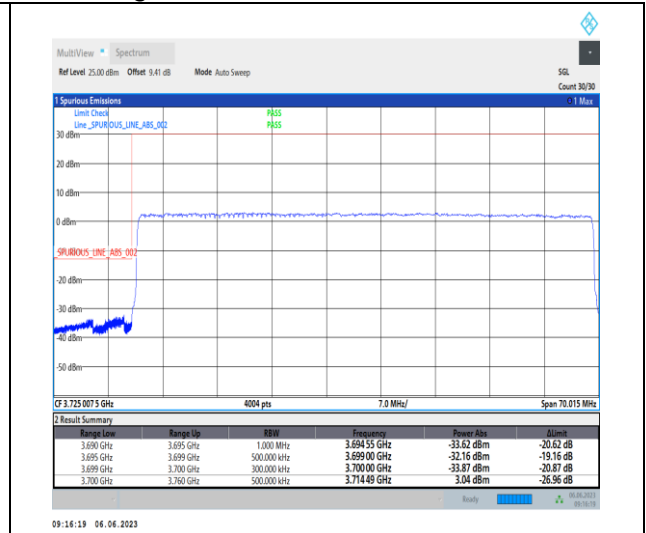
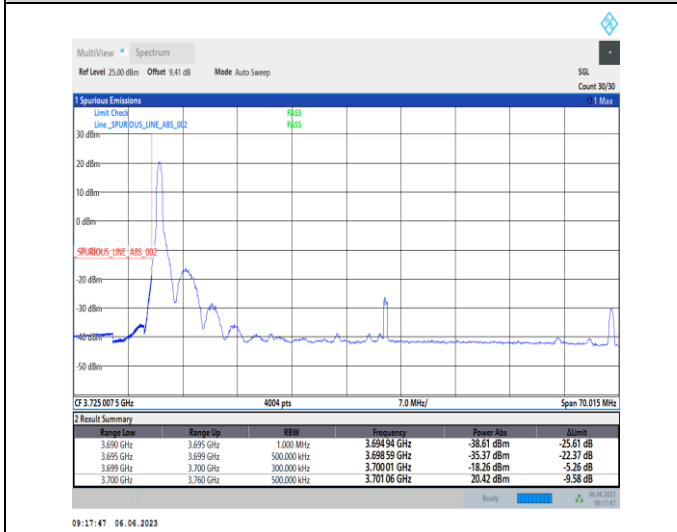


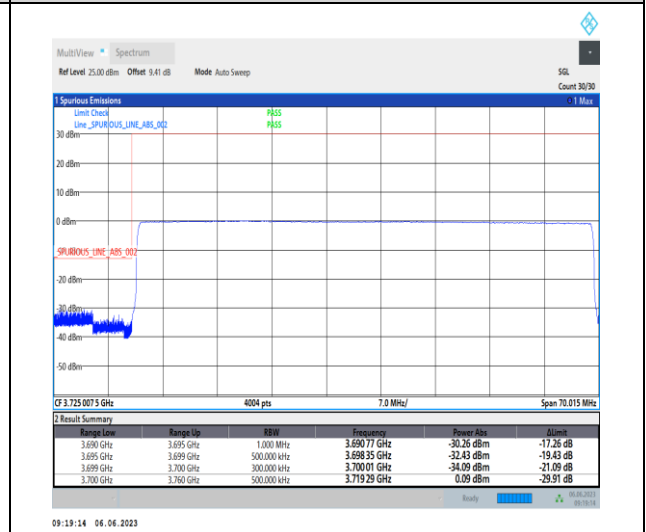
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1-N77-3700-3980-PC3-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph

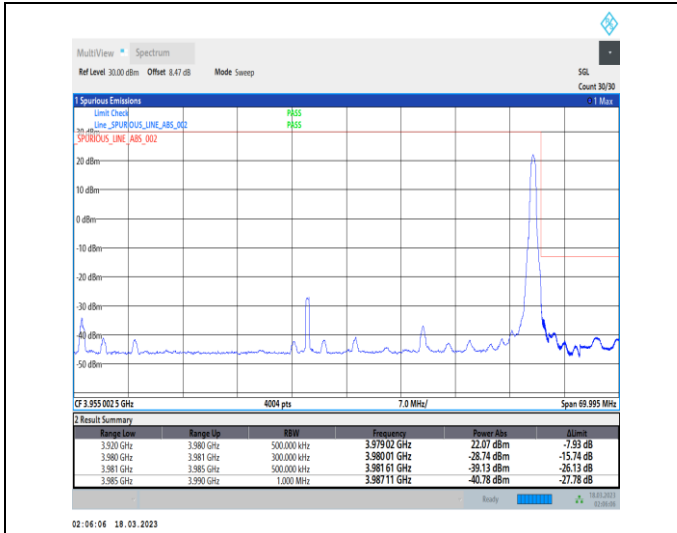


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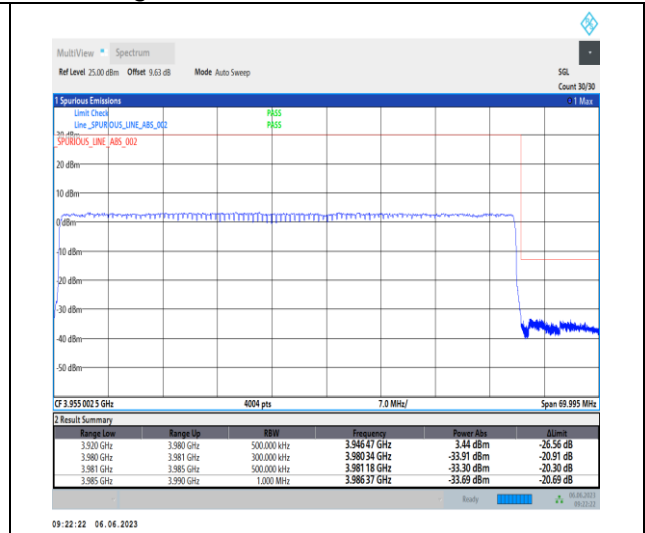
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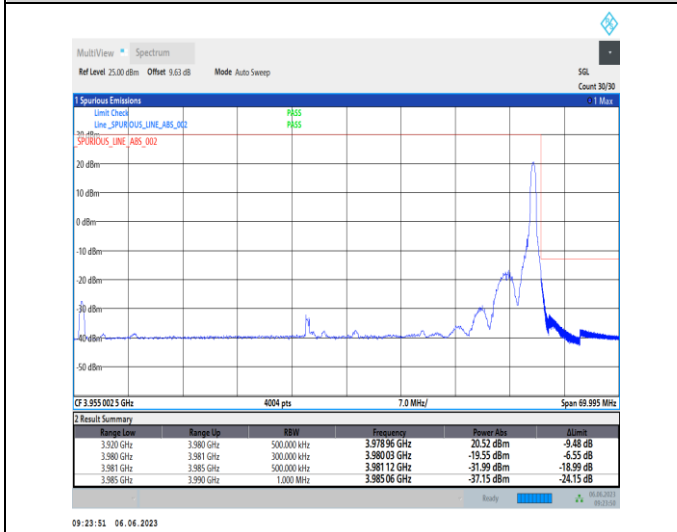
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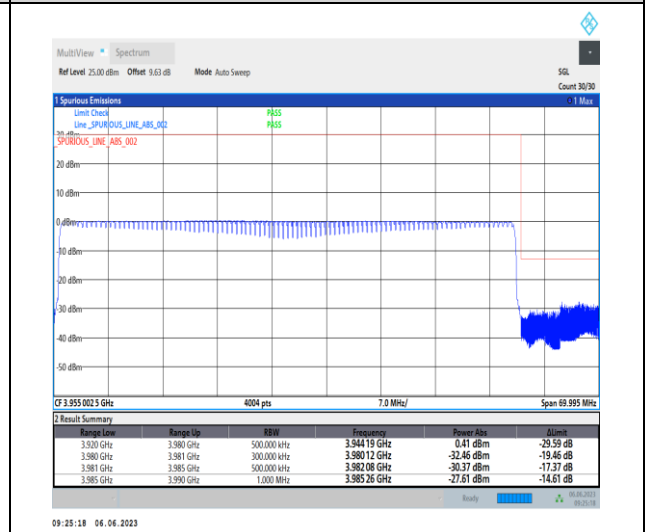
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1-N77-3700-3980-PC3-30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



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



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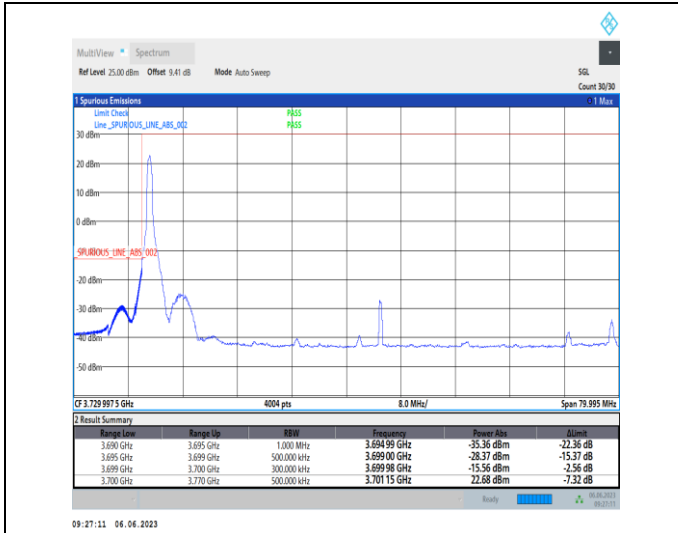


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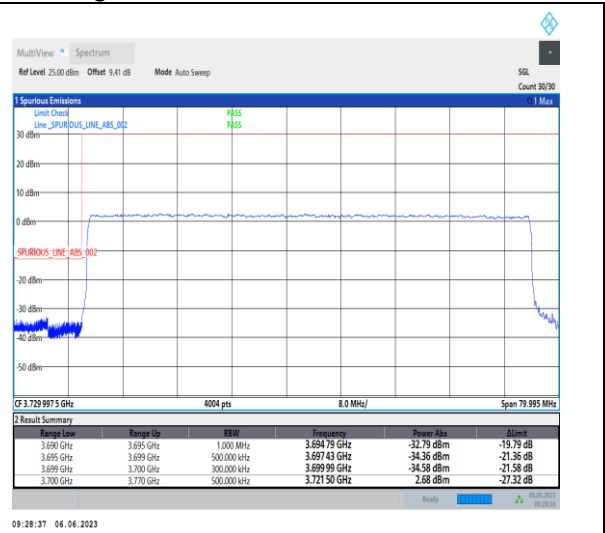
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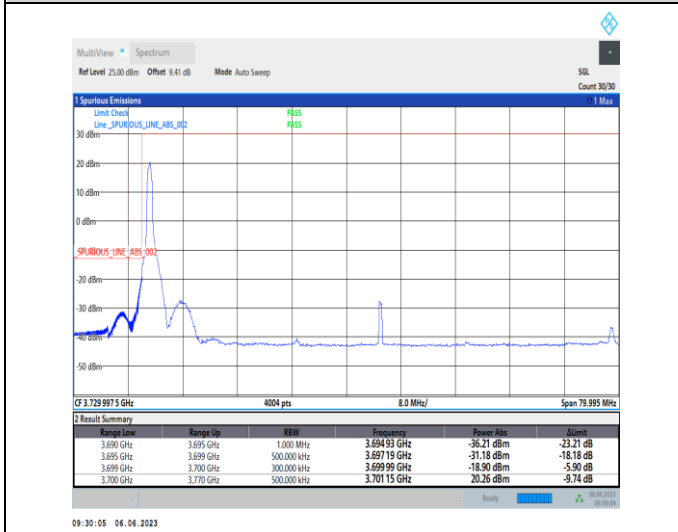
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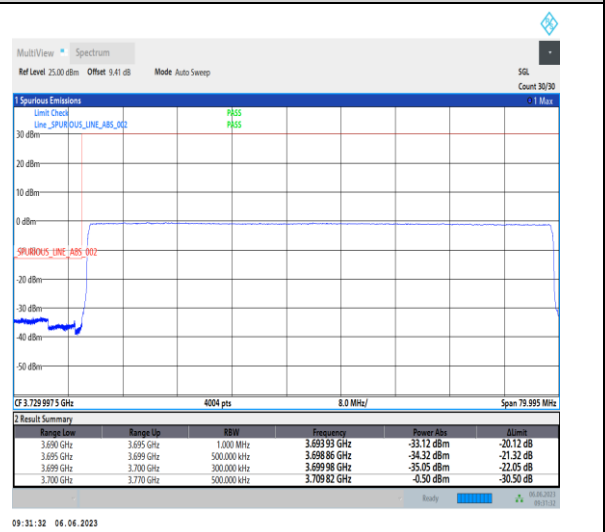
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1-N77-3700-3980-PC3-30-70-L-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-70-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant1-1--PASS-see graph

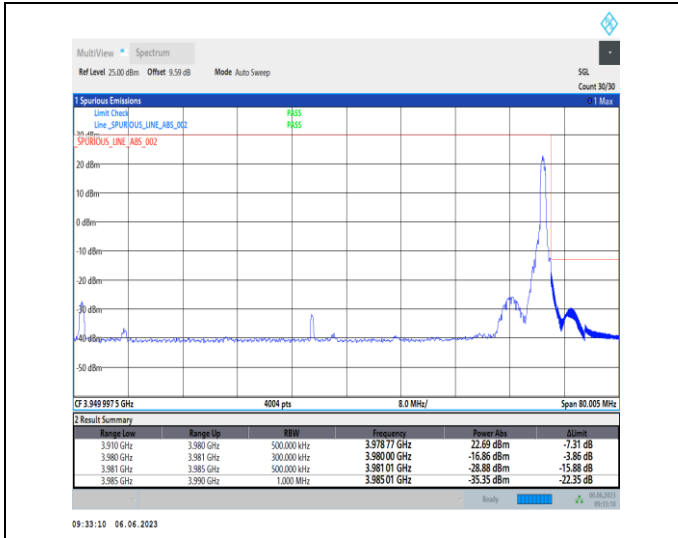


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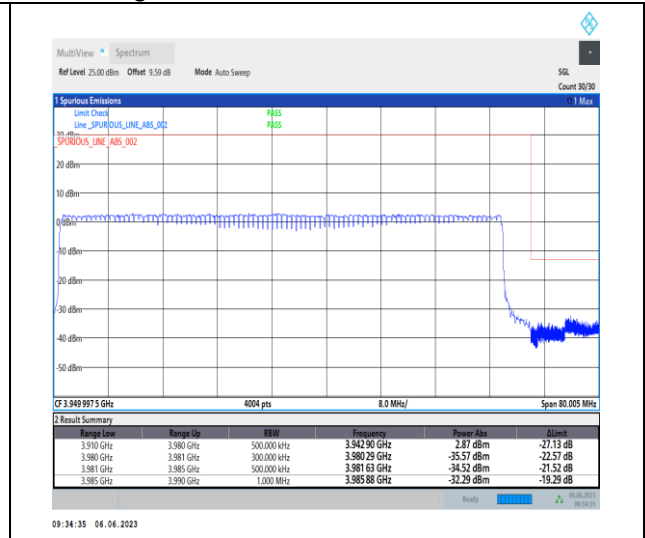
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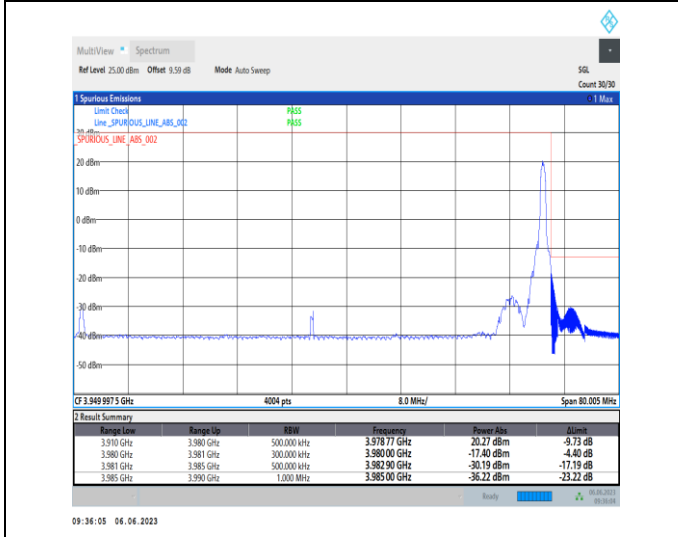
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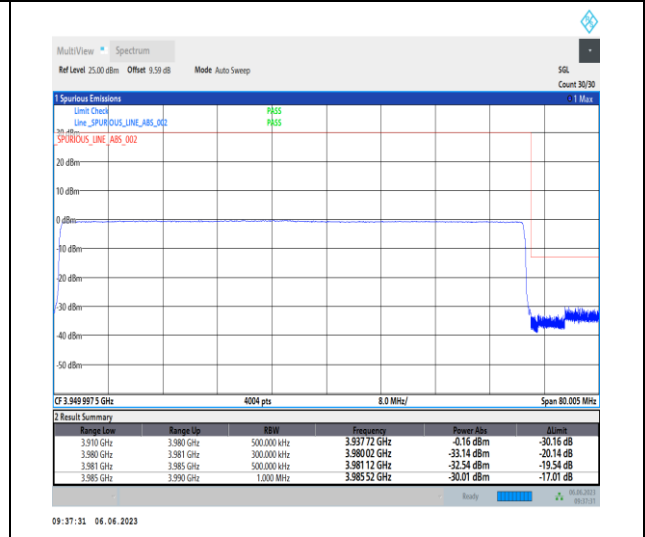
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1-N77-3700-3980-PC3-30-70-H-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-70-H-5-CP-QPSK-Edge_1RB_Right-1@188-Ant1-1--PASS-see graph



1-N77-3700-3980-PC3-30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant1-1--PASS-see graph

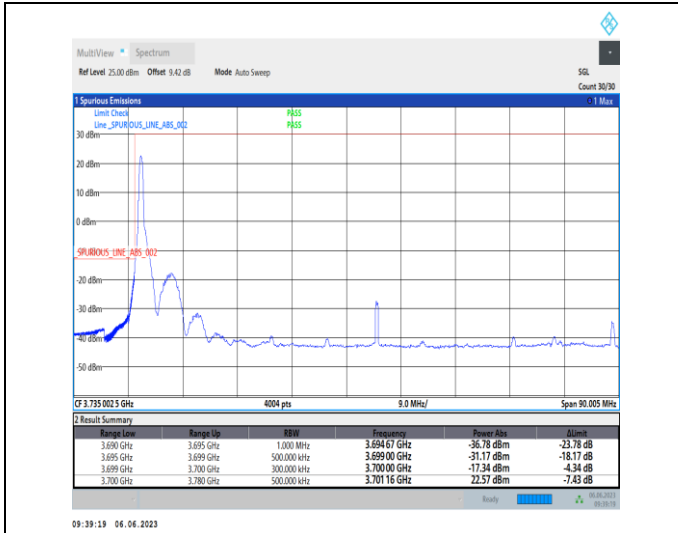


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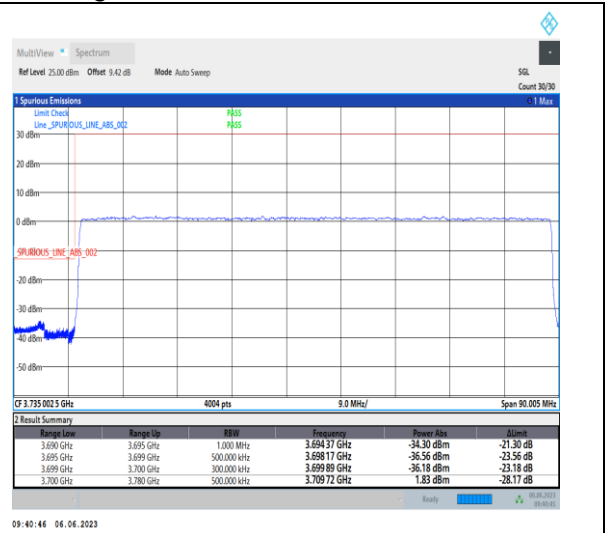
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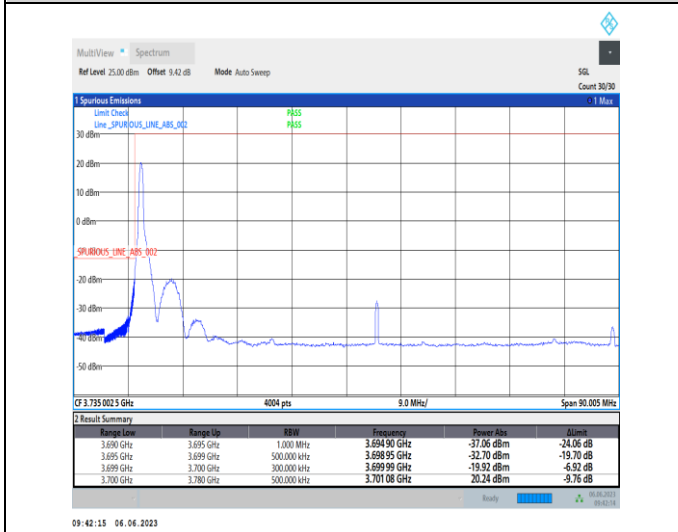
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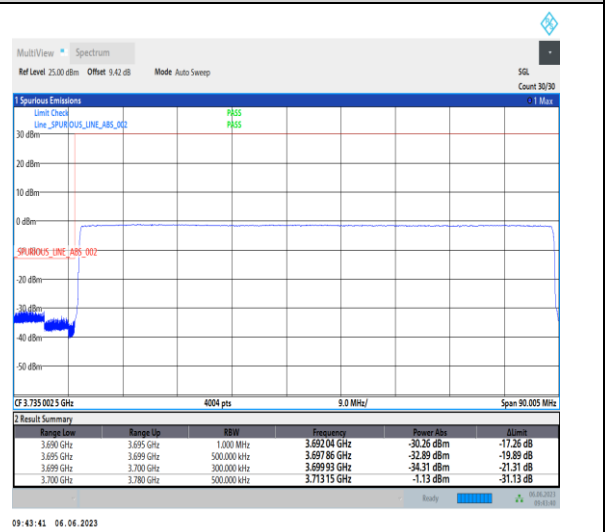
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1-N77-3700-3980-PC3-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



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



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

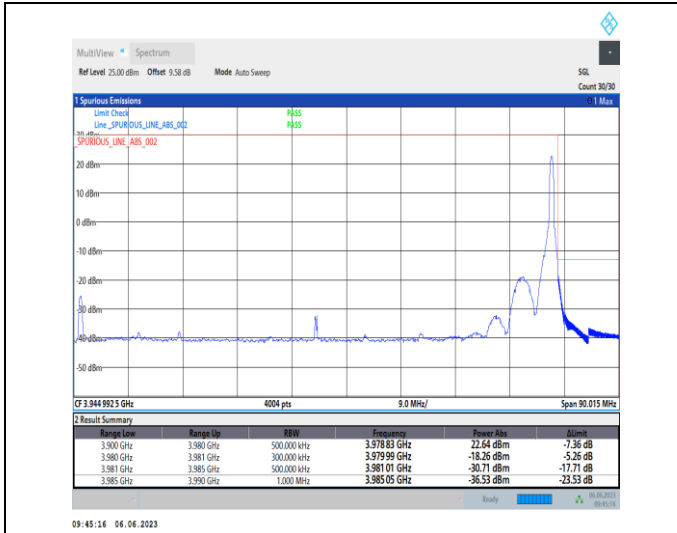


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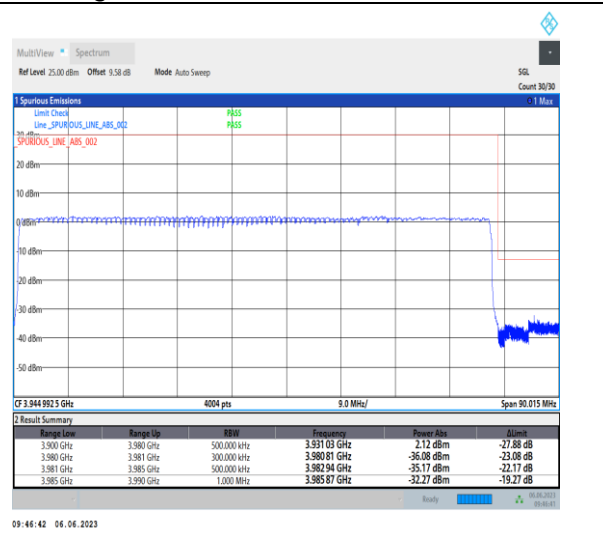
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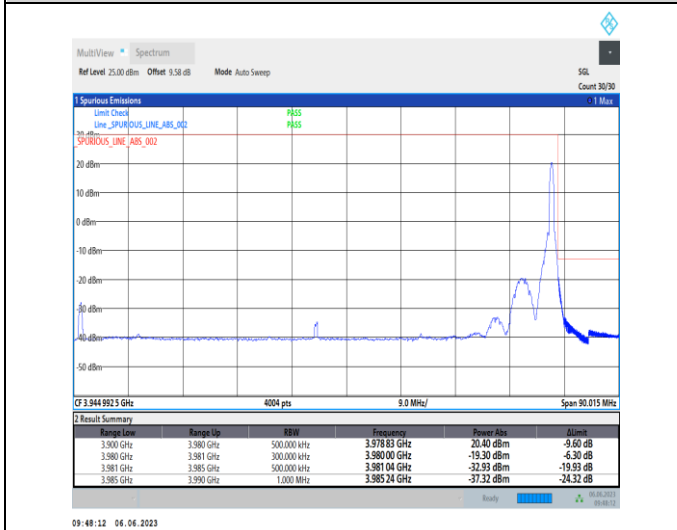
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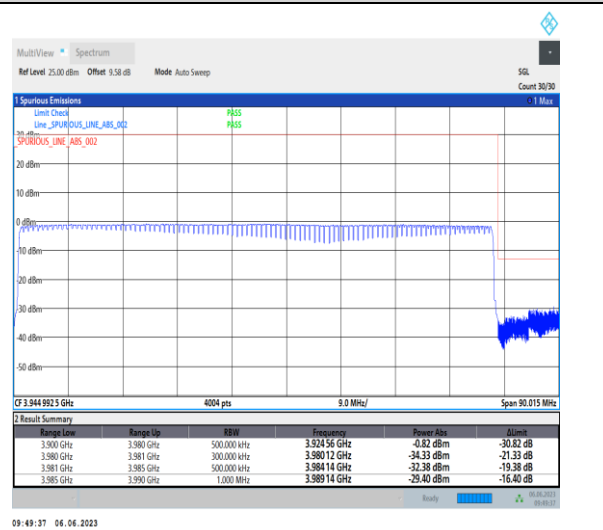
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1-N77-3700-3980-PC3-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant1-1--PASS-see graph



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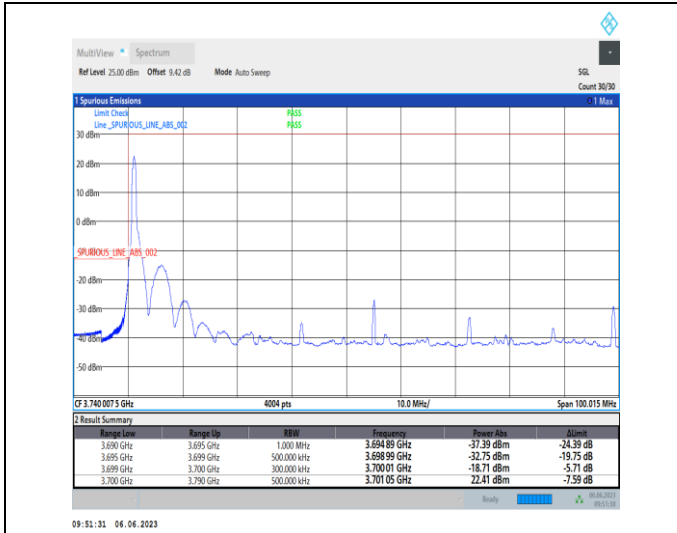


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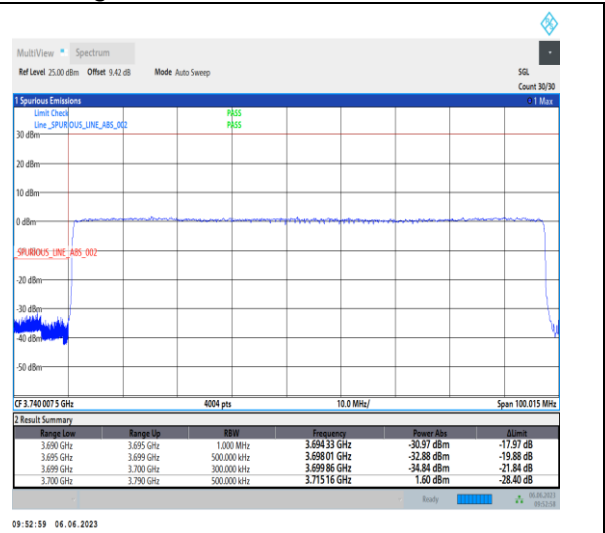
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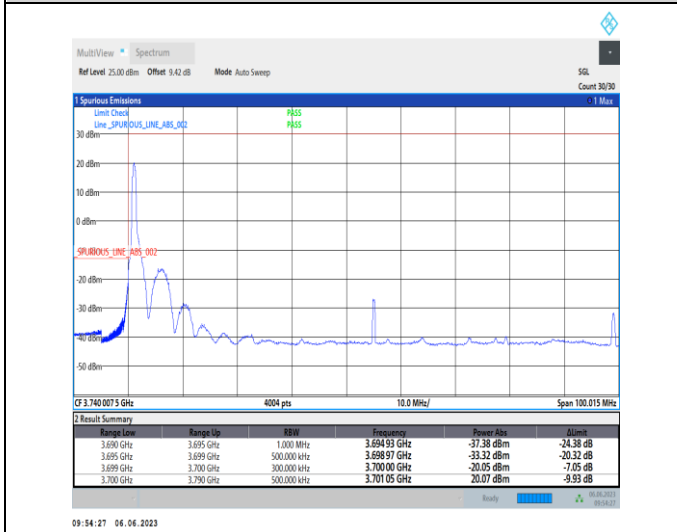
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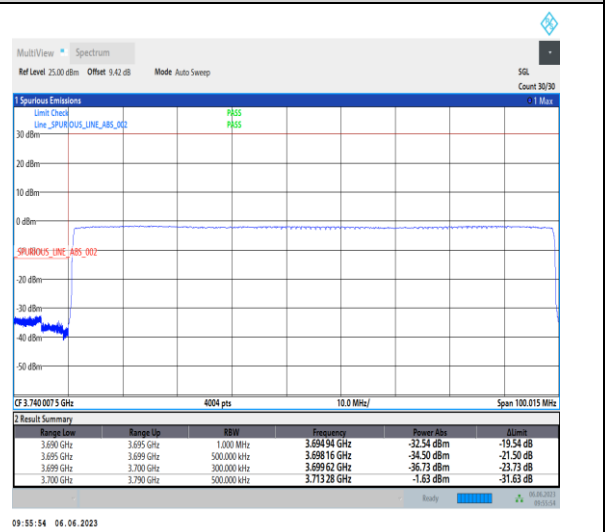
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1-N77-3700-3980-PC3-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



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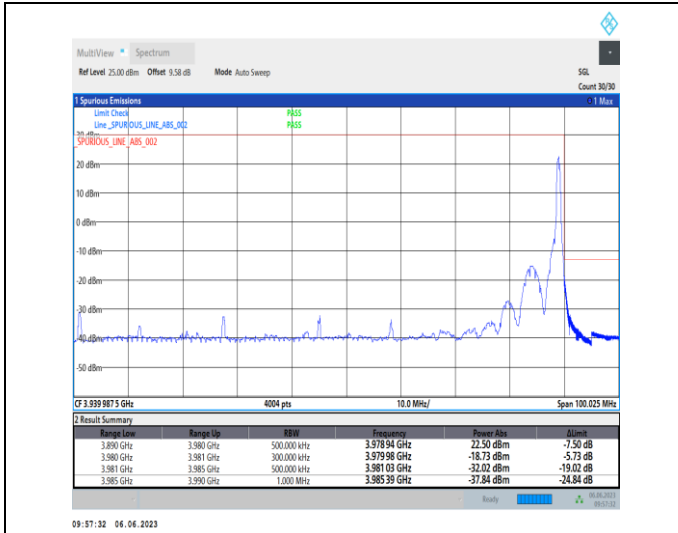


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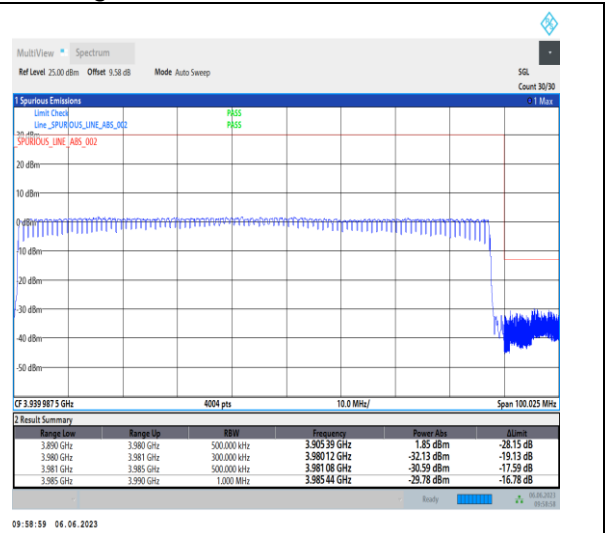
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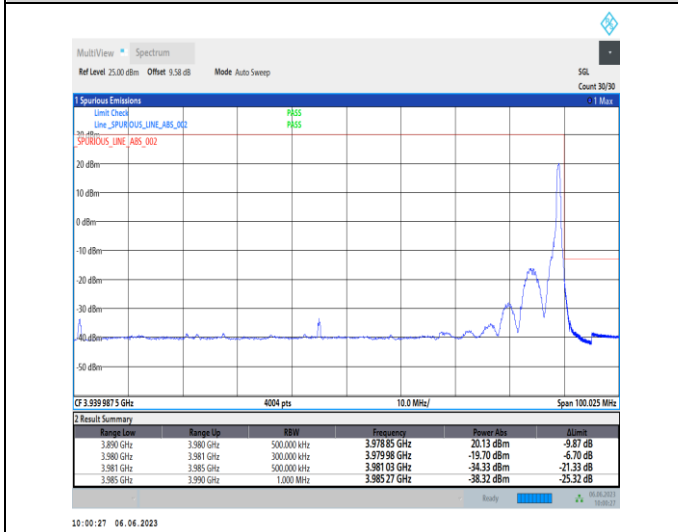
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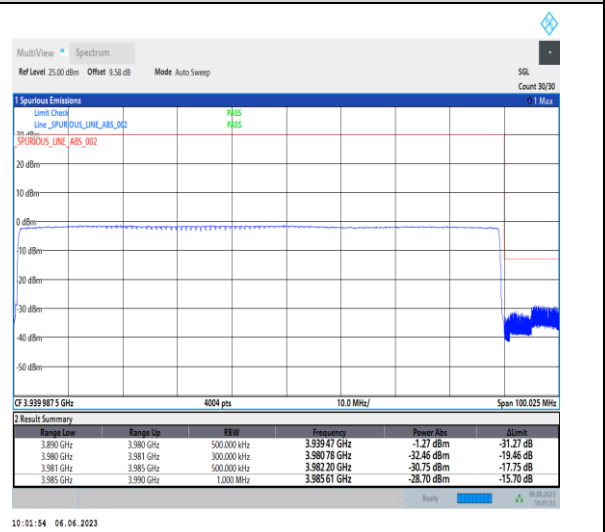
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1-N77-3700-3980-PC3-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-1--PASS-see graph



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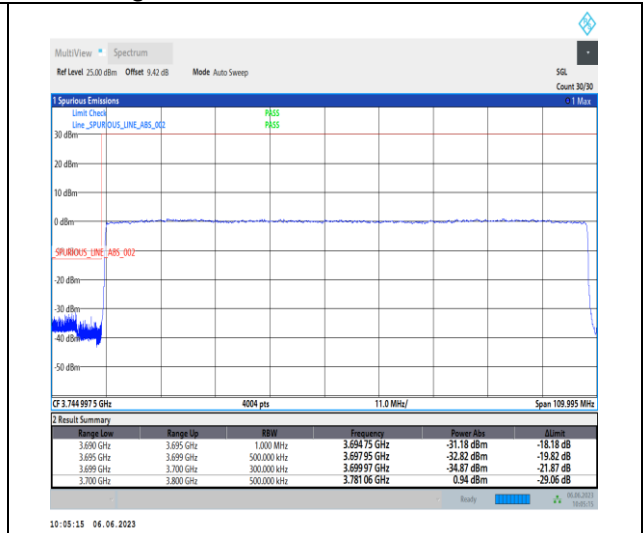
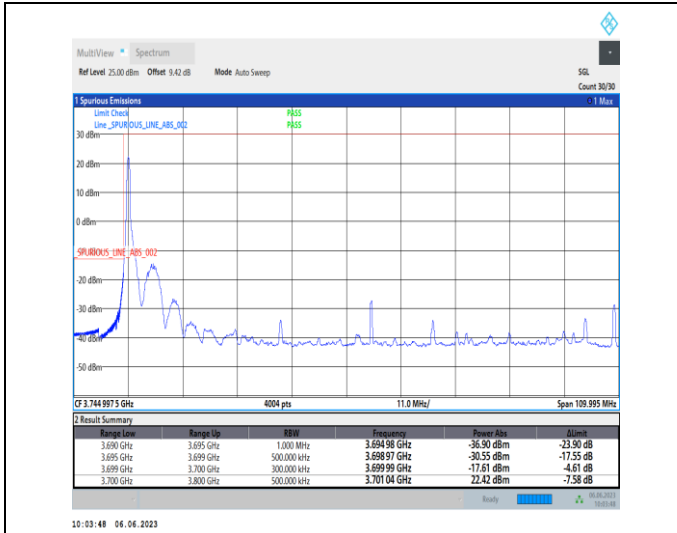


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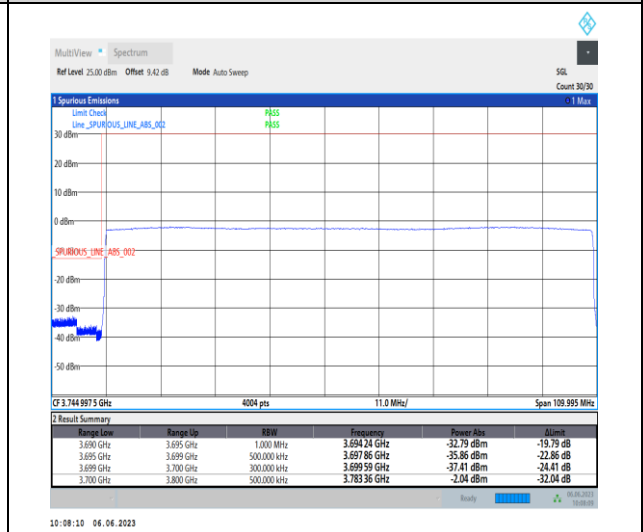
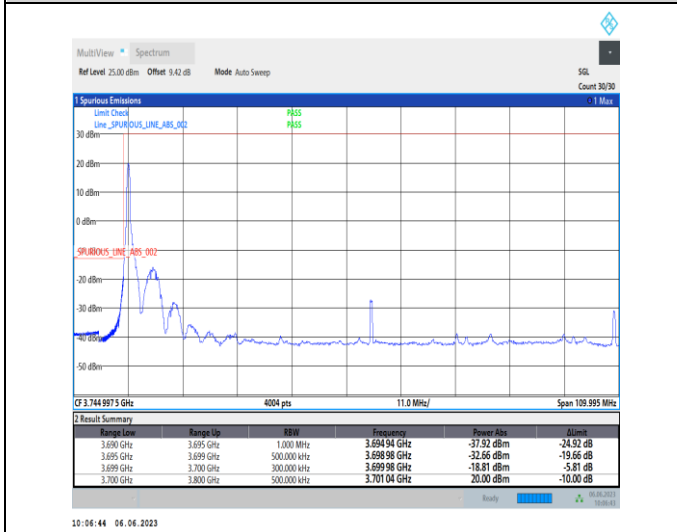
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1-N77-3700-3980-PC3-30-100-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

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



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

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

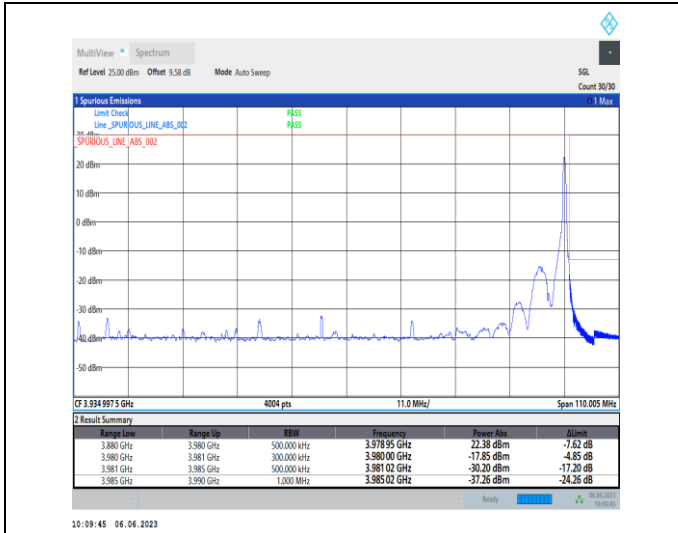


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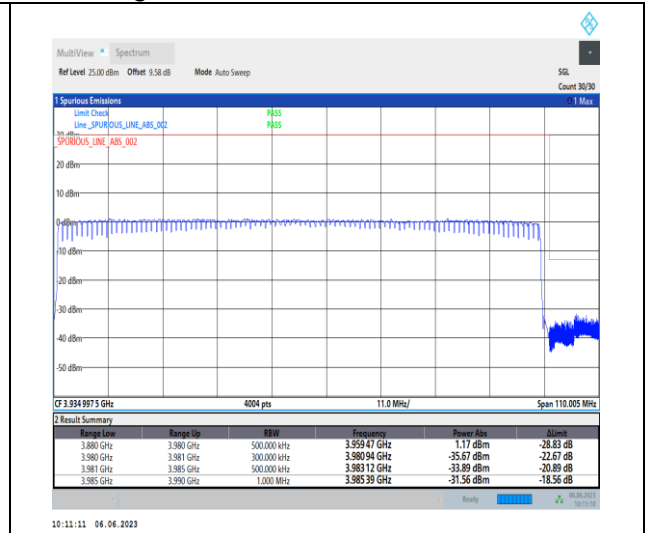
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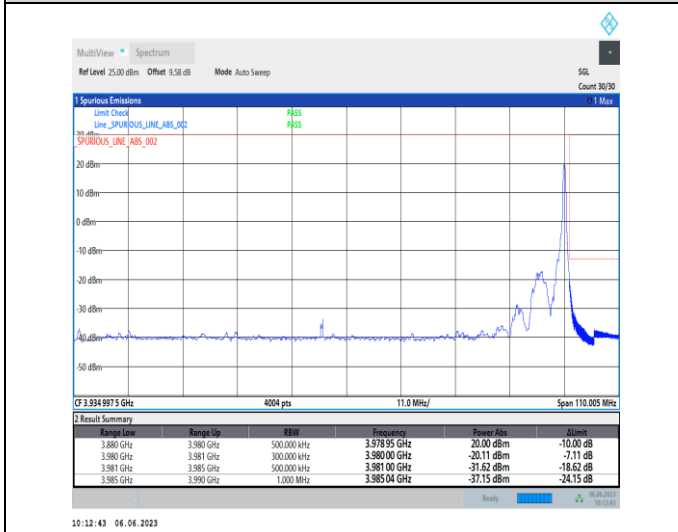
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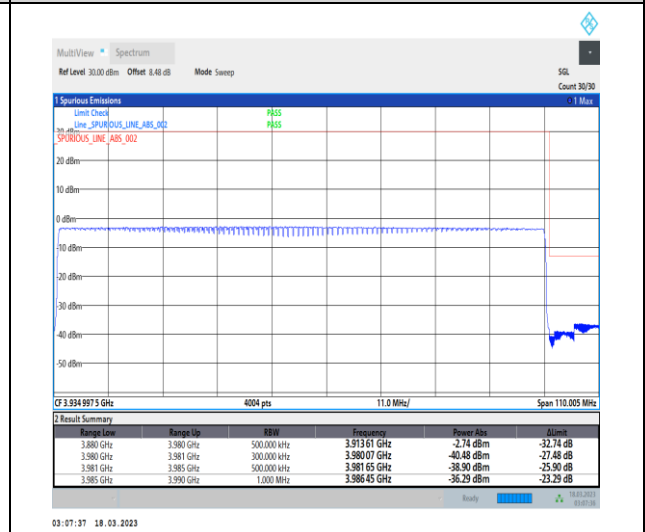
1-N77-3700-3980-PC3-30-100-H-2-DFT-PI2BPSK-Edge_1_RB_Right-1@272-Ant1-1--PASS-see graph



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



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



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



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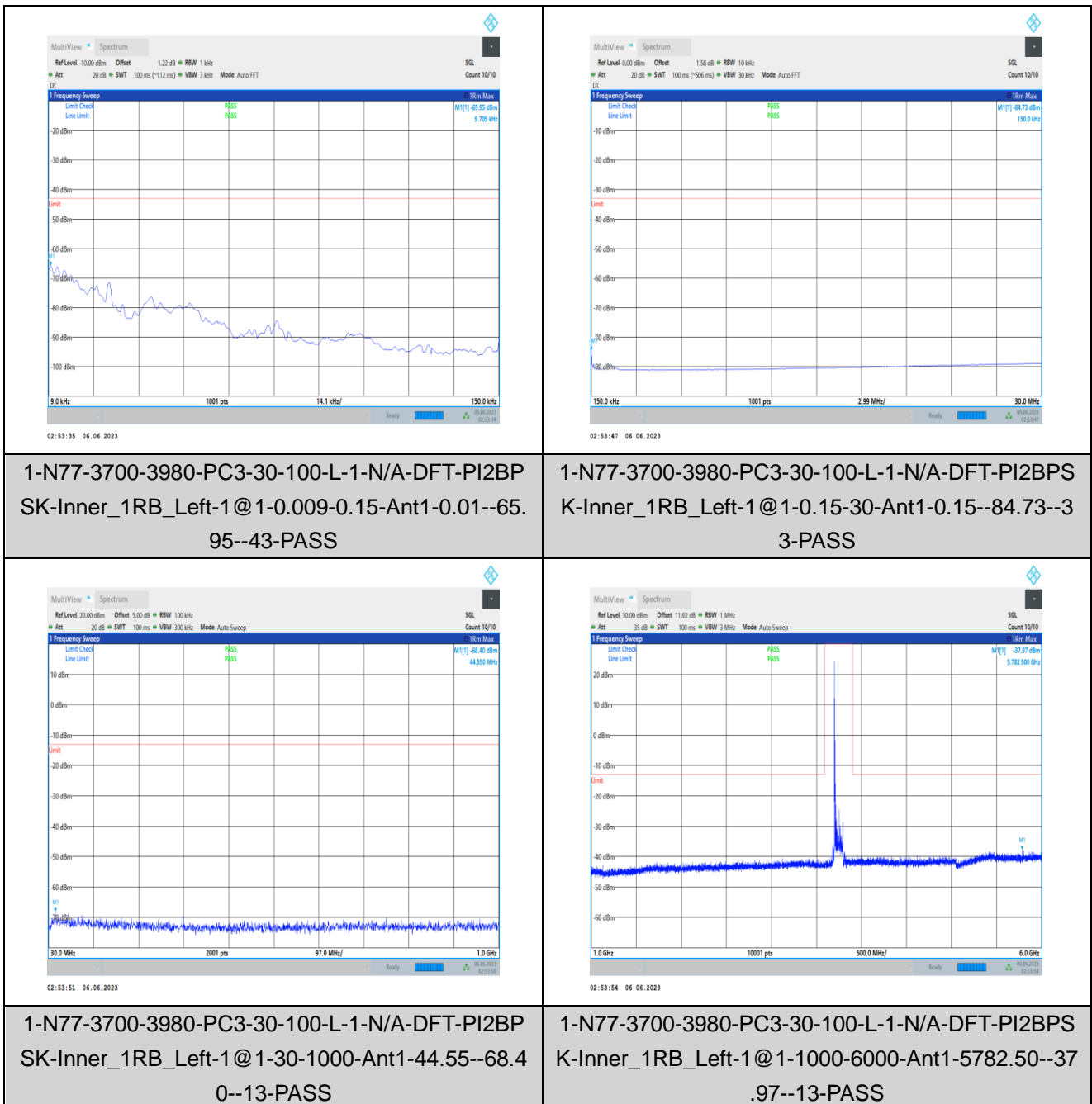
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Conducted Spurious Emission for SA

Test Graphs

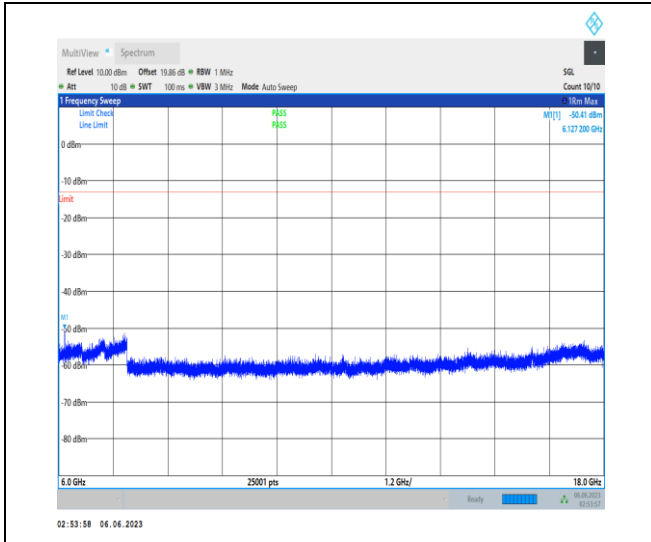


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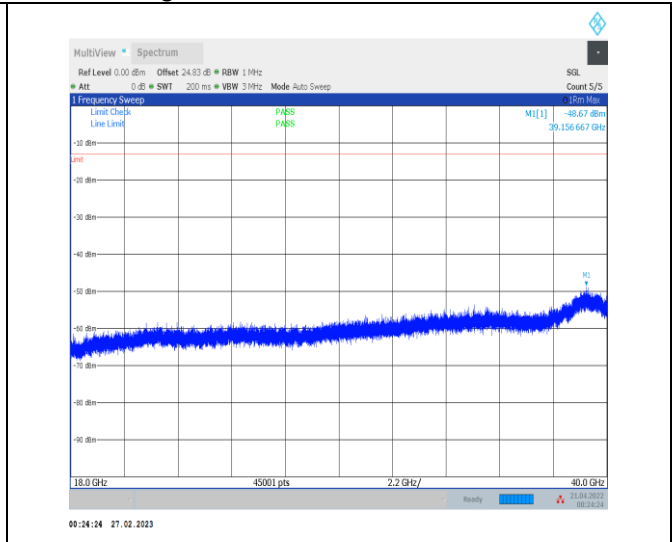
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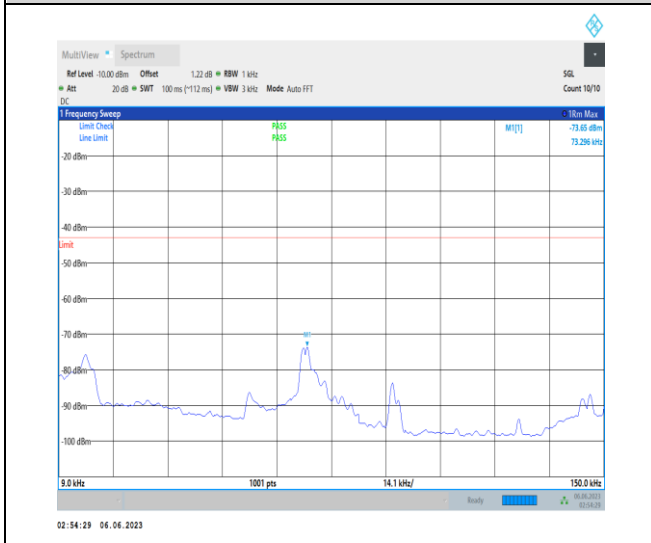
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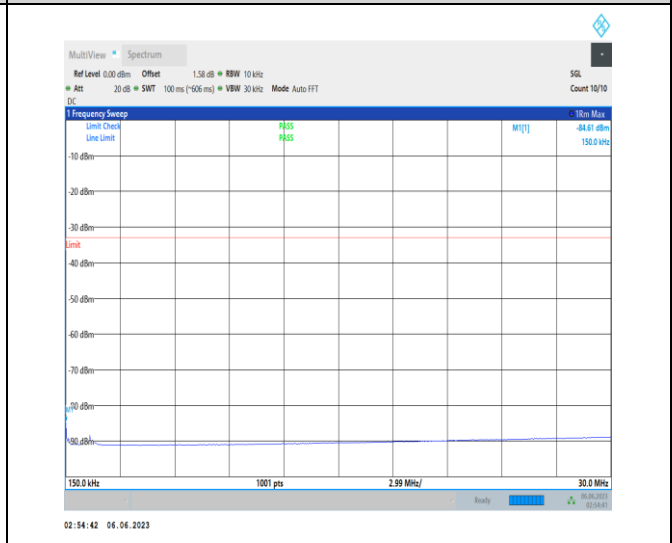
1-N77-3700-3980-PC3-30-100-L-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-6000-18000-Ant1-6127.20
--50.41--13-PASS



1-N77-3700-3980-PC3-30-100-L-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
--59.69--13-PASS



1-N77-3700-3980-PC3-30-100-M-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.07--73.
65--43-PASS



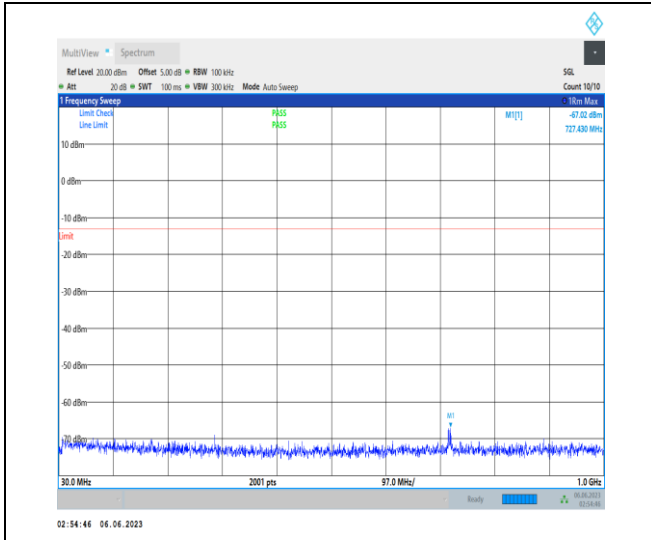
1-N77-3700-3980-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--84.61--3
3-PASS



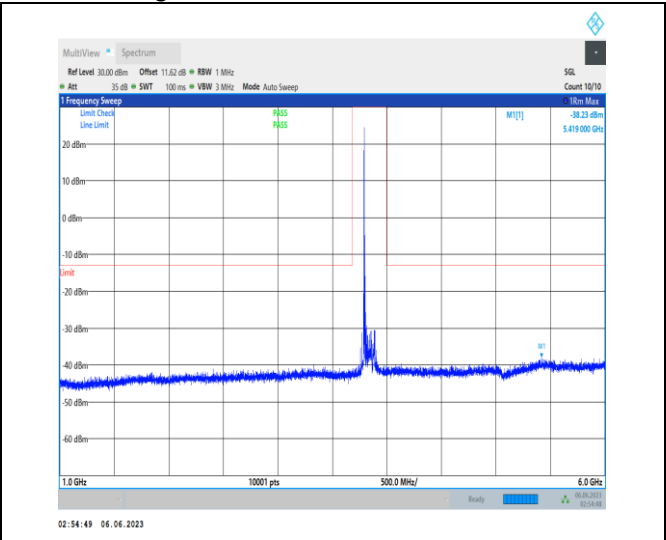
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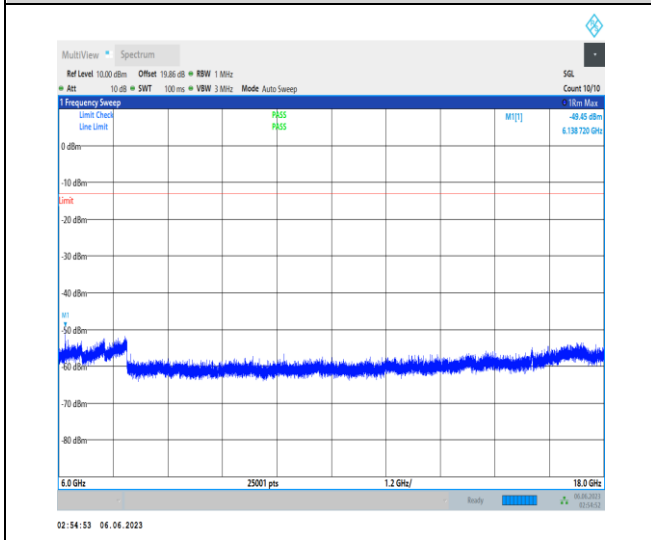
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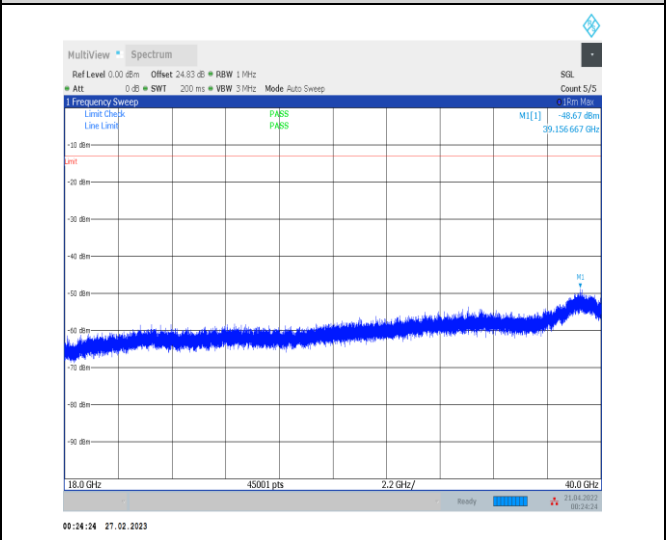
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SK-Inner_1RB_Left-1@1-30-1000-Ant1-727.43--67.
02--13-PASS



1-N77-3700-3980-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-1000-6000-Ant1-5419.00--38
.23--13-PASS



1-N77-3700-3980-PC3-30-100-M-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-6000-18000-Ant1-6138.72
--49.45--13-PASS



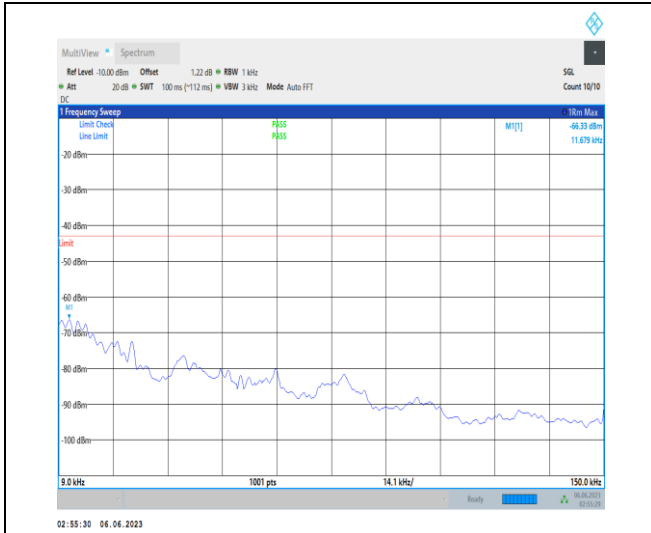
1-N77-3700-3980-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
--60.06--13-PASS



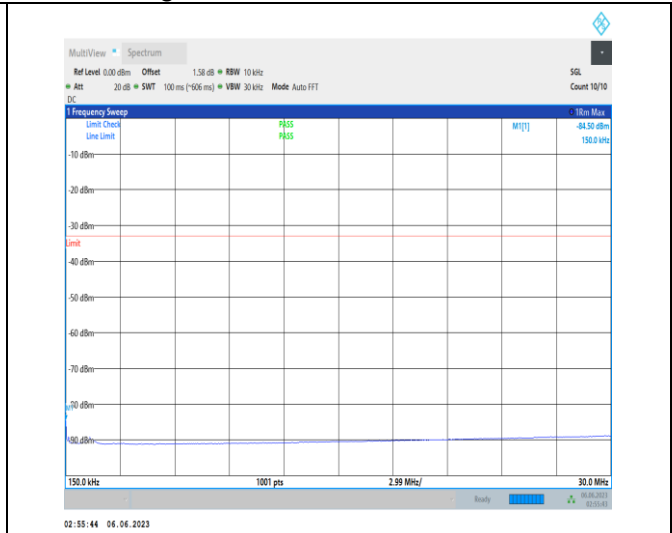
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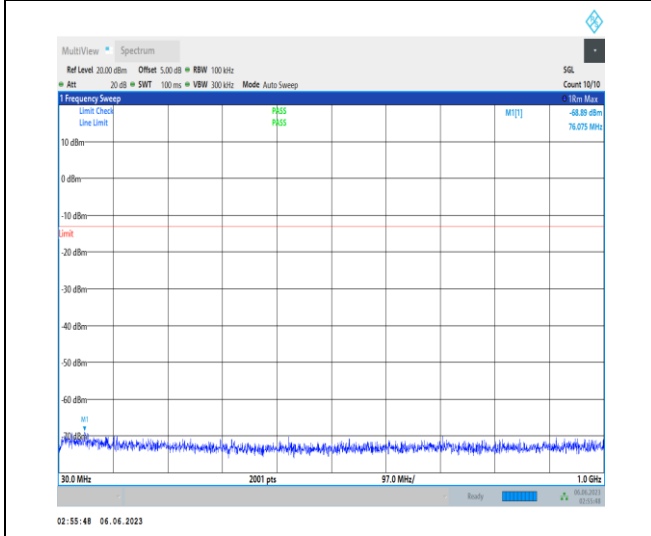
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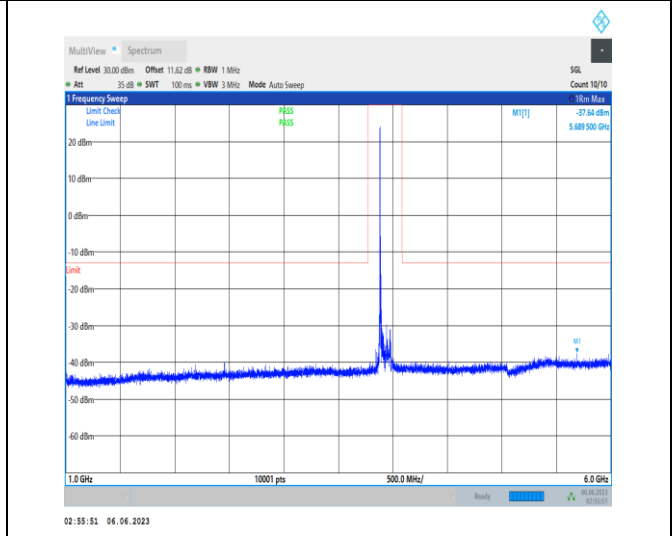
1-N77-3700-3980-PC3-30-100-H-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--66.
33--43-PASS



1-N77-3700-3980-PC3-30-100-H-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--84.50--33
3-PASS



1-N77-3700-3980-PC3-30-100-H-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-30-1000-Ant1-76.08--68.8
9--13-PASS



1-N77-3700-3980-PC3-30-100-H-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-1000-6000-Ant1-5689.50--37
.64--13-PASS

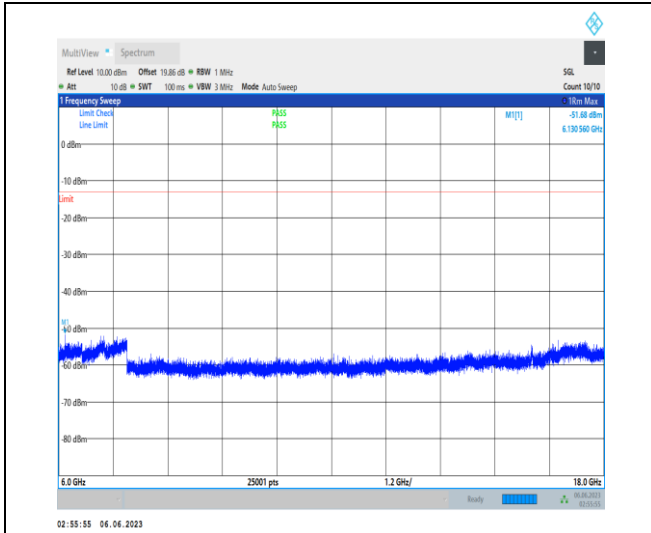


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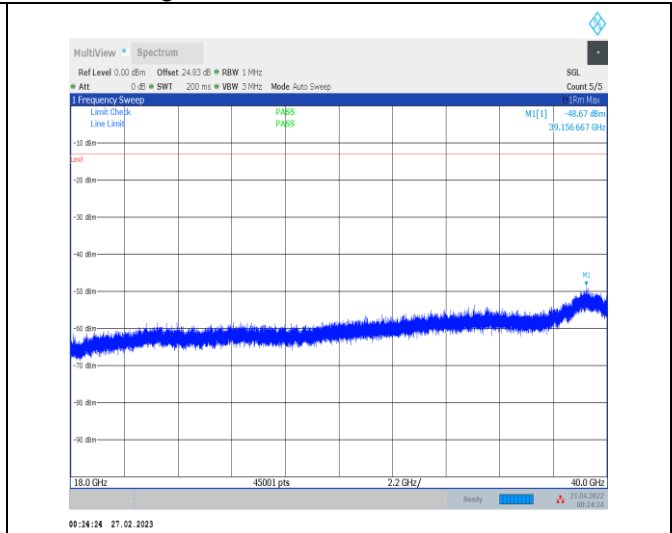
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1-N77-3700-3980-PC3-30-100-H-1-N/A-DFT-PI2BP
 SK-Inner_1RB_Left-1@1-6000-18000-Ant1-6130.56
 --51.68--13-PASS



1-N77-3700-3980-PC3-30-100-H-1-N/A-DFT-PI2BPS
 K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
 --60.40--13-PASS



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Field Strength of Spurious Radiation

Test Band = NR Band 77 3700~3980_TM1_Ant11

Test Channel = Low Channel_100MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7401.7917	43.88	-41.98	36.44	-56.92	-13.00	43.92	269	37	Horizontal
2	8942.3125	37.90	-38.82	38.54	-57.65	-13.00	44.65	288	359	Horizontal
3	9586.3125	38.24	-37.82	38.54	-56.30	-13.00	43.30	175	185	Horizontal
4	12964.4375	34.93	-34.91	39.56	-55.67	-13.00	42.67	263	19	Horizontal
5	17820.7917	32.19	-30.94	41.88	-52.13	-13.00	39.13	142	301	Horizontal
6	14964.36	31.04	-34.32	39.24	-59.30	-13.00	46.30	158	4	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9579.125	37.91	-37.85	38.54	-56.65	-13.00	43.65	132	360	Vertical
2	13602.6875	34.71	-34.42	39.96	-55.01	-13.00	42.01	262	18	Vertical
3	17582.6458	31.73	-31.89	40.93	-54.49	-13.00	41.49	142	264	Vertical
4	7482.18	37.93	-41.66	36.49	-62.50	-13.00	49.50	175	187	Vertical
5	11223.27	32.73	-35.10	39.38	-58.25	-13.00	45.25	284	360	Vertical
6	14964.36	30.59	-34.32	39.24	-59.75	-13.00	46.75	138	301	Vertical



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Test Band = NR Band 77 3700~3980_TM1_Ant11

Test Channel = Mid Channel_100MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9579.125	37.68	-37.85	38.54	-56.88	-13.00	43.88	217	39	Horizontal
2	13584.9583	35.06	-34.34	39.95	-54.59	-13.00	41.59	149	359	Horizontal
3	17666.0208	32.17	-31.34	41.26	-53.16	-13.00	40.16	263	76	Horizontal
4	7590.18	38.73	-41.27	36.68	-61.12	-13.00	48.12	244	359	Horizontal
5	11835.27	32.22	-35.25	38.76	-59.52	-13.00	46.52	175	360	Horizontal
6	15180.36	31.57	-33.62	38.97	-58.34	-13.00	45.34	201	229	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9580.0833	38.05	-37.84	38.54	-56.51	-13.00	43.51	193	203	Vertical
2	12956.2917	35.64	-34.91	39.56	-54.98	-13.00	41.98	218	315	Vertical
3	17839	32.62	-31.00	41.96	-51.68	-13.00	38.68	275	53	Vertical
4	7590.18	37.37	-41.27	36.68	-62.48	-13.00	49.48	166	34	Vertical
5	11835.27	32.20	-35.25	38.76	-59.54	-13.00	46.54	142	3	Vertical
6	15180.36	30.55	-33.62	38.97	-59.36	-13.00	46.36	203	333	Vertical



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Test Band = NR Band 77 3700~3980_TM1_Ant11

Test Channel = High Channel_100MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9553.7292	37.92	-37.93	38.54	-56.72	-13.00	43.72	153	352	Horizontal
2	13595.5	34.93	-34.39	39.96	-54.76	-13.00	41.76	248	352	Horizontal
3	17994.25	32.07	-31.30	42.58	-51.92	-13.00	38.92	172	4	Horizontal
4	7770.18	38.48	-41.00	37.04	-60.74	-13.00	47.74	169	149	Horizontal
5	11655.27	31.48	-35.22	38.94	-60.05	-13.00	47.05	284	4	Horizontal
6	15540.36	31.19	-33.41	38.50	-58.98	-13.00	45.98	140	265	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9598.7708	38.23	-37.78	38.54	-56.27	-13.00	43.27	229	16	Vertical
2	13595.5	35.02	-34.39	39.96	-54.67	-13.00	41.67	168	16	Vertical
3	17338.75	32.29	-31.77	39.95	-54.79	-13.00	41.79	149	360	Vertical
4	7770.18	37.82	-41.00	37.04	-61.40	-13.00	48.40	156	92	Vertical
5	11655.27	31.11	-35.22	38.94	-60.42	-13.00	47.42	234	260	Vertical
6	15540.36	31.14	-33.41	38.50	-59.03	-13.00	46.03	173	16	Vertical



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Test Band = NR Band 77 3700~3980_TM1_Ant12

Test Channel = Low Channel_100MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8522.5625	37.74	-39.66	38.07	-59.11	-13.00	46.11	261	1	Horizontal
2	9564.2708	37.83	-37.89	38.54	-56.78	-13.00	43.78	259	47	Horizontal
3	17408.2292	32.30	-31.79	40.23	-54.52	-13.00	41.52	168	1	Horizontal
4	7482.18	38.59	-41.66	36.49	-61.84	-13.00	48.84	176	235	Horizontal
5	11223.27	32.99	-35.10	39.38	-57.99	-13.00	44.99	203	0	Horizontal
6	14964.36	30.50	-34.32	39.24	-59.84	-13.00	46.84	145	344	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8935.125	37.75	-38.84	38.53	-57.83	-13.00	44.83	257	63	Vertical
2	9567.1458	37.98	-37.89	38.54	-56.62	-13.00	43.62	148	1	Vertical
3	17996.1667	31.92	-31.31	42.58	-52.06	-13.00	39.06	266	139	Vertical
4	7482.18	39.81	-41.66	36.49	-60.62	-13.00	47.62	271	46	Vertical
5	11223.27	31.74	-35.10	39.38	-59.24	-13.00	46.24	162	139	Vertical
6	14964.36	31.06	-34.32	39.24	-59.28	-13.00	46.28	135	175	Vertical



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Test Band = NR Band 77 3700~3980_TM1_Ant12

Test Channel = Mid Channel_100MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8939.9167	37.67	-38.83	38.53	-57.89	-13.00	44.89	218	357	Horizontal
2	9559	37.75	-37.91	38.54	-56.88	-13.00	43.88	149	1	Horizontal
3	17941.5417	32.81	-31.23	42.37	-51.32	-13.00	38.32	266	308	Horizontal
4	7590.18	37.73	-41.27	36.68	-62.12	-13.00	49.12	135	357	Horizontal
5	11835.27	31.27	-35.25	38.76	-60.47	-13.00	47.47	247	51	Horizontal
6	15180.36	30.42	-33.62	38.97	-59.49	-13.00	46.49	185	231	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8922.1875	37.92	-38.88	38.51	-57.71	-13.00	44.71	142	138	Vertical
2	10210.6667	36.53	-36.63	38.73	-56.62	-13.00	43.62	198	12	Vertical
3	13595.0208	35.06	-34.39	39.96	-54.63	-13.00	41.63	246	138	Vertical
4	7590.18	37.14	-41.27	36.68	-62.71	-13.00	49.71	213	253	Vertical
5	11835.27	31.56	-35.25	38.76	-60.18	-13.00	47.18	164	344	Vertical
6	15180.36	30.63	-33.62	38.97	-59.28	-13.00	46.28	275	101	Vertical



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Test Band = NR Band 77 3700~3980_TM1_Ant12

Test Channel = High Channel_100MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9571.4583	37.74	-37.87	38.54	-56.85	-13.00	43.85	249	212	Horizontal
2	10228.3958	36.49	-36.67	38.75	-56.69	-13.00	43.69	163	196	Horizontal
3	13593.5833	34.41	-34.38	39.96	-55.28	-13.00	42.28	258	0	Horizontal
4	7770.18	38.07	-41.00	37.04	-61.15	-13.00	48.15	174	44	Horizontal
5	11655.27	30.58	-35.22	38.94	-60.95	-13.00	47.95	152	160	Horizontal
6	15540.36	30.66	-33.41	38.50	-59.51	-13.00	46.51	138	248	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9581.5208	37.97	-37.84	38.54	-56.59	-13.00	43.59	149	306	Vertical
2	13588.3125	34.64	-34.36	39.95	-55.03	-13.00	42.03	206	0	Vertical
3	17330.6042	32.63	-31.77	39.92	-54.48	-13.00	41.48	134	46	Vertical
4	7770.18	37.29	-41.00	37.04	-61.93	-13.00	48.93	175	1	Vertical
5	11655.27	30.94	-35.22	38.94	-60.59	-13.00	47.59	186	344	Vertical
6	15540.36	31.35	-33.41	38.50	-58.82	-13.00	45.82	277	0	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Chan nel	RB Config	Voltage	Temper ature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	1.600000	0.000269	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-0.900000	-0.000126	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.500000	-0.001362	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-4.100000	-0.002364	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-17.900000	-0.004658	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-7.500000	-0.001362	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Chan nel	RB Config	Voltage	Temper ature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.600000	-0.001023	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.200000	-0.001352	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.300000	-0.001412	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-7.500000	-0.001635	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-9.500000	-0.002523	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-12.200000	-0.002635	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.500000	-0.001123	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-7.900000	-0.002057	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.500000	-0.001432	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-10.500000	-0.002734	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-9.800000	-0.002552	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-9.100000	-0.002370	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	-12.800000	-0.003333	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	20	-7.600000	-0.001979	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-7.400000	-0.001927	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-11.600000	-0.003021	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-10.100000	-0.002630	PASS

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