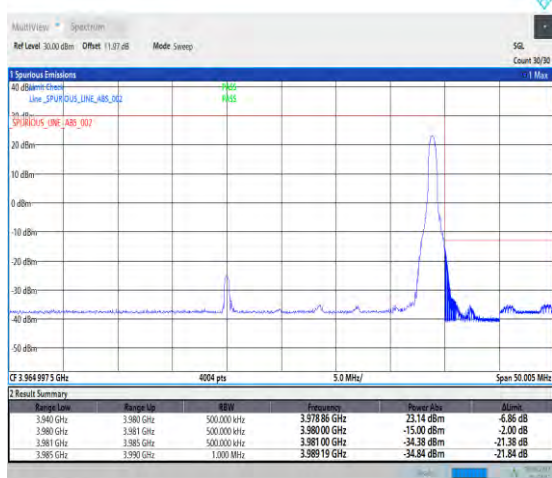


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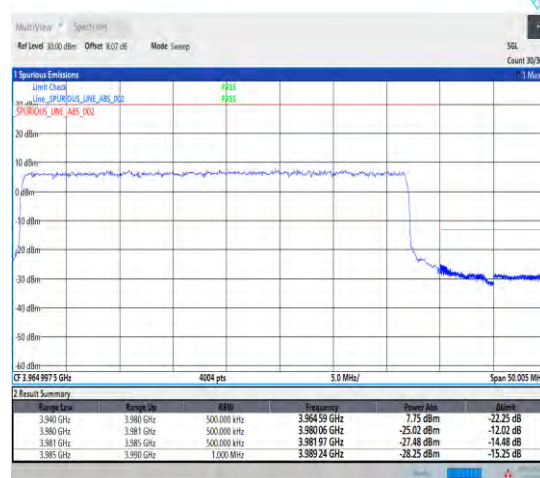
Rev.: 01

Page: 82 of 104



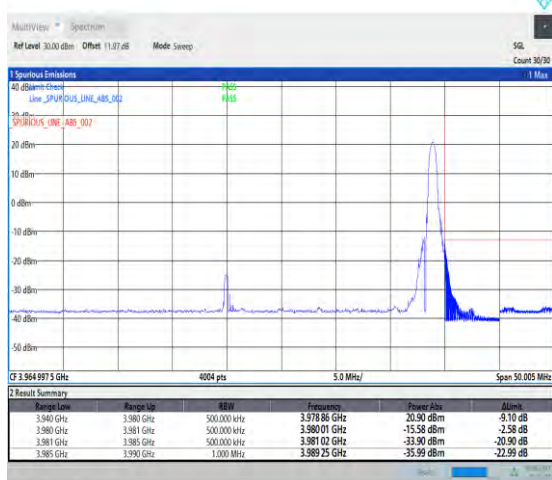
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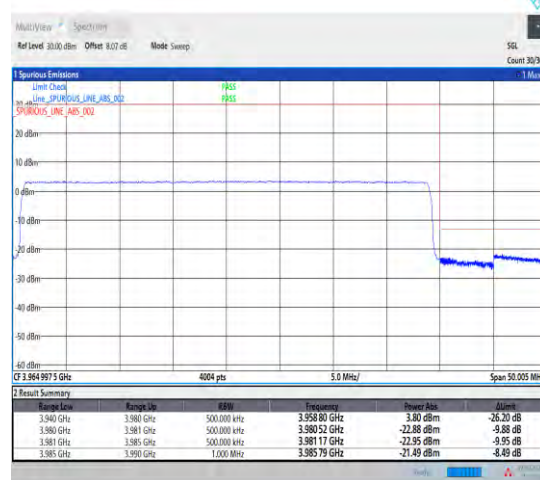
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15:55:28 14.09.2022

1-N77-3700-3980-PC2-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph



14:00:00 12.09.2022

1-N77-3700-3980-PC2-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant1-1--PASS-see graph



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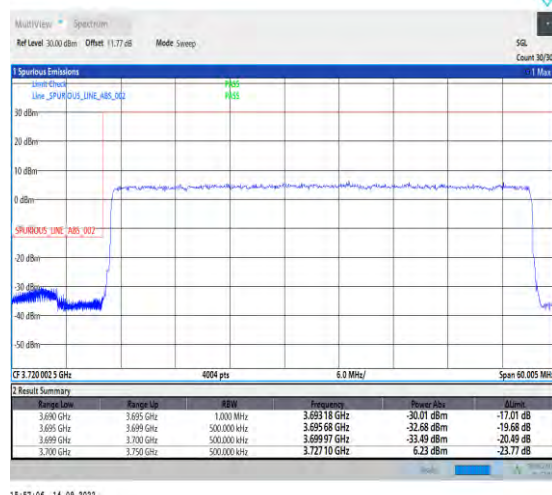
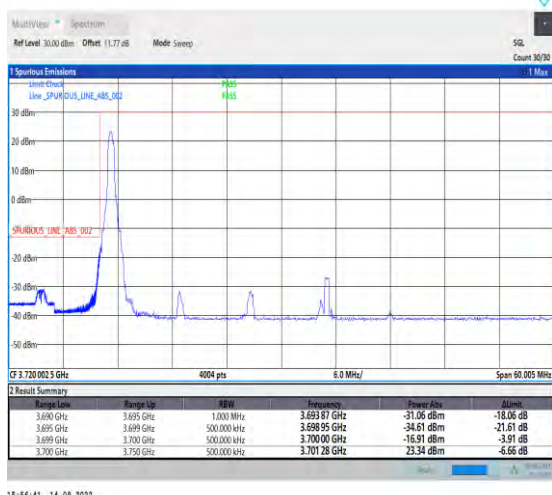
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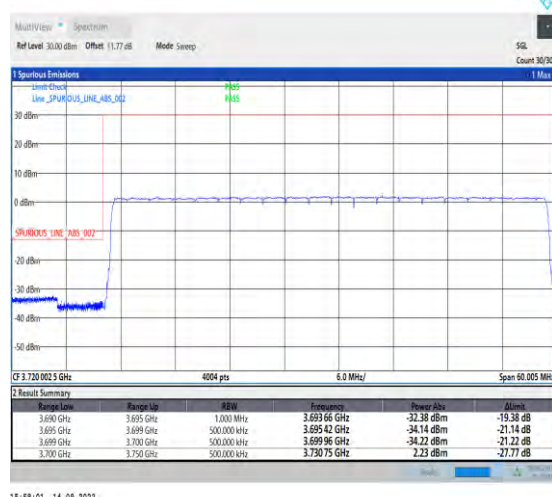
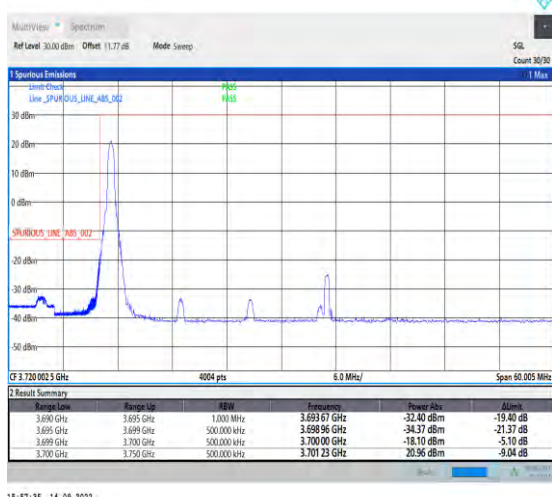
Rev.: 01

Page: 83 of 104



1-N77-3700-3980-PC2-30-50-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-50-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph



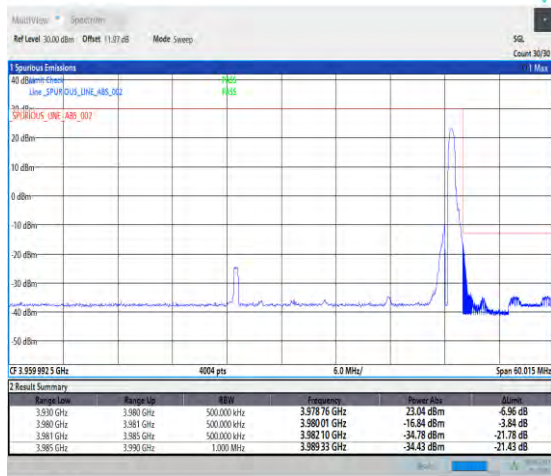
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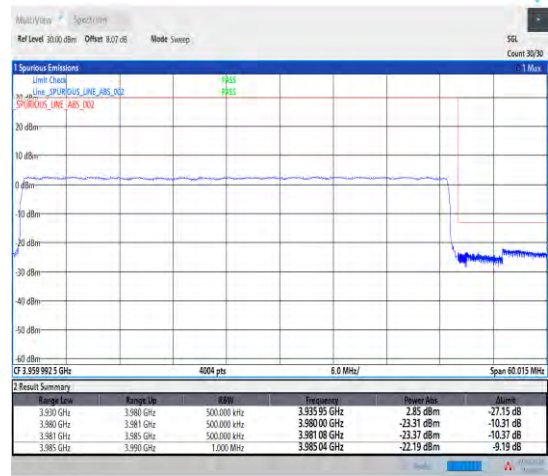
Rev.: 01

Page: 84 of 104



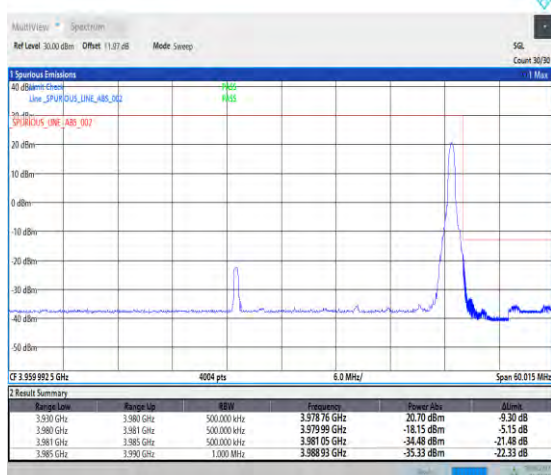
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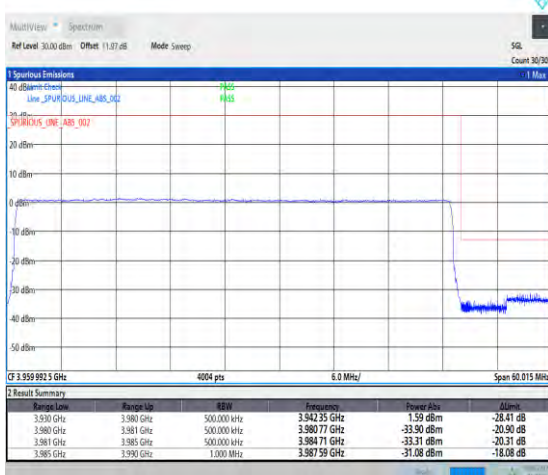
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1-N77-3700-3980-PC2-30-50-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



16:00:31 14.09.2022

1-N77-3700-3980-PC2-30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph



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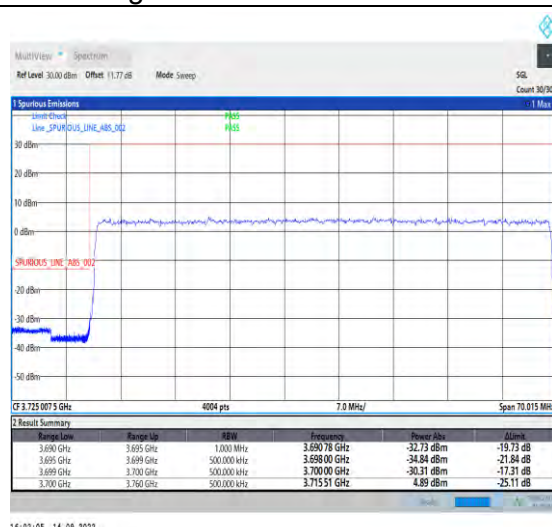
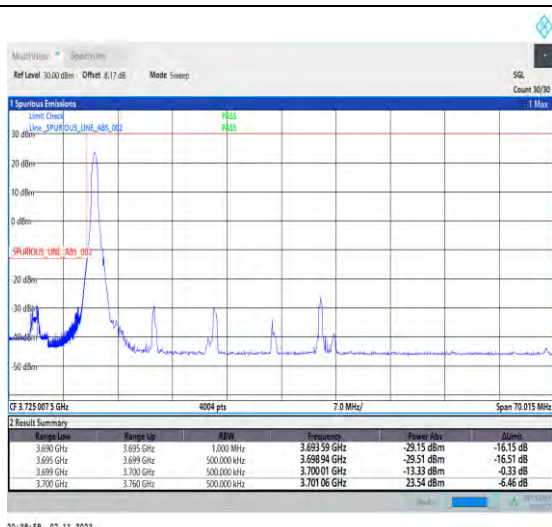
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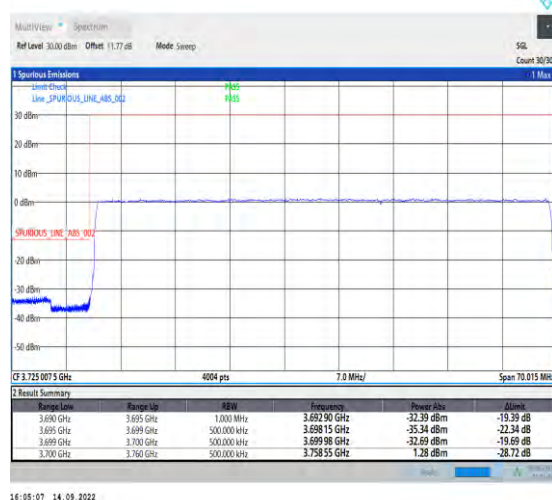
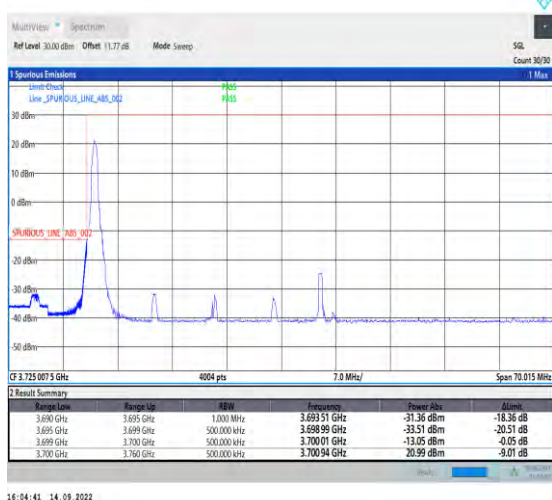
Rev.: 01

Page: 85 of 104



1-N77-3700-3980-PC2-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



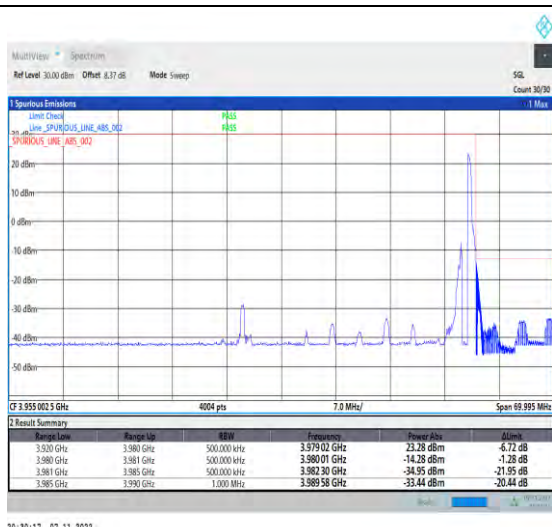
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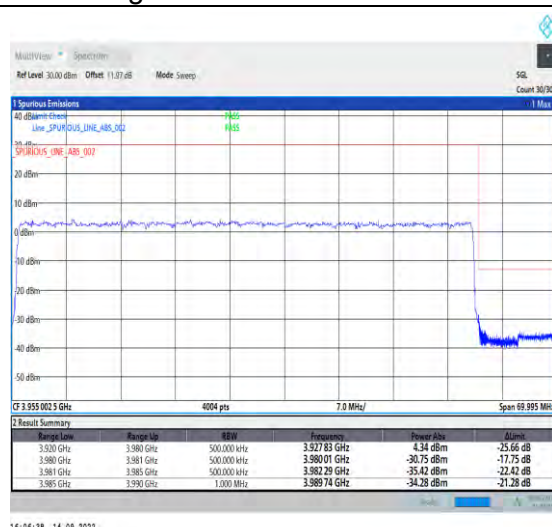
Rev.: 01

Page: 86 of 104



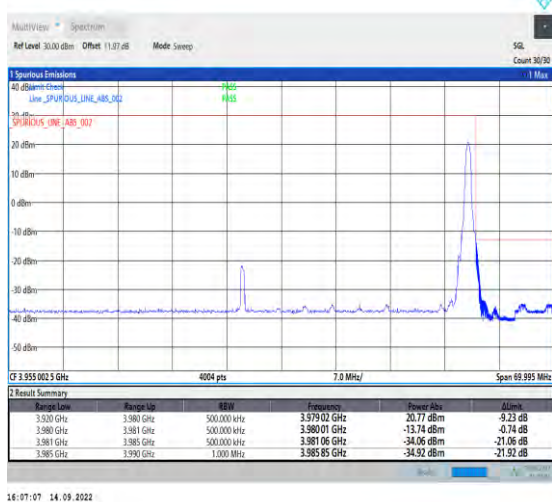
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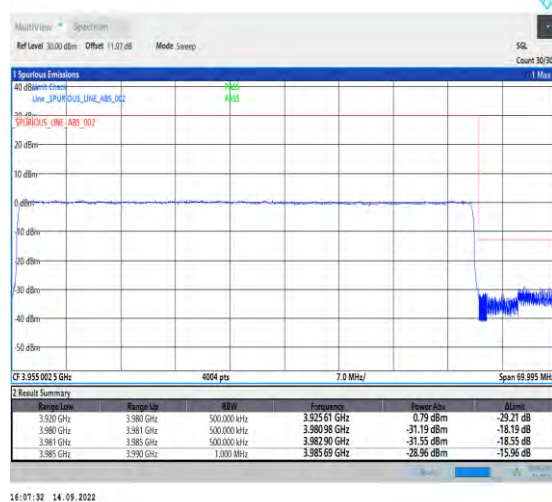
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16:07:07 14.09.2022

1-N77-3700-3980-PC2-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph



16:07:32 14.09.2022

1-N77-3700-3980-PC2-30-60-H-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



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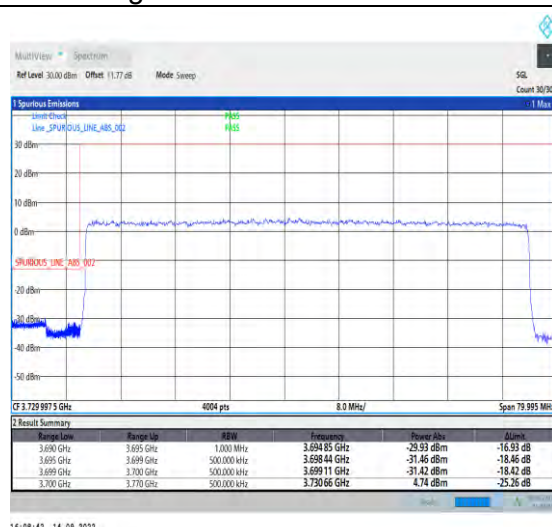
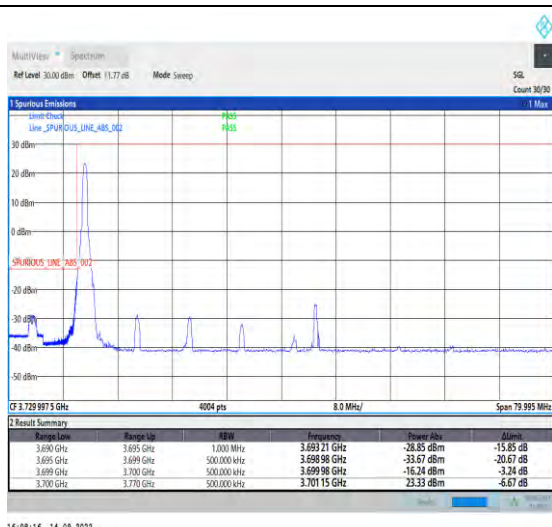
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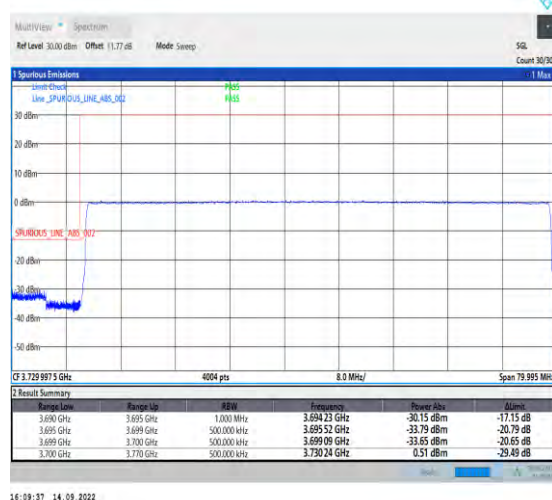
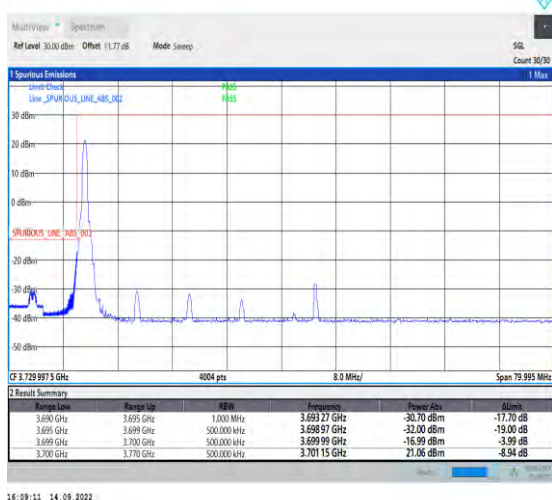
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Page: 87 of 104



1-N77-3700-3980-PC2-30-70-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-70-L-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-70-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant1-1--PASS-see graph



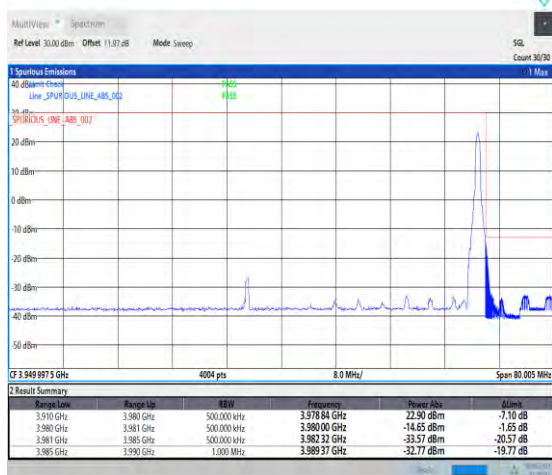
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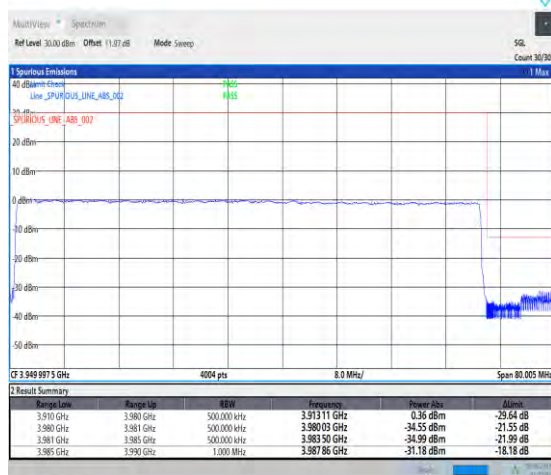
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Page: 88 of 104



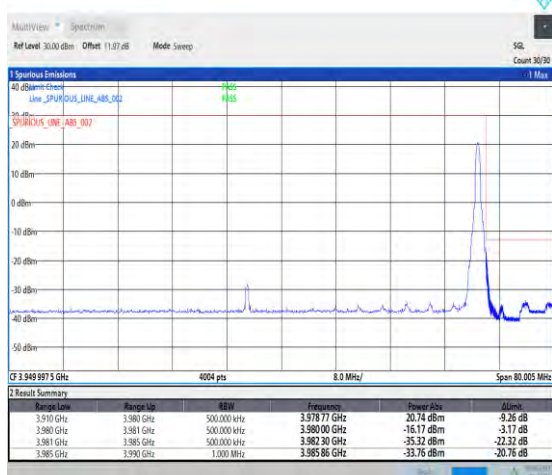
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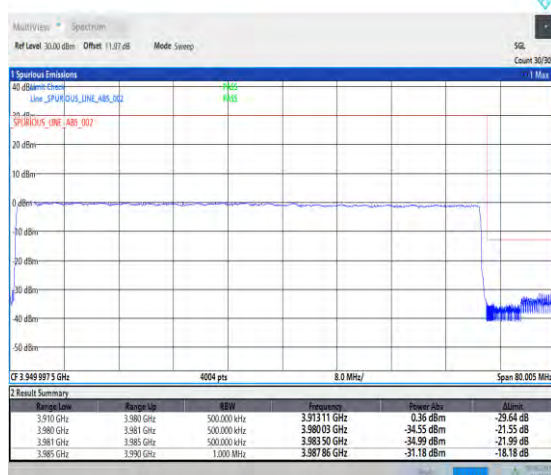
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1-N77-3700-3980-PC2-30-70-H-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-1--PASS-see graph



16:11:16 14. 09. 2022

1-N77-3700-3980-PC2-30-70-H-5-CP-QPSK-Edge_1RB_Right-1@188-Ant1-1--PASS-see graph



16:11:42 14. 09. 2022

1-N77-3700-3980-PC2-30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant1-1--PASS-see graph



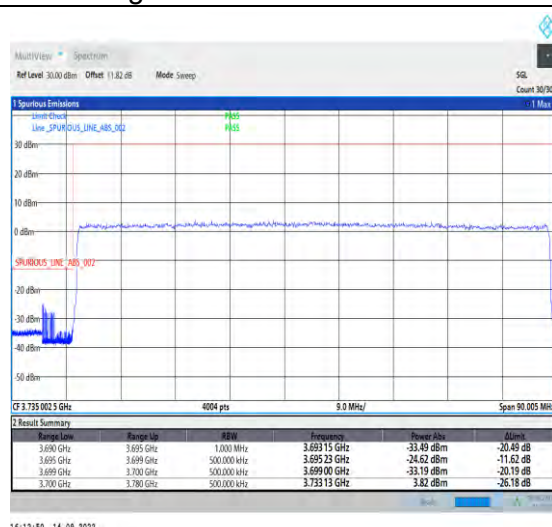
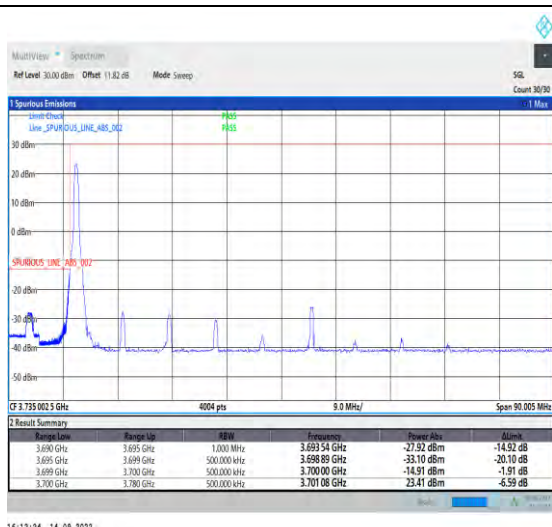
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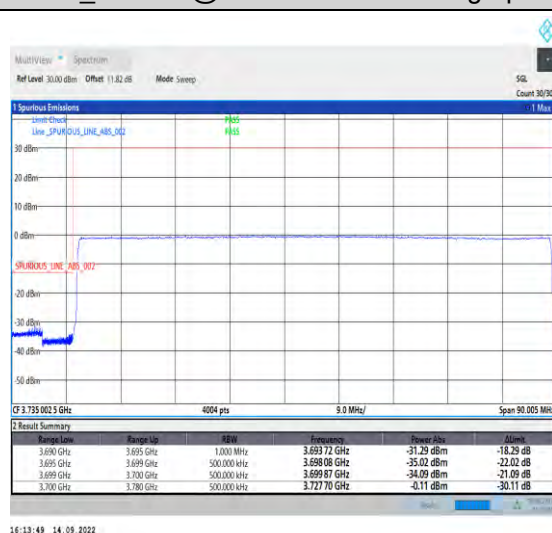
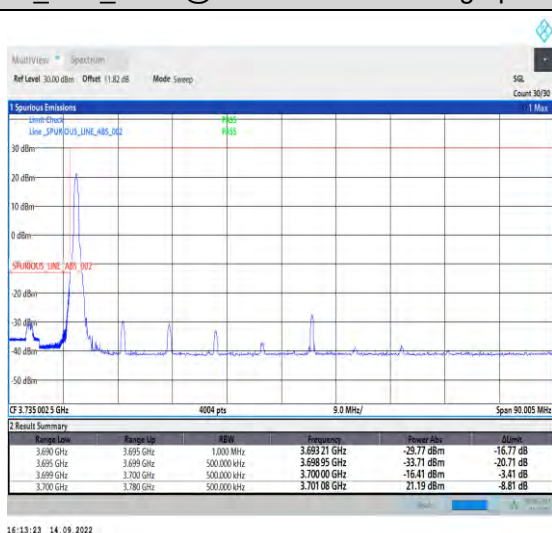
Rev.: 01

Page: 89 of 104



1-N77-3700-3980-PC2-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

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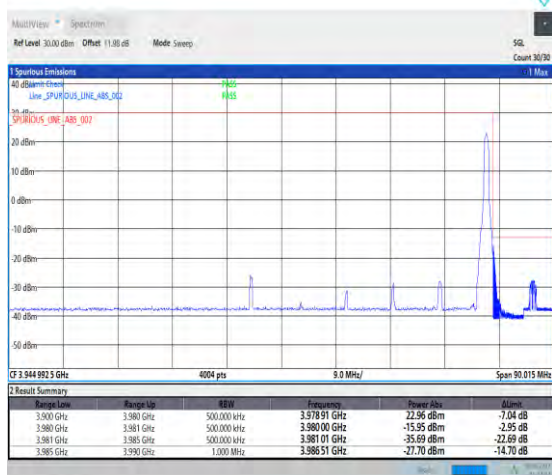
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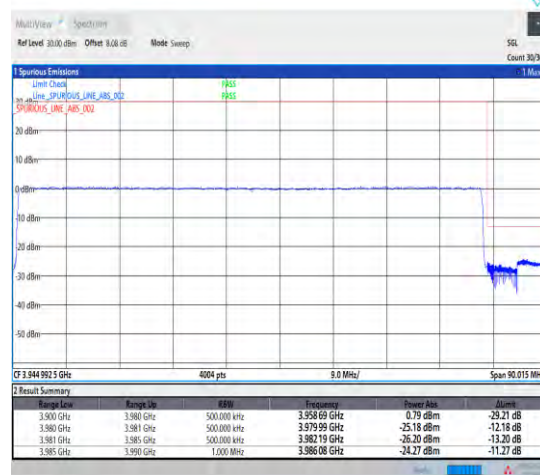
Rev.: 01

Page: 90 of 104



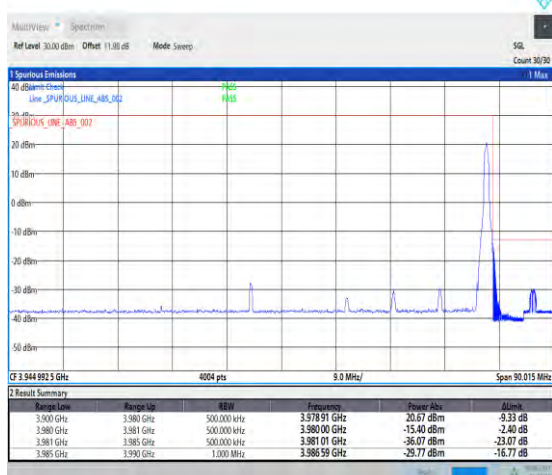
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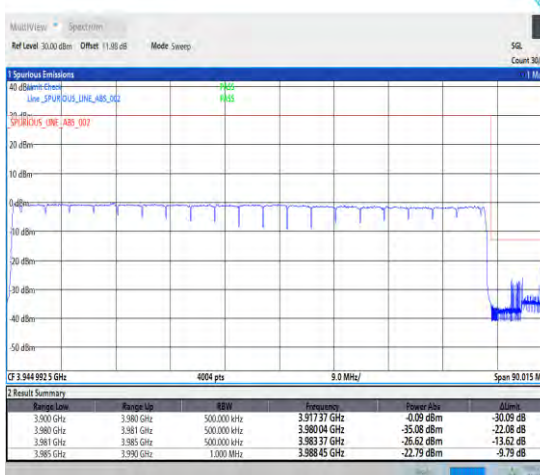
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16:16:39 14.09.2022

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16:17:04 14.09.2022

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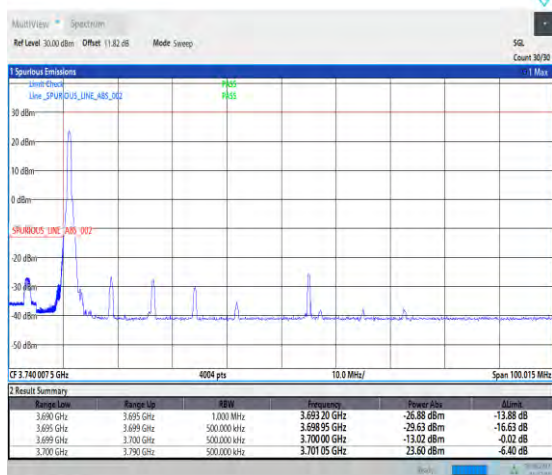
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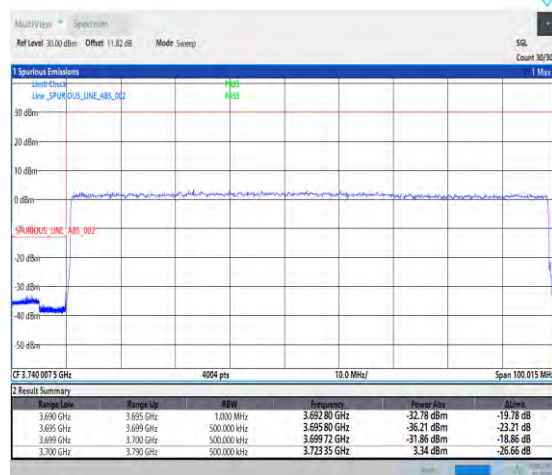
Rev.: 01

Page: 91 of 104



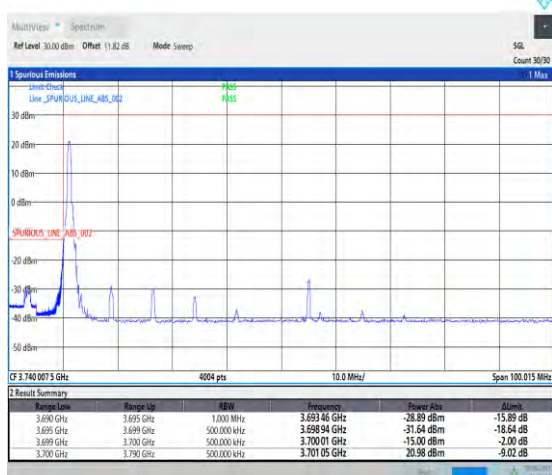
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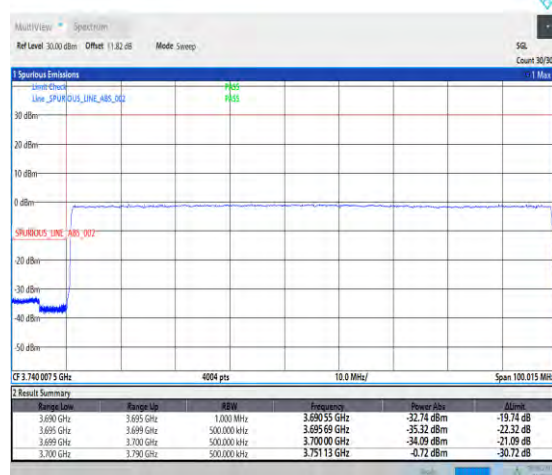
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16:18:34 14.09.2022

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16:19:00 14.09.2022

1-N77-3700-3980-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph



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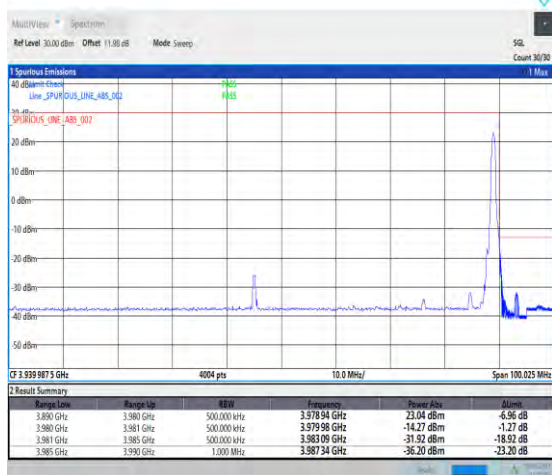
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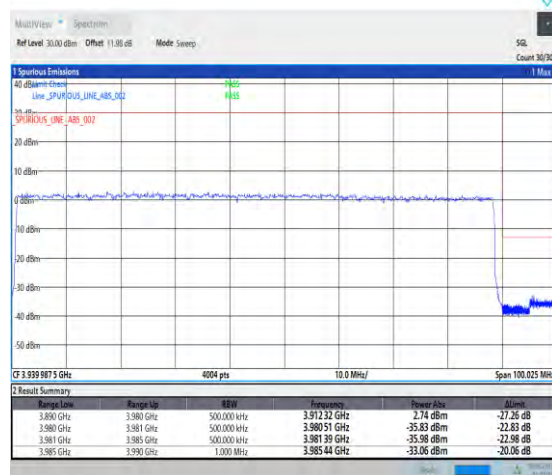
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Page: 92 of 104



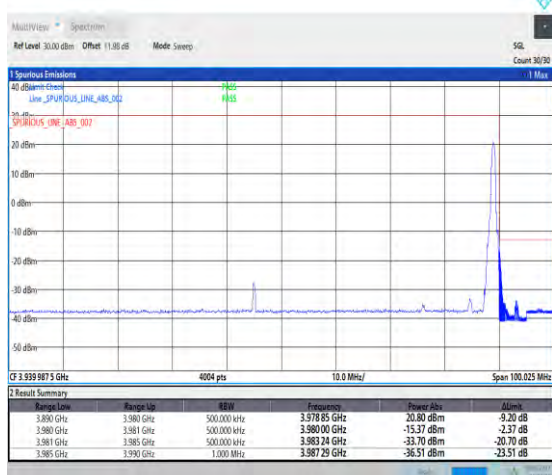
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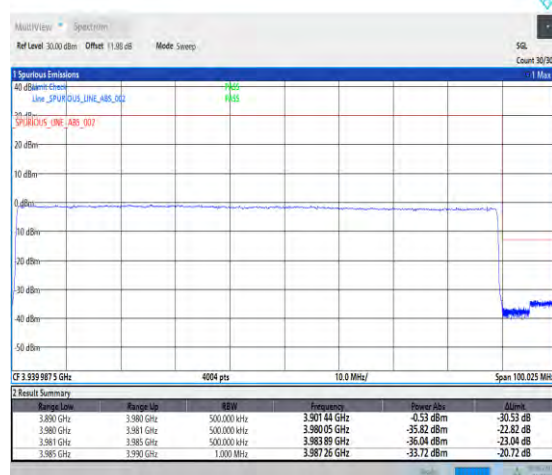
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16:20:31 14.09.2022

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16:20:36 14.09.2022

1-N77-3700-3980-PC2-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph



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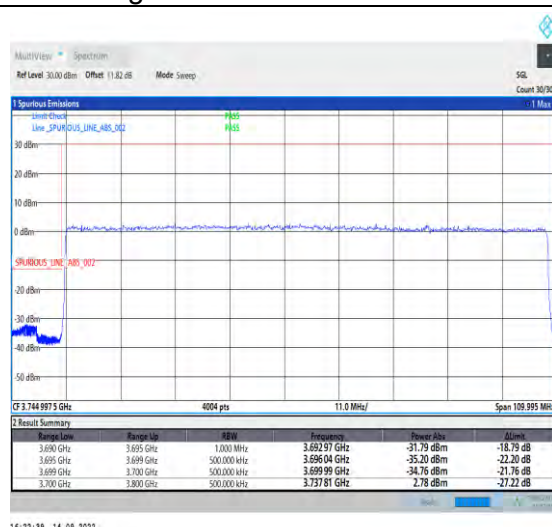
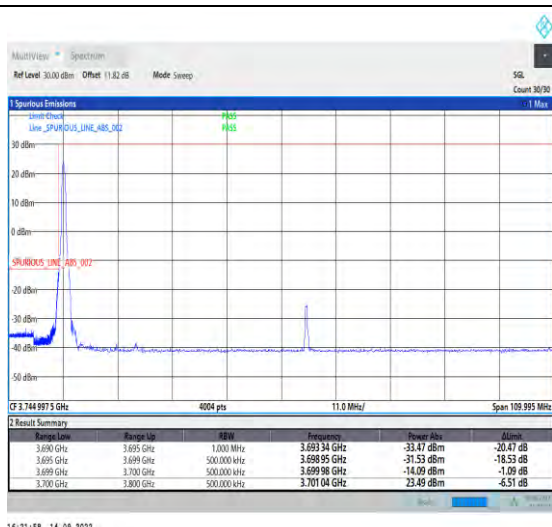
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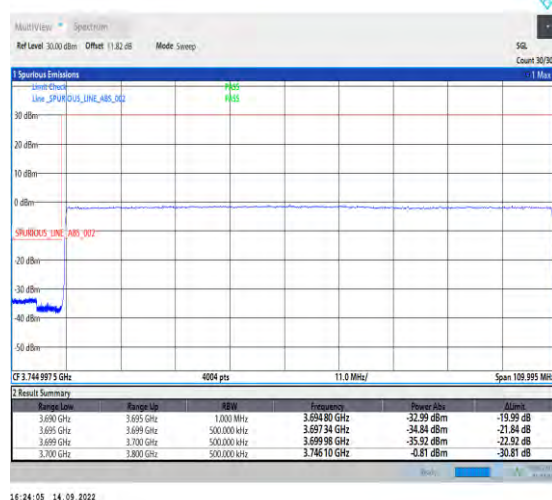
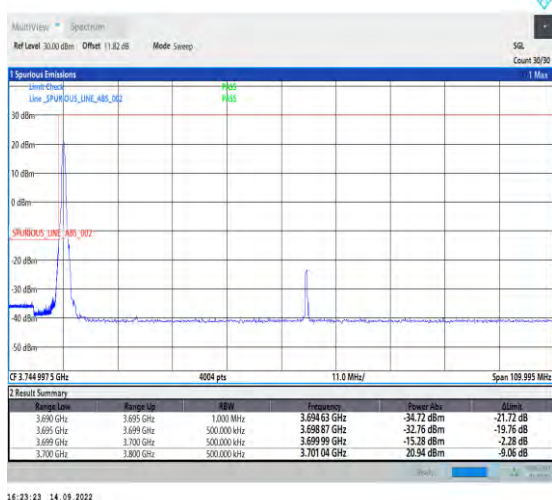
Rev.: 01

Page: 93 of 104



1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



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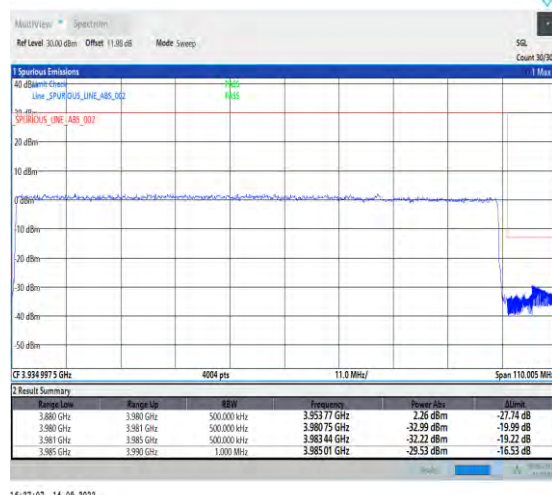
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Page: 94 of 104



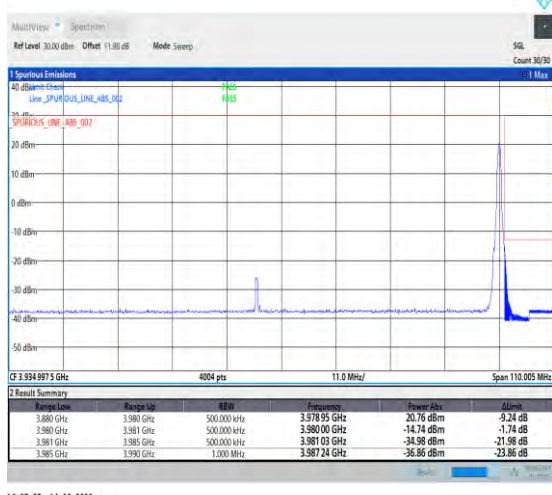
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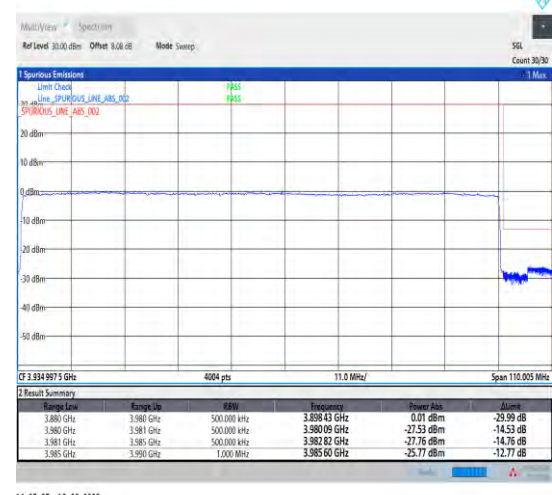
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16:27:37 14.09.2022

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14:25:27 12.09.2022

1-N77-3700-3980-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



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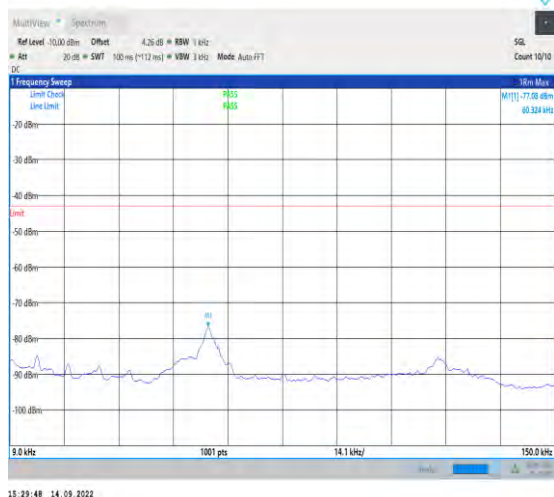
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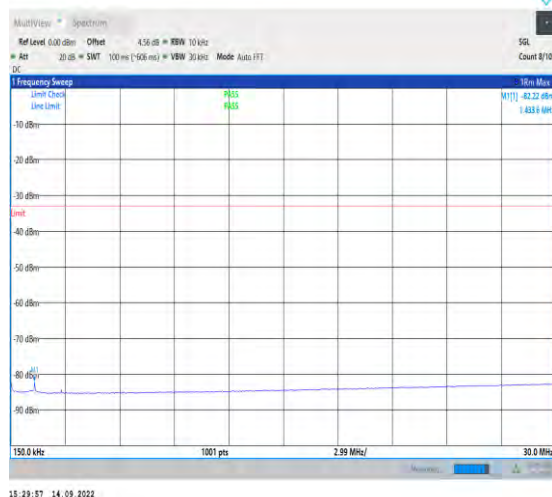
Page: 95 of 104

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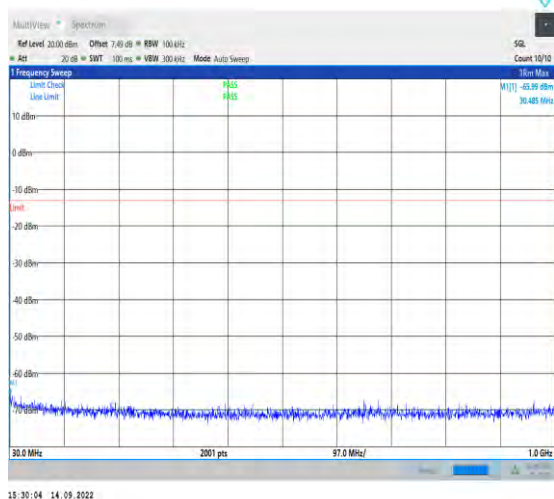
Test Graphs



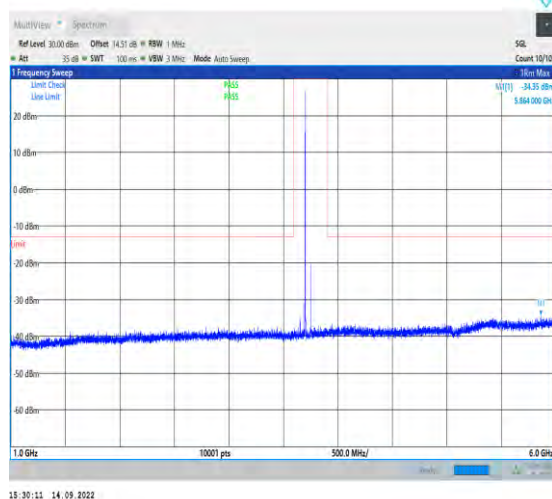
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1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-1.43--82.22--33-PASS



1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-30.49--65.99--13-PASS



1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5864.00--34.35--13-PASS



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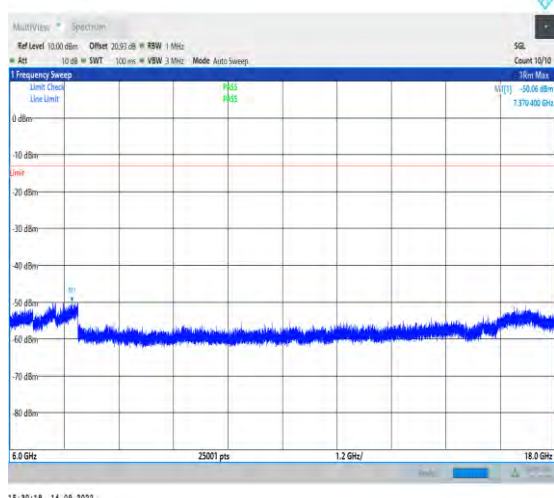
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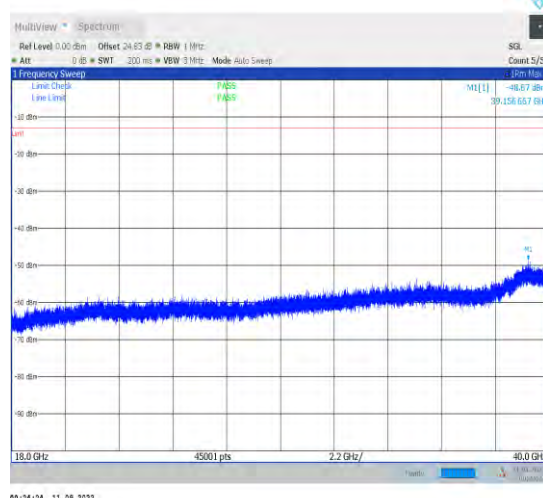
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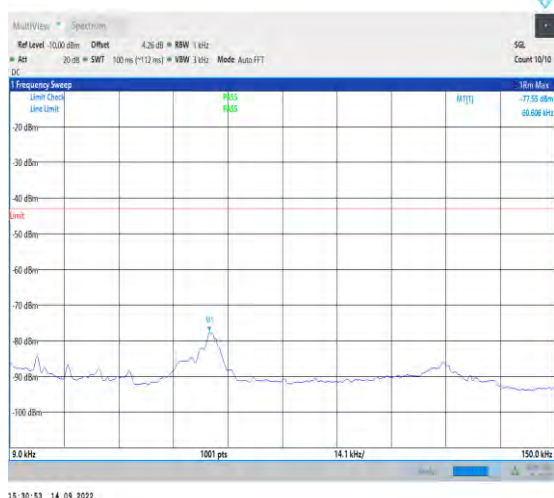
Page: 96 of 104



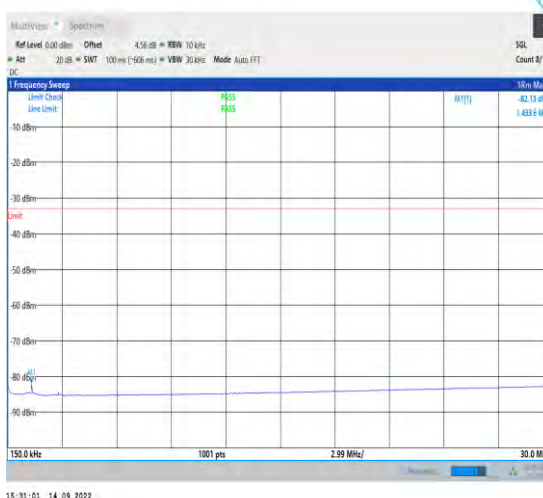
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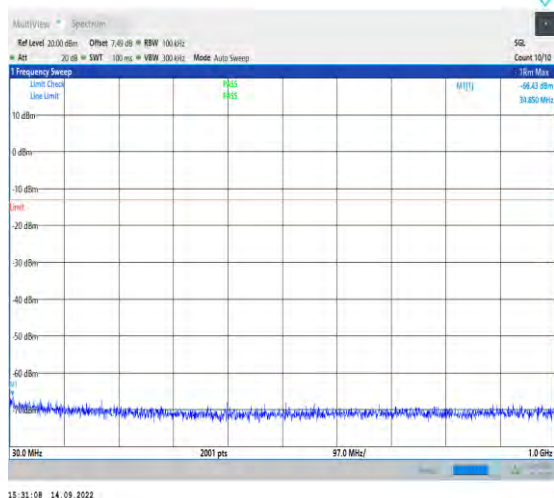
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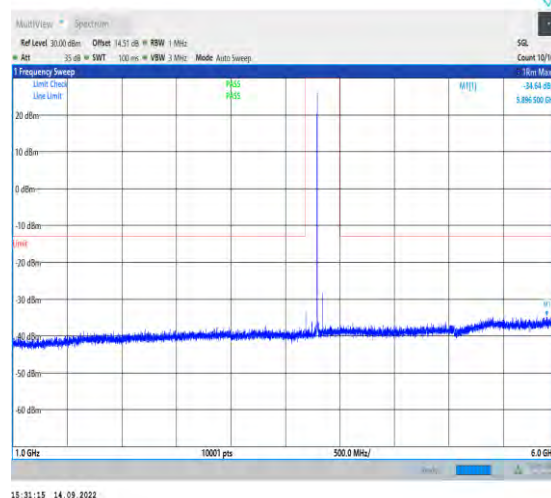
Report No.: SEWA2204000009RG02

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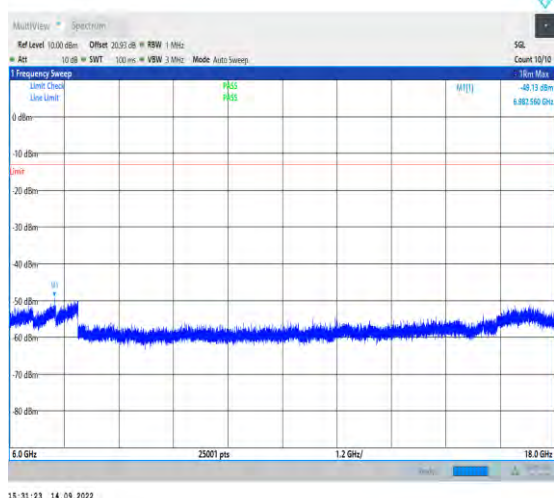
Page: 97 of 104



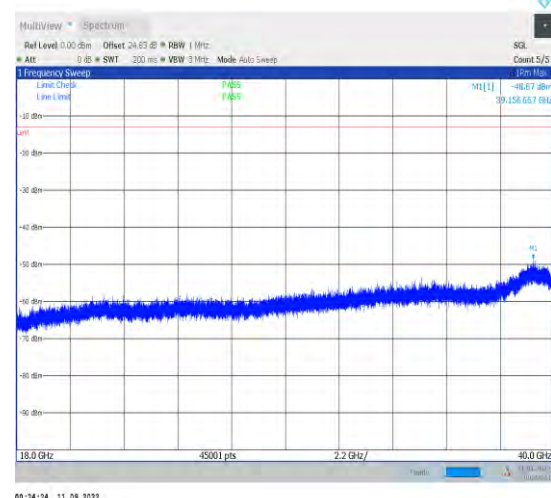
1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-34.85--66.43--1 3-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5896.50--34.64--13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1-6982.56--49.13--13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--52.21--13-PASS



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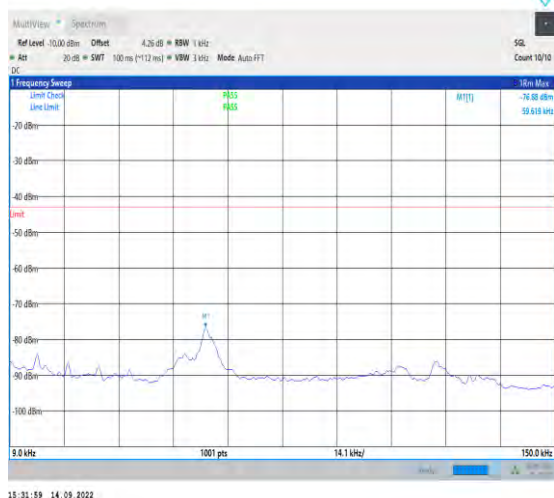
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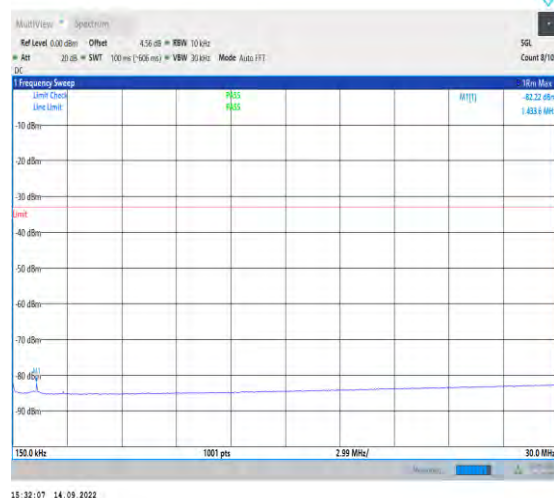
Report No.: SEWA2204000009RG02

Rev.: 01

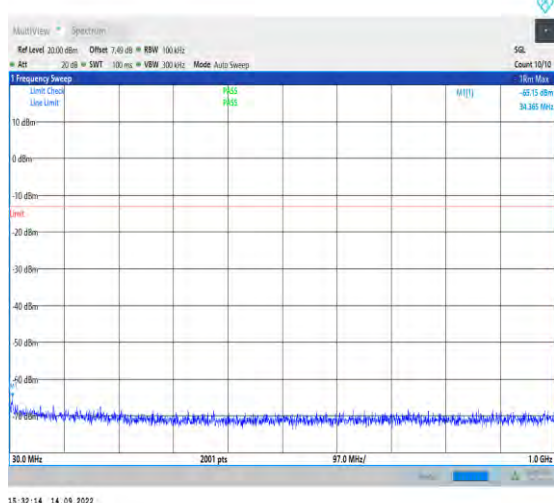
Page: 98 of 104



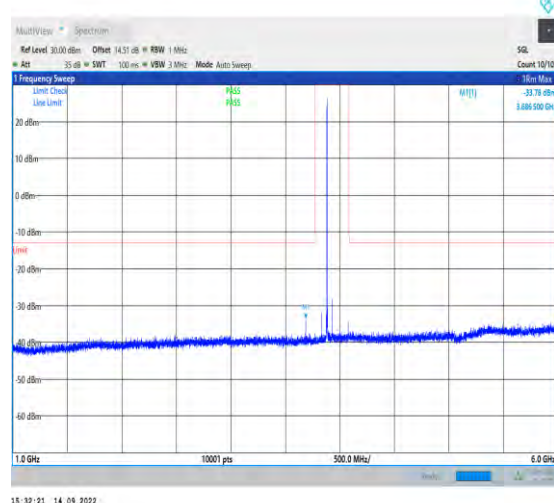
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1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-1.43--82.22--33-PA SS



1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-34.37--65.15--13-PASS



1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-3686.50--33.78--13-PASS



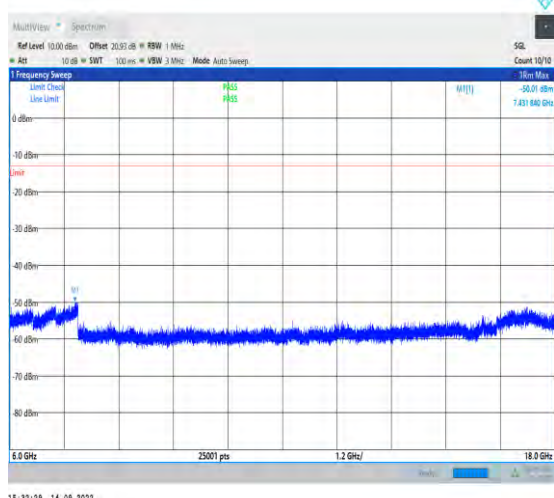
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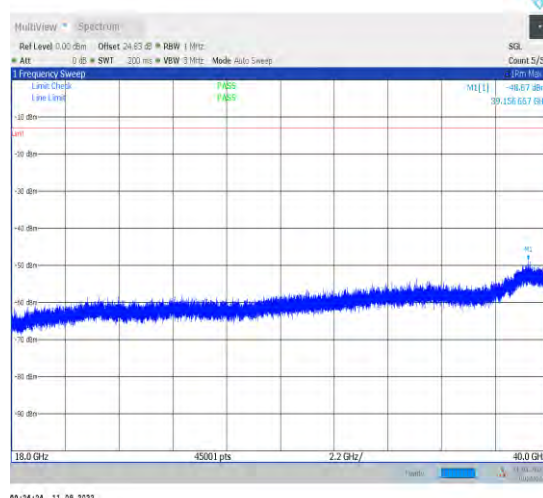
Rev.: 01

Page: 99 of 104



15:32:29 14.09.2022

1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-I
nner_1RB_Left-1@1-6000-18000-Ant1-7431.84--50.
01--13-PASS



00:24:24 11.09.2022

1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-In
ner_1RB_Left-1@1-18000-40000-Ant1-18000.00--52
.80--13-PASS



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 100 of 104

Field Strength of Spurious Radiation

Test Band = NR SA Band n77 3700M-3980M_ TM1
Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	47.53	-41.76	36.39	-53.10	-13.00	40.10	142	357	Horizontal
2	9322.2917	48.35	-38.23	38.57	-46.57	-13.00	33.57	263	288	Horizontal
3	10965.27	41.91	-35.62	39.56	-49.41	-13.00	36.41	295	209	Horizontal
4	13490.0833	45.50	-34.07	39.89	-43.93	-13.00	30.93	241	149	Horizontal
5	14620.36	39.80	-34.12	39.58	-50.01	-13.00	37.01	176	70	Horizontal
6	17868.7083	41.81	-31.09	42.07	-42.46	-13.00	29.46	208	239	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	48.11	-41.76	36.39	-52.52	-13.00	39.52	263	280	Vertical
2	8709.9167	49.33	-39.22	38.28	-46.87	-13.00	33.87	295	0	Vertical
3	10965.27	41.71	-35.62	39.56	-49.61	-13.00	36.61	241	2	Vertical
4	13253.375	45.15	-34.93	39.75	-45.29	-13.00	32.29	178	299	Vertical
5	14620.36	40.71	-34.12	39.58	-49.10	-13.00	36.10	263	260	Vertical
6	17863.9167	41.94	-31.07	42.06	-42.34	-13.00	29.34	241	260	Vertical



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 101 of 104

Test Band = NR SA Band n77 3700M-3980M_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.18	48.55	-41.27	36.68	-51.30	-13.00	38.30	263	160	Horizontal
2	9325.1667	48.62	-38.20	38.57	-46.28	-13.00	33.28	254	328	Horizontal
3	11835.27	43.41	-35.25	38.76	-48.33	-13.00	35.33	174	68	Horizontal
4	13670.25	45.33	-34.75	40.00	-44.68	-13.00	31.68	186	239	Horizontal
5	15180.36	40.57	-33.62	38.97	-49.34	-13.00	36.34	263	259	Horizontal
6	17941.5417	41.53	-31.23	42.37	-42.60	-13.00	29.60	214	270	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	7590.18	47.99	-41.27	36.68	-51.86	-13.00	38.86	241	219	Vertical
2	9329	48.28	-38.18	38.57	-46.59	-13.00	33.59	174	199	Vertical
3	11835.27	42.12	-35.25	38.76	-49.62	-13.00	36.62	163	178	Vertical
4	13675.0417	46.26	-34.77	40.01	-43.77	-13.00	30.77	265	328	Vertical
5	15180.36	42.02	-33.62	38.97	-47.89	-13.00	34.89	241	170	Vertical
6	17847.625	41.74	-31.02	41.99	-42.55	-13.00	29.55	188	0	Vertical



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 102 of 104

Test Band = NR SA Band n77 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.18	46.97	-40.75	37.24	-51.80	-13.00	38.80	263	109	Horizontal
2	9336.6667	48.98	-38.12	38.57	-45.83	-13.00	32.83	254	150	Horizontal
3	11805.27	42.24	-35.40	38.79	-49.63	-13.00	36.63	174	100	Horizontal
4	13653	45.13	-34.66	39.99	-44.80	-13.00	31.80	146	150	Horizontal
5	15740.36	41.59	-33.70	38.24	-49.14	-13.00	36.14	268	59	Horizontal
6	17748.9167	42.34	-30.97	41.60	-42.29	-13.00	29.29	204	12	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.18	45.76	-40.75	37.24	-53.01	-13.00	40.01	269	72	Vertical
2	9327.0833	48.92	-38.19	38.57	-45.96	-13.00	32.96	265	15	Vertical
3	11805.27	42.35	-35.40	38.79	-49.52	-13.00	36.52	284	309	Vertical
4	13467.0833	44.47	-34.30	39.88	-45.21	-13.00	32.21	123	131	Vertical
5	15740.36	40.94	-33.70	38.24	-49.79	-13.00	36.79	265	211	Vertical
6	17853.375	41.86	-31.04	42.01	-42.43	-13.00	29.43	204	42	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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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 103 of 104

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	9.100000	0.002370	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	25.200000	0.006563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	12.900000	0.003359	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	8.900000	0.002318	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	14.600000	0.003802	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	13.900000	0.003620	PASS



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 104 of 104

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.200000	0.002396	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	13.300000	0.003464	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	15.200000	0.003958	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.500000	0.001953	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	11.700000	0.003047	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	16.000000	0.004167	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	12.800000	0.003333	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	13.900000	0.003620	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.800000	0.001771	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	9.200000	0.002396	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	5.300000	0.001380	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	3.500000	0.000911	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	15.800000	0.004115	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	12.200000	0.003177	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	6.200000	0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	13.700000	0.003568	PASS

---End of Attachment---



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