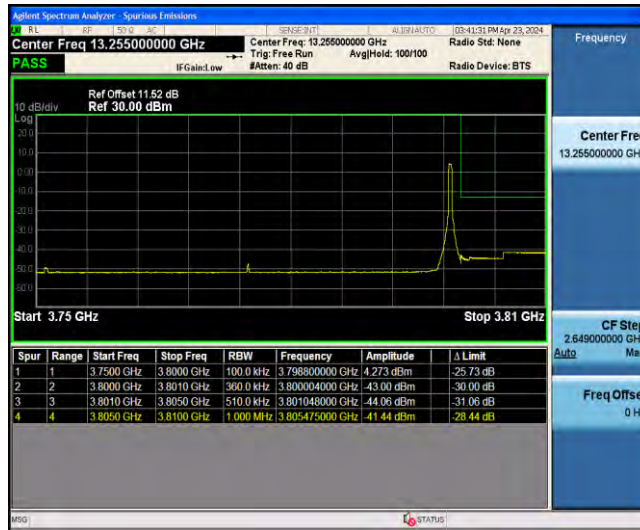


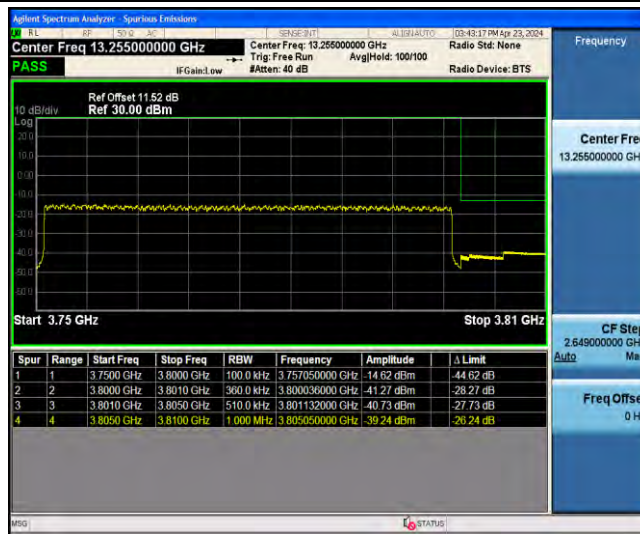


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1-N78-3700-3800-PC2-30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-ANT101-3805.48-28.44--41.44-PAS
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1-N78-3700-3800-PC2-30-50-H-6-CP-QPSK-Outer_Full-133@0-ANT101-3805.05-26.24--39.24-PASS



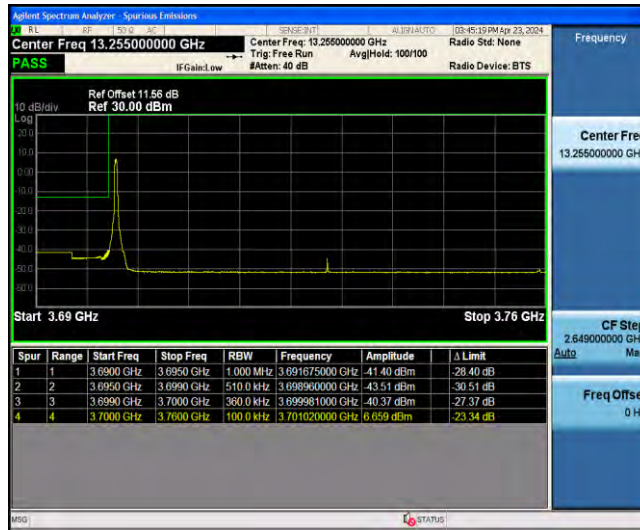
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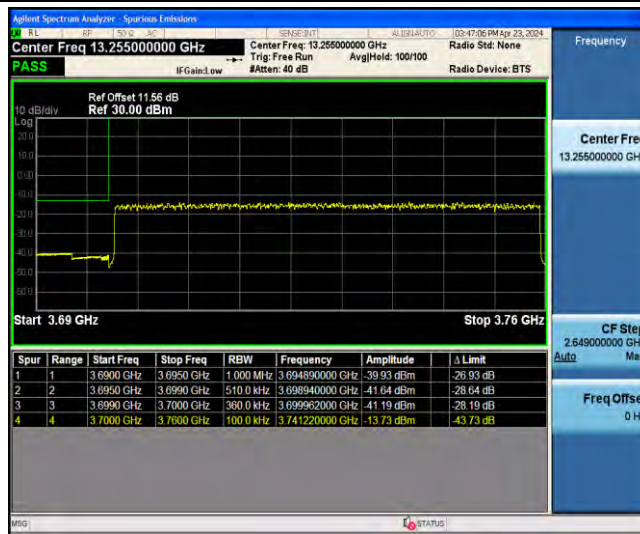


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1-N78-3700-3800-PC2-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-ANT101-3699.98-27.37--40.37-PASS
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1-N78-3700-3800-PC2-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-ANT101-3694.89-26.93--39.93-PASS



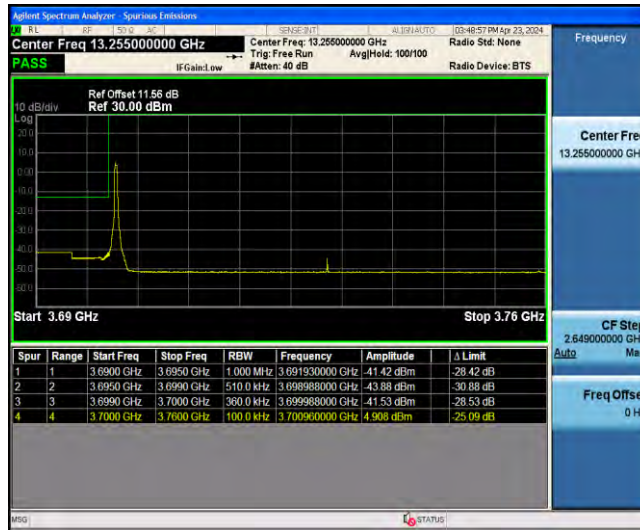
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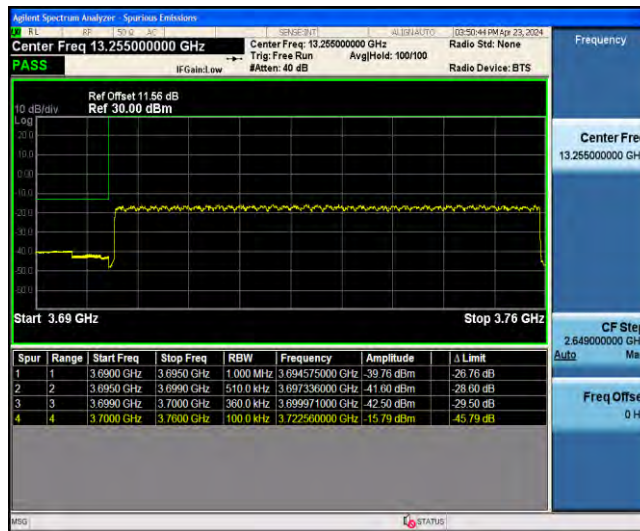


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1-N78-3700-3800-PC2-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-ANT101-3691.93-28.42--41.42-PASS



1-N78-3700-3800-PC2-30-60-L-6-CP-QPSK-Outer_Full-162@0-ANT101-3694.58-26.76--39.76-PASS



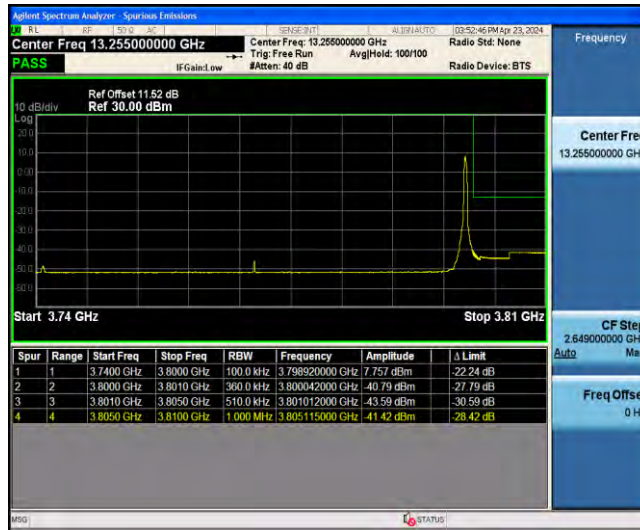
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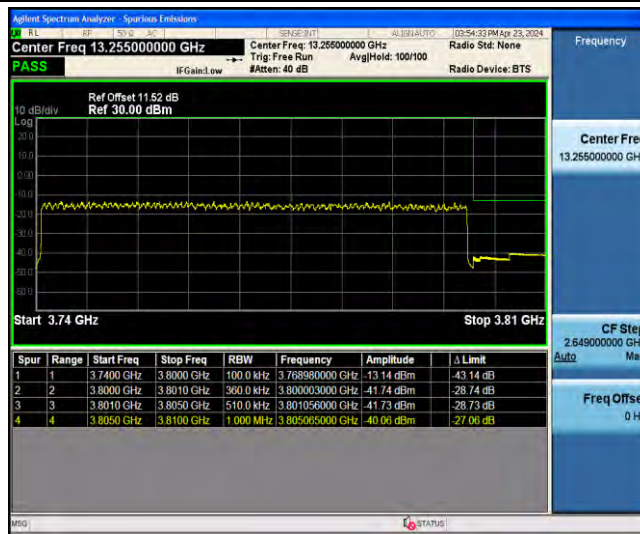


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1-N78-3700-3800-PC2-30-60-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@161-ANT101-3800.04-27.79--40.79-P
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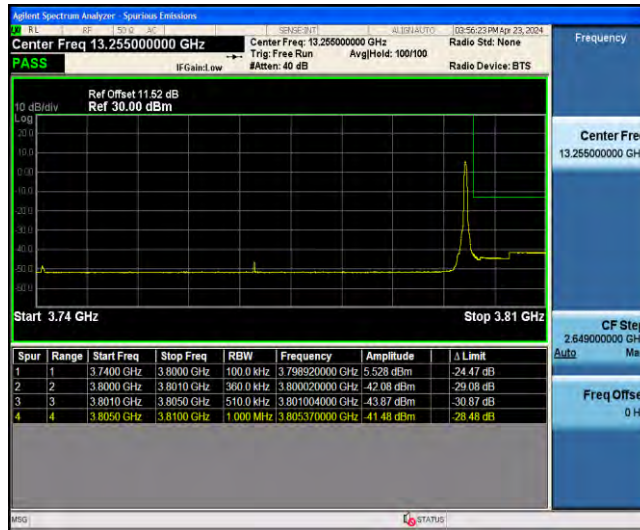
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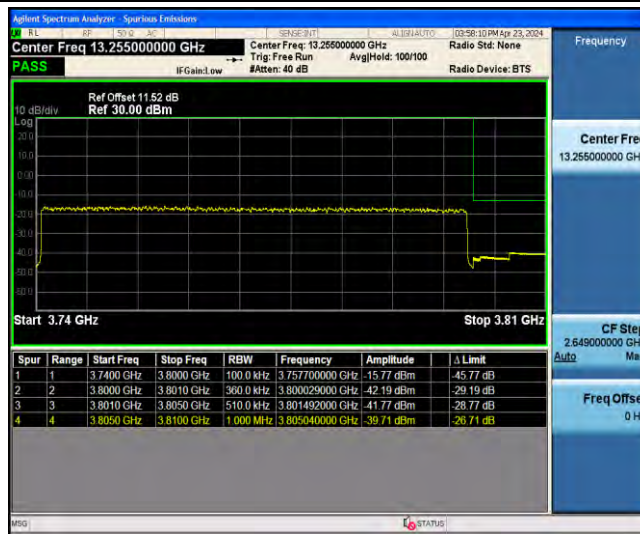


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1-N78-3700-3800-PC2-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-ANT101-3805.37-28.48--41.48-PAS
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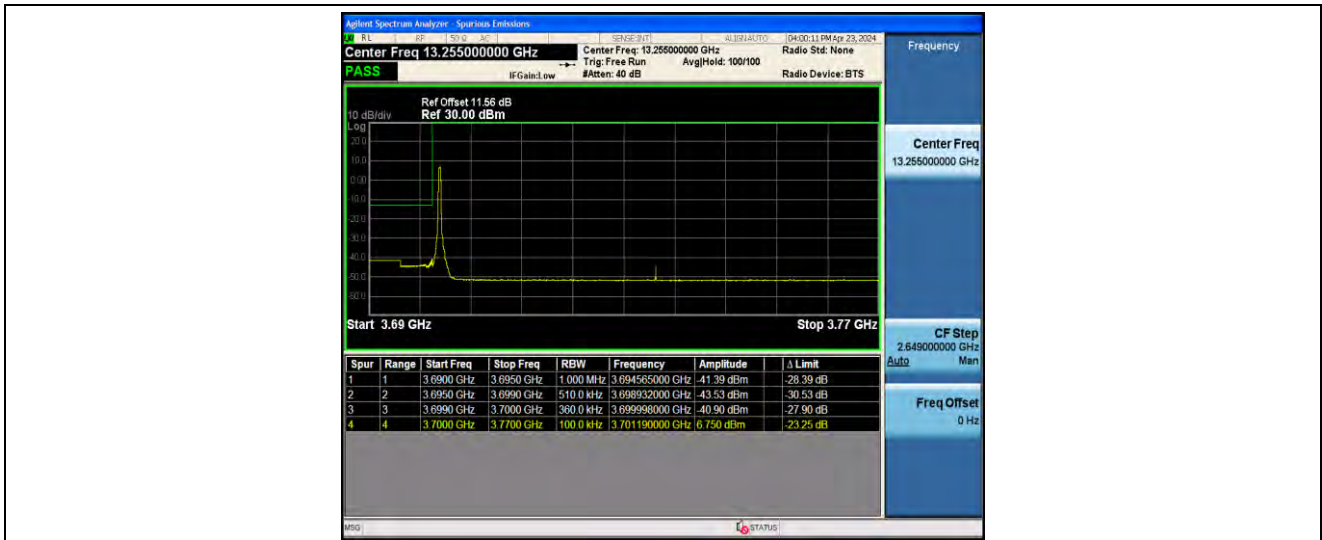
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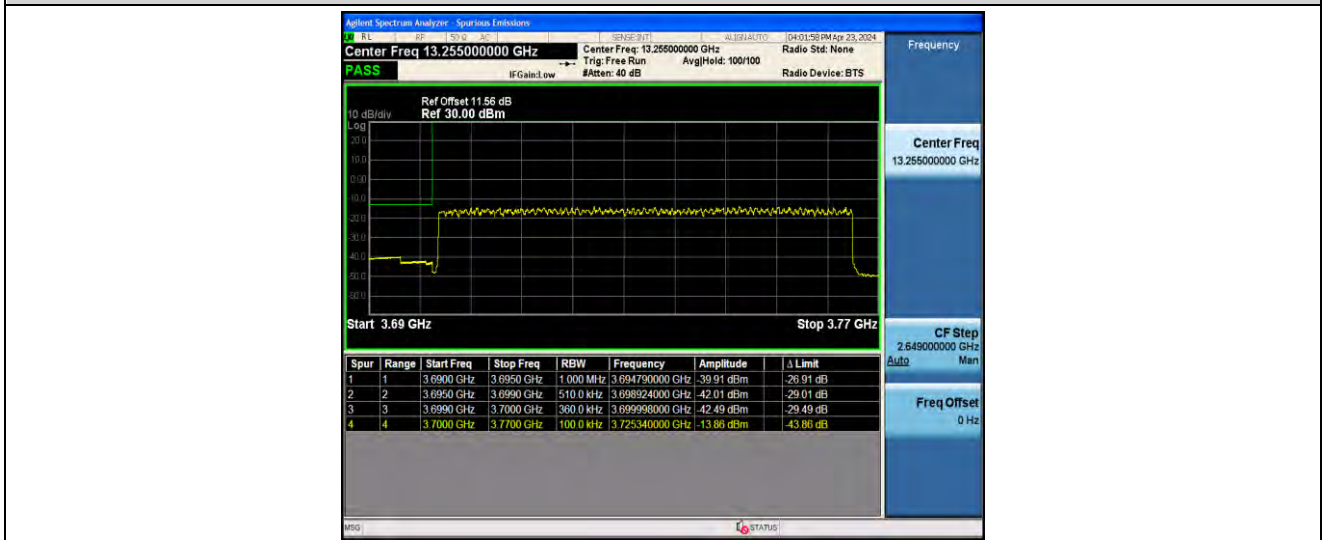


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1-N78-3700-3800-PC2-30-70-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-ANT101-3700.00-27.90--40.90-PASS
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1-N78-3700-3800-PC2-30-70-L-3-DFT-PI2BPSK-Outer_Full-180@0-ANT101-3694.79-26.91--39.91-PASS



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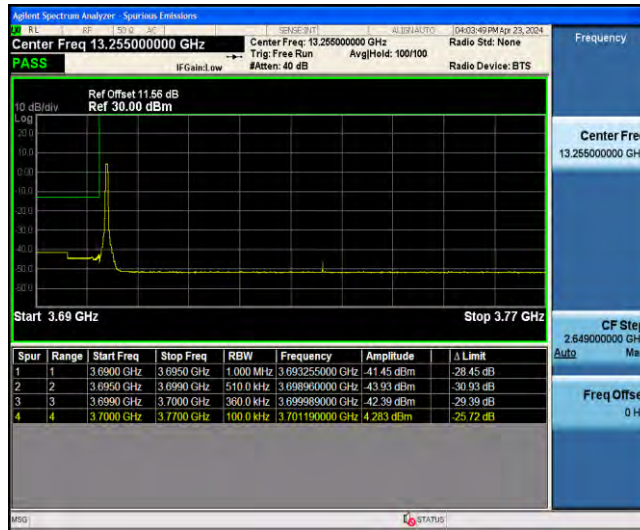
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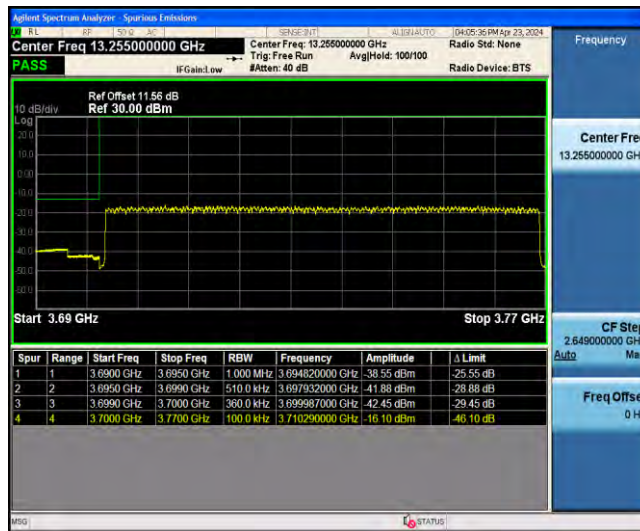


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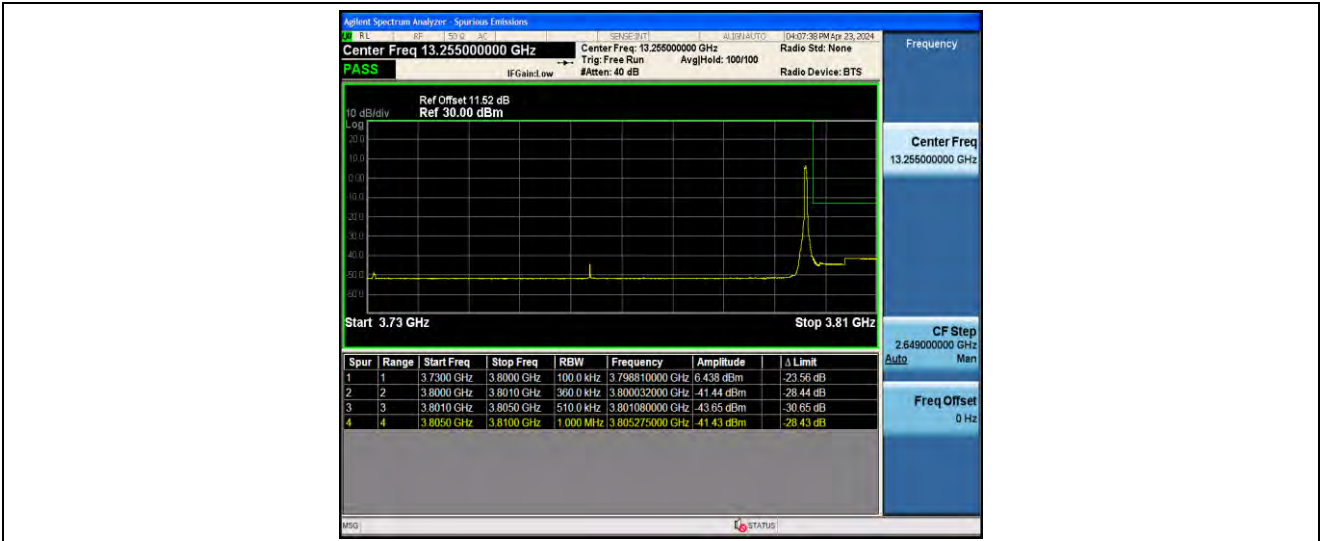


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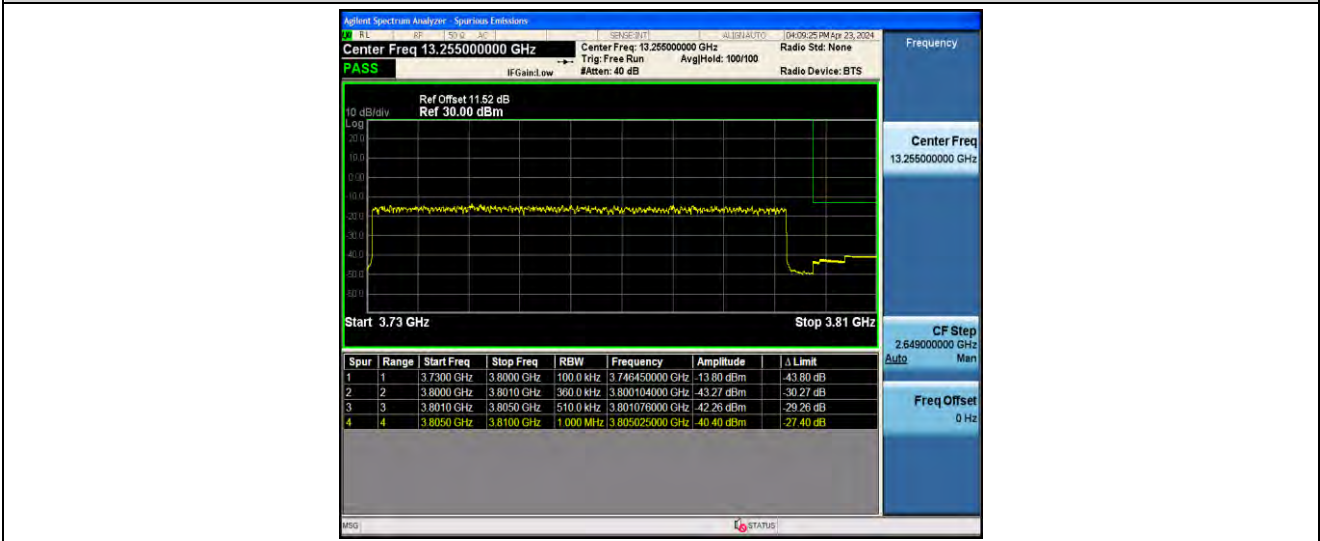
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1-N78-3700-3800-PC2-30-70-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@188-ANT101-3805.28-28.43--41.43-P ASS



1-N78-3700-3800-PC2-30-70-H-3-DFT-PI2BPSK-Outer_Full-180@0-ANT101-3805.03-27.40--40.40-PASS



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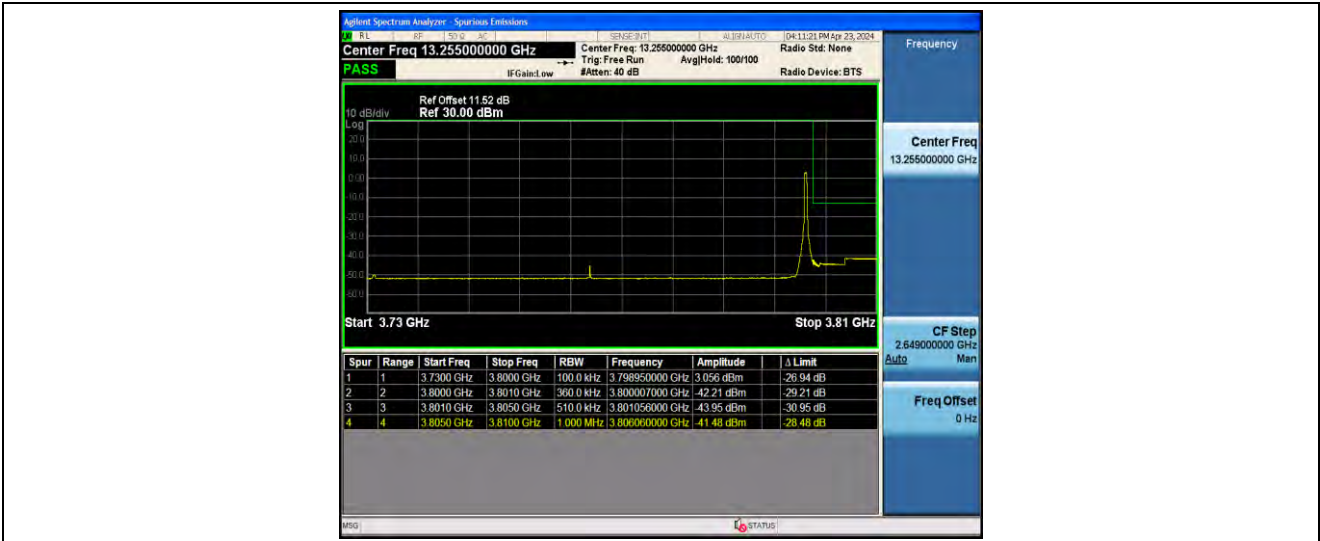
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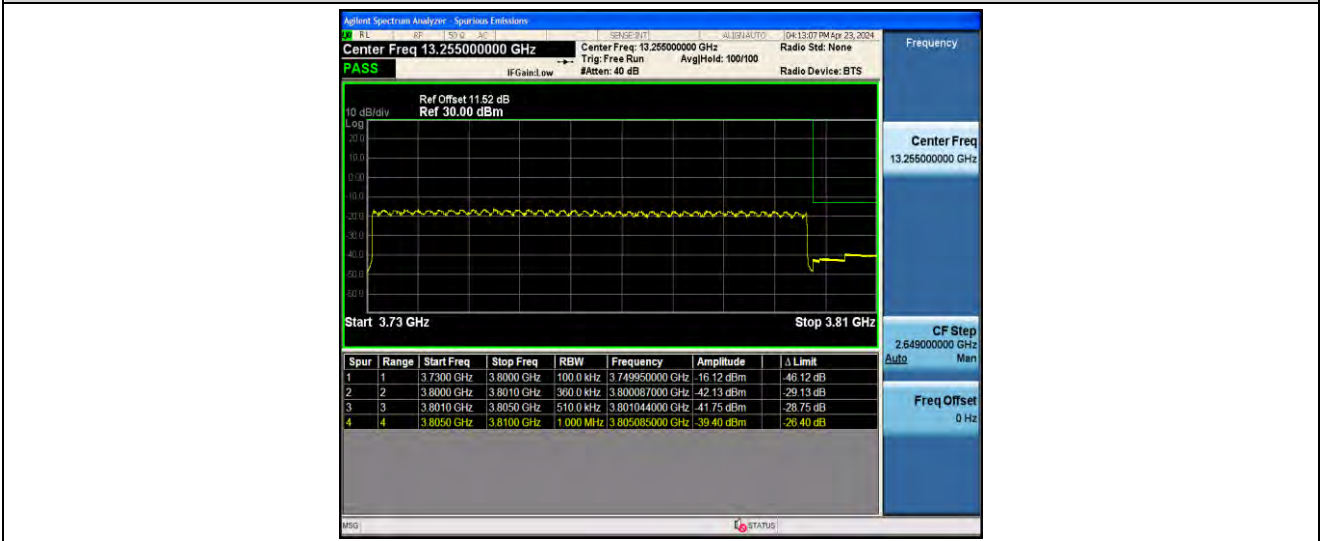


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1-N78-3700-3800-PC2-30-70-H-6-CP-QPSK-Outer_Full-189@0-ANT101-3805.09-26.40--39.40-PASS



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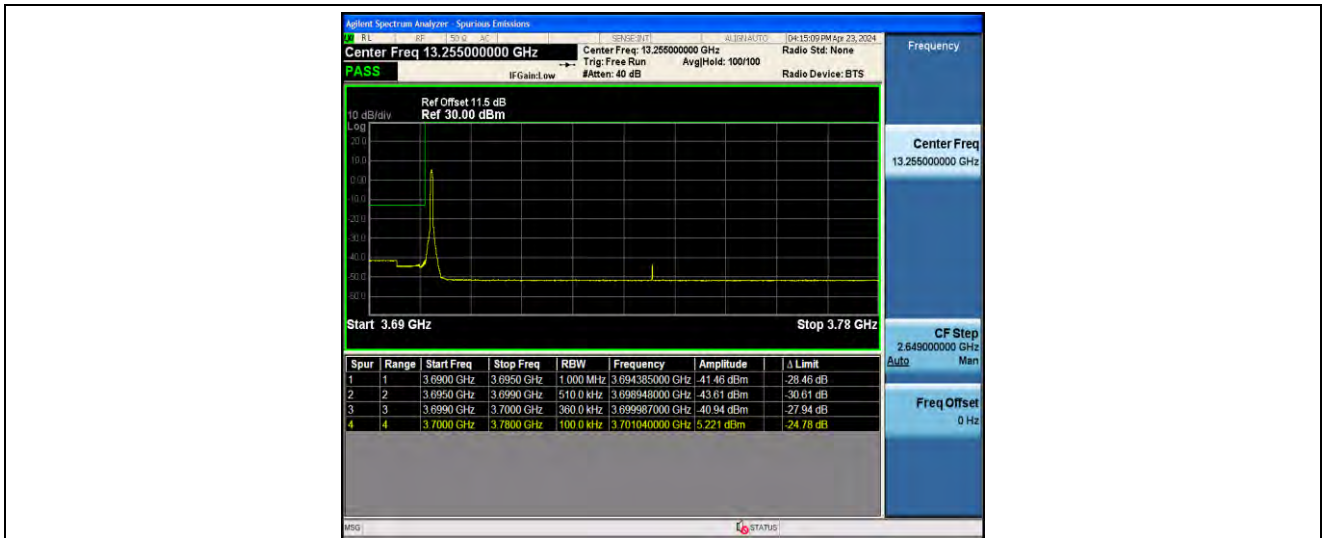
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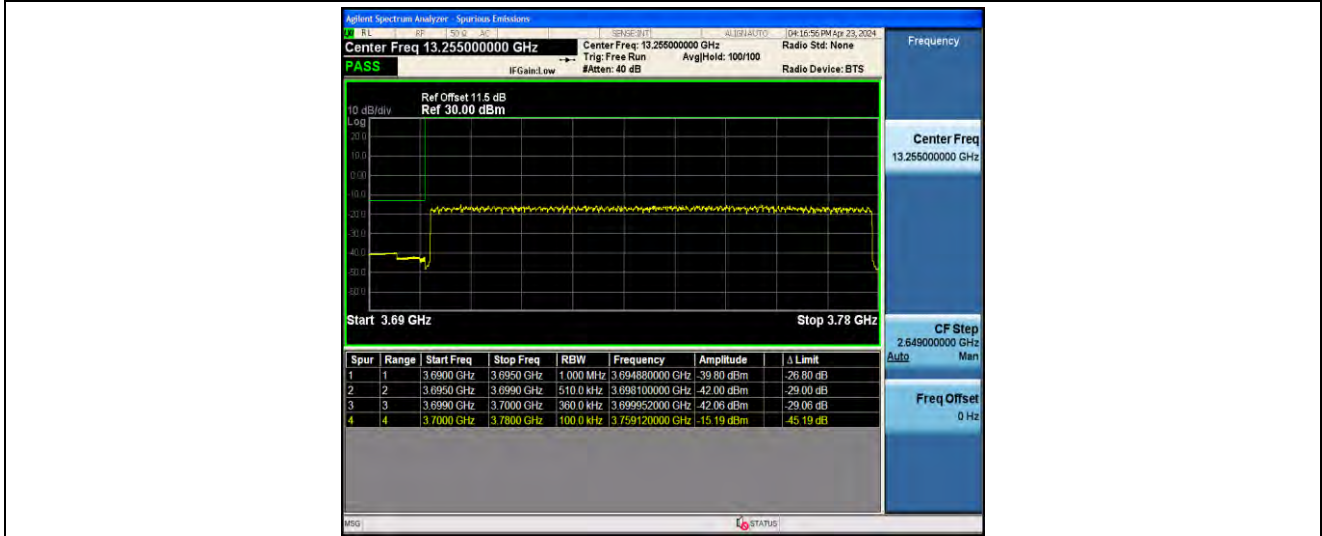


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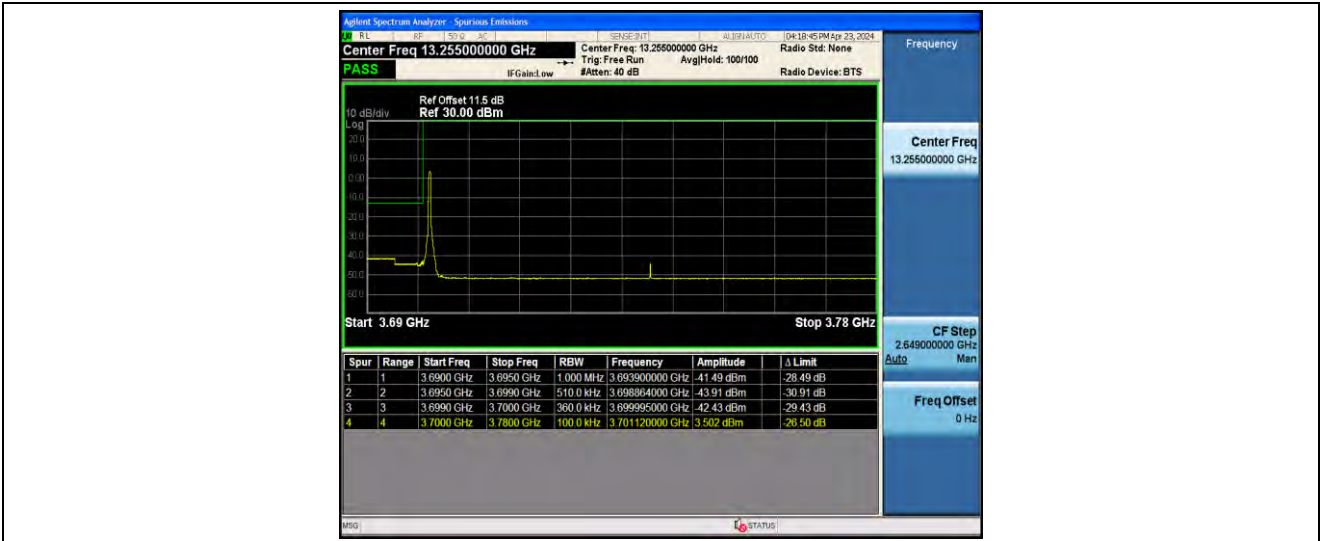


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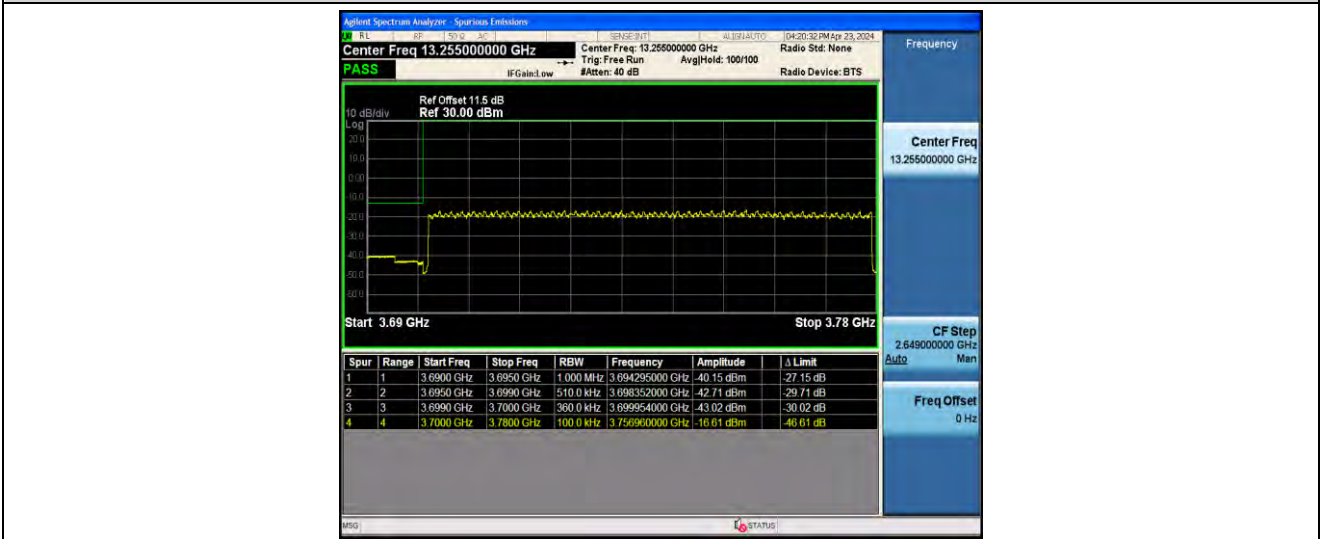


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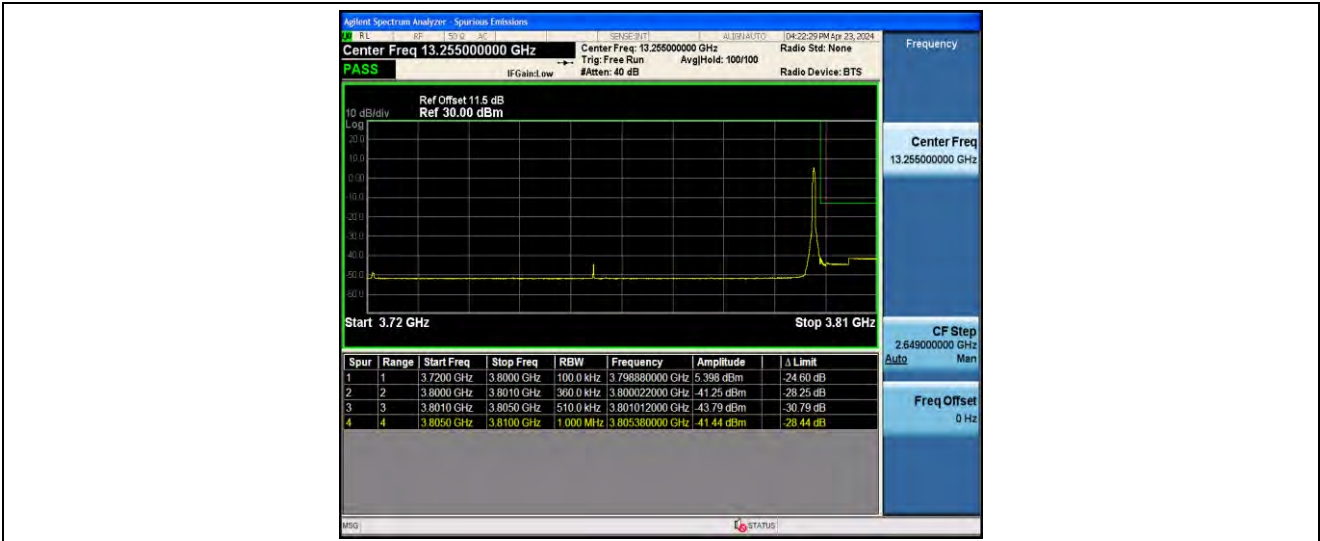


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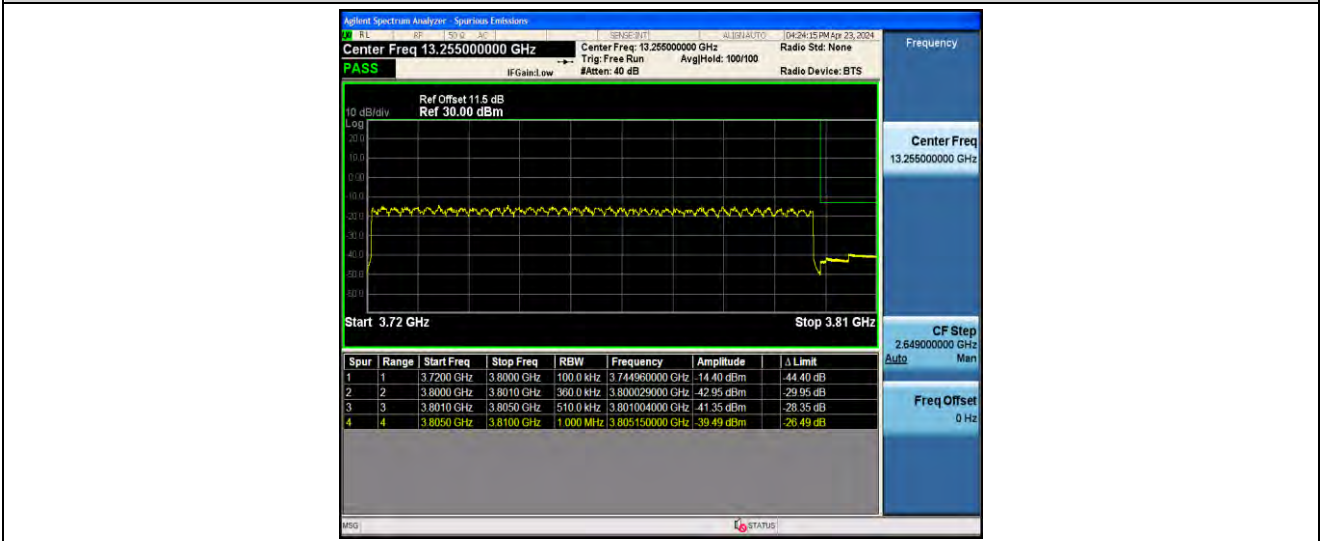
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1-N78-3700-3800-PC2-30-80-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@216-ANT101-3800.02-28.25--41.25-P ASS



1-N78-3700-3800-PC2-30-80-H-3-DFT-PI2BPSK-Outer_Full-216@0-ANT101-3805.15-26.49--39.49-PASS



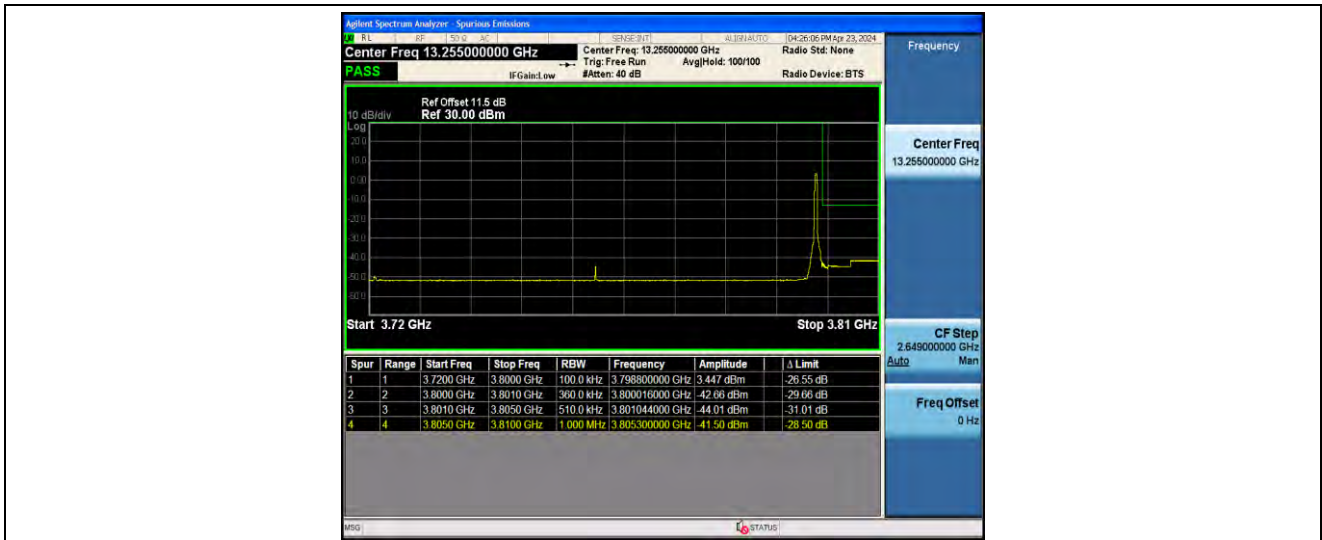
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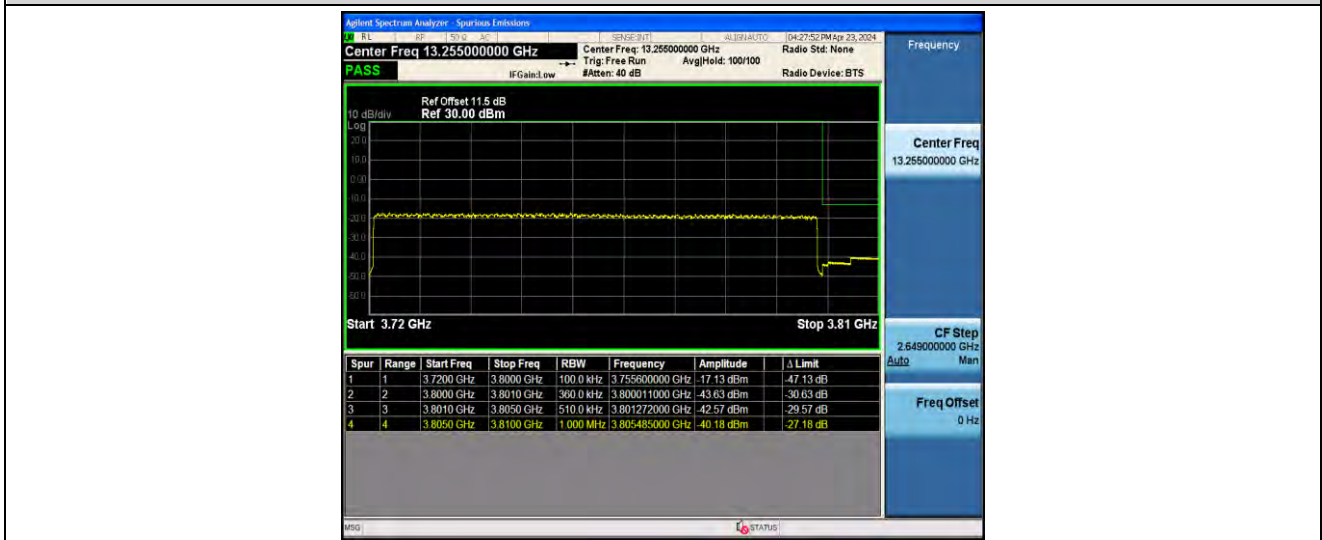


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1-N78-3700-3800-PC2-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-ANT101-3805.30-28.50--41.50-PAS
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1-N78-3700-3800-PC2-30-80-H-6-CP-QPSK-Outer_Full-217@0-ANT101-3805.49-27.18--40.18-PASS



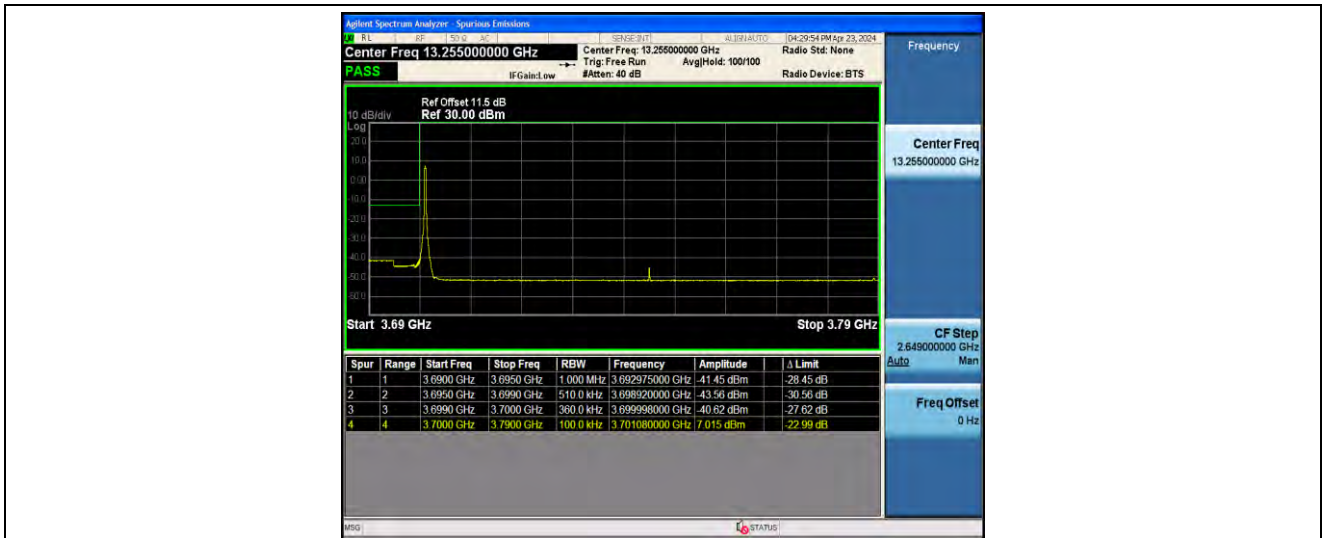
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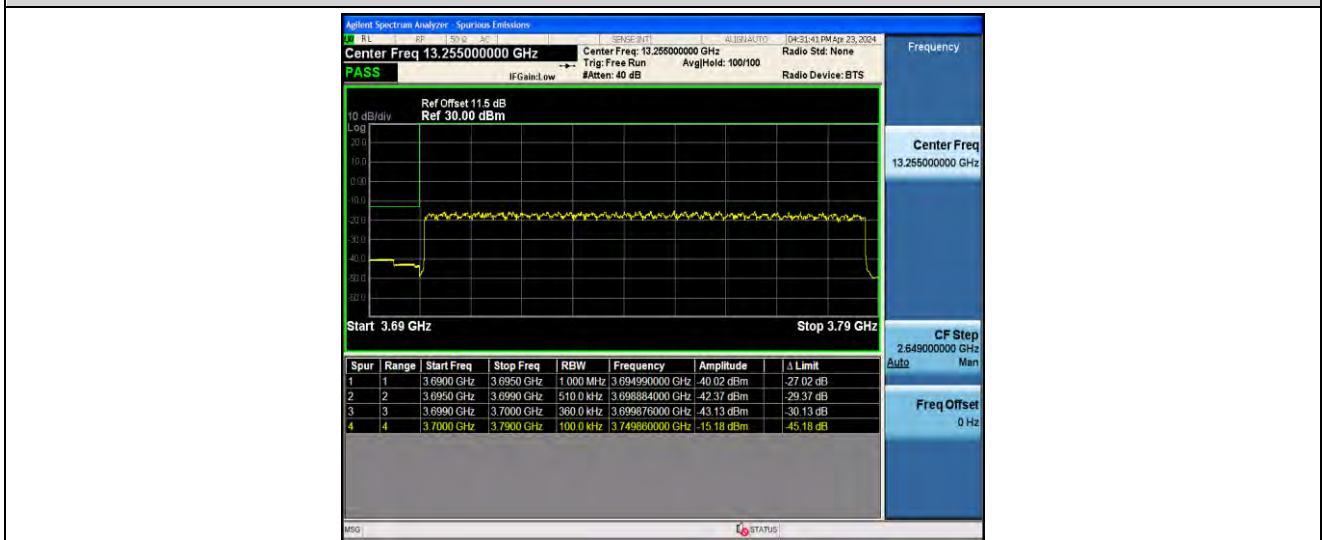


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1-N78-3700-3800-PC2-30-90-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-ANT101-3700.00-27.62--40.62-PAS
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1-N78-3700-3800-PC2-30-90-L-3-DFT-PI2BPSK-Outer_Full-240@0-ANT101-3694.99-27.02--40.02-PASS



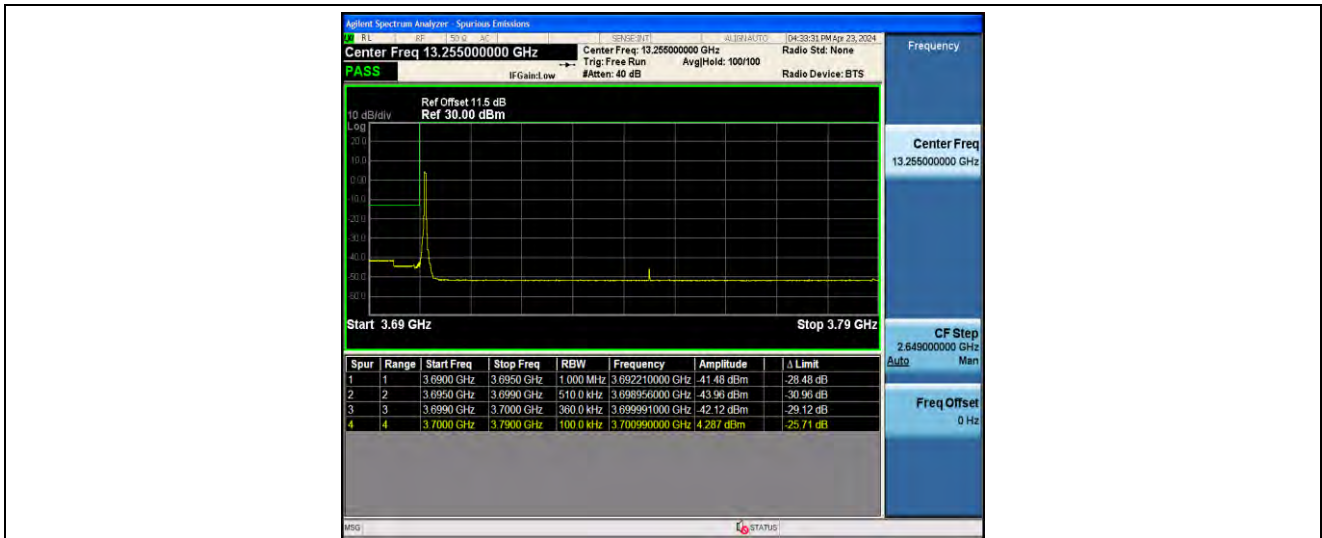
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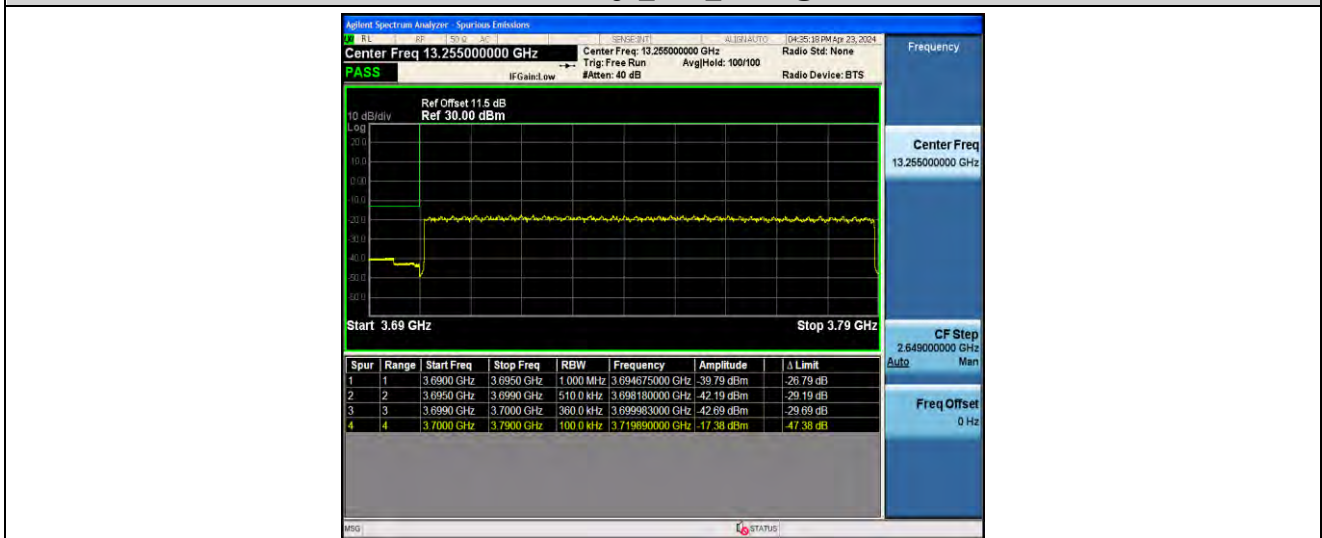


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1-N78-3700-3800-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-ANT101-3694.68-26.79--39.79-PASS



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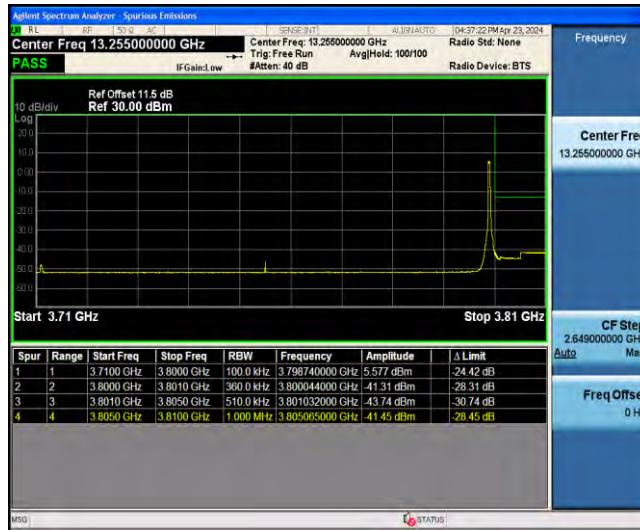
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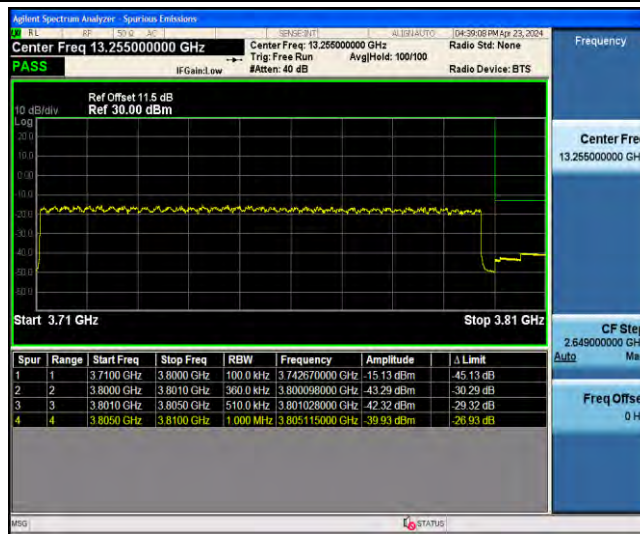


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1-N78-3700-3800-PC2-30-90-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@244-ANT101-3800.04-28.31--41.31-P
 ASS



1-N78-3700-3800-PC2-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-ANT101-3805.12-26.93--39.93-PASS



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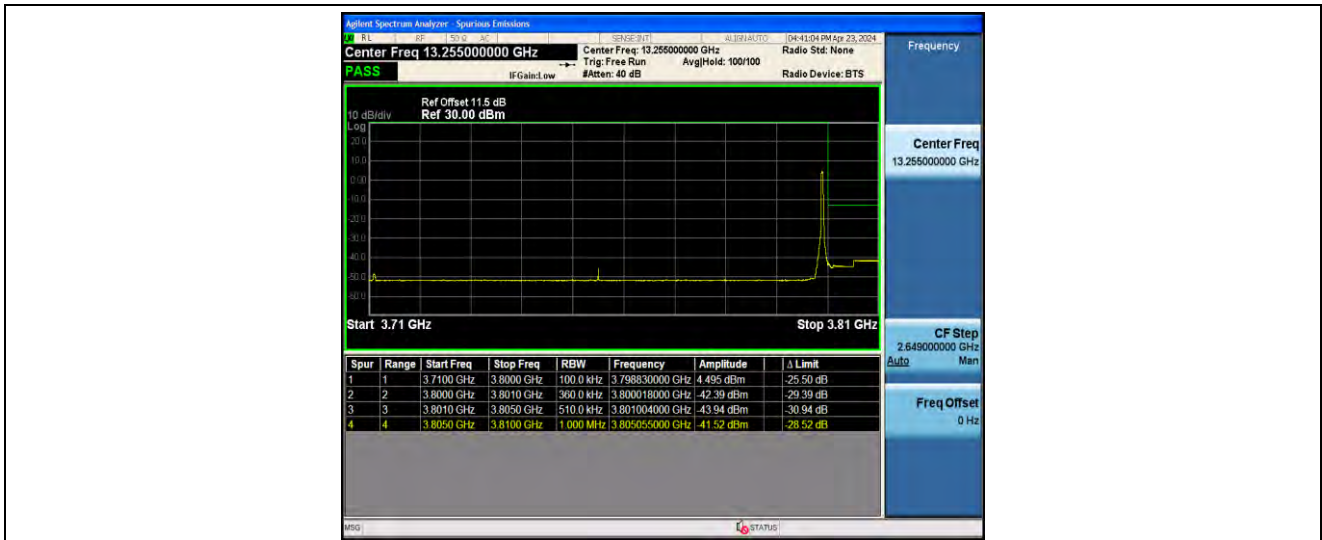
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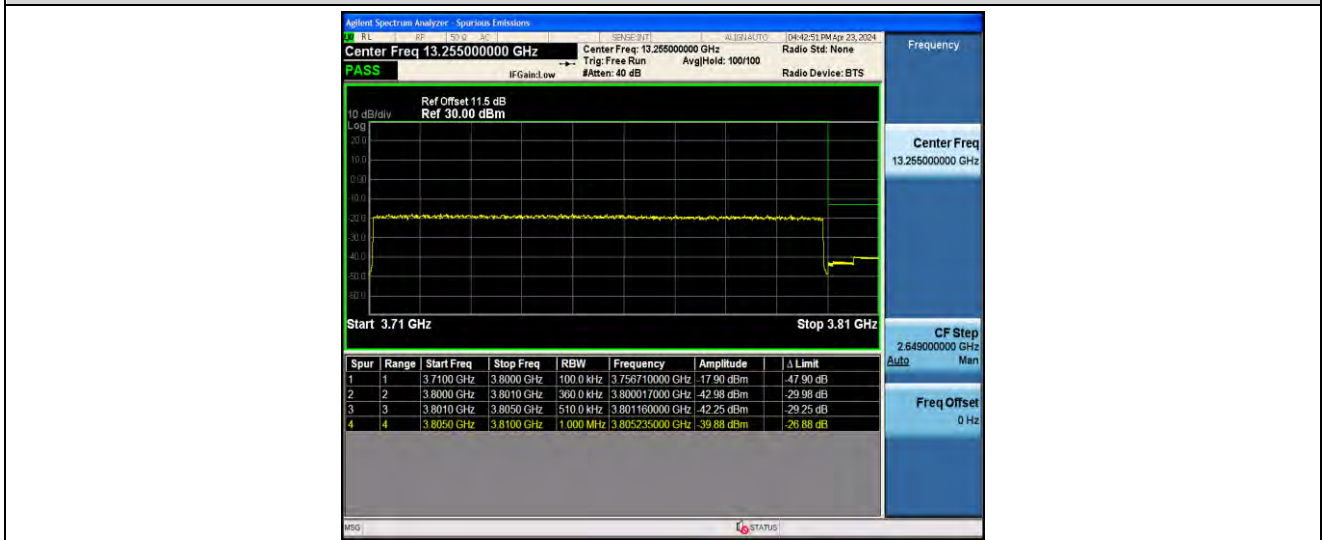


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1-N78-3700-3800-PC2-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-ANT101-3805.06-28.52--41.52-PAS
 S



1-N78-3700-3800-PC2-30-90-H-6-CP-QPSK-Outer_Full-245@0-ANT101-3805.24-26.88--39.88-PASS



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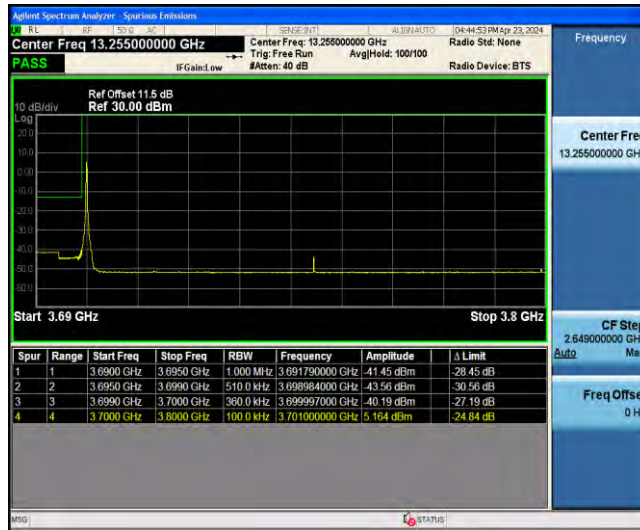
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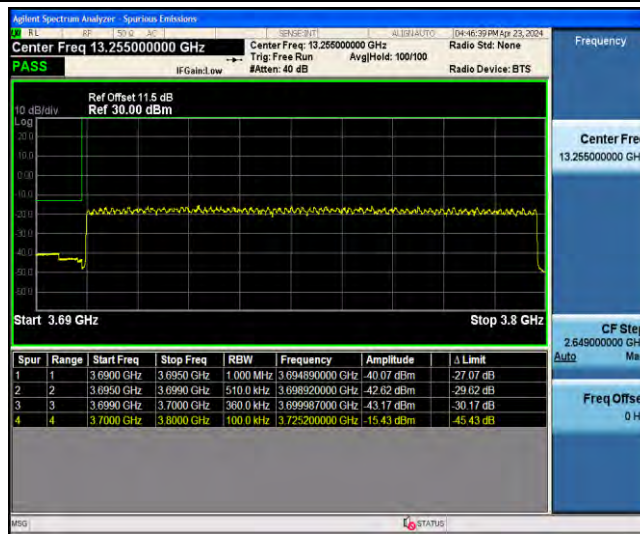


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1-N78-3700-3800-PC2-30-100-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-ANT101-3700.00-27.19--40.19-PAS
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1-N78-3700-3800-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-ANT101-3694.89-27.07--40.07-PASS



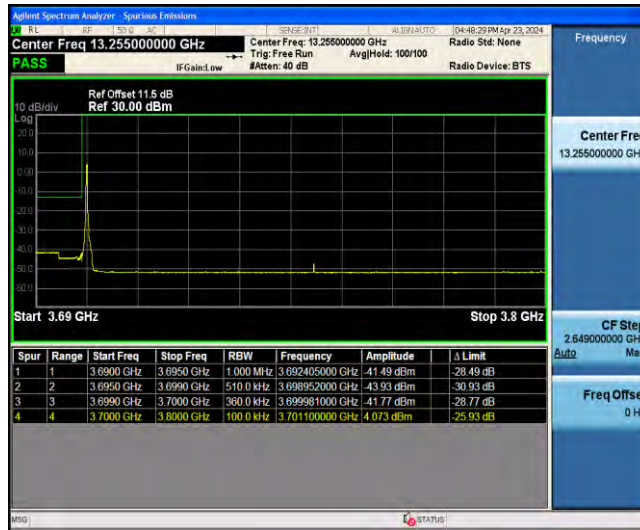
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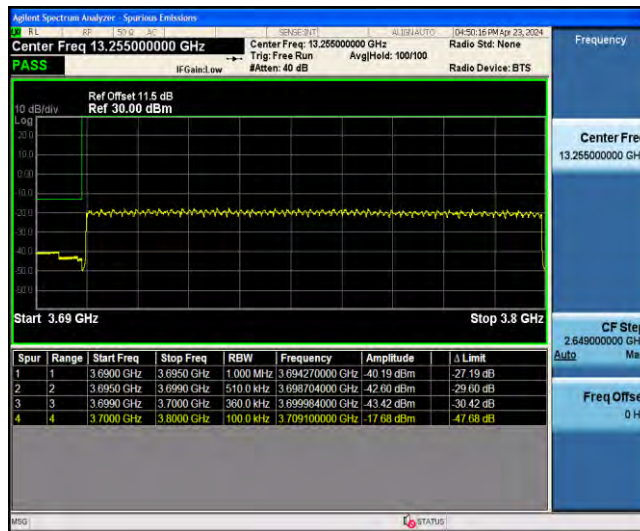


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1-N78-3700-3800-PC2-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-ANT101-3692.41-28.49--41.49-PASS



1-N78-3700-3800-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-ANT101-3694.27-27.19--40.19-PASS



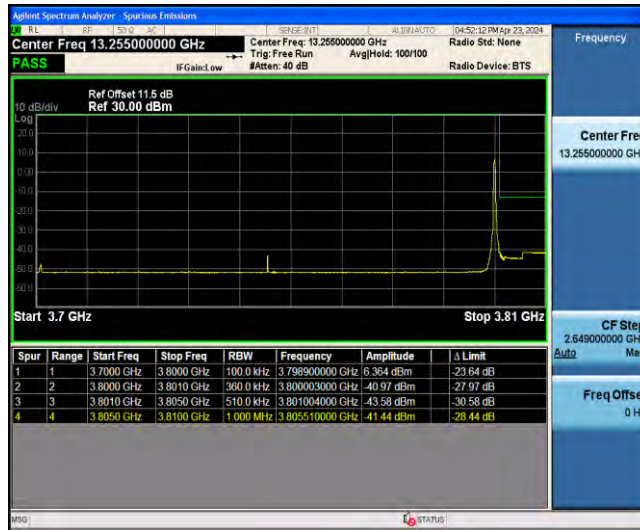
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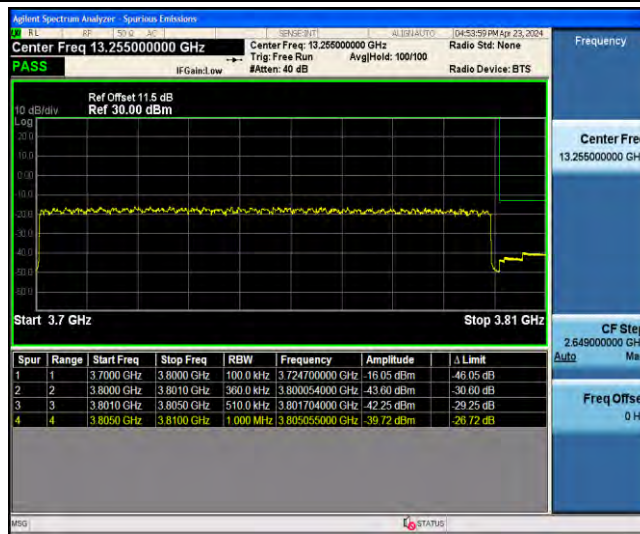


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1-N78-3700-3800-PC2-30-100-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@272-ANT101-3800.00-27.97--40.97-PASS



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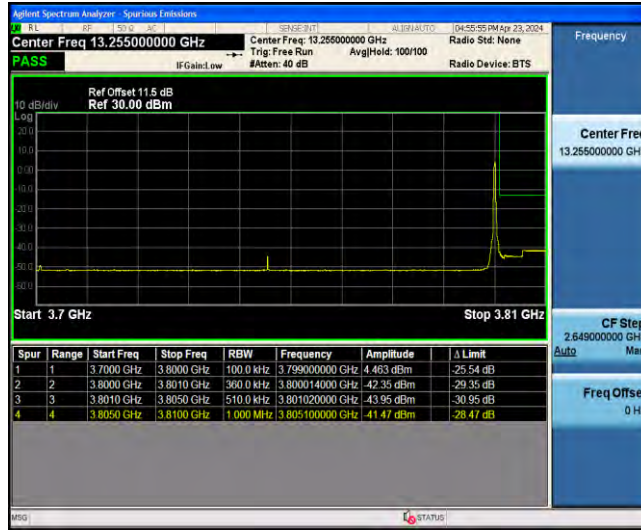
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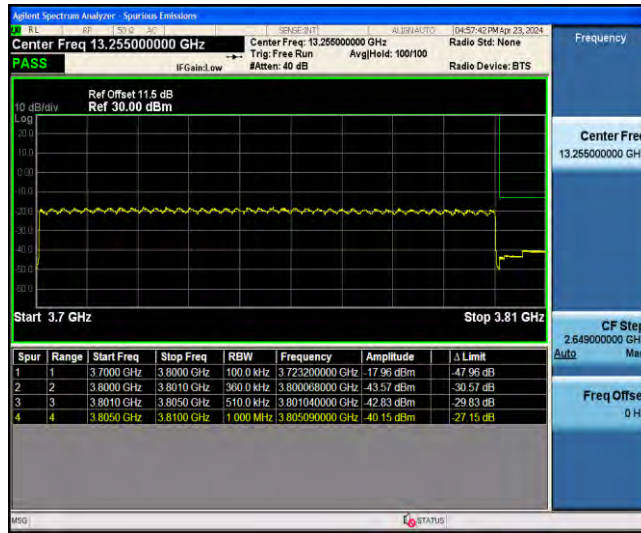


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1-N78-3700-3800-PC2-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-ANT101-3805.10-28.47--41.47-PAS
 S



1-N78-3700-3800-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-ANT101-3805.09-27.15--40.15-PASS



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Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	0.009	0.15	1@1	-91.82	-43	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	0.15	30	1@1	-83.11	-33	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	30	1000	1@1	-54.34	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	1000	6000	1@1	-38.36	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	6000	18000	1@1	-38.55	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	18000	40000	1@1	-41.79	-13	PASS



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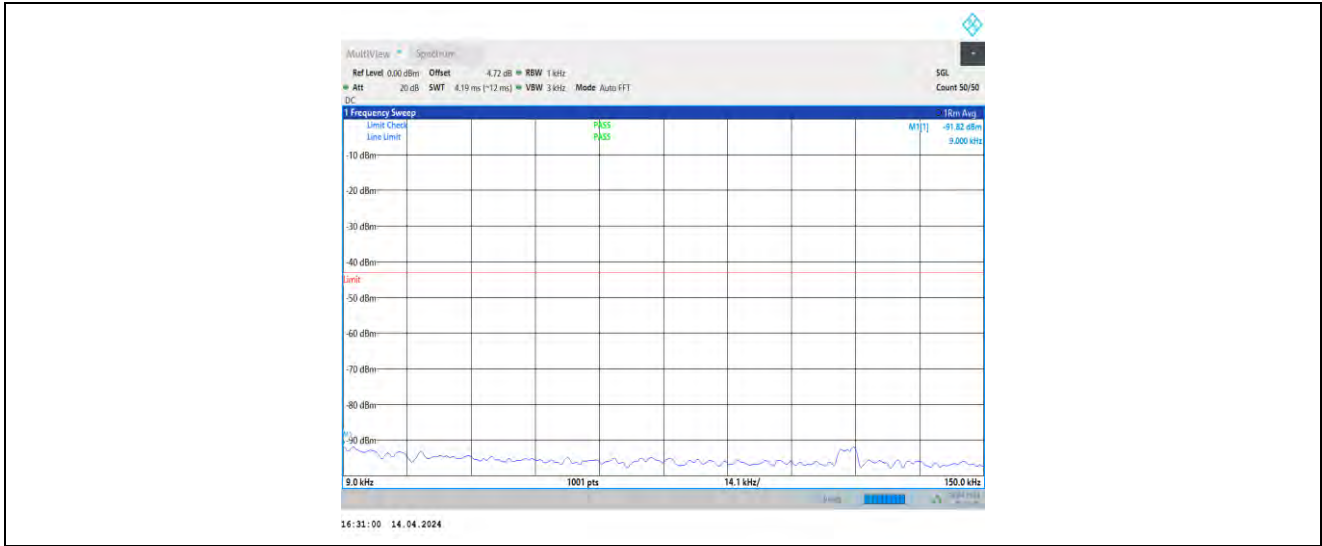
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Test Graphs



1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-ANT101-0.01--9
1.82--43-PASS



1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-ANT101-29.91--83.
11--33-PASS



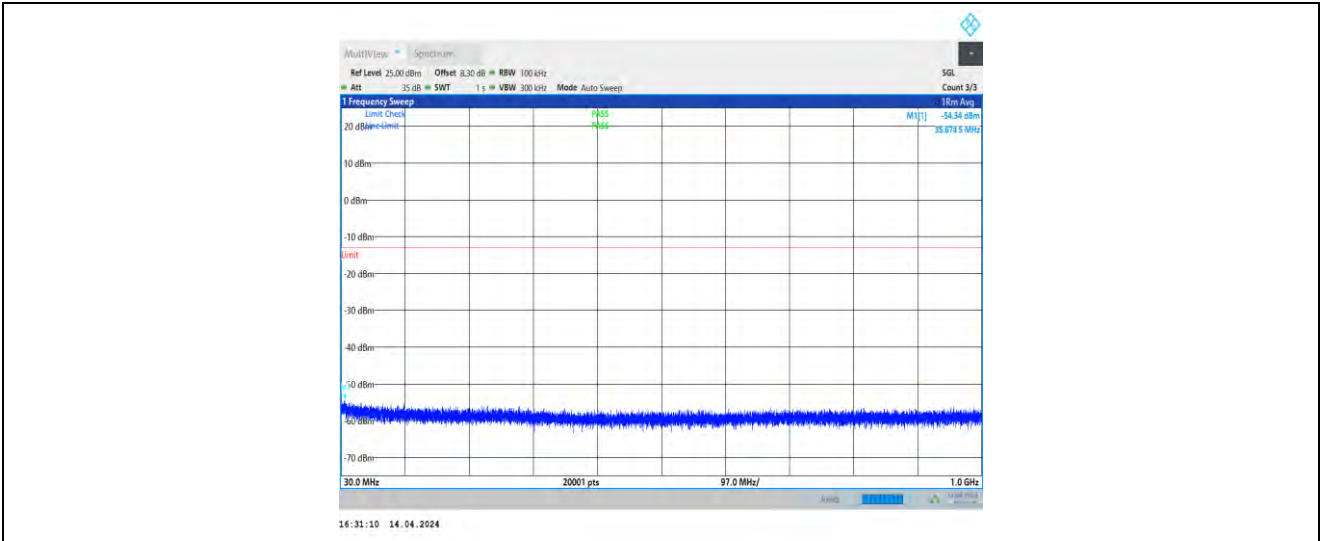
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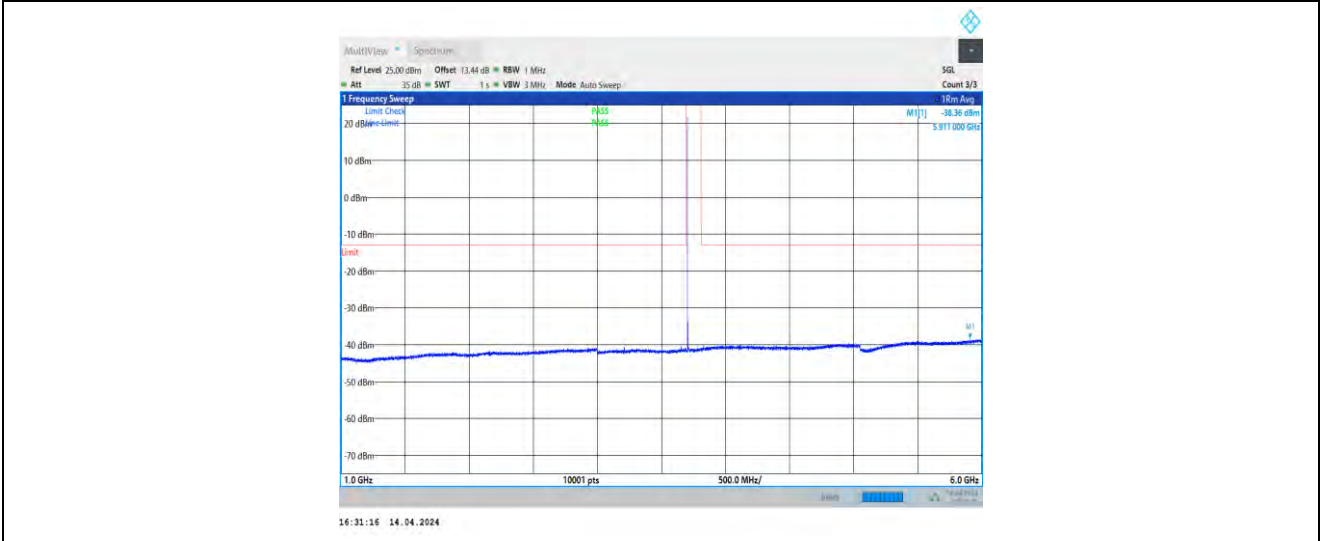


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1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-ANT101-35.67--54.34--13-PASS



1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-ANT101-5911.0 0--38.36--13-PASS



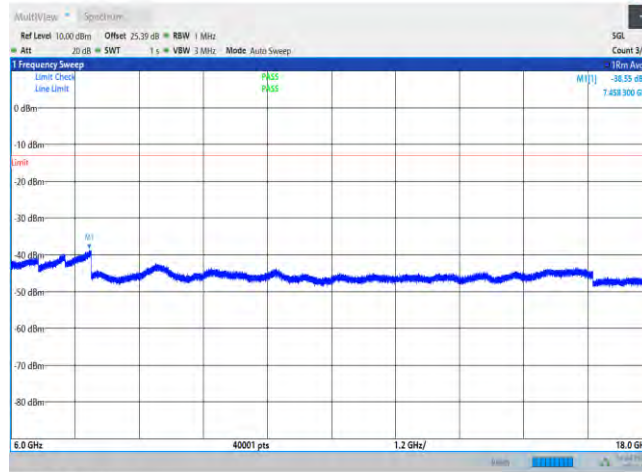
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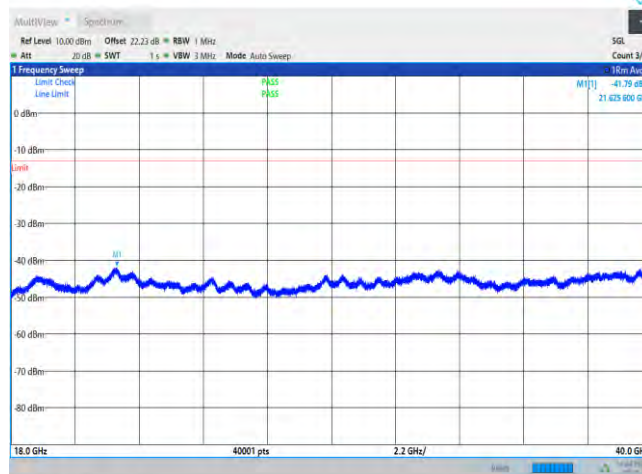
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16:31:22 14.04.2024

1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-ANT101-7458.
 30--38.55--13-PASS



16:31:29 14.04.2024

1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-ANT101-216
 25.60--41.79--13-PASS



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Field Strength of Spurious Radiation

Test Band = n78 3700-3800 ANT13_ TM1

Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7410.0000	43.06	36.29	-44.58	-60.49	-13.00	47.49	Horizontal
2	8319.966	42.42	36.17	-43.64	-60.31	-13.00	47.31	Horizontal
3	9427.4714	40.90	37.08	-41.72	-59.00	-13.00	46.00	Horizontal
4	11115.0000	37.85	39.62	-38.87	-56.66	-13.00	43.66	Horizontal
5	14820.0000	35.76	41.58	-37.34	-55.26	-13.00	42.26	Horizontal
6	17208.7604	35.19	42.71	-36.17	-53.53	-13.00	40.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7410.0000	43.21	36.29	-44.58	-60.34	-13.00	47.34	Vertical
2	8333.7667	42.66	36.17	-43.61	-60.04	-13.00	47.04	Vertical
3	9435.5218	40.89	37.10	-41.74	-59.01	-13.00	46.01	Vertical
4	11115.0000	37.52	39.62	-38.87	-56.99	-13.00	43.99	Vertical
5	14820.0000	35.58	41.58	-37.34	-55.44	-13.00	42.44	Vertical
6	17216.2358	35.18	42.75	-36.23	-53.56	-13.00	40.56	Vertical



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Test Band = DC_2A_n78A 3700-3800_TM1
Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7410.0000	42.66	36.29	-44.58	-60.89	-13.00	47.89	Horizontal
2	8336.0668	42.41	36.17	-43.60	-60.28	-13.00	47.28	Horizontal
3	9445.2973	40.35	37.12	-41.76	-59.55	-13.00	46.55	Horizontal
4	11115.0000	37.27	39.62	-38.87	-57.24	-13.00	44.24	Horizontal
5	14820.0000	34.84	41.58	-37.34	-56.18	-13.00	43.18	Horizontal
6	17036.8268	34.70	41.80	-36.39	-55.15	-13.00	42.15	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7410.0000	42.80	36.29	-44.58	-60.75	-13.00	47.75	Vertical
2	8156.6578	42.63	36.18	-43.60	-60.05	-13.00	47.05	Vertical
3	9447.5974	40.21	37.13	-41.77	-59.69	-13.00	46.69	Vertical
4	11115.0000	37.11	39.62	-38.87	-57.40	-13.00	44.40	Vertical
5	14820.0000	35.01	41.58	-37.34	-56.01	-13.00	43.01	Vertical
6	17014.4007	34.75	41.68	-36.27	-55.10	-13.00	42.10	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

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	VH	NT	6.40	0.00	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	VN	NT	-13.40	0.00	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	VL	NT	-17.60	0.00	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	VH	NT	9.60	0.00	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	VN	NT	9.40	0.00	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	VL	NT	-14.90	0.00	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	50	5.100000	0.001360	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	-20	11.000000	0.002933	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	-10	-10.500000	-0.002800	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	0	-14.700000	-0.003920	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	10	8.600000	0.002293	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	20	-10.900000	-0.002907	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	30	-5.300000	-0.001413	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	-30	7.900000	0.002107	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	40	-14.500000	-0.003867	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	50	14.400000	0.003840	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	-20	-14.700000	-0.003920	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	-10	9.600000	0.002560	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	0	7.500000	0.002000	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	10	10.600000	0.002827	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	20	-9.500000	-0.002533	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	30	-13.300000	-0.003547	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	40	-8.200000	-0.002187	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	-30	-6.500000	-0.001733	PASS

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