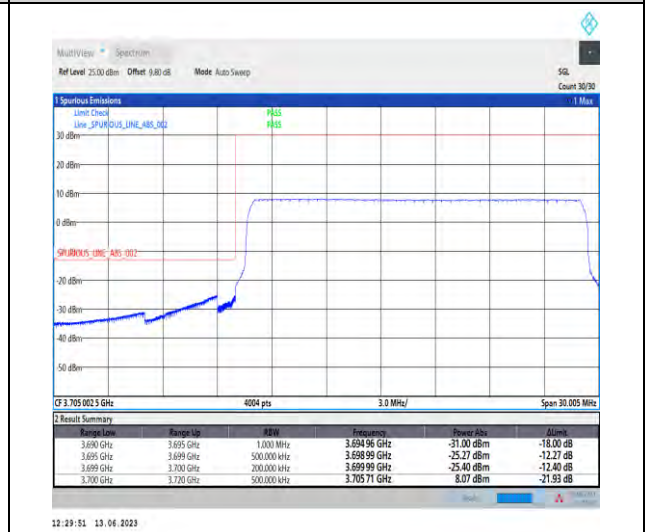
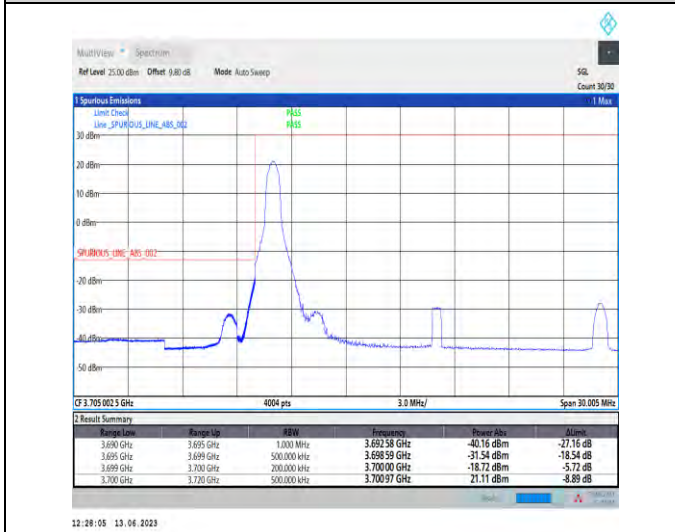


1-N77-3700-3980-PC1.5-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC1.5-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant1-1--PASS-see graph

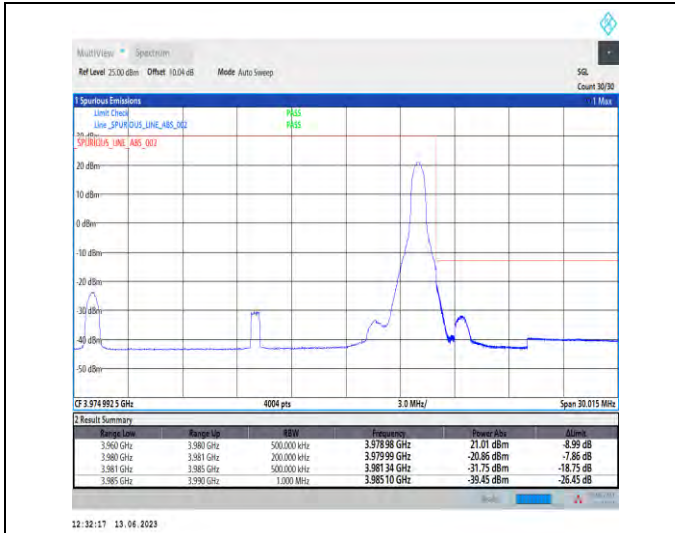


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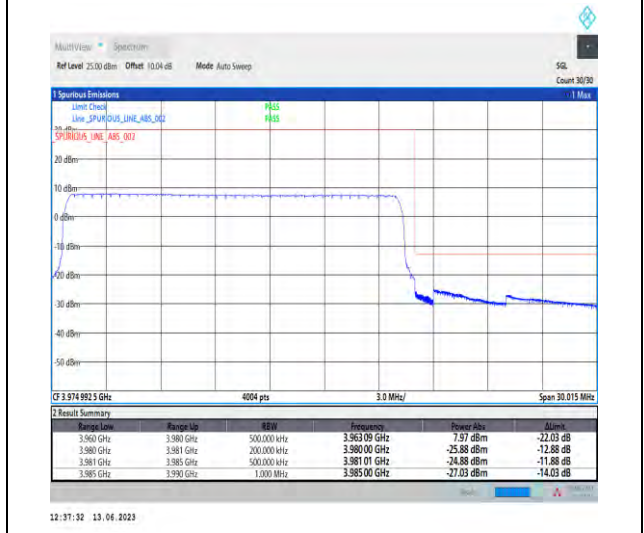
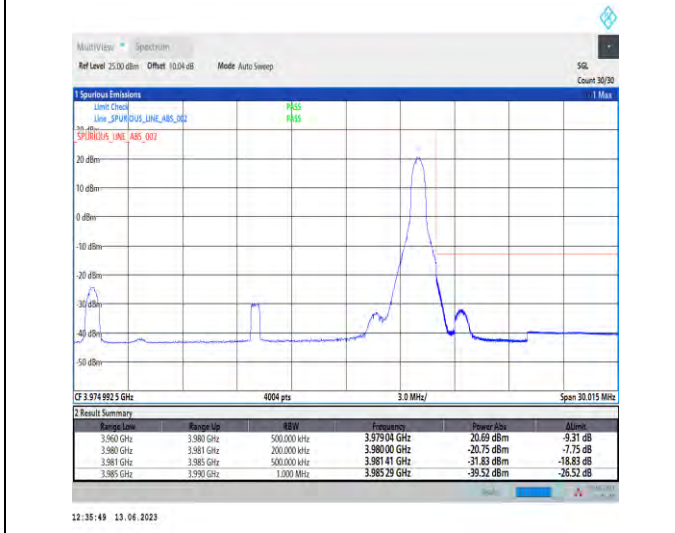
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1-N77-3700-3980-PC1.5-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@50-Ant1-1--PASS-see graph

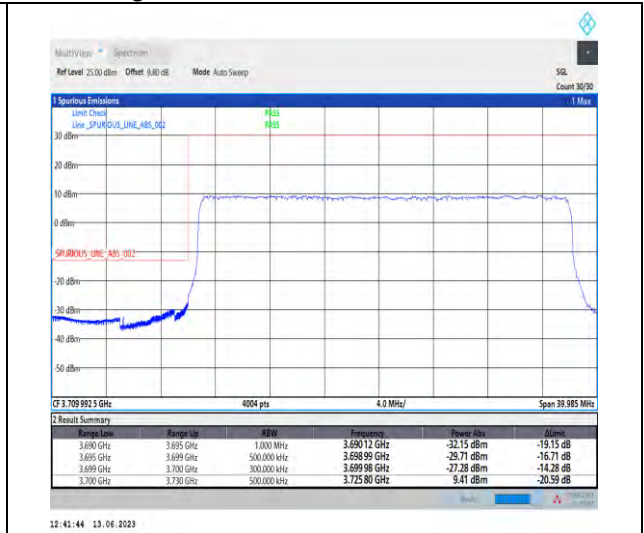
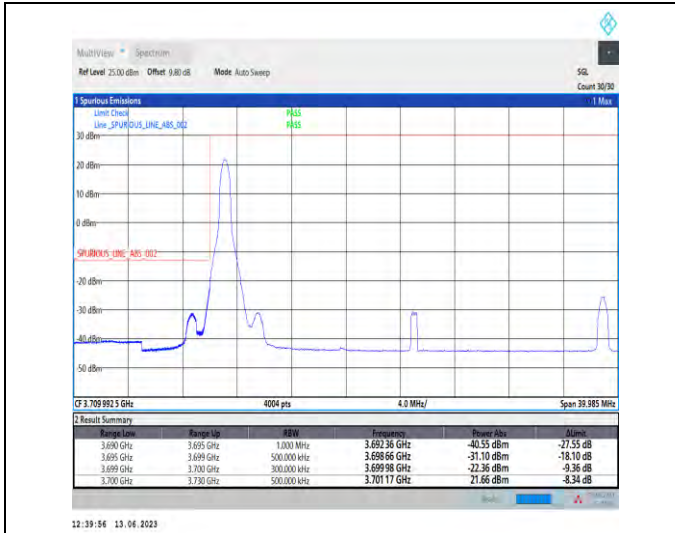
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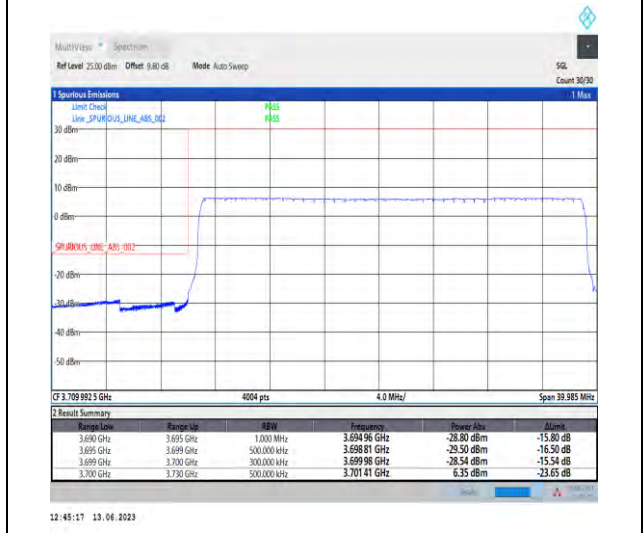
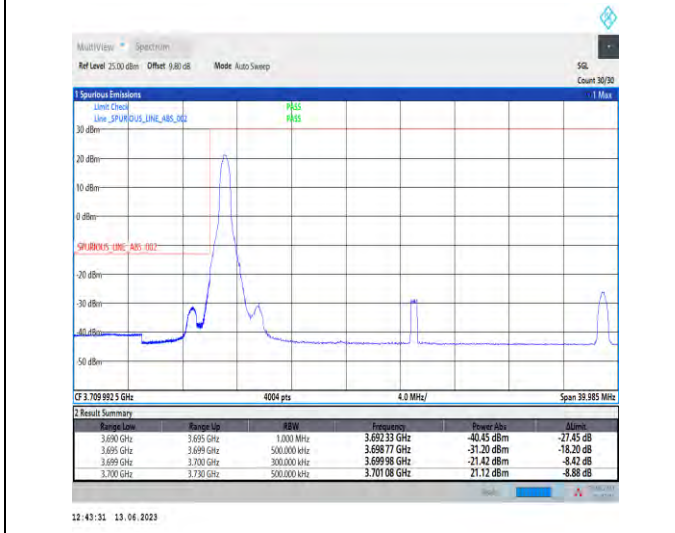
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1-N77-3700-3980-PC1.5-30-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC1.5-30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant1-1--PASS-see graph

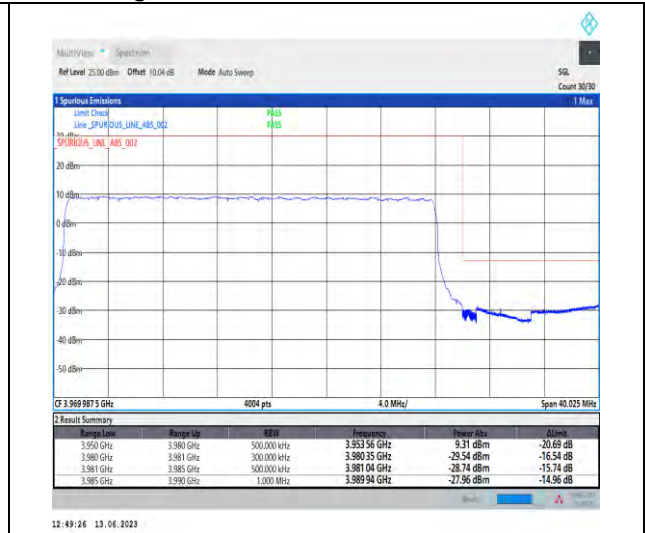
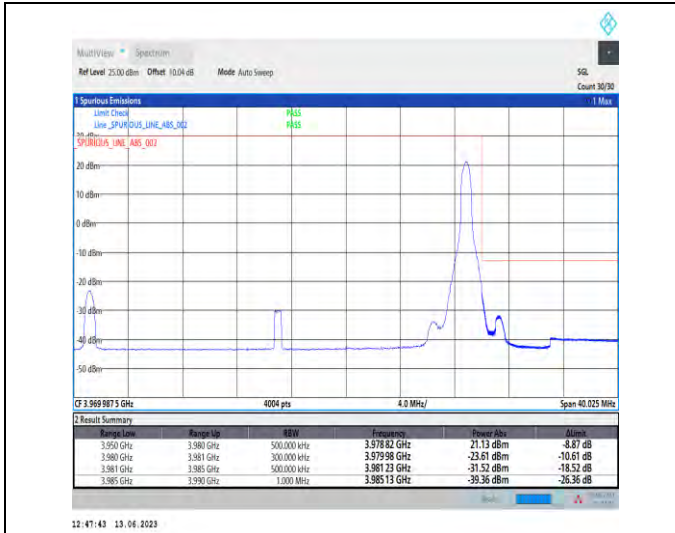


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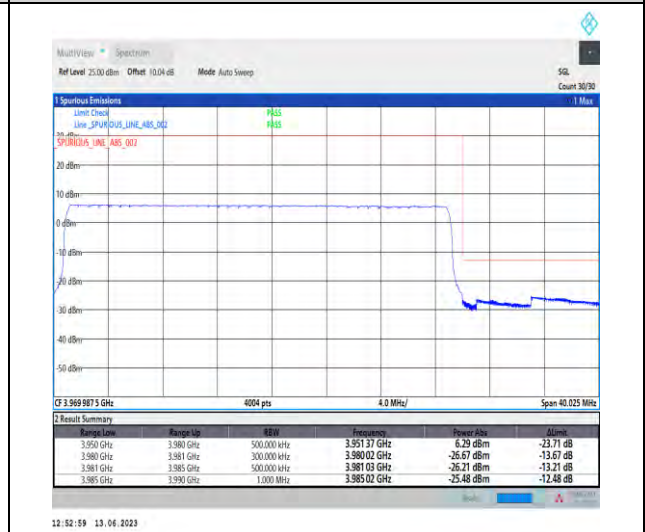
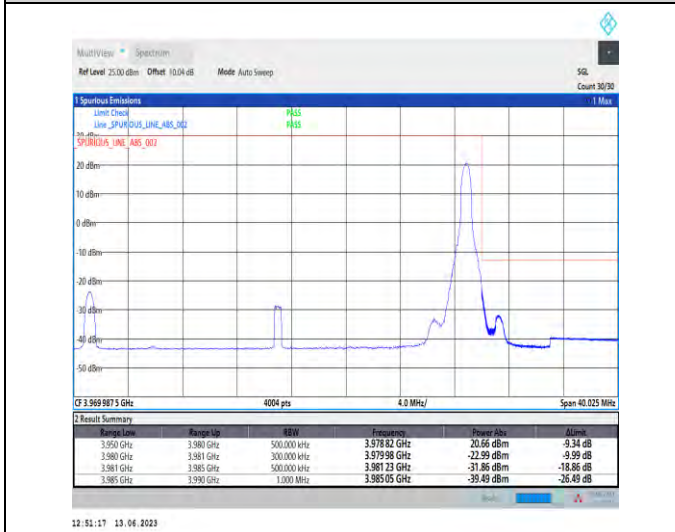
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1-N77-3700-3980-PC1.5-30-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@77-Ant1-1--PASS-see graph

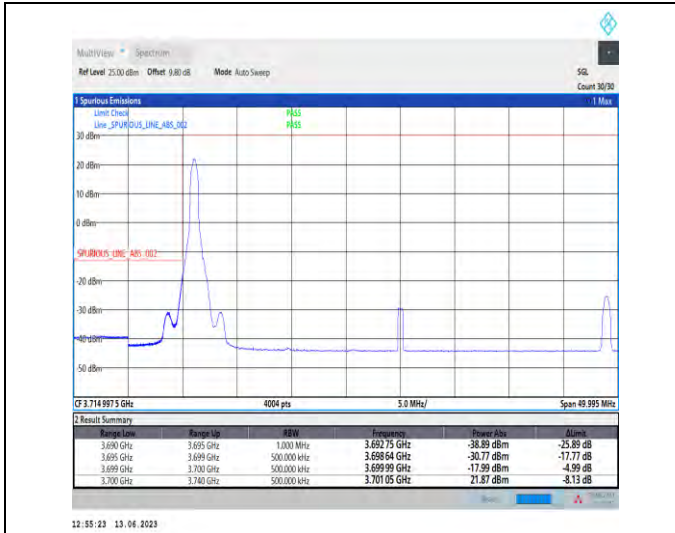
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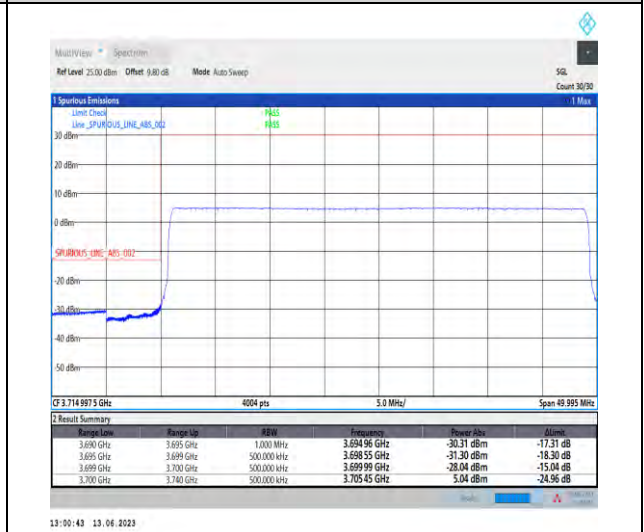
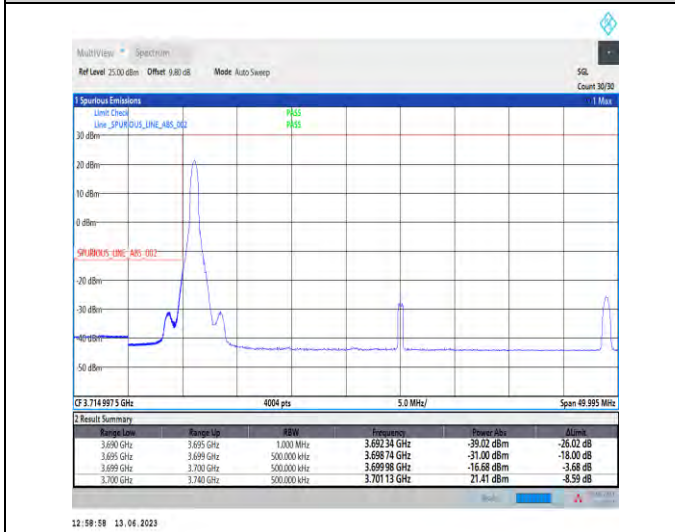
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1-N77-3700-3980-PC1.5-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1-PASS-see graph

1-N77-3700-3980-PC1.5-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1-PASS-see graph



1-N77-3700-3980-PC1.5-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1-PASS-see graph

1-N77-3700-3980-PC1.5-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant1-1-PASS-see graph

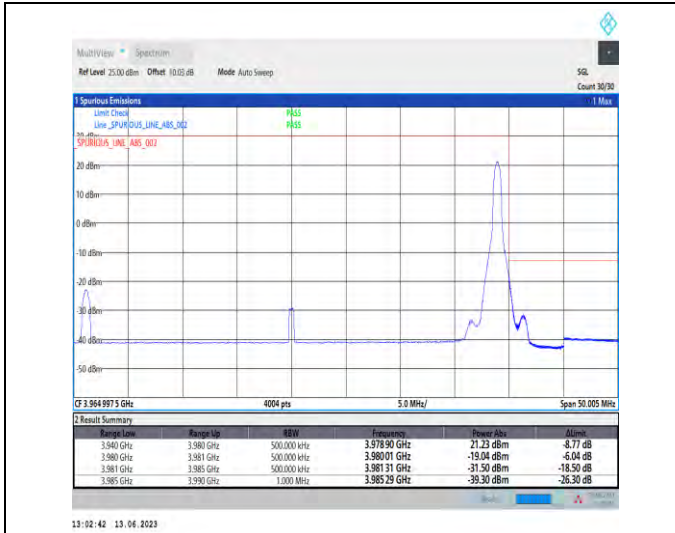


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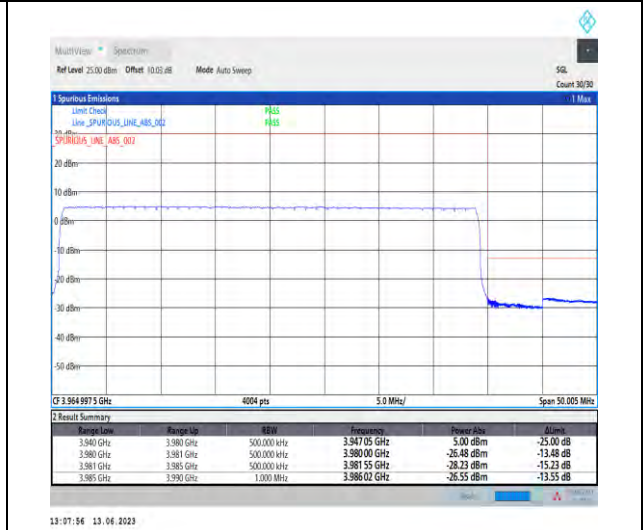
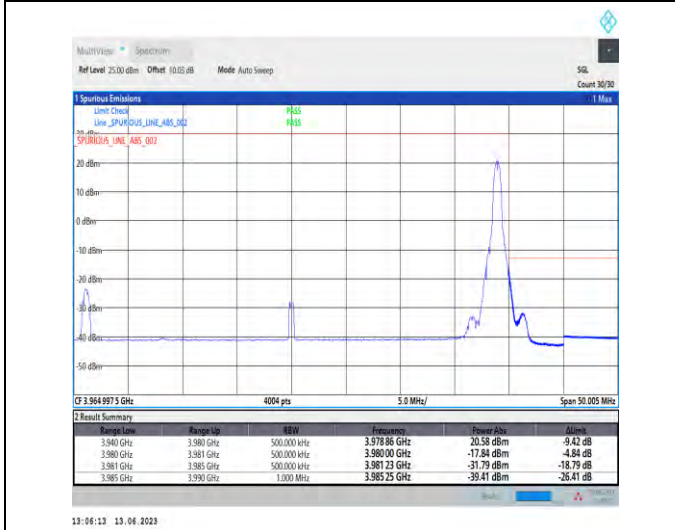
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1-N77-3700-3980-PC1.5-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC1.5-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph

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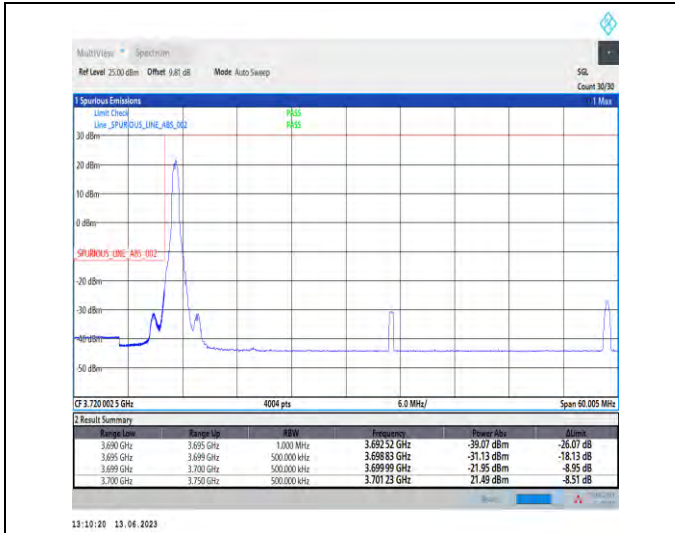


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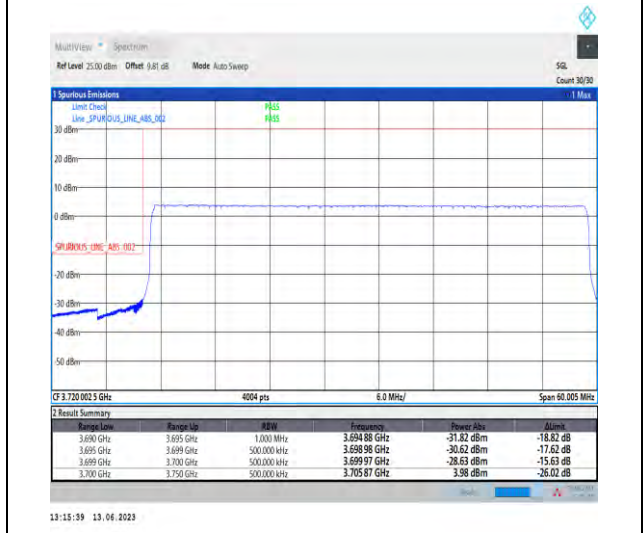
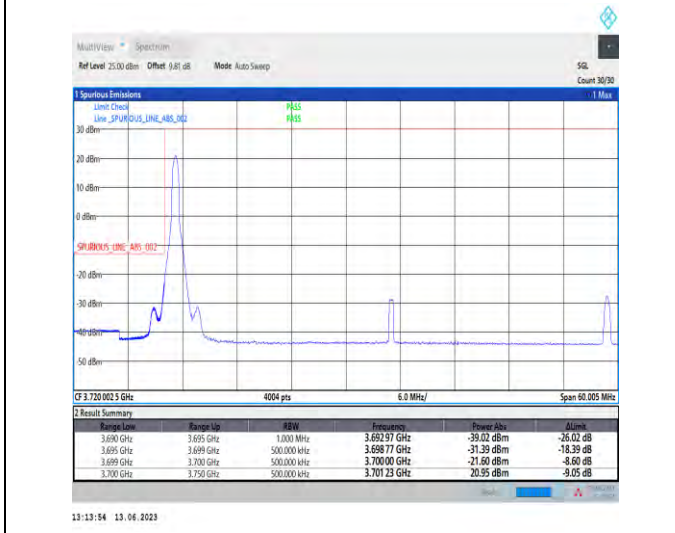
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1-N77-3700-3980-PC1.5-30-50-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1-PASS-see graph

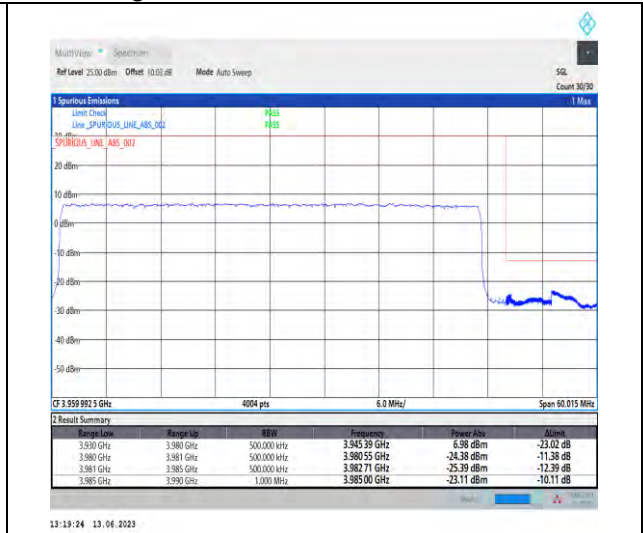
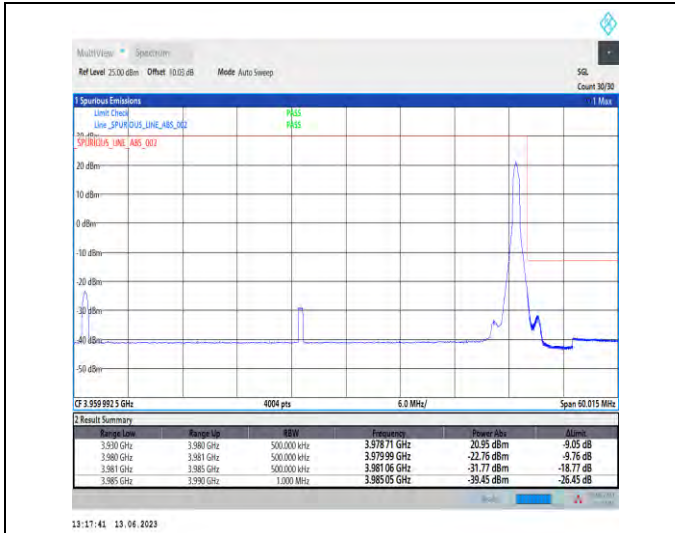
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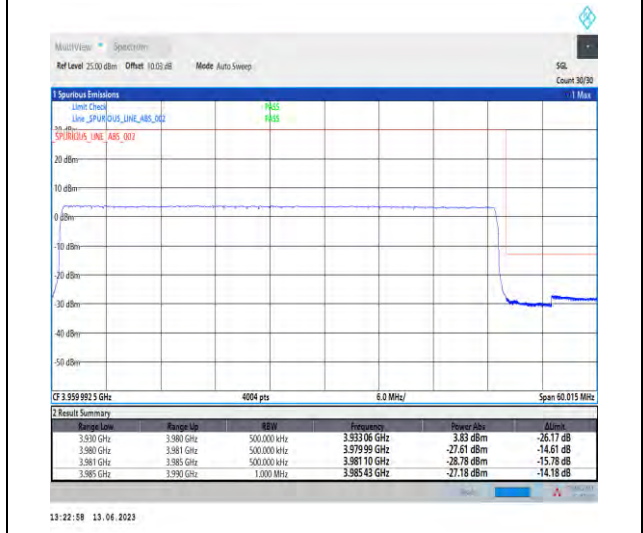
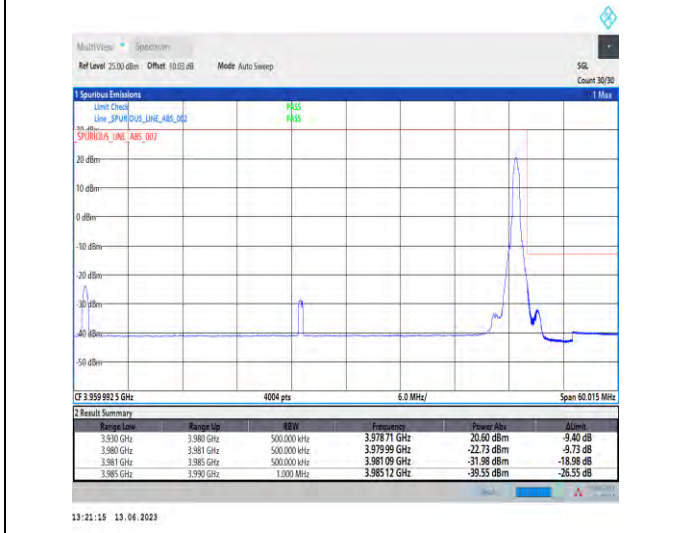
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1-N77-3700-3980-PC1.5-30-50-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC1.5-30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph

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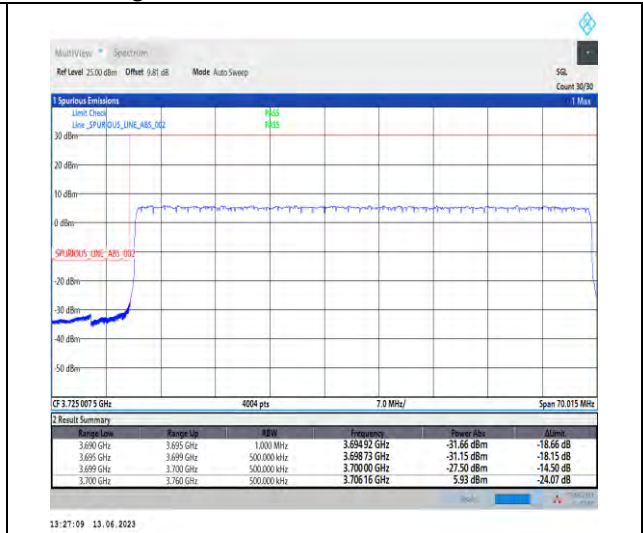
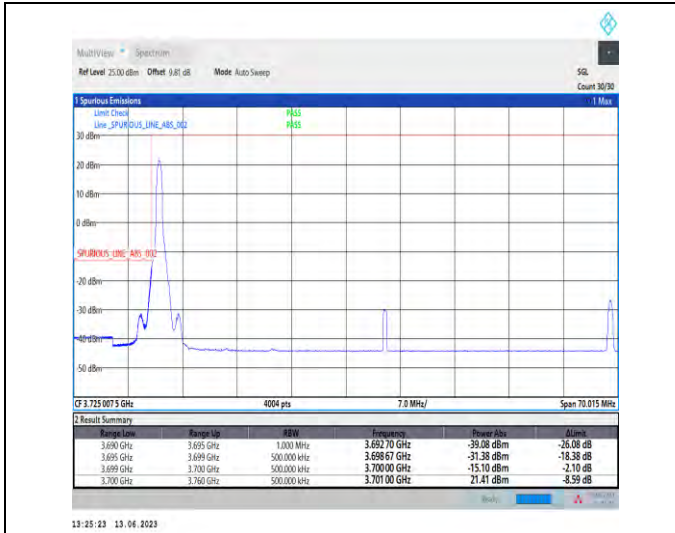


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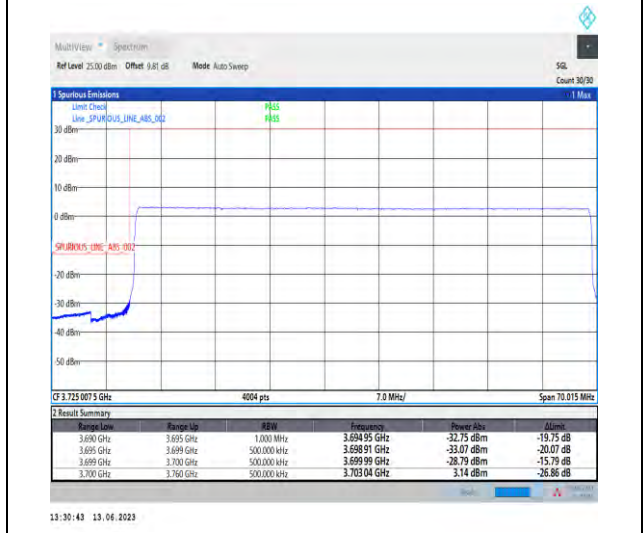
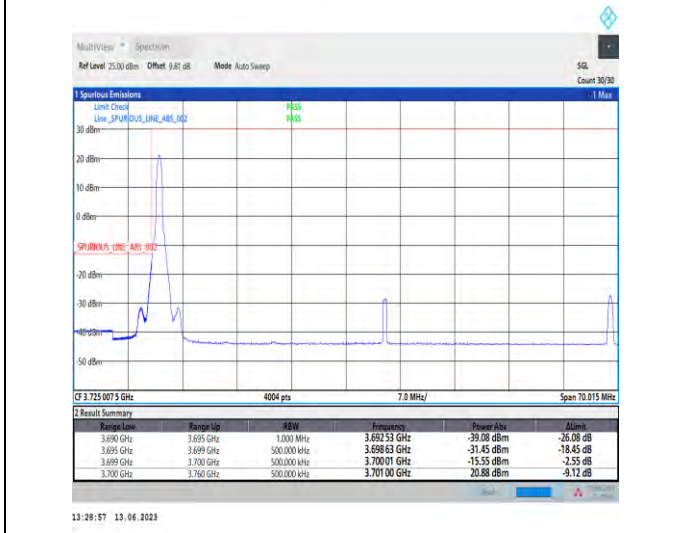
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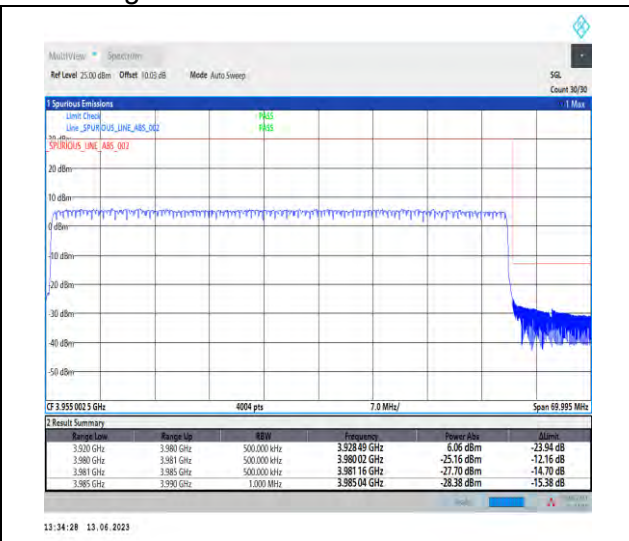
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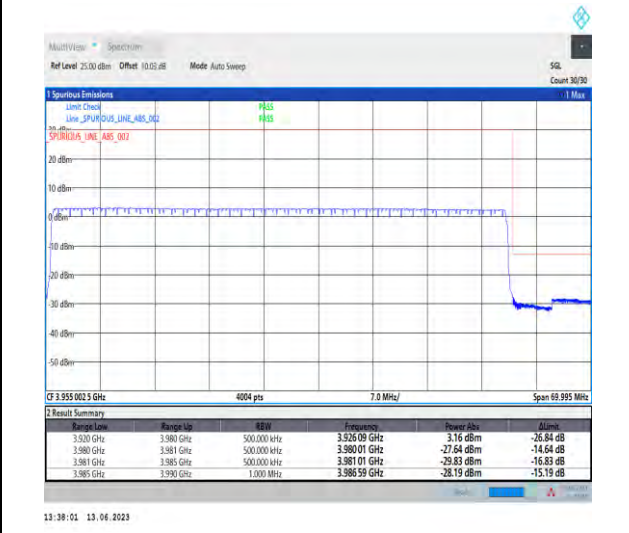
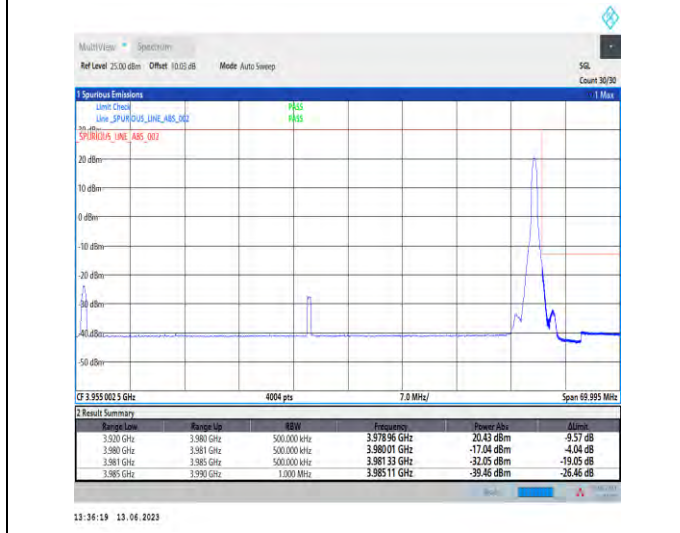
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1-N77-3700-3980-PC1.5-30-60-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



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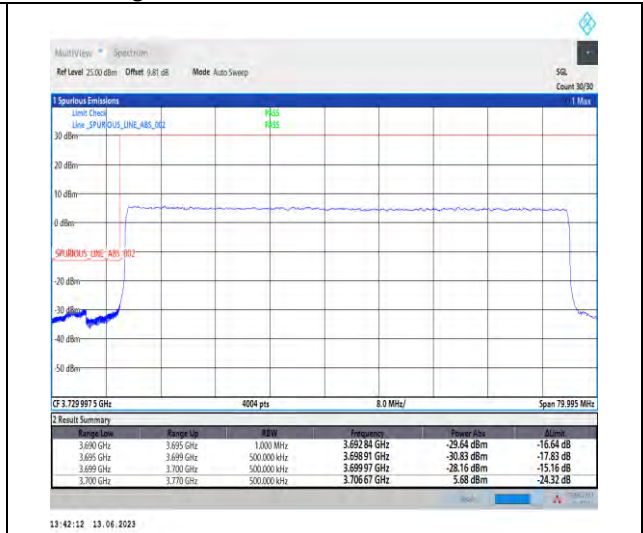
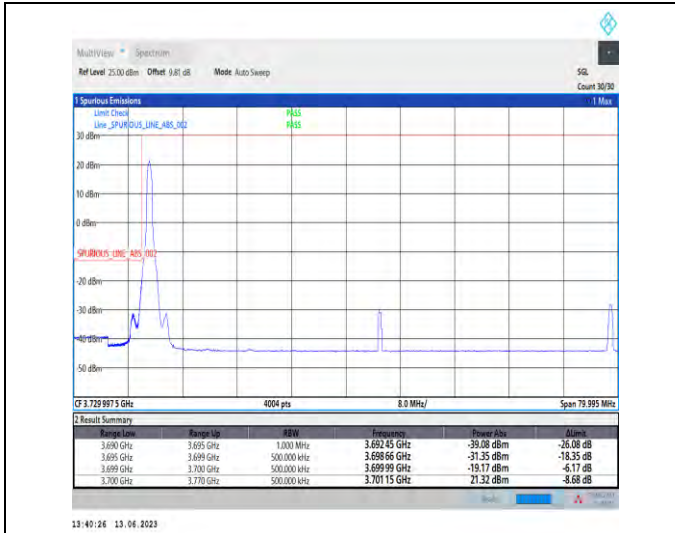
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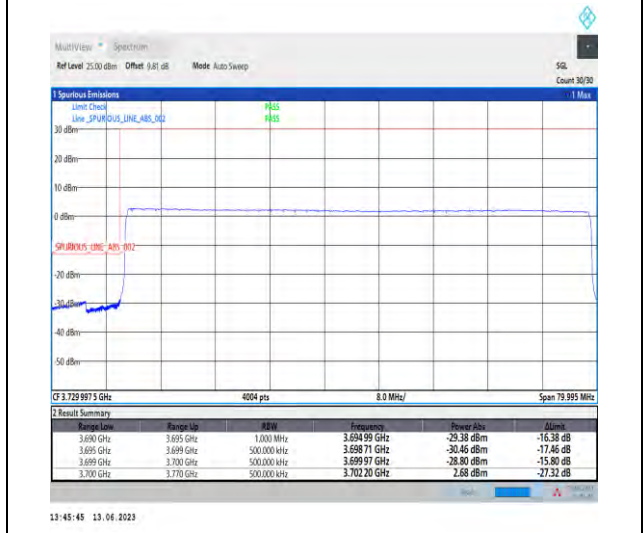
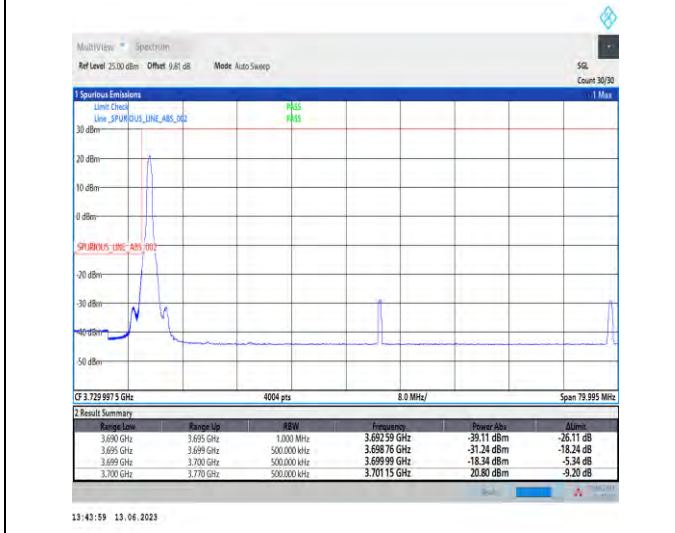
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1-N77-3700-3980-PC1.5-30-70-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1-PASS-see graph

1-N77-3700-3980-PC1.5-30-70-L-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-1-PASS-see graph



1-N77-3700-3980-PC1.5-30-70-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1-PASS-see graph

1-N77-3700-3980-PC1.5-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant1-1-PASS-see graph

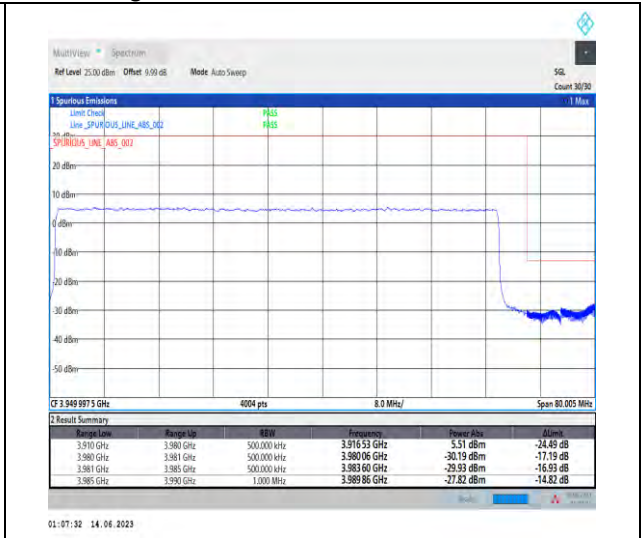
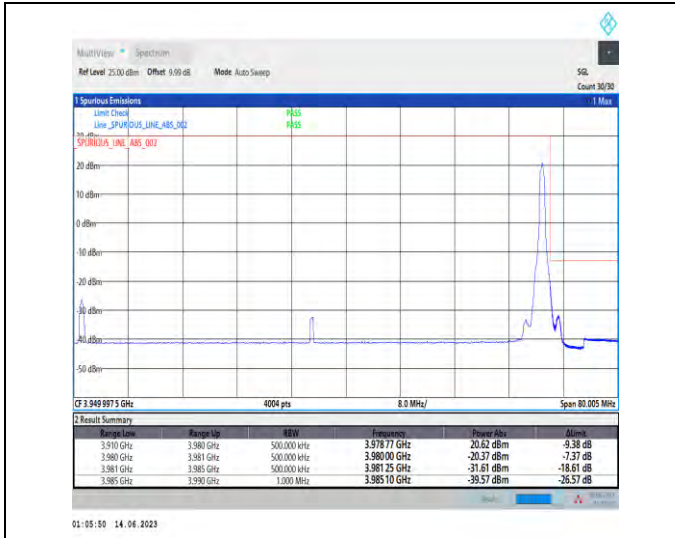


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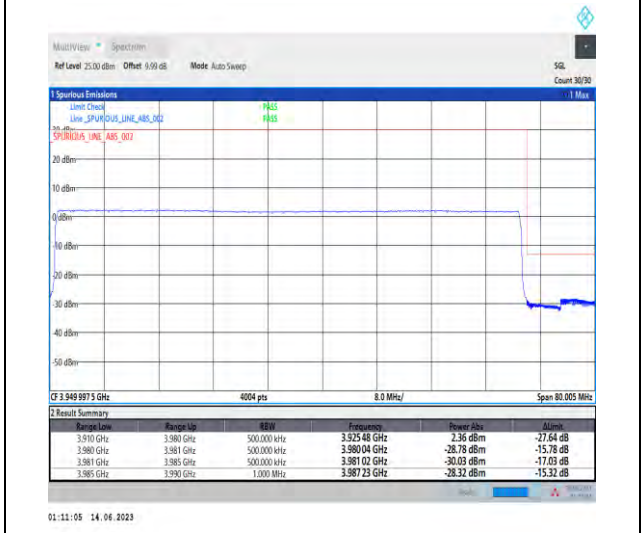
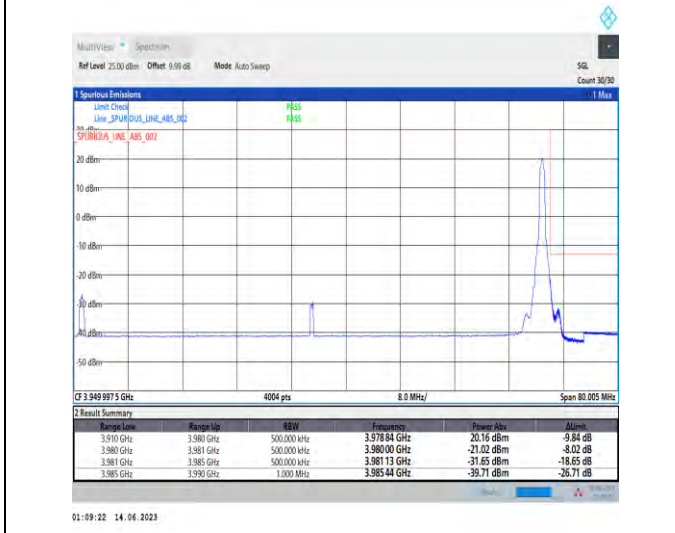
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1-N77-3700-3980-PC1.5-30-70-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@188-Ant1-1--PASS-see graph

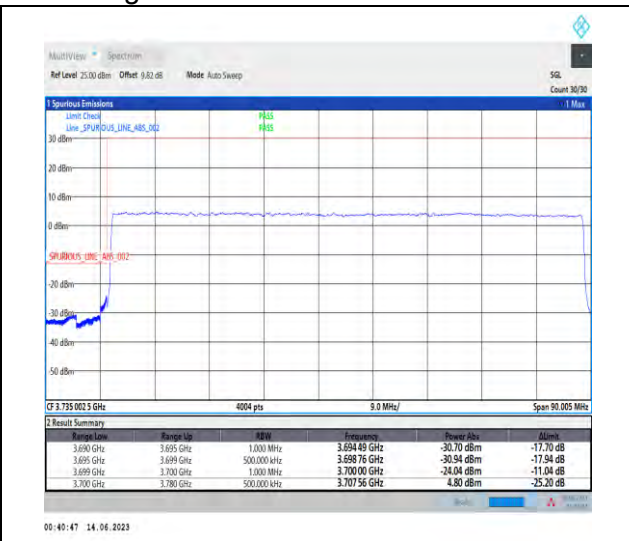
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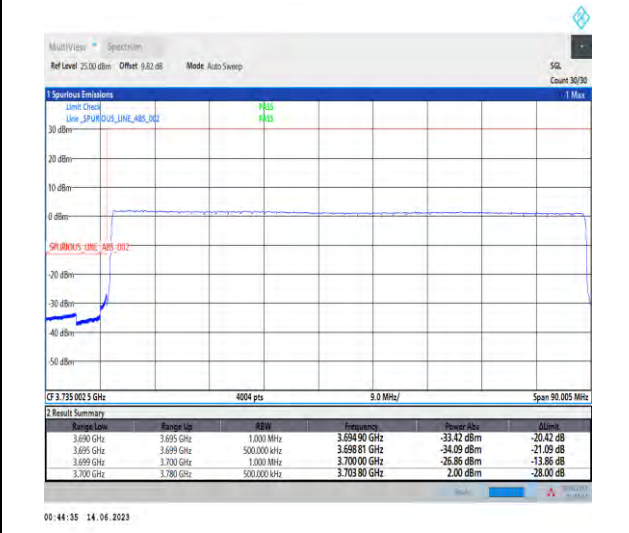
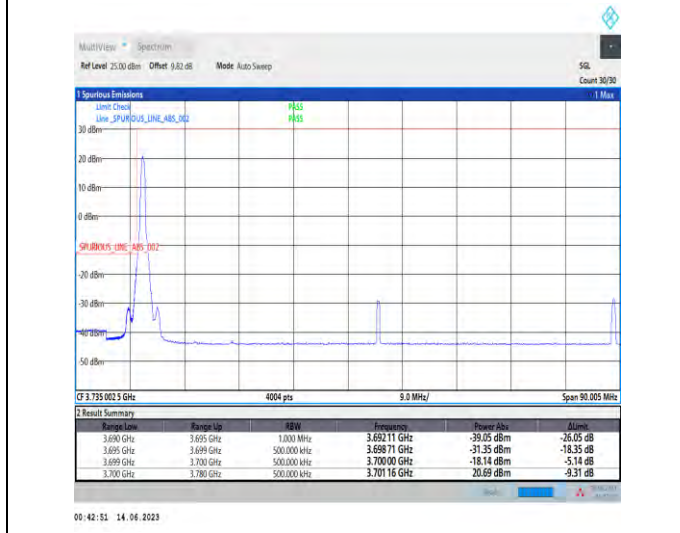
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1-N77-3700-3980-PC1.5-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1-PASS-see graph

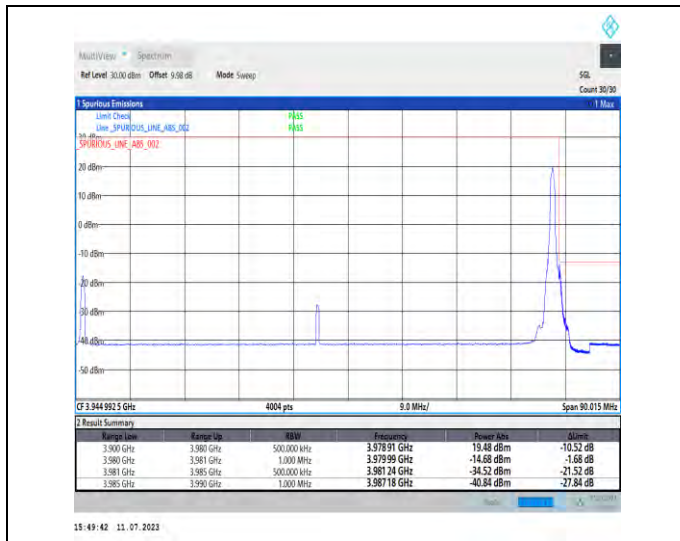
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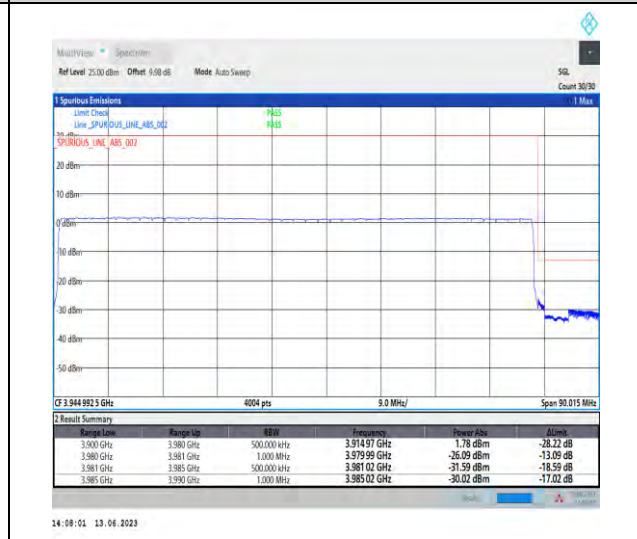
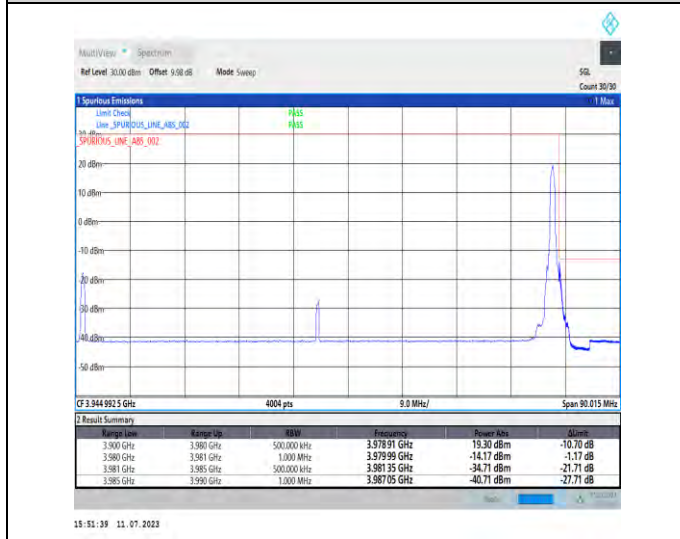
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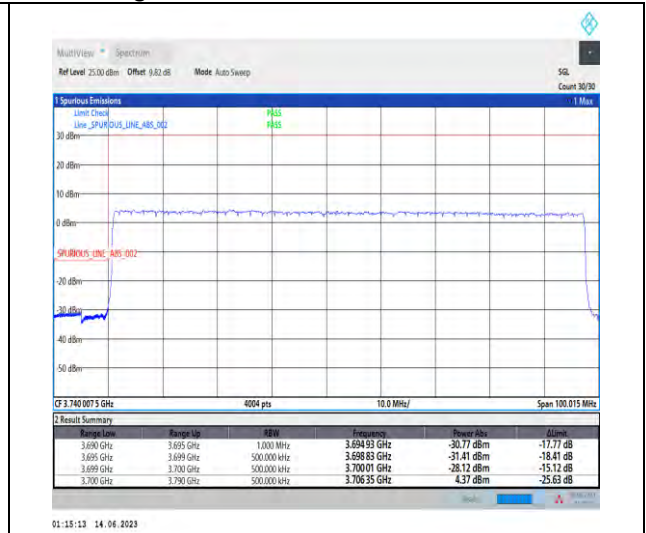
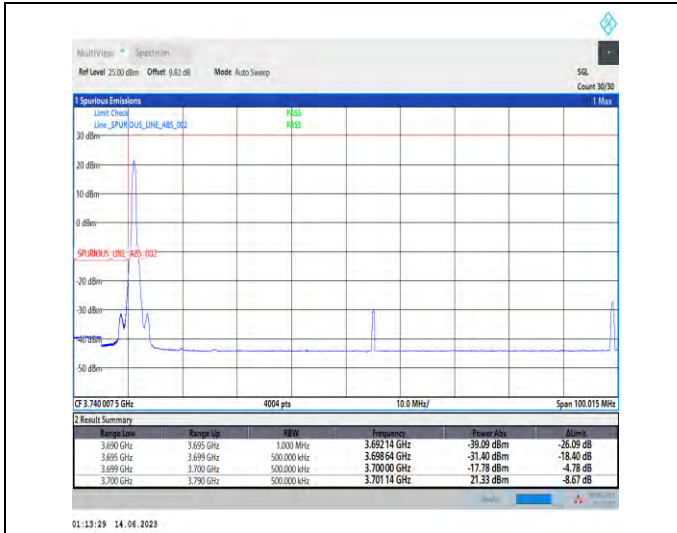
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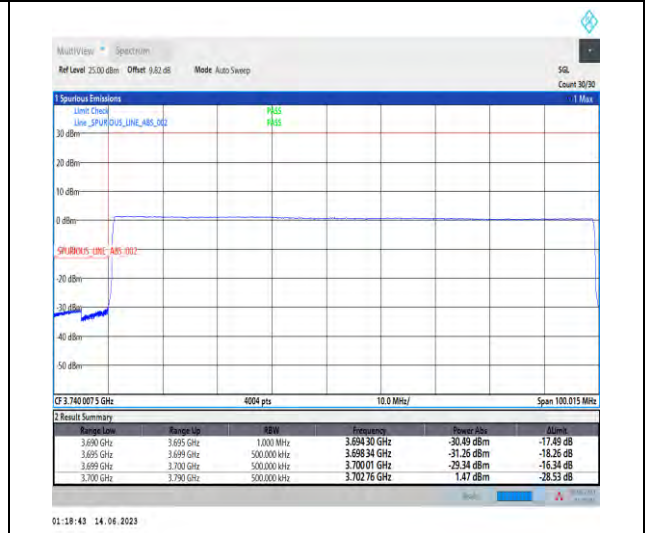
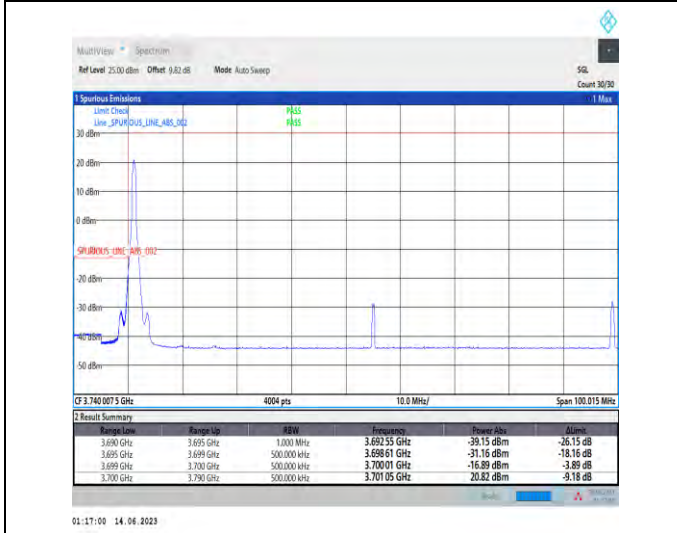
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1-N77-3700-3980-PC1.5-30-90-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1-PASS-see graph

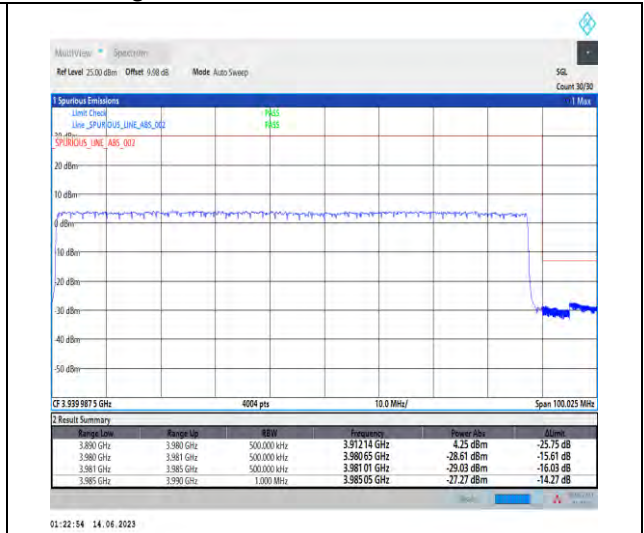
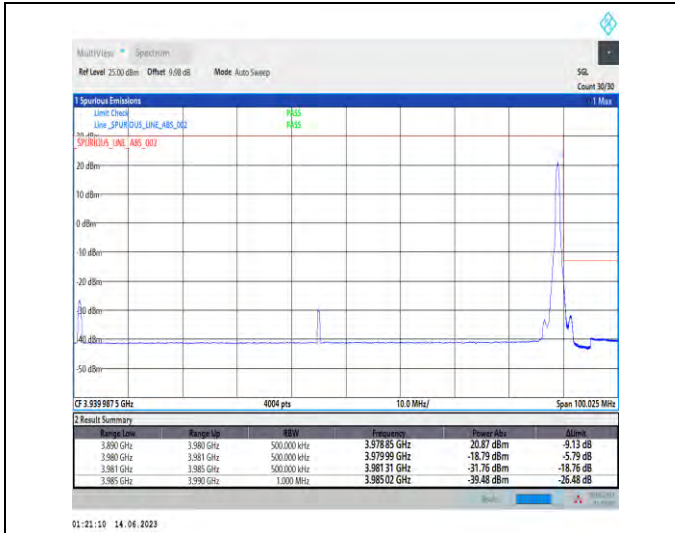
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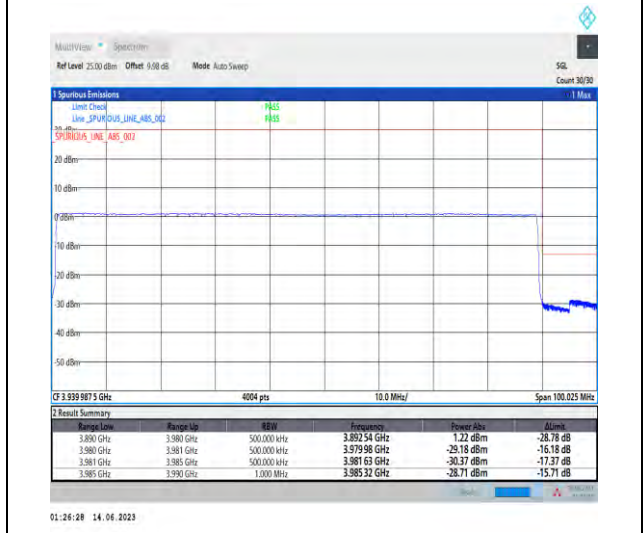
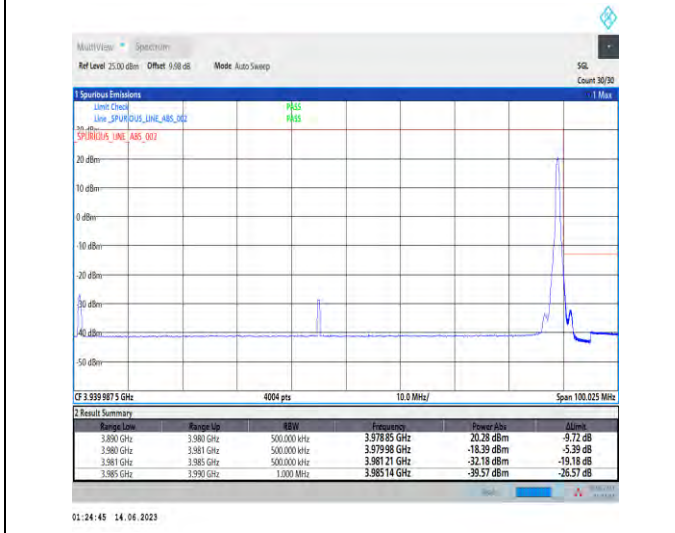
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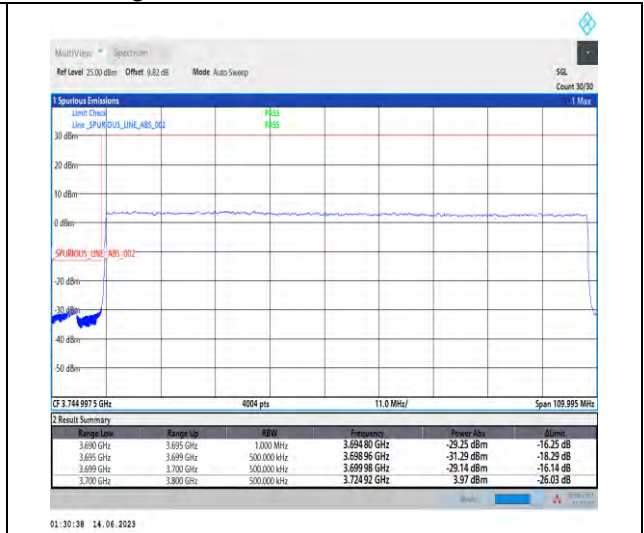
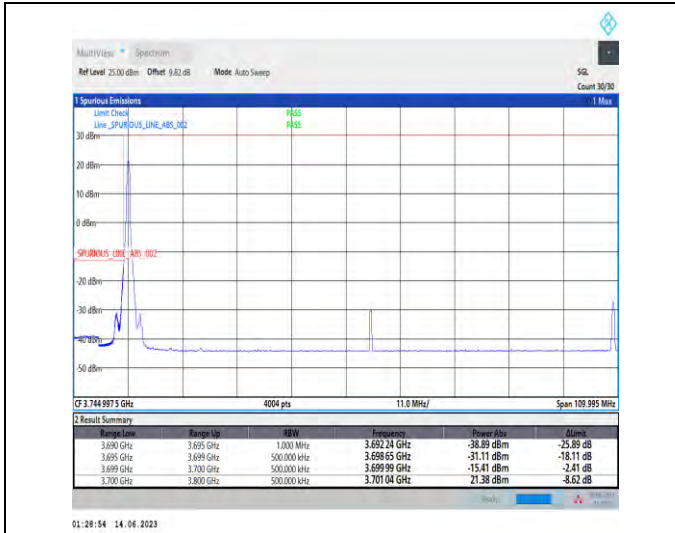
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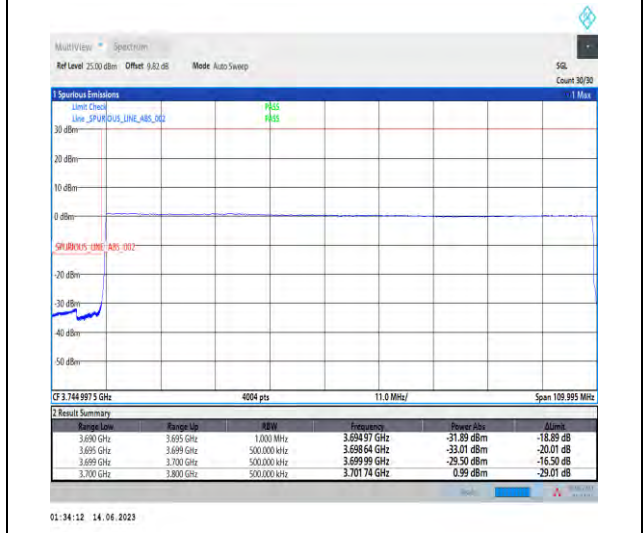
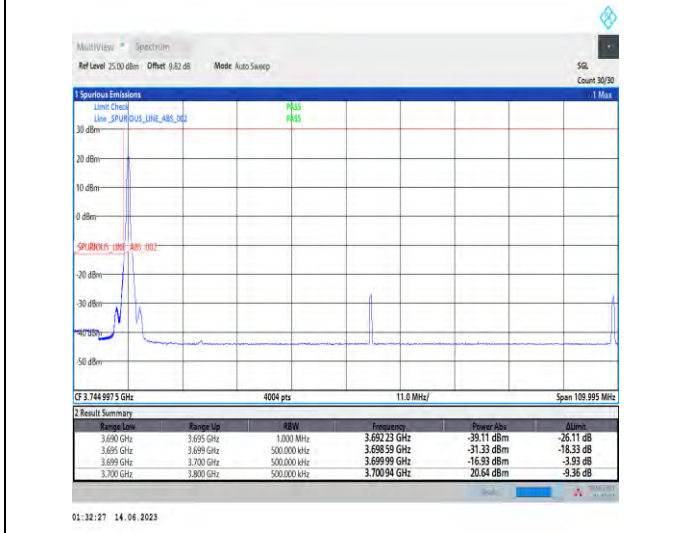
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1-N77-3700-3980-PC1.5-30-100-L-1-DFT-PI2BPSK-E dge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-100-L-3-DFT-PI2BPS K-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC1.5-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph

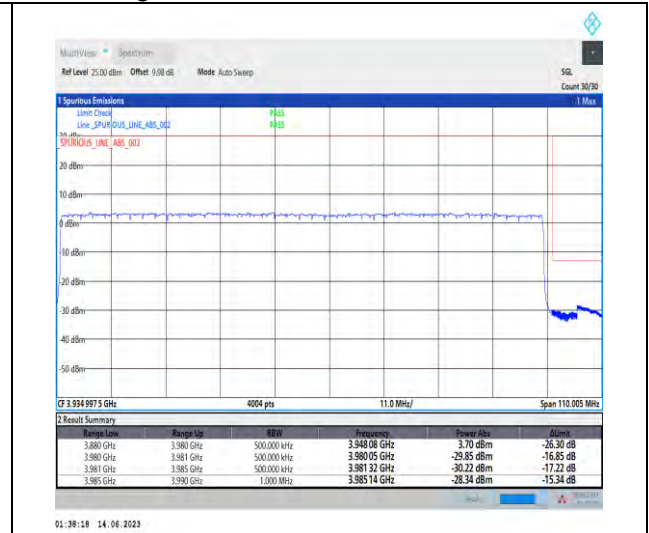
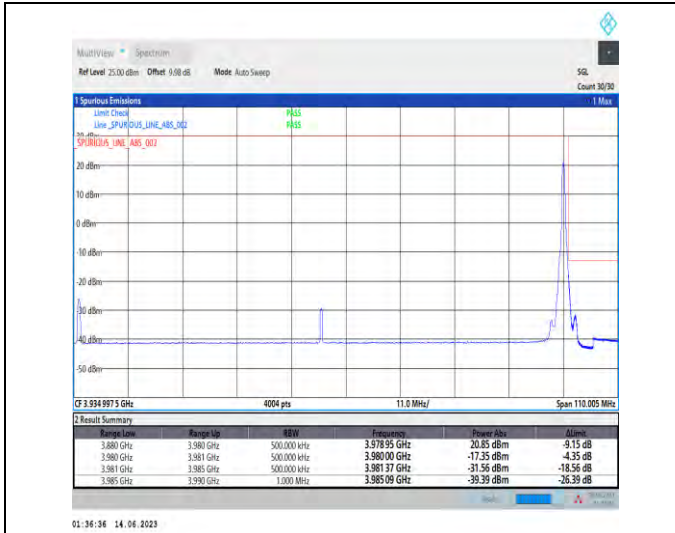


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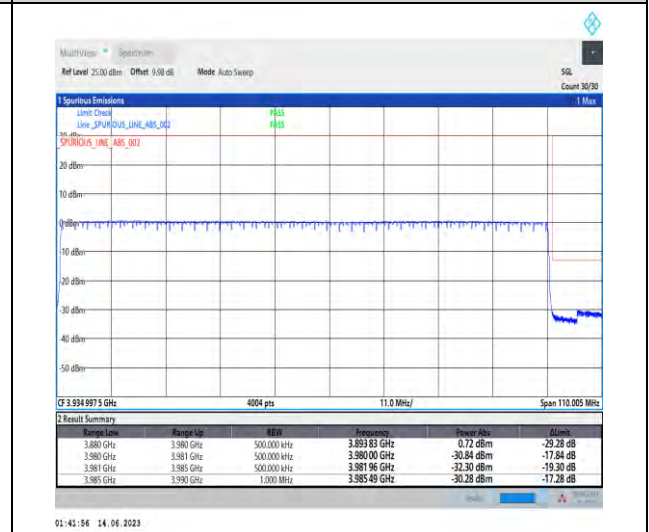
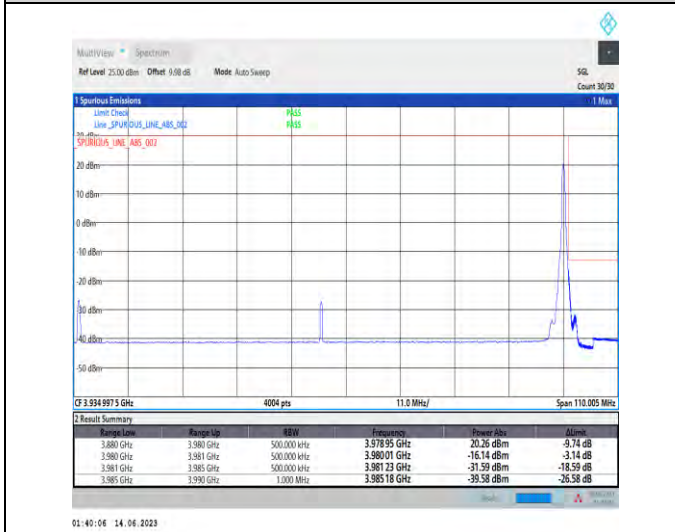
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1-N77-3700-3980-PC1.5-30-100-H-2-DFT-PI2BPSK-E dge_1RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-100-H-3-DFT-PI2BPS K-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC1.5-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980-PC1.5-30-100-H-6-CP-QPSK-O uter_Full-273@0-Ant1-1--PASS-see graph



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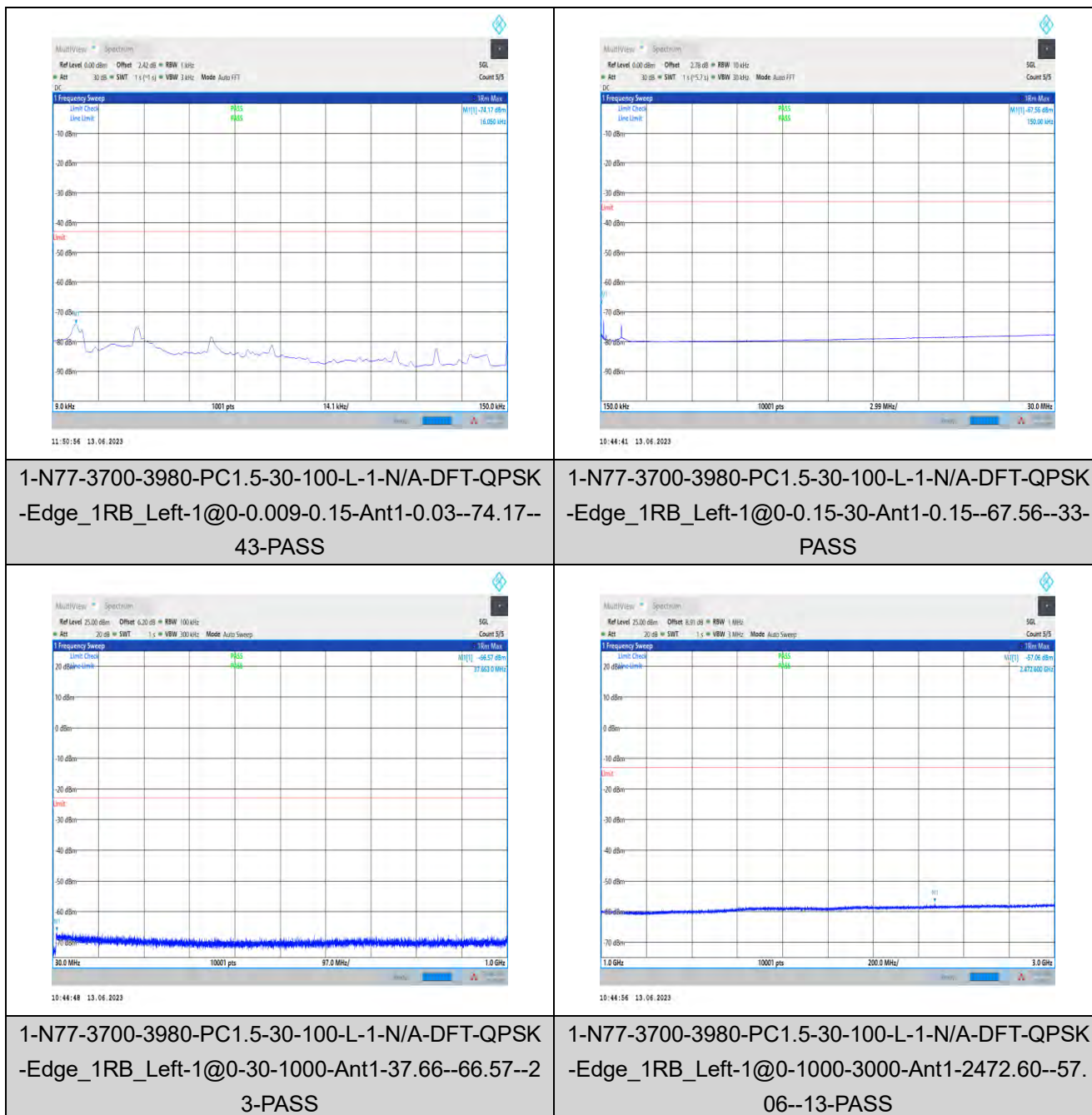
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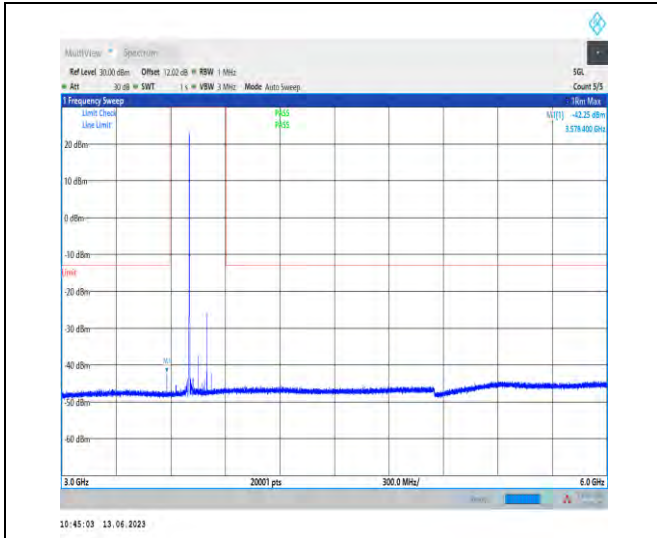
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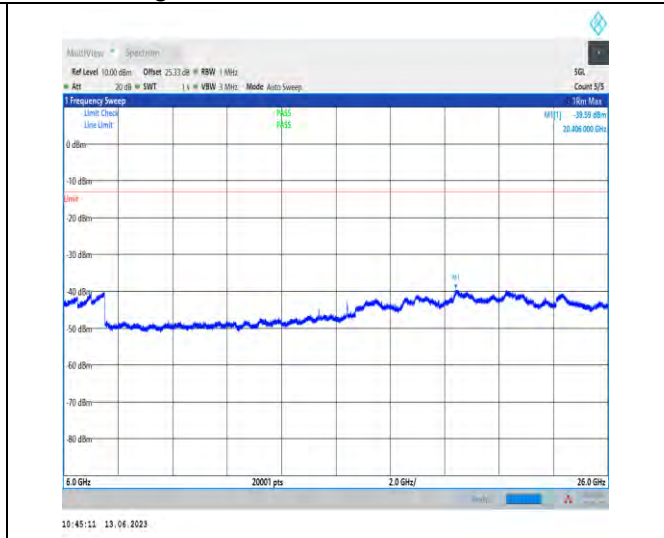
Conducted Spurious Emission for UL MIMO

Test Graphs

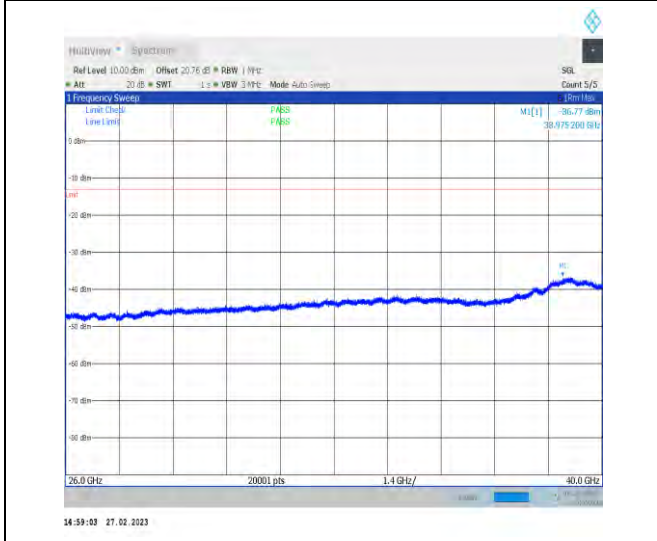




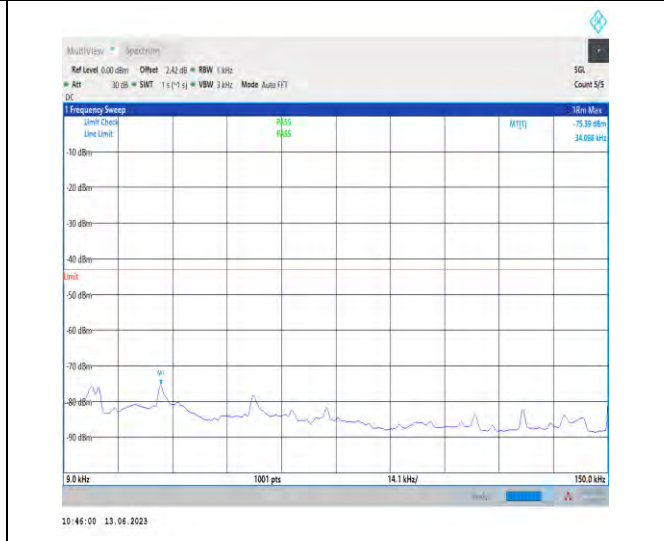
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25--13-PASS



1-N77-3700-3980-PC1.5-30-100-L-1-N/A-DFT-QPSK
-Edge_1RB_Left-1@0-6000-26000-Ant1-20406.00--
39.59--13-PASS



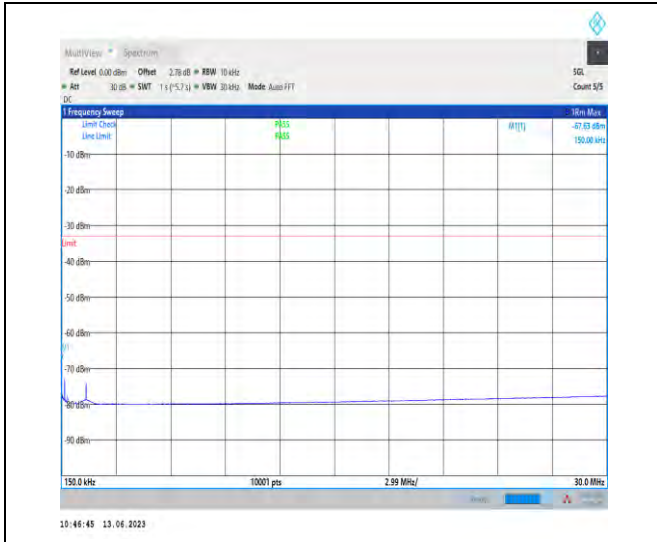
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-Edge_1RB_Left-1@0-26000-40000-Ant1-26000.00--
49.82--13-PASS



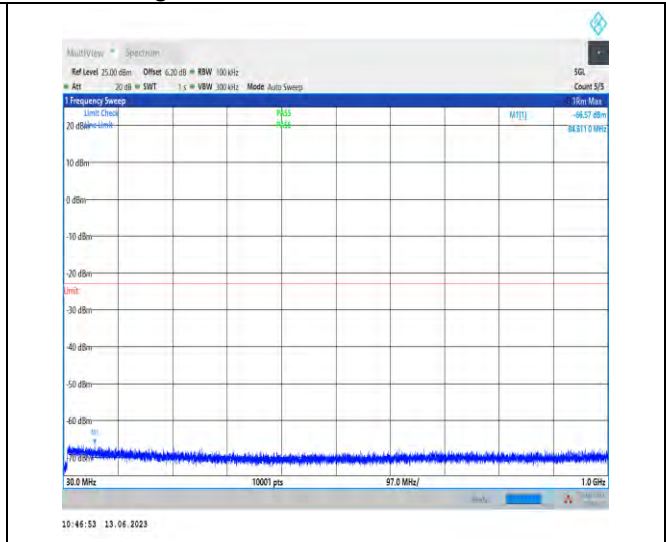
1-N77-3700-3980-PC1.5-30-100-M-1-N/A-DFT-QPS
K-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.03--75.39
--43-PASS



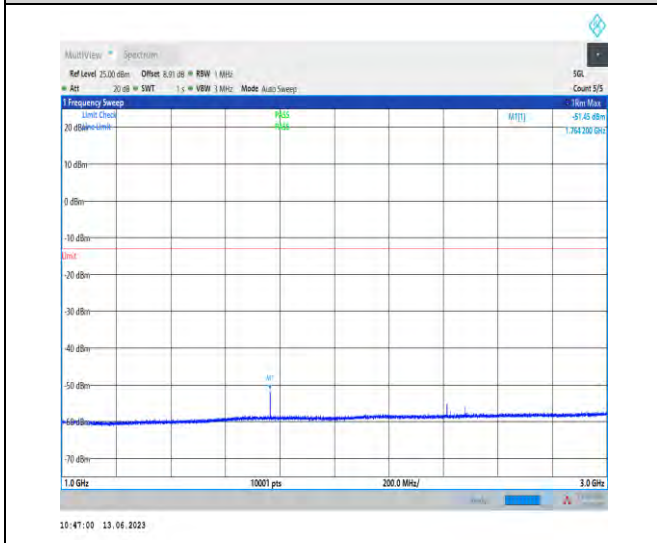
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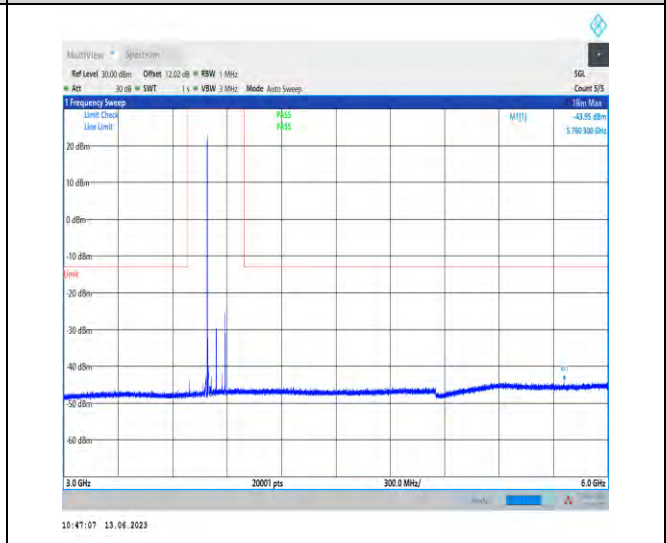
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K-Edge_1RB_Left-1@0-0.15-30-Ant1-0.15--67.63--3
3-PASS



1-N77-3700-3980-PC1.5-30-100-M-1-N/A-DFT-QPS
K-Edge_1RB_Left-1@0-30-1000-Ant1-84.61--66.57--23
-23-PASS

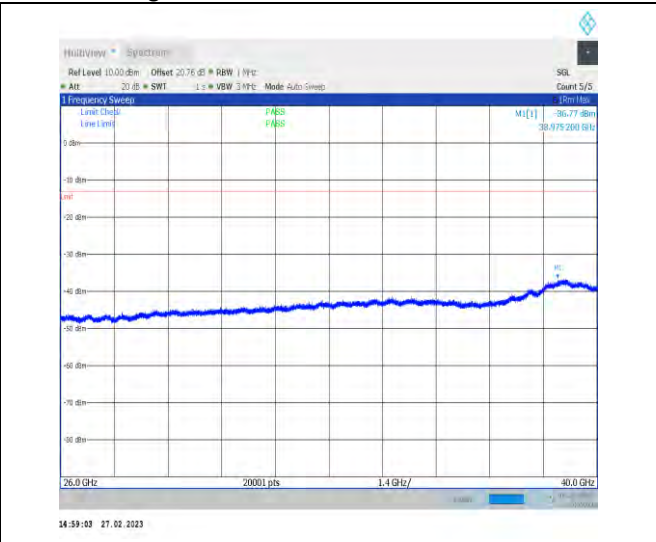
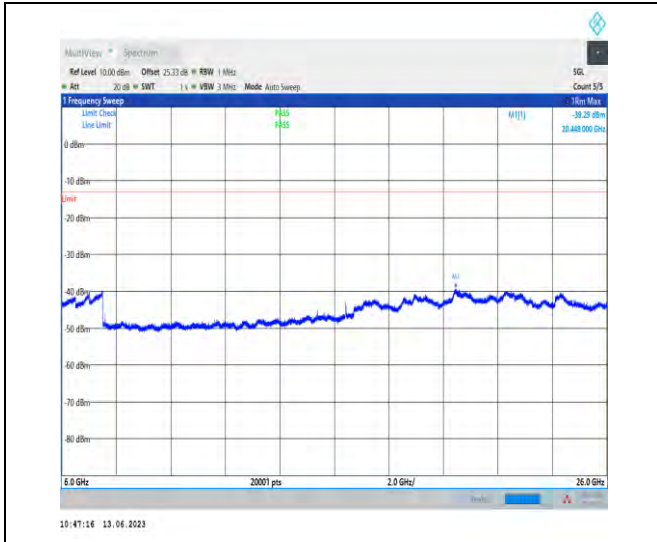


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K-Edge_1RB_Left-1@0-1000-3000-Ant1-1764.20--5
1.45--13-PASS



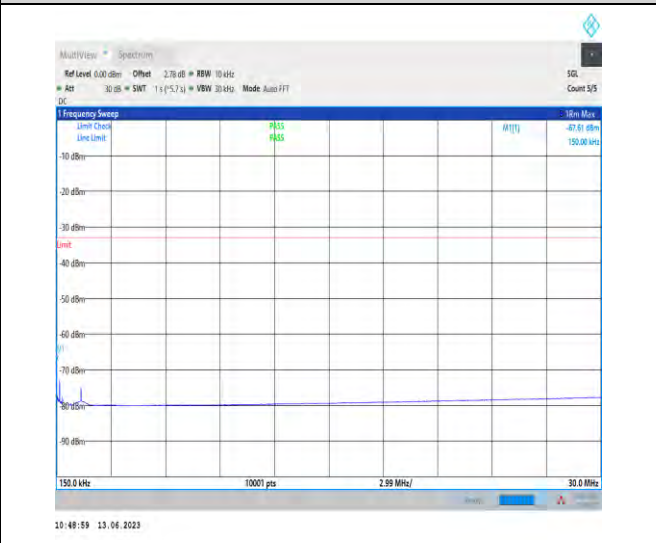
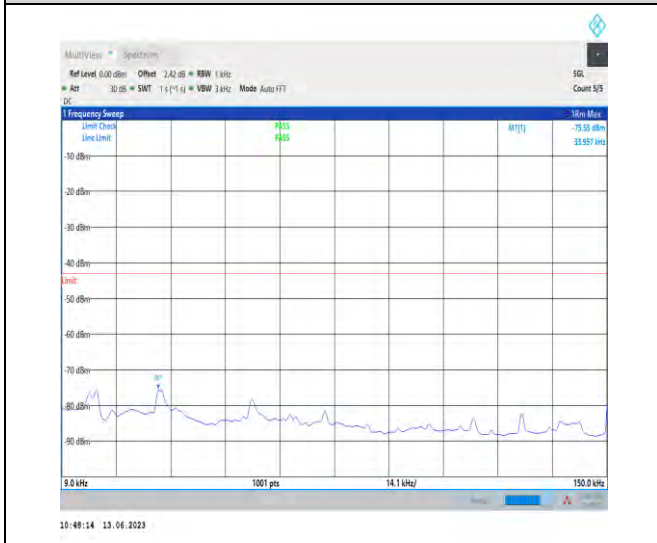
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K-Edge_1RB_Left-1@0-3000-6000-Ant1-5760.30--4
3.95--13-PASS





1-N77-3700-3980-PC1.5-30-100-M-1-N/A-DFT-QPS
K-Edge_1RB_Left-1@0-6000-26000-Ant1-20448.00-39.29--13-PASS

1-N77-3700-3980-PC1.5-30-100-M-1-N/A-DFT-QPS
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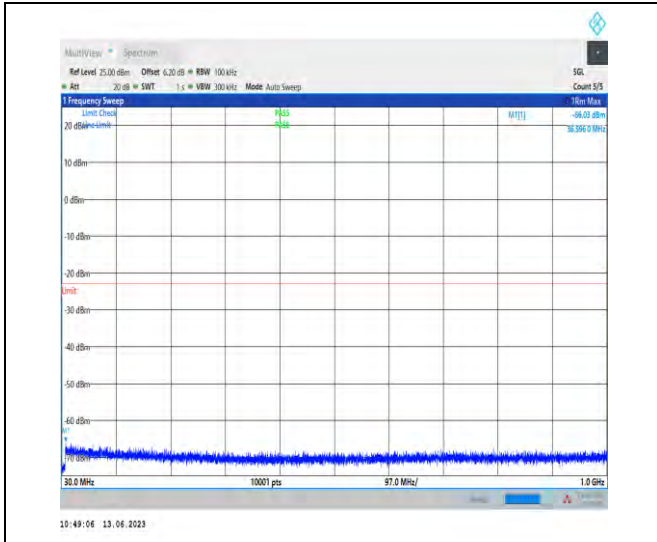


1-N77-3700-3980-PC1.5-30-100-H-1-N/A-DFT-QPS
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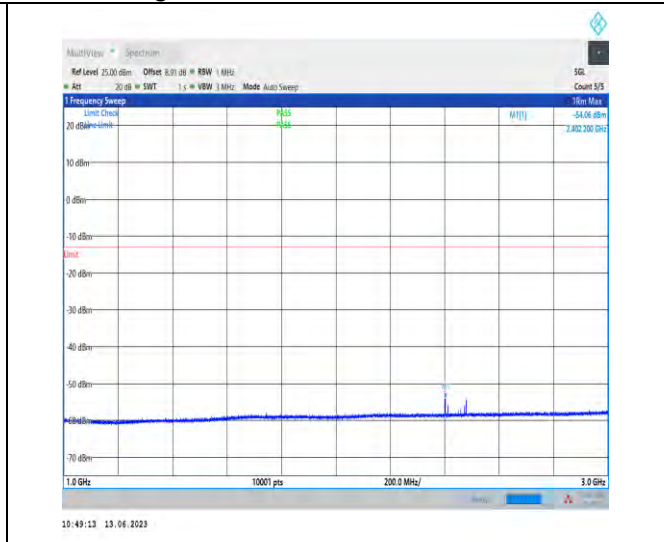
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K-Edge_1RB_Left-1@0-0.15-30-Ant1-0.15--67.61--33-PASS



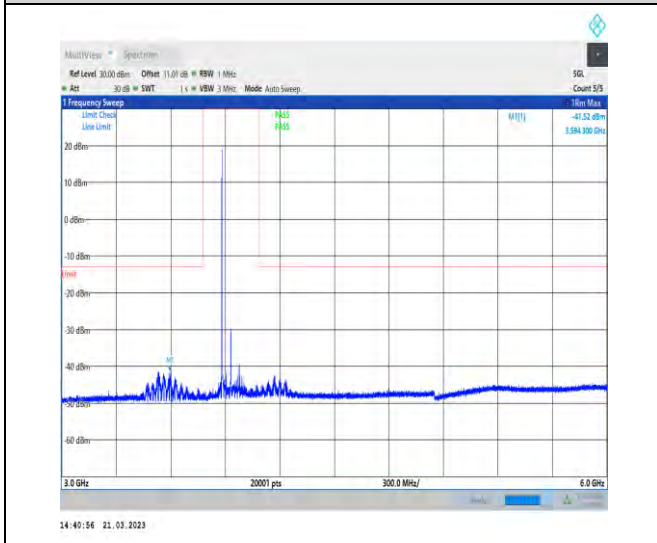
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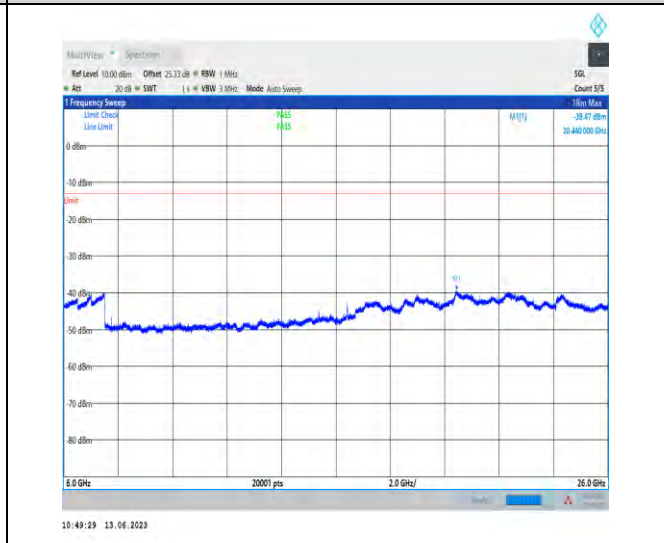
1-N77-3700-3980-PC1.5-30-100-H-1-N/A-DFT-QPS
K-Edge_1RB_Left-1@0-30-1000-Ant1-36.60--66.03-23-PASS



1-N77-3700-3980-PC1.5-30-100-H-1-N/A-DFT-QPS
K-Edge_1RB_Left-1@0-1000-3000-Ant1-2402.20--54.06--13-PASS



1-N77-3700-3980-PC1.5-30-100-H-1-N/A-DFT-QPS
K-Edge_1RB_Left-1@0-3000-6000-Ant1-5528.70--44.13--13-PASS



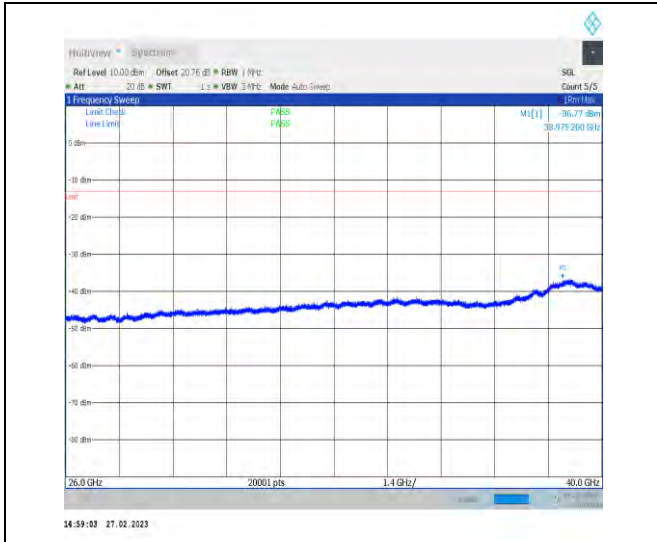
1-N77-3700-3980-PC1.5-30-100-H-1-N/A-DFT-QPS
K-Edge_1RB_Left-1@0-6000-26000-Ant1-20440.00--39.47--13-PASS



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1-N77-3700-3980-PC1.5-30-100-H-1-N/A-DFT-QPS
 K-Edge_1RB_Left-1@0-26000-40000-Ant1-26000.0
 0--49.45--13-PASS



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Field Strength of Spurious Radiation

Test Band = 5G NR SA n77_ TM1

Test Channel = Low 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	39.95	-43.27	36.54	-62.04	-13.00	49.04	255	286	Horizontal
2	8407.85	40.94	-41.40	37.35	-58.38	-13.00	45.38	142	164	Horizontal
3	10965.2700	34.38	-37.67	39.10	-59.45	-13.00	46.45	136	104	Horizontal
4	12810.05	35.26	-36.65	39.64	-57.01	-13.00	44.01	256	286	Horizontal
5	14620.3600	32.94	-35.23	39.91	-57.64	-13.00	44.64	145	330	Horizontal
6	16946.6	35.76	-33.88	38.47	-54.91	-13.00	41.91	195	178	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	40.91	-43.27	36.54	-61.08	-13.00	48.08	235	0	Vertical
2	8399.8	40.79	-41.37	37.33	-58.51	-13.00	45.51	145	179	Vertical
3	10965.2700	34.62	-37.67	39.10	-59.21	-13.00	46.21	162	0	Vertical
4	12810.625	35.33	-36.65	39.64	-56.94	-13.00	43.94	135	255	Vertical
5	14620.3600	32.81	-35.23	39.91	-57.77	-13.00	44.77	185	194	Vertical
6	16949.475	35.98	-33.87	38.47	-54.68	-13.00	41.68	146	286	Vertical



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Test Band = 5G NR SA n77_ TM1

Test Channel = Mid 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	39.41	-42.78	36.39	-62.24	-13.00	49.24	241	42	Horizontal
2	8668.9	40.36	-41.20	37.86	-58.24	-13.00	45.24	123	270	Horizontal
3	9807.975	38.41	-39.07	38.23	-57.69	-13.00	44.69	265	316	Horizontal
4	11835.2700	34.27	-37.25	38.79	-59.45	-13.00	46.45	185	300	Horizontal
5	13628.85	35.17	-36.03	40.12	-55.99	-13.00	42.99	149	300	Horizontal
6	15180.3600	32.71	-33.90	38.98	-57.47	-13.00	44.47	169	132	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	39.85	-42.78	36.39	-61.80	-13.00	48.80	144	356	Vertical
2	8659.125	40.48	-41.16	37.85	-58.09	-13.00	45.09	174	0	Vertical
3	10449.675	36.76	-38.74	38.91	-58.33	-13.00	45.33	125	2	Vertical
4	11835.2700	33.85	-37.25	38.79	-59.87	-13.00	46.87	136	301	Vertical
5	15180.3600	32.17	-33.90	38.98	-58.01	-13.00	45.01	256	152	Vertical
6	17748.725	35.53	-33.70	40.49	-52.94	-13.00	39.94	291	152	Vertical



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Test Band = 5G NR SA n77_ TM1
Test Channel = High 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	40.69	-42.69	36.86	-60.40	-13.00	47.40	244	135	Horizontal
2	9419.85	39.20	-39.93	38.49	-57.50	-13.00	44.50	156	1	Horizontal
3	11805.2700	33.85	-37.21	38.76	-59.86	-13.00	46.86	132	356	Horizontal
4	12719.2	35.51	-36.79	39.49	-57.05	-13.00	44.05	199	150	Horizontal
5	15740.3600	32.61	-33.18	38.27	-57.56	-13.00	44.56	256	0	Horizontal
6	17111.625	35.59	-33.86	38.56	-54.97	-13.00	41.97	144	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	7402.175	45.72	-42.80	36.49	-55.85	-13.00	42.85	216	316	Vertical
2	7870.1800	40.06	-42.69	36.86	-61.03	-13.00	48.03	142	28	Vertical
3	9807.975	37.94	-39.07	38.23	-58.16	-13.00	45.16	158	194	Vertical
4	11805.2700	33.50	-37.21	38.76	-60.21	-13.00	47.21	132	256	Vertical
5	14493.075	34.06	-34.29	40.01	-55.47	-13.00	42.47	184	357	Vertical
6	15740.3600	33.03	-33.18	38.27	-57.14	-13.00	44.14	196	287	Vertical



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Test Band = UL MIMO_n77_TM1

Test Channel = Low 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3319	44.93	-46.43	28.49	-68.26	-13.00	55.26	102	270	Horizontal
2	4899.5	43.33	-45.53	31.18	-66.28	-13.00	53.28	159	0	Horizontal
3	5964.5	41.69	-44.88	32.69	-65.76	-13.00	52.76	258	2	Horizontal
4	7310.1800	37.29	-43.71	36.07	-65.61	-13.00	52.61	247	0	Horizontal
5	10965.2700	27.56	-37.83	38.68	-66.85	-13.00	53.85	261	0	Horizontal
6	14620.3600	25.88	-35.16	41.15	-63.39	-13.00	50.39	158	53	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	3461	44.02	-46.27	28.58	-68.93	-13.00	55.93	159	270	Vertical
2	4707.5	43.18	-45.60	30.76	-66.92	-13.00	53.92	145	325	Vertical
3	5708	42.47	-44.84	32.64	-64.99	-13.00	51.99	121	288	Vertical
4	7310.1800	38.40	-43.71	36.07	-64.50	-13.00	51.50	269	359	Vertical
5	10965.2700	27.24	-37.83	38.68	-67.17	-13.00	54.17	231	126	Vertical
6	14620.3600	25.31	-35.16	41.15	-63.96	-13.00	50.96	258	360	Vertical



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Test Band = UL MIMO_n77_TM1

Test Channel = Mid 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3595	44.39	-46.14	28.70	-68.31	-13.00	55.31	112	109	Horizontal
2	4891.5	43.29	-45.53	31.16	-66.34	-13.00	53.34	158	342	Horizontal
3	5885	41.84	-44.94	32.68	-65.68	-13.00	52.68	245	126	Horizontal
4	7590.1800	37.82	-42.95	36.64	-63.75	-13.00	50.75	166	0	Horizontal
5	11835.2700	25.49	-37.00	38.78	-67.98	-13.00	54.98	236	342	Horizontal
6	15180.3600	24.71	-34.12	40.92	-63.75	-13.00	50.75	147	145	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	3452	44.65	-46.27	28.57	-68.31	-13.00	55.31	154	359	Vertical
2	4917	43.59	-45.55	31.22	-66.00	-13.00	53.00	187	53	Vertical
3	6125.5	41.81	-44.53	33.10	-64.88	-13.00	51.88	265	323	Vertical
4	7590.1800	37.72	-42.95	36.64	-63.85	-13.00	50.85	159	360	Vertical
5	11835.2700	25.84	-37.00	38.78	-67.63	-13.00	54.63	147	161	Vertical
6	15180.3600	24.63	-34.12	40.92	-63.83	-13.00	50.83	132	72	Vertical



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Test Band = UL MIMO_n77_TM1

Test Channel = High 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3490.5	44.28	-46.26	28.59	-68.65	-13.00	55.65	112	147	Horizontal
2	4889	43.64	-45.53	31.16	-66.00	-13.00	53.00	187	2	Horizontal
3	6632	41.14	-44.18	34.54	-63.76	-13.00	50.76	269	218	Horizontal
4	7870.1800	37.73	-42.67	36.75	-63.45	-13.00	50.45	135	343	Horizontal
5	11805.2700	26.28	-36.95	38.78	-67.15	-13.00	54.15	147	0	Horizontal
6	15740.3600	23.92	-33.41	39.74	-65.01	-13.00	52.01	232	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	3480	44.71	-46.26	28.59	-68.23	-13.00	55.23	258	339	Vertical
2	4909	43.54	-45.54	31.20	-66.06	-13.00	53.06	154	106	Vertical
3	5979	42.49	-44.86	32.70	-64.93	-13.00	51.93	169	106	Vertical
4	7870.1800	38.23	-42.67	36.75	-62.95	-13.00	49.95	236	54	Vertical
5	11805.2700	25.66	-36.95	38.78	-67.77	-13.00	54.77	214	323	Vertical
6	15740.3600	23.39	-33.41	39.74	-65.54	-13.00	52.54	157	90	Vertical



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Test Band = NSA 12A-n77A_TM1

Test Channel = Low 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	40.23	-43.27	36.54	-61.76	-13.00	48.76	211	40	Horizontal
2	8334.25	41.57	-41.70	37.25	-58.14	-13.00	45.14	145	13	Horizontal
3	9409.5	39.21	-39.92	38.49	-57.49	-13.00	44.49	265	13	Horizontal
4	10965.2700	34.93	-37.67	39.10	-58.90	-13.00	45.90	285	54	Horizontal
5	13468.425	35.49	-36.47	40.15	-56.09	-13.00	43.09	174	1	Horizontal
6	14620.3600	32.90	-35.23	39.91	-57.68	-13.00	44.68	169	254	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	39.77	-43.27	36.54	-62.22	-13.00	49.22	245	357	Vertical
2	8418.2	41.31	-41.45	37.37	-58.03	-13.00	45.03	175	272	Vertical
3	9365.8	39.45	-39.97	38.46	-57.32	-13.00	44.32	142	0	Vertical
4	10965.2700	35.34	-37.67	39.10	-58.49	-13.00	45.49	136	0	Vertical
5	12801.425	35.19	-36.62	39.63	-57.06	-13.00	44.06	258	7	Vertical
6	14620.3600	33.14	-35.23	39.91	-57.44	-13.00	44.44	174	179	Vertical



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Test Band = NSA 12A-n77A_TM1

Test Channel = Mid 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	40.49	-42.78	36.39	-61.16	-13.00	48.16	145	240	Horizontal
2	8354.95	41.57	-41.60	37.27	-58.01	-13.00	45.01	185	0	Horizontal
3	9807.975	38.90	-39.07	38.23	-57.20	-13.00	44.20	196	270	Horizontal
4	11835.2700	33.41	-37.25	38.79	-60.31	-13.00	47.31	167	90	Horizontal
5	12800.275	35.93	-36.62	39.63	-56.32	-13.00	43.32	142	43	Horizontal
6	15180.3600	32.40	-33.90	38.98	-57.78	-13.00	44.78	173	90	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	39.50	-42.78	36.39	-62.15	-13.00	49.15	255	71	Vertical
2	8364.725	41.51	-41.55	37.29	-58.01	-13.00	45.01	142	130	Vertical
3	8815.525	40.58	-41.10	38.09	-57.69	-13.00	44.69	123	282	Vertical
4	10708.425	36.55	-37.57	39.15	-57.14	-13.00	44.14	265	56	Vertical
5	11835.2700	34.20	-37.25	38.79	-59.52	-13.00	46.52	254	299	Vertical
6	15180.3600	32.51	-33.90	38.98	-57.67	-13.00	44.67	140	193	Vertical



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Test Band = NSA 12A-n77A_ TM1
Test Channel = High 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	40.30	-42.69	36.86	-60.79	-13.00	47.79	211	0	Horizontal
2	8409	41.57	-41.41	37.35	-57.75	-13.00	44.75	145	0	Horizontal
3	9330.15	39.40	-40.02	38.44	-57.45	-13.00	44.45	136	298	Horizontal
4	11805.2700	34.17	-37.21	38.76	-59.54	-13.00	46.54	251	315	Horizontal
5	13711.075	36.01	-36.02	40.04	-55.22	-13.00	42.22	134	298	Horizontal
6	15740.3600	33.28	-33.18	38.27	-56.89	-13.00	43.89	182	25	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	39.80	-42.69	36.86	-61.29	-13.00	48.29	235	121	Vertical
2	8809.775	40.45	-41.12	38.09	-57.84	-13.00	44.84	142	197	Vertical
3	9402.025	39.04	-39.92	38.49	-57.65	-13.00	44.65	165	8	Vertical
4	11805.2700	34.32	-37.21	38.76	-59.39	-13.00	46.39	125	60	Vertical
5	13704.75	35.73	-36.00	40.05	-55.48	-13.00	42.48	175	0	Vertical
6	15740.3600	32.95	-33.18	38.27	-57.22	-13.00	44.22	136	197	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:

 $AF = \text{Antenna Factor(dB/m)}$
 $\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$
 $\text{Margin} = \text{Limit} - \text{Level}$


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Frequency Stability for UL MIMO

Test Result

Frequency Error VS. Voltage

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	1.600000	0.000417	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.200000	0.001094	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	11.500000	0.002995	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	3.600000	0.0005234	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-1.800000	-0.000469	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	1.900000	0.000495	PASS

Frequency Error VS. Temperature

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	9.200000	0.002396	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	9.600000	0.002500	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	6.500000	0.001693	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	9.000000	0.002344	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	1.100000	0.000286	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	1.400000	0.000365	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	6.600000	0.001719	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	10.300000	0.002682	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	16.000000	0.004167	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	-5.300000	-0.001380	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	8.500000	0.002214	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	8.100000	0.002109	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	1.000000	0.000260	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	3.800000	0.000990	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	10.100000	0.002630	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	3.600000	0.000938	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	1.600000	0.000417	PASS

---End of Attachment---



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