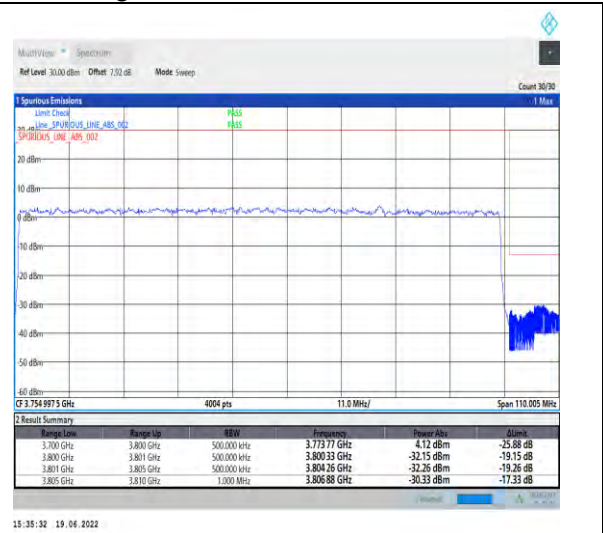
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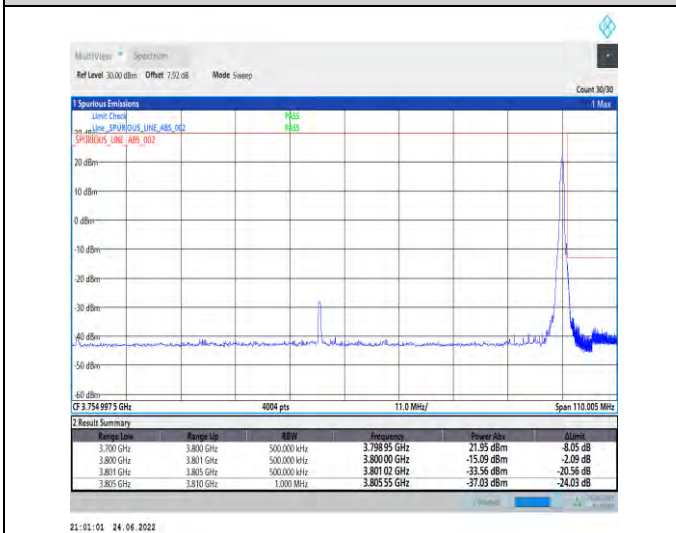




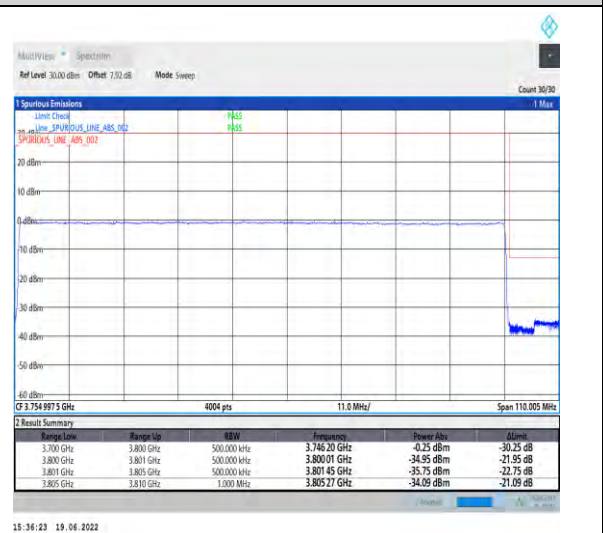
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1-N78-3700-3800-PC2-30-100-H-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-100-H-5-CP-QPSK-Edge\_1\_RB\_Right-1@272-Ant1-PASS-see graph



1-N78-3700-3800-PC2-30-100-H-6-CP-QPSK-Outer\_Full-273@0-Ant1-PASS-see graph



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### Test Graphs

<p>1-N78-3700-3800-PC2-30-100-L-1-DFT-PI2BPSK-In ner_1RB_Left-1@1-0.009-0.15-Ant1--89.00--43-PAS S</p>	<p>1-N78-3700-3800-PC2-30-100-L-1-DFT-PI2BPSK-In ner_1RB_Left-1@1-0.15-30-Ant1--86.33--33-PASS</p>
<p>1-N78-3700-3800-PC2-30-100-L-1-DFT-PI2BPSK-In ner_1RB_Left-1@1-30-1000-Ant1--66.45--13-PASS</p>	<p>1-N78-3700-3800-PC2-30-100-L-1-DFT-PI2BPSK-In ner_1RB_Left-1@1-1000-6000-Ant1--41.11--13-PAS S</p>

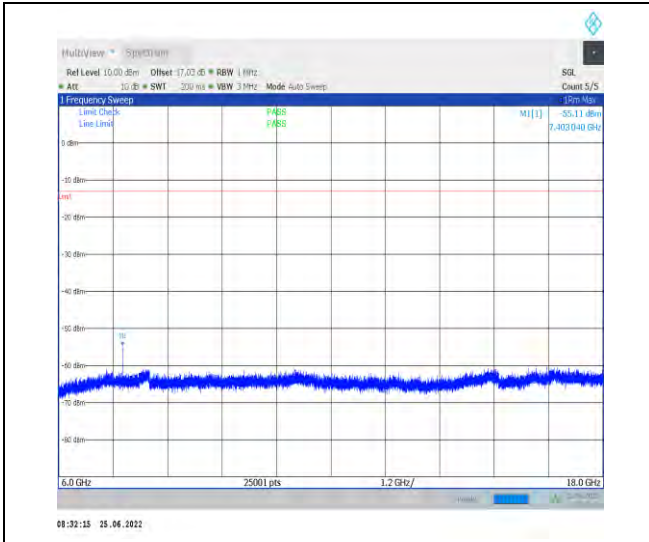


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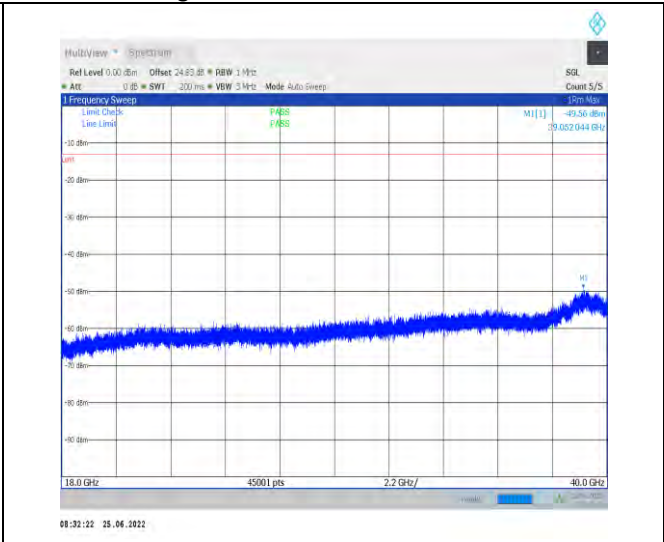
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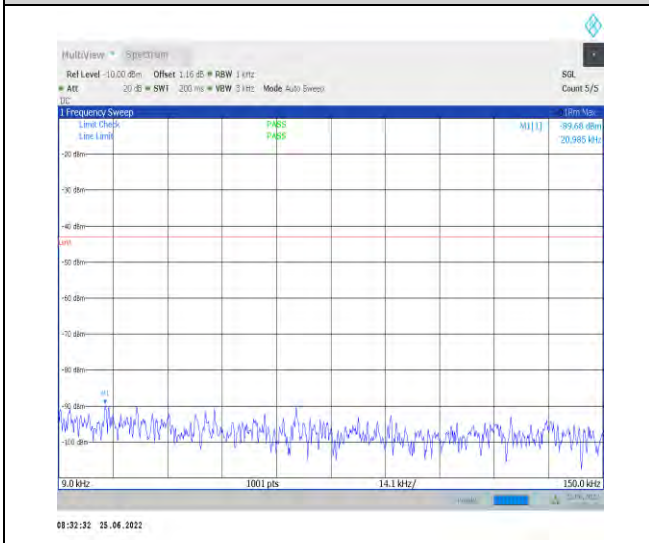
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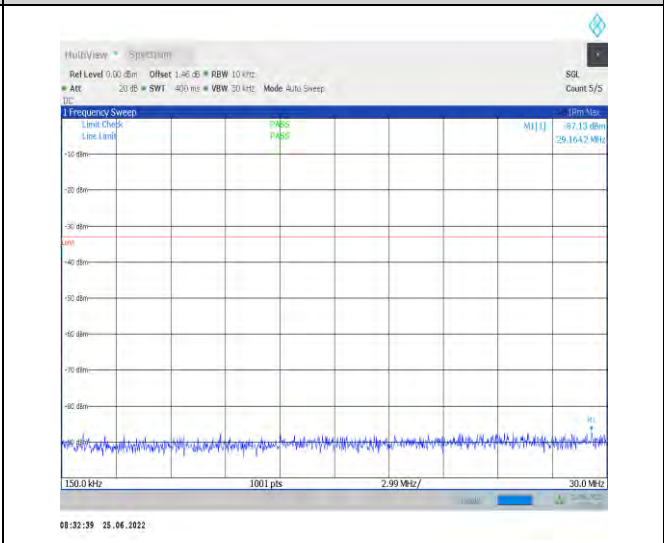
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SS



1-N78-3700-3800-PC2-30-100-L-1-DFT-PI2BPSK-In  
ner\_1RB\_Left-1@1-18000-40000-Ant1--49.56--13-P  
ASS



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SS



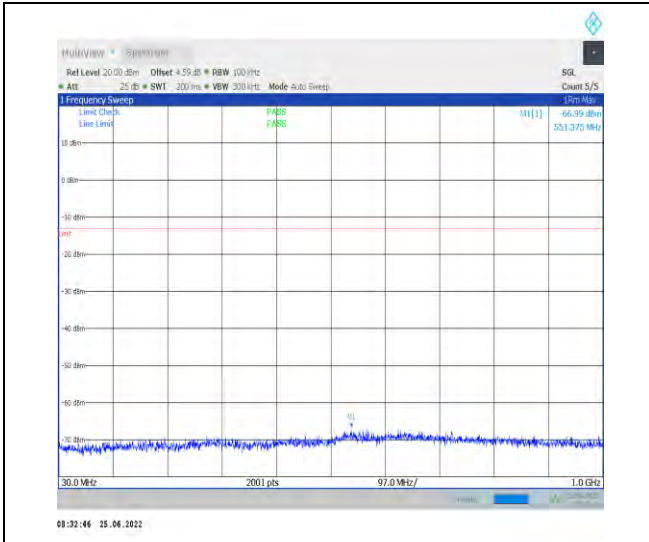
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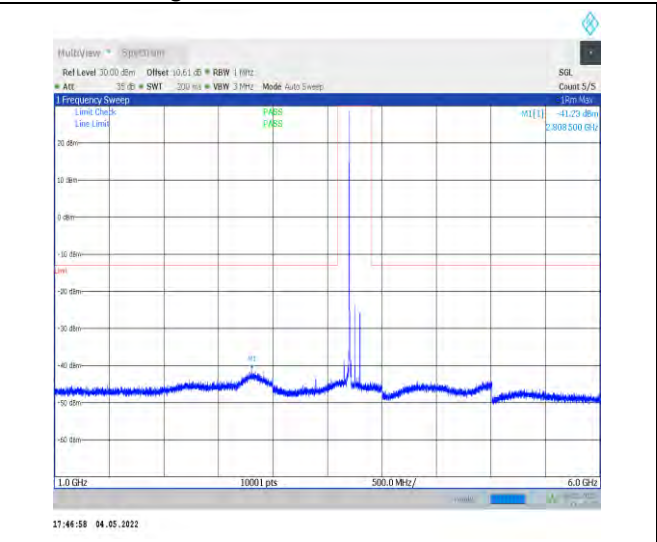
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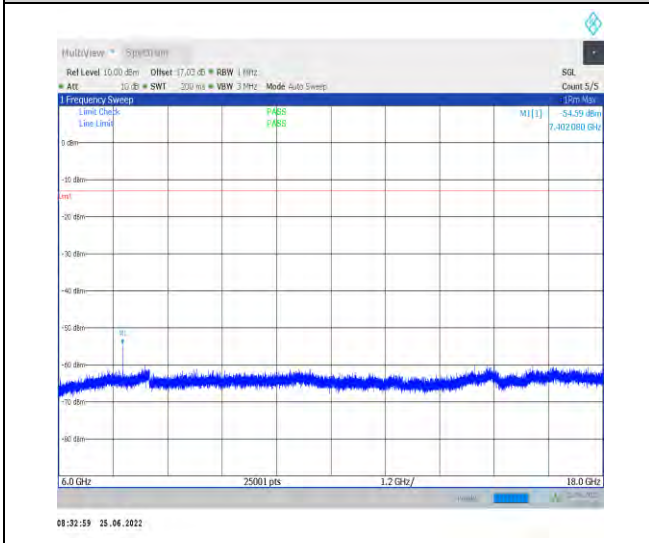
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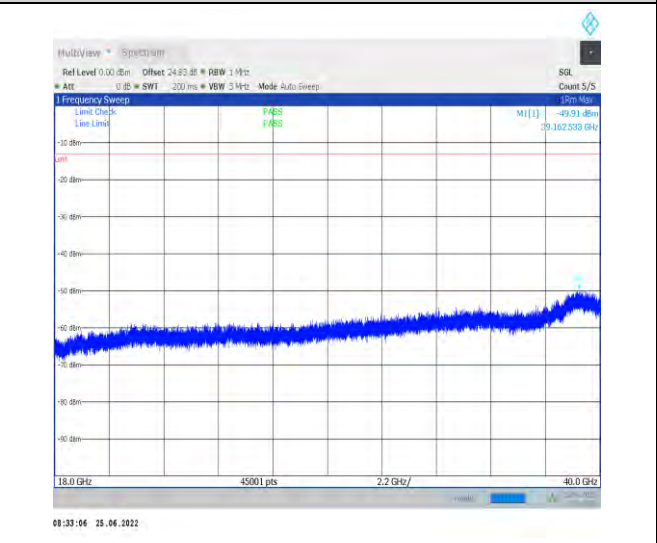
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S



1-N78-3700-3800-PC2-30-100-M-1-DFT-PI2BPSK-In  
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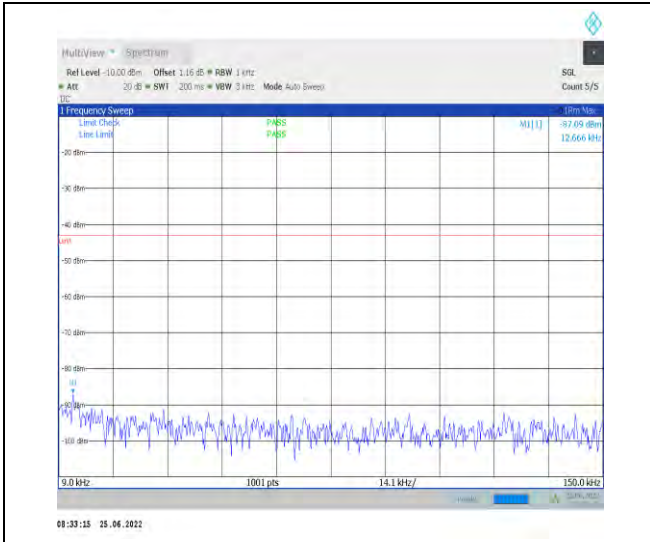


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ASS

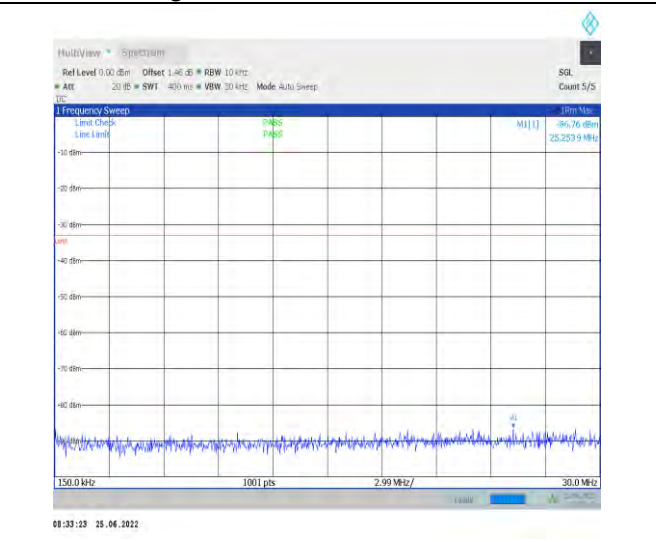


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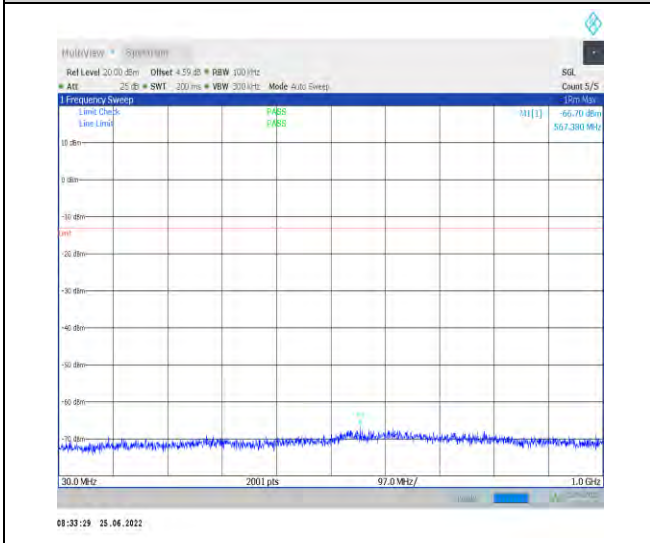




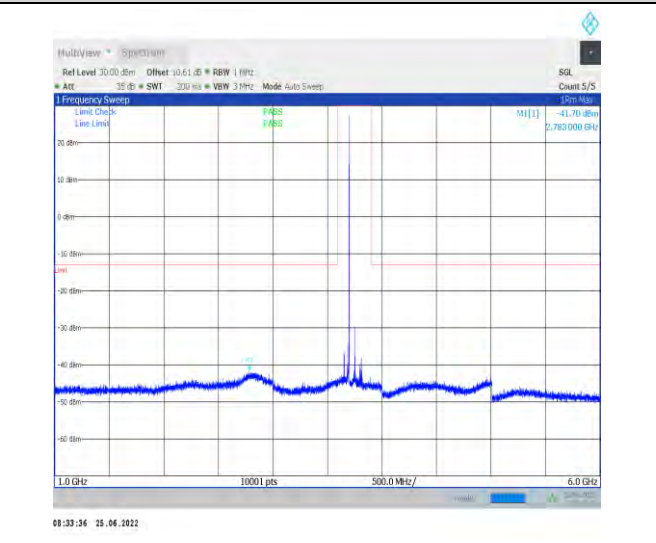
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S



1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-In  
ner\_1RB\_Left-1@1-0.15-30-Ant1--86.76--33-PASS



1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-In  
ner\_1RB\_Left-1@1-30-1000-Ant1--66.70--13-PASS



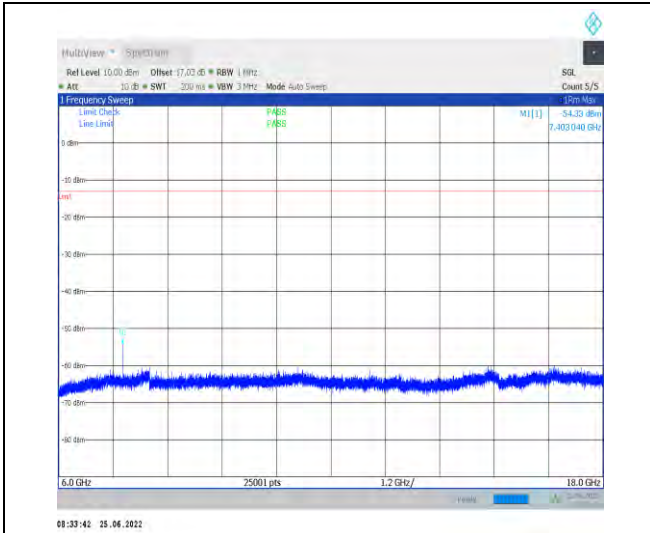
1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-In  
ner\_1RB\_Left-1@1-1000-6000-Ant1--41.70--13-PAS  
S



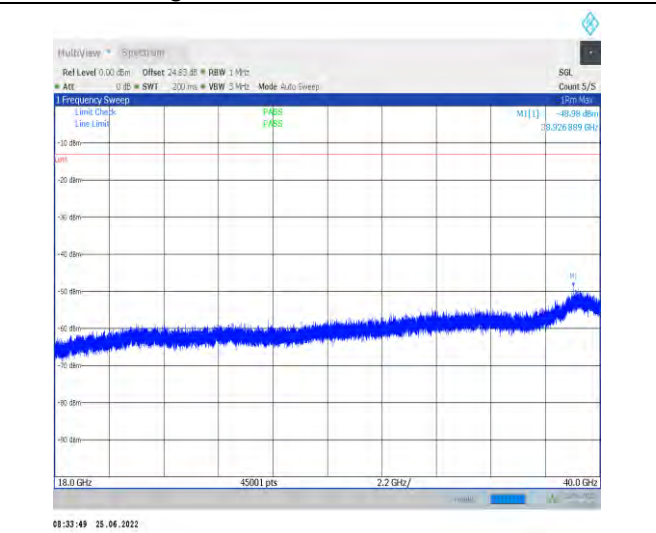
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1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-In  
ner\_1RB\_Left-1@1-6000-18000-Ant1--54.33--13-PA  
SS



1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-In  
ner\_1RB\_Left-1@1-18000-40000-Ant1--48.98--13-P  
ASS



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### Field Strength of Spurious Radiation

Test Band = SA Band78 3700M-3800M\_ 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	49.10	-101.99	-52.89	-13.00	39.89	125	195	Horizontal
2	8707.425	49.99	-98.66	-48.67	-13.00	35.67	164	135	Horizontal
3	10965.2700	43.76	-93.83	-50.07	-13.00	37.07	195	346	Horizontal
4	13319.5	45.12	-92.04	-46.92	-13.00	33.92	185	75	Horizontal
5	14620.3600	40.12	-90.58	-50.46	-13.00	37.46	174	164	Horizontal
6	15820.175	42.71	-90.37	-47.66	-13.00	34.66	230	150	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	49.42	-101.99	-52.57	-13.00	39.57	152	314	Vertical
2	8662	49.74	-98.58	-48.84	-13.00	35.84	236	117	Vertical
3	10965.2700	42.53	-93.83	-51.30	-13.00	38.30	194	146	Vertical
4	12797.4	44.60	-92.26	-47.66	-13.00	34.66	175	329	Vertical
5	14620.3600	41.00	-90.58	-49.58	-13.00	36.58	182	314	Vertical
6	17110.475	44.32	-90.55	-46.23	-13.00	33.23	142	209	Vertical



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Test Band = SA Band78 3700-3800\_ 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	7410.1800	48.15	-101.60	-53.45	-13.00	40.45	125	76	Horizontal
2	8644.175	48.69	-98.53	-49.84	-13.00	36.84	236	356	Horizontal
3	11115.2700	41.99	-93.74	-51.75	-13.00	38.75	164	44	Horizontal
4	13632.875	43.74	-91.16	-47.42	-13.00	34.42	175	208	Horizontal
5	14820.3600	41.57	-90.67	-49.10	-13.00	36.10	199	344	Horizontal
6	16960.4	44.85	-90.62	-45.77	-13.00	32.77	180	225	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	49.40	-101.60	-52.20	-13.00	39.20	156	121	Vertical
2	8683.85	48.80	-98.64	-49.84	-13.00	36.84	194	76	Vertical
3	9289.325	48.16	-96.91	-48.75	-13.00	35.75	185	90	Vertical
4	11115.2700	41.32	-93.74	-52.42	-13.00	39.42	172	344	Vertical
5	13692.675	43.41	-91.19	-47.78	-13.00	34.78	236	0	Vertical
6	14820.3600	39.99	-90.67	-50.68	-13.00	37.68	201	121	Vertical



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Test Band = SA Band78 3700-3800\_ 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	7510.1800	48.30	-101.95	-53.65	-13.00	40.65	233	105	Horizontal
2	8375.075	49.54	-99.46	-49.92	-13.00	36.92	215	60	Horizontal
3	11265.2700	44.55	-93.16	-48.61	-13.00	35.61	164	0	Horizontal
4	12829.6	45.74	-92.29	-46.55	-13.00	33.55	184	356	Horizontal
5	15020.3600	40.05	-90.50	-50.45	-13.00	37.45	175	180	Horizontal
6	16620.575	45.37	-91.69	-46.32	-13.00	33.32	190	163	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.1800	49.02	-101.95	-52.93	-13.00	39.93	296	194	Vertical
2	8355.525	49.72	-99.58	-49.86	-13.00	36.86	184	0	Vertical
3	11265.2700	42.41	-93.16	-50.75	-13.00	37.75	175	72	Vertical
4	13686.925	44.94	-91.19	-46.25	-13.00	33.25	263	252	Vertical
5	15020.3600	40.39	-90.50	-50.11	-13.00	37.11	251	103	Vertical
6	16981.675	44.93	-90.53	-45.60	-13.00	32.60	144	329	Vertical



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Test Band = NSA 2A-n78A 3700-3800\_ 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	1099.375	45.89	-94.91	-49.02	-13.00	36.02	178	172	Horizontal
2	5898.1667	53.95	-105.79	-51.84	-13.00	38.84	147	134	Horizontal
3	7310.1800	47.51	-102.24	-54.73	-13.00	41.73	129	118	Horizontal
4	9830.4167	51.03	-96.29	-45.26	-13.00	32.26	286	68	Horizontal
5	10965.2700	41.48	-93.87	-52.39	-13.00	39.39	203	102	Horizontal
6	14620.3600	39.09	-90.62	-51.53	-13.00	38.53	126	8	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2125.375	43.07	-92.35	-49.28	-13.00	36.28	158	116	Vertical
2	2875.375	39.63	-89.31	-49.68	-13.00	36.68	134	253	Vertical
3	7310.1800	47.68	-102.24	-54.56	-13.00	41.56	175	114	Vertical
4	9830.4167	51.75	-96.29	-44.54	-13.00	31.54	245	0	Vertical
5	10965.2700	40.27	-93.87	-53.60	-13.00	40.60	273	245	Vertical
6	14620.3600	38.90	-90.62	-51.72	-13.00	38.72	186	7	Vertical



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Test Band = NSA 2A-n78A 3700-3800\_ 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	1153.75	43.62	-94.90	-51.28	-13.00	38.28	285	183	Horizontal
2	7410.1800	47.75	-102.01	-54.26	-13.00	41.26	268	182	Horizontal
3	9830.4167	50.87	-96.29	-45.42	-13.00	32.42	241	84	Horizontal
4	11115.2700	40.43	-93.81	-53.38	-13.00	40.38	155	197	Horizontal
5	11796.25	48.32	-93.82	-45.50	-13.00	32.50	174	0	Horizontal
6	14820.3600	38.66	-90.82	-52.16	-13.00	39.16	165	346	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1077.25	41.88	-94.68	-52.80	-13.00	39.80	285	275	Vertical
2	2125.375	43.55	-92.35	-48.80	-13.00	35.80	244	114	Vertical
3	7410.1800	47.24	-102.01	-54.77	-13.00	41.77	145	0	Vertical
4	9830.4167	51.40	-96.29	-44.89	-13.00	31.89	225	200	Vertical
5	11115.2700	40.31	-93.81	-53.50	-13.00	40.50	244	84	Vertical
6	14820.3600	39.06	-90.82	-51.76	-13.00	38.76	177	9	Vertical



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Test Band = NSA 2A-n78A 3700-3800\_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	5898.1667	53.65	-105.79	-52.14	-13.00	39.14	284	164	Horizontal
2	7510.1800	47.52	-101.80	-54.28	-13.00	41.28	244	32	Horizontal
3	9830.4167	51.46	-96.29	-44.83	-13.00	31.83	288	66	Horizontal
4	11265.2700	40.72	-93.77	-53.05	-13.00	40.05	261	261	Horizontal
5	11796.25	48.60	-93.82	-45.22	-13.00	32.22	244	147	Horizontal
6	15020.3600	37.95	-90.68	-52.73	-13.00	39.73	144	114	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1075.75	41.45	-94.66	-53.21	-13.00	40.21	288	242	Vertical
2	2125	43.42	-92.36	-48.94	-13.00	35.94	241	102	Vertical
3	7510.1800	47.47	-101.80	-54.33	-13.00	41.33	244	7	Vertical
4	9830.4167	51.89	-96.29	-44.40	-13.00	31.40	174	329	Vertical
5	11265.2700	41.02	-93.77	-52.75	-13.00	39.75	141	262	Vertical
6	15020.3600	37.57	-90.68	-53.11	-13.00	40.11	198	48	Vertical



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**Test Band = NSA 5A-n78A 3700-3800\_ 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	47.09	-101.99	-54.90	-13.00	41.90	236	287	Horizontal
2	8416.475	48.44	-99.34	-50.90	-13.00	37.90	216	121	Horizontal
3	10965.2700	40.83	-93.83	-53.00	-13.00	40.00	194	61	Horizontal
4	12703.675	42.19	-92.62	-50.43	-13.00	37.43	175	226	Horizontal
5	14620.3600	38.67	-90.58	-51.91	-13.00	38.91	182	4	Horizontal
6	17103	42.53	-90.47	-47.94	-13.00	34.94	155	166	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.78	-101.99	-54.21	-13.00	41.21	211	317	Vertical
2	8329.075	49.03	-99.74	-50.71	-13.00	37.71	253	4	Vertical
3	10965.2700	41.12	-93.83	-52.71	-13.00	39.71	263	179	Vertical
4	12822.125	41.41	-92.28	-50.87	-13.00	37.87	261	352	Vertical
5	14620.3600	39.30	-90.58	-51.28	-13.00	38.28	194	179	Vertical
6	15345.225	40.23	-90.47	-50.24	-13.00	37.24	175	344	Vertical



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Test Band = NSA 5A-n78A 3700-3800\_ 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	7410.1800	47.87	-101.60	-53.73	-13.00	40.73	254	360	Horizontal
2	8814.95	48.87	-98.28	-49.41	-13.00	36.41	184	120	Horizontal
3	11115.2700	41.18	-93.74	-52.56	-13.00	39.56	175	151	Horizontal
4	12923.9	42.25	-92.48	-50.23	-13.00	37.23	136	29	Horizontal
5	14820.3600	39.47	-90.67	-51.20	-13.00	38.20	216	74	Horizontal
6	16877.6	42.68	-91.01	-48.33	-13.00	35.33	255	57	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	48.34	-101.60	-53.26	-13.00	40.26	195	30	Vertical
2	8504.45	49.05	-99.47	-50.42	-13.00	37.42	174	242	Vertical
3	11115.2700	40.56	-93.74	-53.18	-13.00	40.18	122	227	Vertical
4	12231.025	42.40	-93.10	-50.70	-13.00	37.70	256	165	Vertical
5	14820.3600	37.99	-90.67	-52.68	-13.00	39.68	236	358	Vertical
6	16942	43.41	-90.69	-47.28	-13.00	34.28	301	317	Vertical



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Test Band = NSA 5A-n78A 3700-3800\_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	7510.1800	47.94	-101.95	-54.01	-13.00	41.01	284	88	Horizontal
2	8425.675	48.82	-99.36	-50.54	-13.00	37.54	195	60	Horizontal
3	11265.2700	40.68	-93.16	-52.48	-13.00	39.48	236	240	Horizontal
4	12831.325	42.61	-92.30	-49.69	-13.00	36.69	261	29	Horizontal
5	15020.3600	38.10	-90.50	-52.40	-13.00	39.40	174	286	Horizontal
6	17160.5	42.37	-91.04	-48.67	-13.00	35.67	188	120	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.1800	46.82	-101.95	-55.13	-13.00	42.13	155	359	Vertical
2	8405.55	49.05	-99.31	-50.26	-13.00	37.26	265	287	Vertical
3	11265.2700	41.35	-93.16	-51.81	-13.00	38.81	148	195	Vertical
4	13651.85	42.14	-91.17	-49.03	-13.00	36.03	172	344	Vertical
5	15020.3600	37.19	-90.50	-53.31	-13.00	40.31	291	358	Vertical
6	16969.6	42.35	-90.58	-48.23	-13.00	35.23	201	358	Vertical



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Report No.: SEWA2212000088RG02  
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Test Band = NSA 7A-n78A 3700-3800\_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	47.68	-101.99	-54.31	-13.00	41.31	258	90	Horizontal
2	8509.625	49.21	-99.41	-50.20	-13.00	37.20	194	30	Horizontal
3	10965.2700	41.86	-93.83	-51.97	-13.00	38.97	176	360	Horizontal
4	13703.6	43.09	-91.21	-48.12	-13.00	35.12	231	44	Horizontal
5	14620.3600	40.61	-90.58	-49.97	-13.00	36.97	155	44	Horizontal
6	16826.425	43.99	-91.35	-47.36	-13.00	34.36	140	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	48.45	-101.99	-53.54	-13.00	40.54	213	4	Vertical
2	8417.625	50.10	-99.34	-49.24	-13.00	36.24	263	104	Vertical
3	10965.2700	41.26	-93.83	-52.57	-13.00	39.57	261	166	Vertical
4	12884.8	43.31	-92.38	-49.07	-13.00	36.07	145	73	Vertical
5	14620.3600	39.33	-90.58	-51.25	-13.00	38.25	185	299	Vertical
6	17154.175	43.73	-90.98	-47.25	-13.00	34.25	190	299	Vertical



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**Test Band = NSA 7A-n78A 3700-3800\_ 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	7410.1800	48.12	-101.60	-53.48	-13.00	40.48	233	301	Horizontal
2	8302.625	50.00	-99.91	-49.91	-13.00	36.91	261	75	Horizontal
3	11115.2700	42.26	-93.74	-51.48	-13.00	38.48	305	104	Horizontal
4	13682.325	43.63	-91.19	-47.56	-13.00	34.56	148	25	Horizontal
5	14820.3600	39.34	-90.67	-51.33	-13.00	38.33	172	23	Horizontal
6	16966.725	43.34	-90.59	-47.25	-13.00	34.25	190	270	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	48.78	-101.60	-52.82	-13.00	39.82	296	43	Vertical
2	8398.65	49.31	-99.31	-50.00	-13.00	37.00	148	255	Vertical
3	11115.2700	42.05	-93.74	-51.69	-13.00	38.69	175	286	Vertical
4	13472.45	43.32	-91.60	-48.28	-13.00	35.28	236	88	Vertical
5	14820.3600	40.35	-90.67	-50.32	-13.00	37.32	261	360	Vertical
6	16949.475	43.87	-90.66	-46.79	-13.00	33.79	142	344	Vertical



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Test Band = NSA 7A-n78A 3700-3800\_ 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	7510.1800	48.28	-101.95	-53.67	-13.00	40.67	266	166	Horizontal
2	8402.675	49.75	-99.31	-49.56	-13.00	36.56	254	359	Horizontal
3	11265.2700	42.64	-93.16	-50.52	-13.00	37.52	191	210	Horizontal
4	12401.225	44.80	-93.18	-48.38	-13.00	35.38	136	166	Horizontal
5	15020.3600	39.37	-90.50	-51.13	-13.00	38.13	254	359	Horizontal
6	16948.325	43.78	-90.66	-46.88	-13.00	33.88	179	286	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.1800	47.78	-101.95	-54.17	-13.00	41.17	254	210	Vertical
2	8413.025	49.21	-99.33	-50.12	-13.00	37.12	233	134	Vertical
3	11265.2700	41.63	-93.16	-51.53	-13.00	38.53	296	88	Vertical
4	13629.425	44.29	-91.16	-46.87	-13.00	33.87	174	225	Vertical
5	15020.3600	39.15	-90.50	-51.35	-13.00	38.35	185	88	Vertical
6	16925.9	45.44	-90.75	-45.31	-13.00	32.31	165	210	Vertical



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**Test Band = NSA 12A-n78A 3700-3800\_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	47.14	-101.99	-54.85	-13.00	41.85	168	358	Horizontal
2	8443.5	49.85	-99.40	-49.55	-13.00	36.55	194	148	Horizontal
3	10965.2700	42.82	-93.83	-51.01	-13.00	38.01	185	226	Horizontal
4	13681.75	44.41	-91.19	-46.78	-13.00	33.78	172	286	Horizontal
5	14620.3600	40.70	-90.58	-49.88	-13.00	36.88	256	46	Horizontal
6	16491.2	44.51	-91.68	-47.17	-13.00	34.17	231	210	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.53	-101.99	-54.46	-13.00	41.46	165	3	Vertical
2	8372.775	50.76	-99.47	-48.71	-13.00	35.71	145	344	Vertical
3	10965.2700	41.54	-93.83	-52.29	-13.00	39.29	185	240	Vertical
4	13658.75	43.44	-91.18	-47.74	-13.00	34.74	192	3	Vertical
5	14620.3600	40.83	-90.58	-49.75	-13.00	36.75	143	135	Vertical
6	16932.8	43.88	-90.73	-46.85	-13.00	33.85	100	257	Vertical



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**Test Band = NSA 12A-n78A 3700-3800\_ 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	7410.1800	48.26	-101.60	-53.34	-13.00	40.34	100	359	Horizontal
2	8357.25	49.65	-99.57	-49.92	-13.00	36.92	145	226	Horizontal
3	11115.2700	42.32	-93.74	-51.42	-13.00	38.42	126	125	Horizontal
4	13708.775	43.98	-91.23	-47.25	-13.00	34.25	294	166	Horizontal
5	14820.3600	40.59	-90.67	-50.08	-13.00	37.08	175	59	Horizontal
6	16879.9	43.99	-90.99	-47.00	-13.00	34.00	183	270	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	48.46	-101.60	-53.14	-13.00	40.14	222	118	Vertical
2	8377.95	49.83	-99.44	-49.61	-13.00	36.61	112	224	Vertical
3	11115.2700	41.78	-93.74	-51.96	-13.00	38.96	154	161	Vertical
4	13882.425	44.20	-90.92	-46.72	-13.00	33.72	203	57	Vertical
5	14820.3600	40.16	-90.67	-50.51	-13.00	37.51	266	330	Vertical
6	16954.65	43.78	-90.64	-46.86	-13.00	33.86	291	343	Vertical



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Test Band = NSA 12A-n78A 3700-3800\_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	7510.1800	48.00	-101.95	-53.95	-13.00	40.95	122	29	Horizontal
2	8551.025	49.25	-98.95	-49.70	-13.00	36.70	154	287	Horizontal
3	11265.2700	41.94	-93.16	-51.22	-13.00	38.22	185	287	Horizontal
4	13157.35	42.93	-91.95	-49.02	-13.00	36.02	196	74	Horizontal
5	15020.3600	39.26	-90.50	-51.24	-13.00	38.24	236	226	Horizontal
6	16989.15	43.97	-90.50	-46.53	-13.00	33.53	261	104	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.1800	48.31	-101.95	-53.64	-13.00	40.64	125	60	Vertical
2	8410.15	49.98	-99.32	-49.34	-13.00	36.34	142	354	Vertical
3	11265.2700	41.82	-93.16	-51.34	-13.00	38.34	236	31	Vertical
4	13903.7	42.98	-90.75	-47.77	-13.00	34.77	291	332	Vertical
5	15020.3600	39.00	-90.50	-51.50	-13.00	38.50	148	257	Vertical
6	16836.2	44.50	-91.29	-46.79	-13.00	33.79	170	354	Vertical



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**Test Band = NSA 66A-n78A 3700-3800\_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	48.27	-101.99	-53.72	-13.00	40.72	142	61	Horizontal
2	8693.05	49.47	-98.67	-49.20	-13.00	36.20	256	61	Horizontal
3	10965.2700	42.53	-93.83	-51.30	-13.00	38.30	261	332	Horizontal
4	14620.3600	40.78	-90.58	-49.80	-13.00	36.80	236	227	Horizontal
5	15789.7	43.35	-90.13	-46.78	-13.00	33.78	296	353	Horizontal
6	17150.15	44.65	-90.94	-46.29	-13.00	33.29	148	92	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	47.56	-101.99	-54.43	-13.00	41.43	155	149	Vertical
2	8326.775	50.16	-99.76	-49.60	-13.00	36.60	142	125	Vertical
3	10965.2700	42.24	-93.83	-51.59	-13.00	38.59	236	352	Vertical
4	13739.25	44.28	-91.33	-47.05	-13.00	34.05	261	357	Vertical
5	14620.3600	39.81	-90.58	-50.77	-13.00	37.77	199	149	Vertical
6	15798.325	43.12	-90.12	-47.00	-13.00	34.00	158	149	Vertical



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**Test Band = NSA 66A-n78A 3700-3800\_ 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	7410.1800	48.28	-101.60	-53.32	-13.00	40.32	154	122	Horizontal
2	8353.225	50.10	-99.59	-49.49	-13.00	36.49	185	195	Horizontal
3	11115.2700	43.42	-93.74	-50.32	-13.00	37.32	164	331	Horizontal
4	12822.125	43.69	-92.28	-48.59	-13.00	35.59	192	226	Horizontal
5	14820.3600	40.61	-90.67	-50.06	-13.00	37.06	175	120	Horizontal
6	16908.65	43.43	-90.82	-47.39	-13.00	34.39	230	257	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	48.91	-101.60	-52.69	-13.00	39.69	122	353	Vertical
2	8340	49.97	-99.68	-49.71	-13.00	36.71	152	226	Vertical
3	11115.2700	41.57	-93.74	-52.17	-13.00	39.17	236	74	Vertical
4	12877.325	44.14	-92.37	-48.23	-13.00	35.23	261	197	Vertical
5	14820.3600	40.50	-90.67	-50.17	-13.00	37.17	142	317	Vertical
6	16623.45	43.87	-91.69	-47.82	-13.00	34.82	190	16	Vertical



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**Test Band = NSA 66A-n78A 3700-3800\_ 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	7510.1800	47.58	-101.95	-54.37	-13.00	41.37	211	359	Horizontal
2	8399.225	49.90	-99.30	-49.40	-13.00	36.40	102	13	Horizontal
3	11265.2700	43.01	-93.16	-50.15	-13.00	37.15	235	358	Horizontal
4	13702.45	43.59	-91.20	-47.61	-13.00	34.61	164	317	Horizontal
5	15020.3600	39.99	-90.50	-50.51	-13.00	37.51	158	179	Horizontal
6	17004.675	44.28	-90.46	-46.18	-13.00	33.18	192	105	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.1800	47.72	-101.95	-54.23	-13.00	41.23	142	4	Vertical
2	8330.225	49.93	-99.74	-49.81	-13.00	36.81	251	118	Vertical
3	11265.2700	43.24	-93.16	-49.92	-13.00	36.92	236	14	Vertical
4	13643.225	44.71	-91.17	-46.46	-13.00	33.46	264	195	Vertical
5	15020.3600	39.52	-90.50	-50.98	-13.00	37.98	158	149	Vertical
6	16681.525	45.70	-91.80	-46.10	-13.00	33.10	191	271	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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Report No.: SEWA2212000088RG02

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
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-16.100000	-0.004293	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-8.400000	-0.002240	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-16.200000	-0.004320	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VH	NT	-8.400000	-0.002240	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VN	NT	-8.500000	-0.002267	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VL	NT	-11.600000	-0.003093	PASS



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**Frequency Error VS. Temperature**

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-18.400000	-0.004907	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-9.700000	-0.002587	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-10.600000	-0.002827	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-9.500000	-0.002533	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-13.000000	-0.003467	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-15.200000	-0.004053	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-7.100000	-0.001893	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-11.800000	-0.003147	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-9.500000	-0.002533	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-30	-11.800000	-0.003147	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-20	-14.100000	-0.003760	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-10	-5.500000	-0.001467	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	0	-2.800000	-0.000747	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	10	6.600000	0.001760	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	20	-17.000000	-0.004533	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	30	-1.100000	-0.000293	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	40	-12.900000	-0.003440	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	50	-4.300000	-0.001147	PASS

---End of Attachment---



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