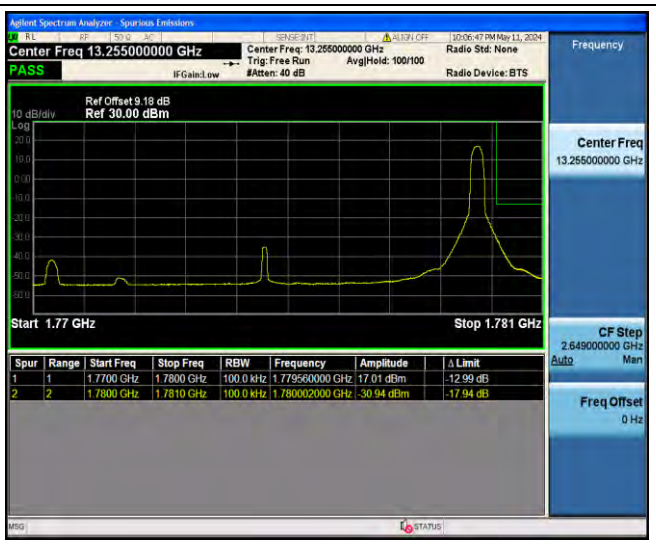
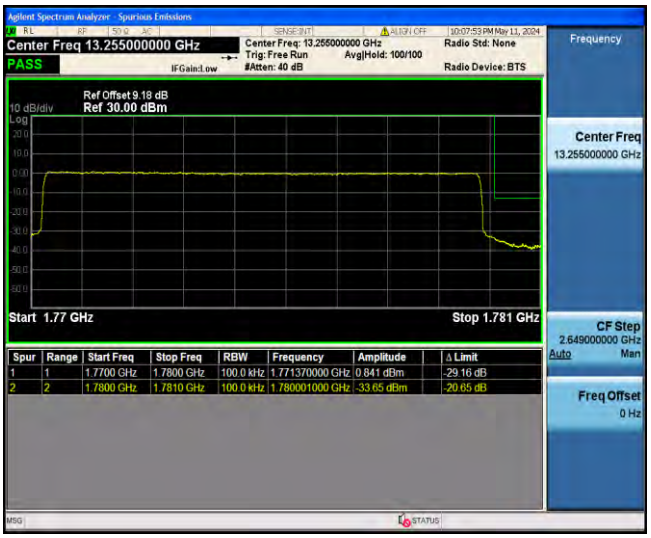
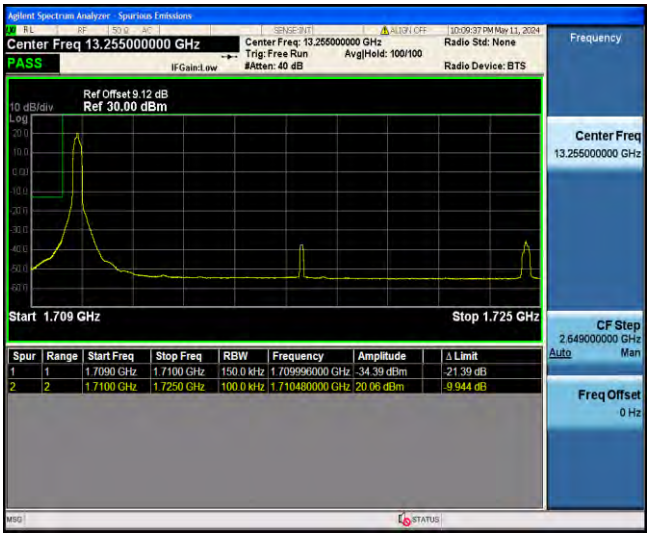


1-N66-PC3-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant41-1780.00-17.94--30.94-PASS



1-N66-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant41-1780.00-20.65--33.65-PASS



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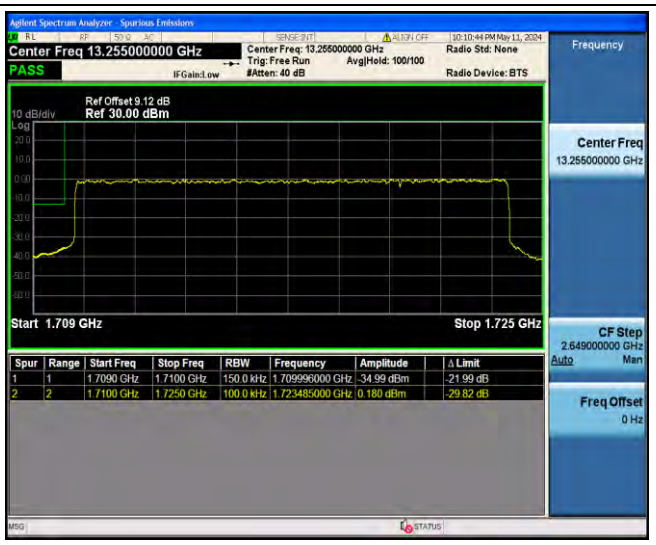

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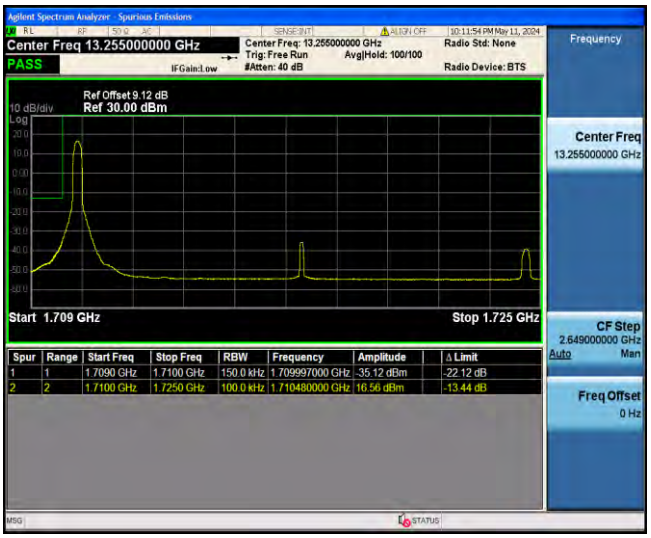
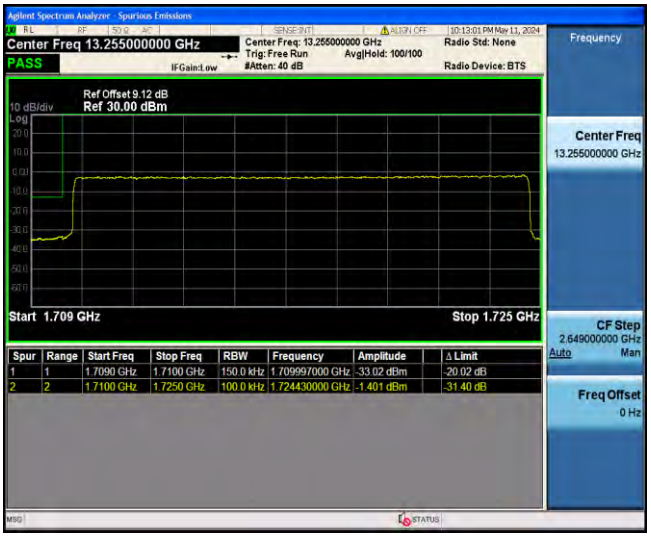
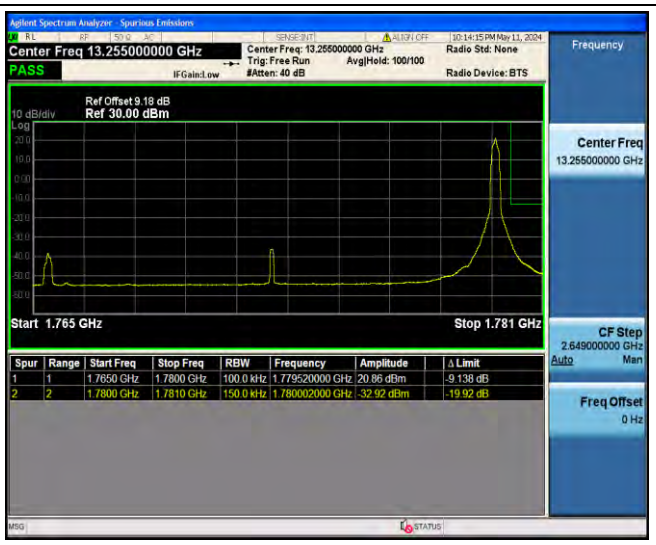


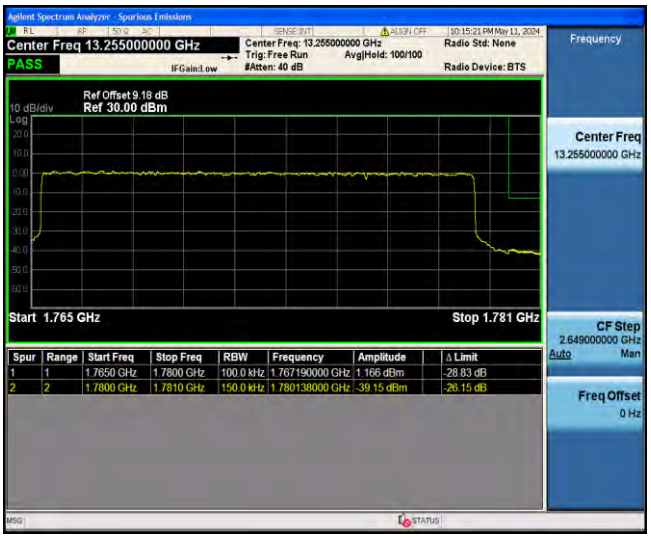
1-N66-PC3-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant41-1710.00-22.12--35.12-PASS



1-N66-PC3-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant41-1710.00-20.02--33.02-PASS



1-N66-PC3-15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@78-Ant41-1780.00-19.92--32.92-PASS



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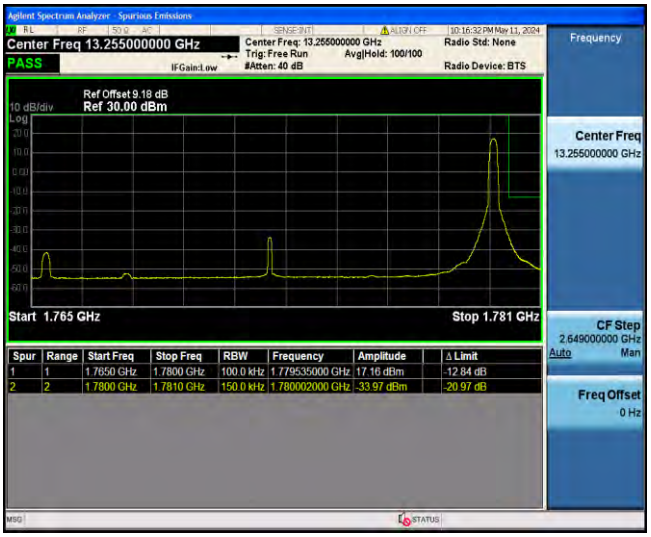

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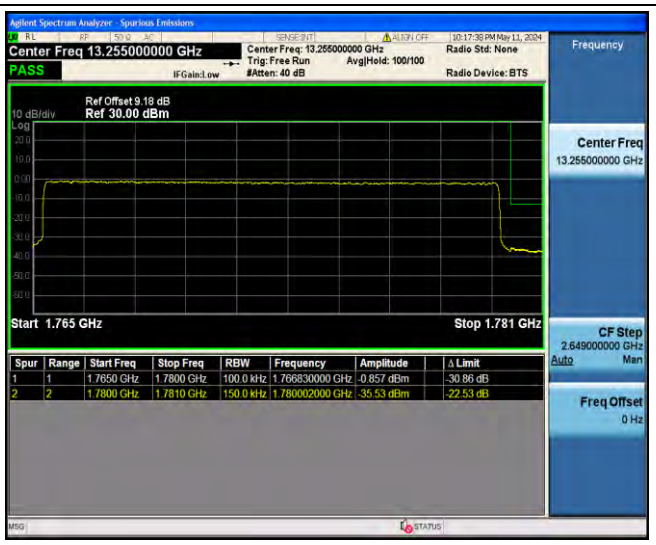

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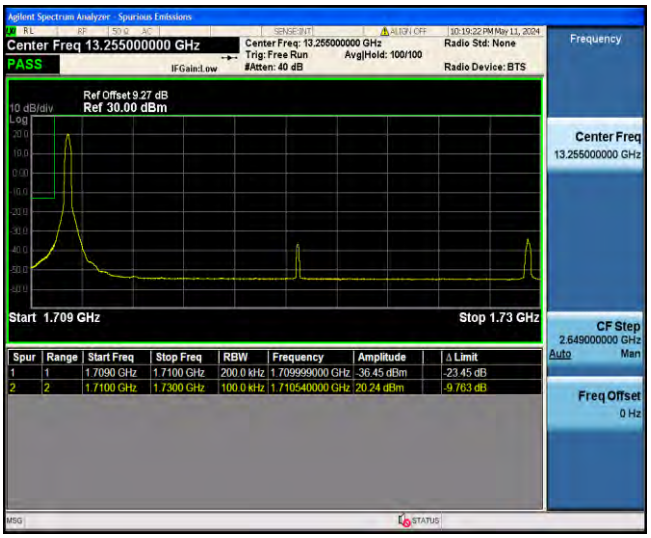

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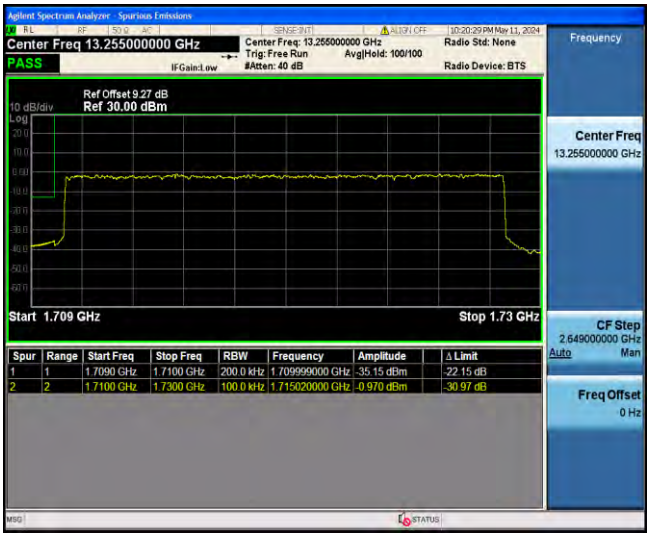

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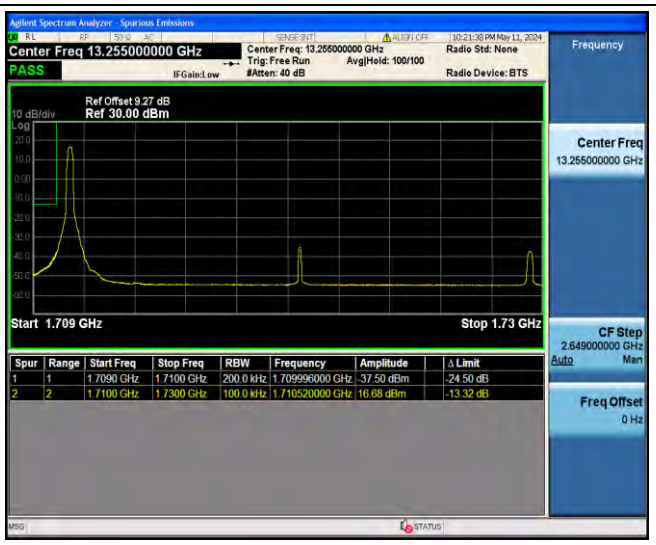

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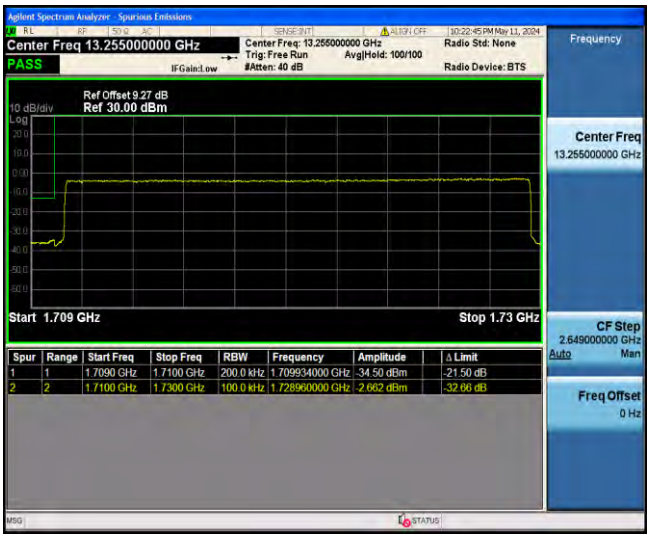

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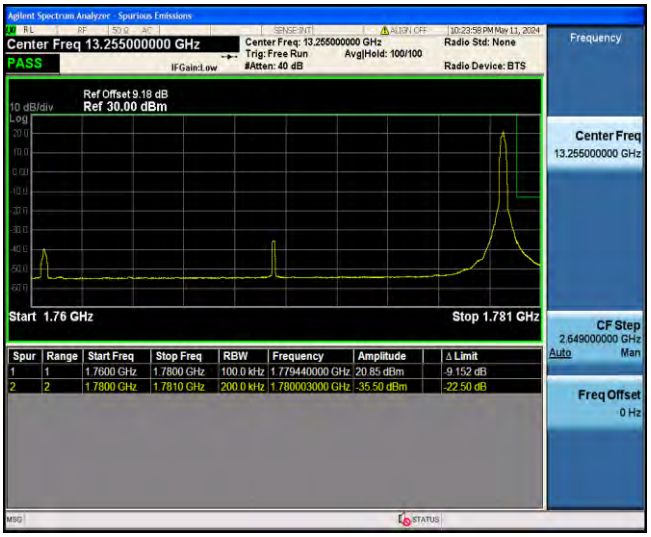

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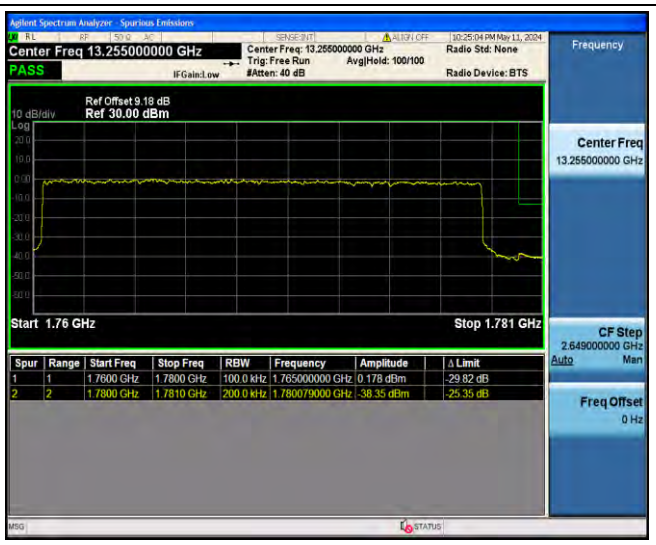

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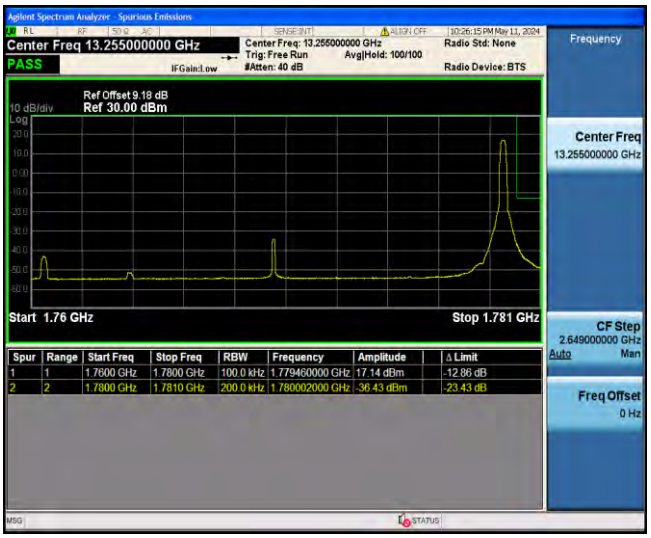

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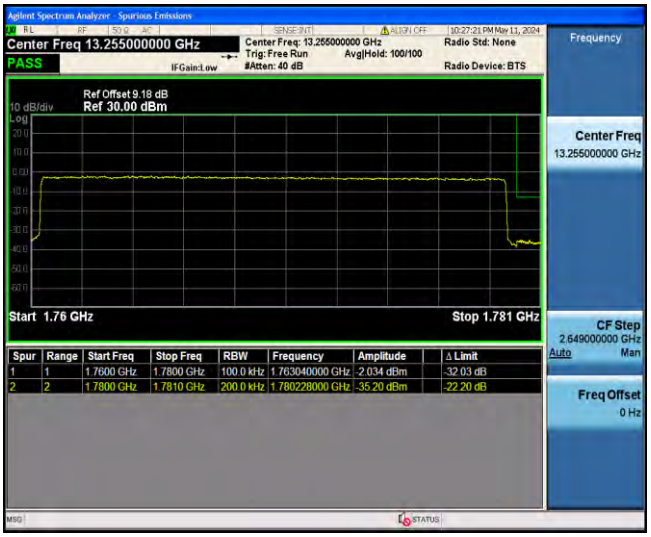

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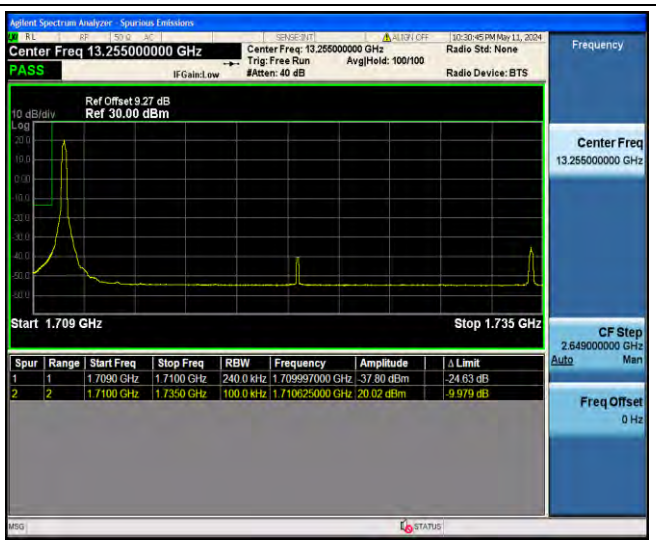

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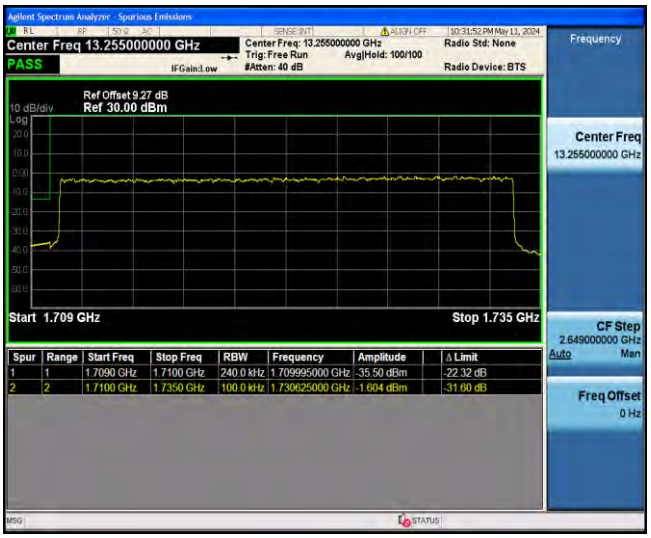

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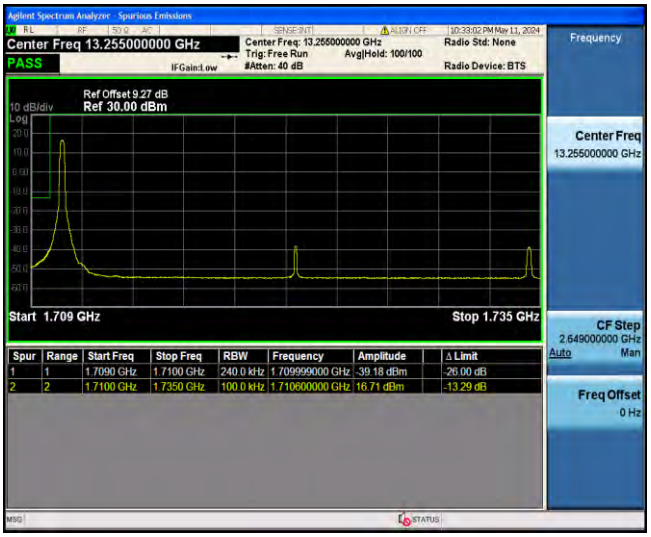

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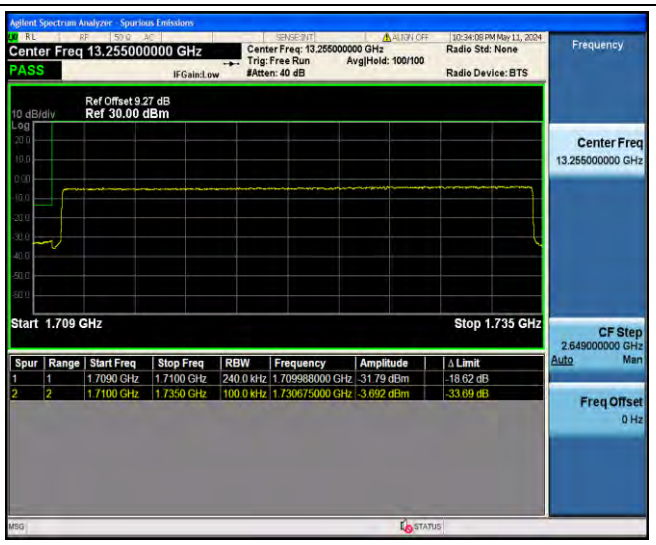

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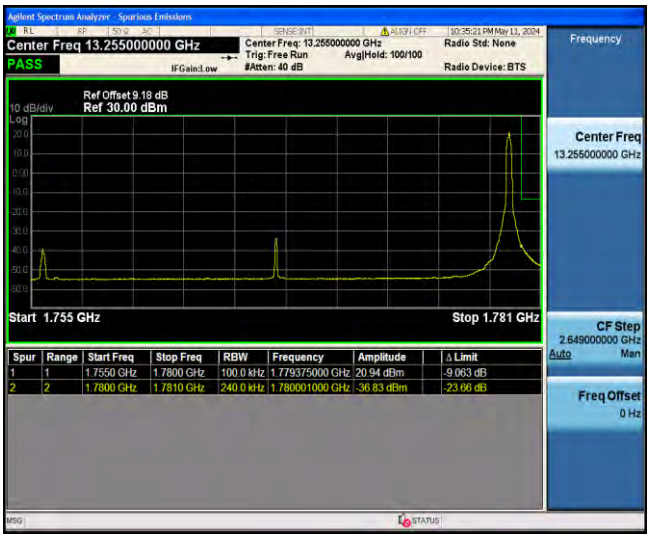

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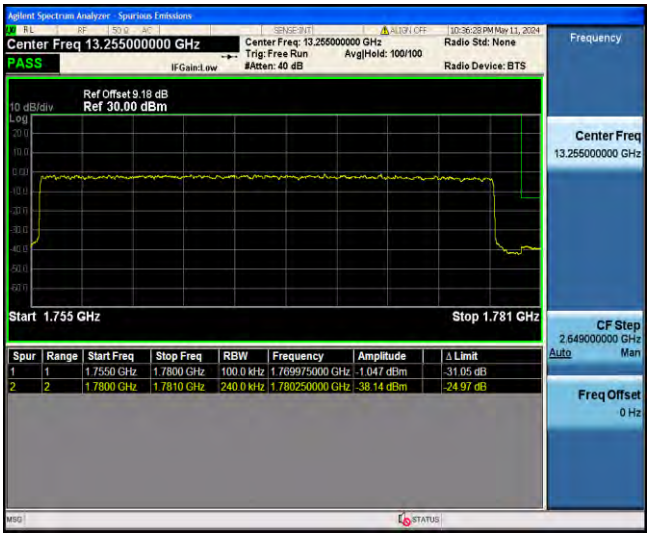
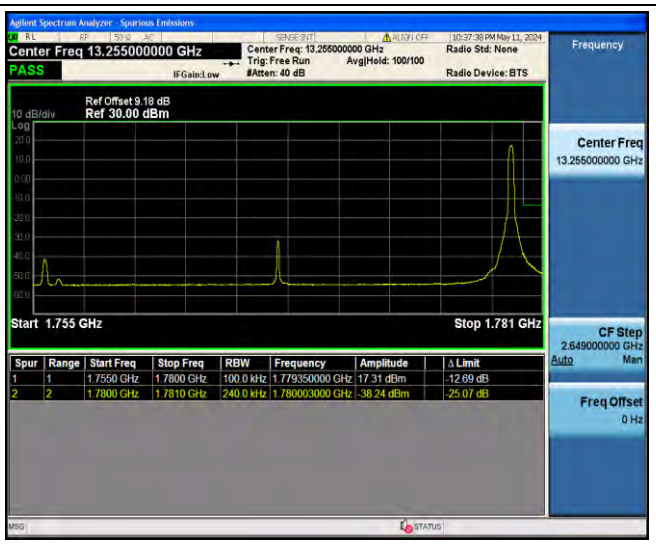


1-N66-PC3-15-25-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant41-1780.25-24.94--38.14-PASS



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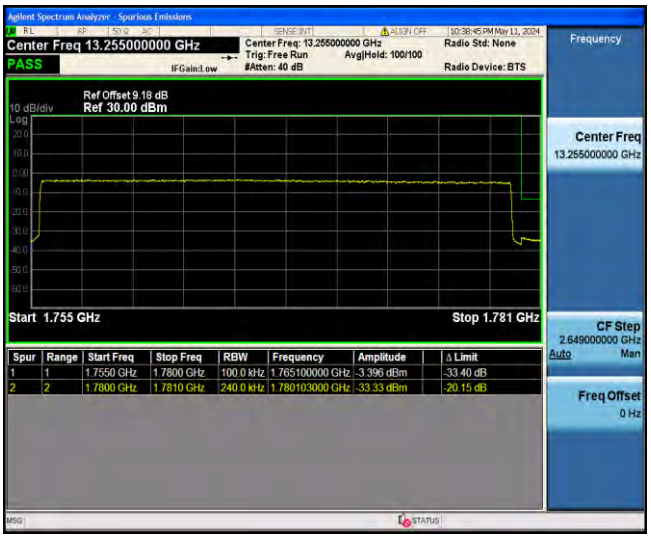

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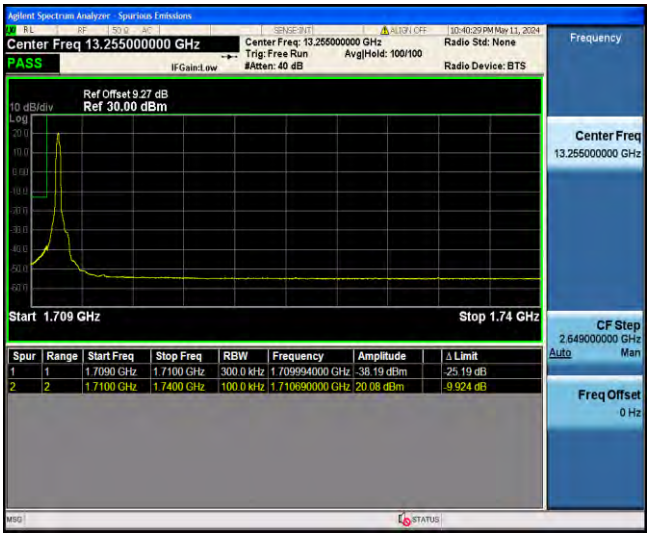
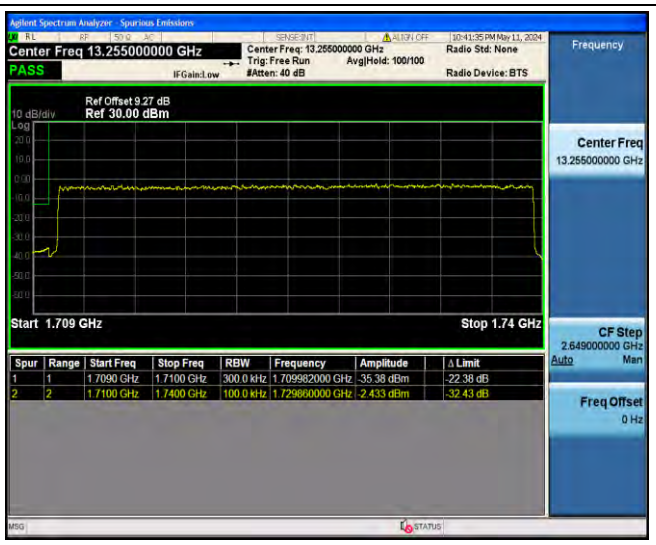
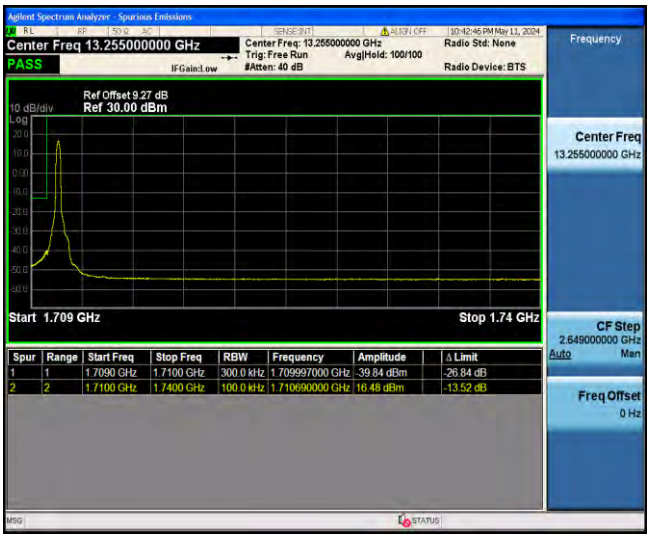


1-N66-PC3-15-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant41-1709.99-25.19--38.19-PASS



1-N66-PC3-15-30-L-3-DFT-PI2BPSK-Outer_Full-160@0-Ant41-1709.98-22.38--35.38-PASS



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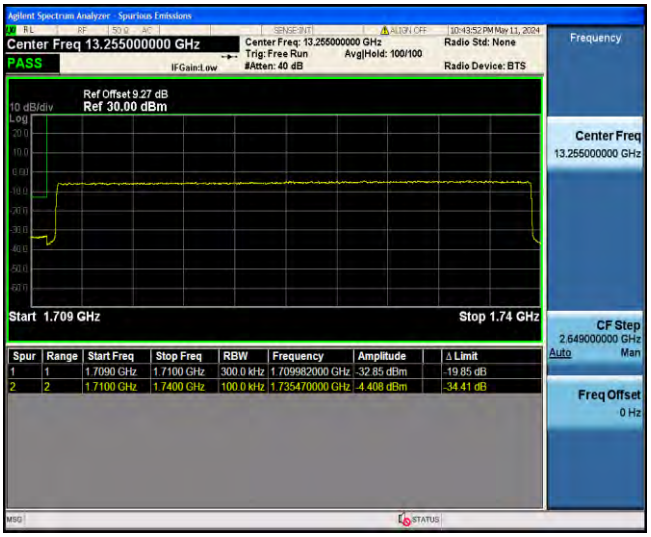

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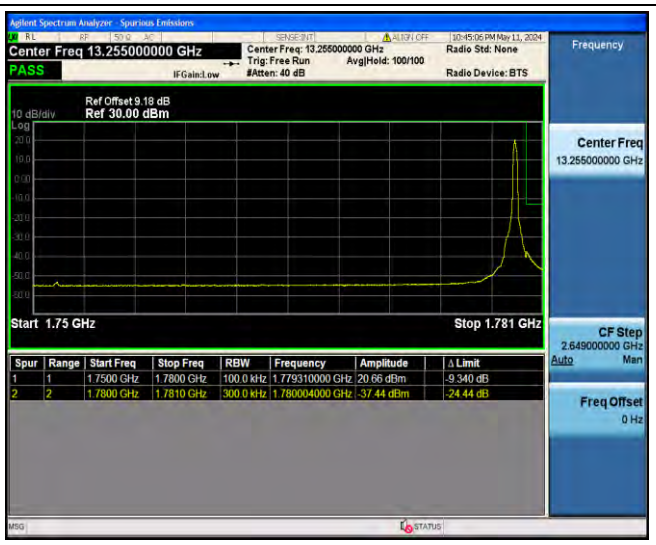

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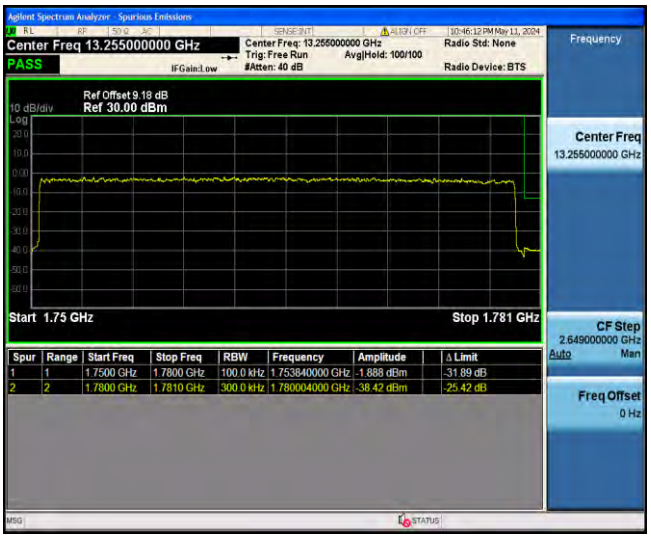

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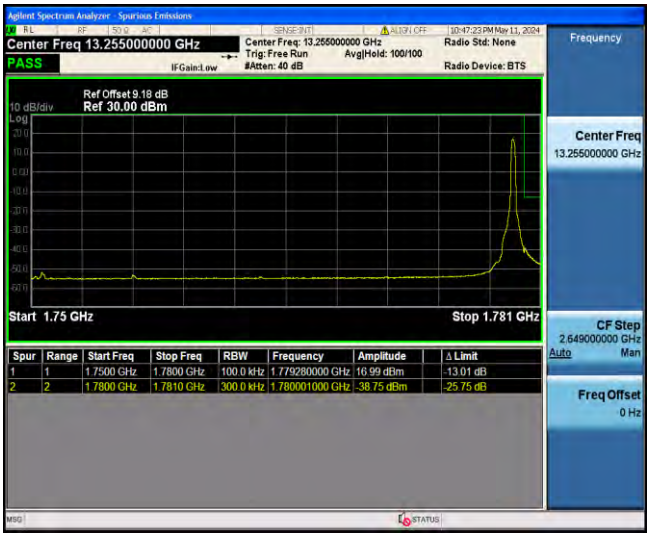

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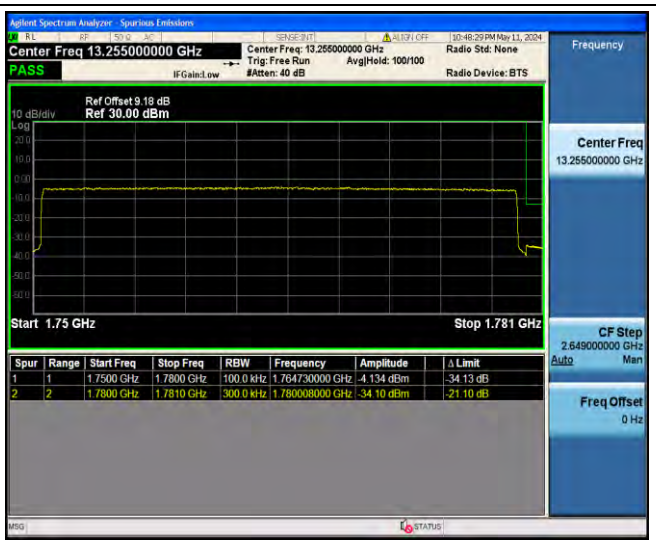

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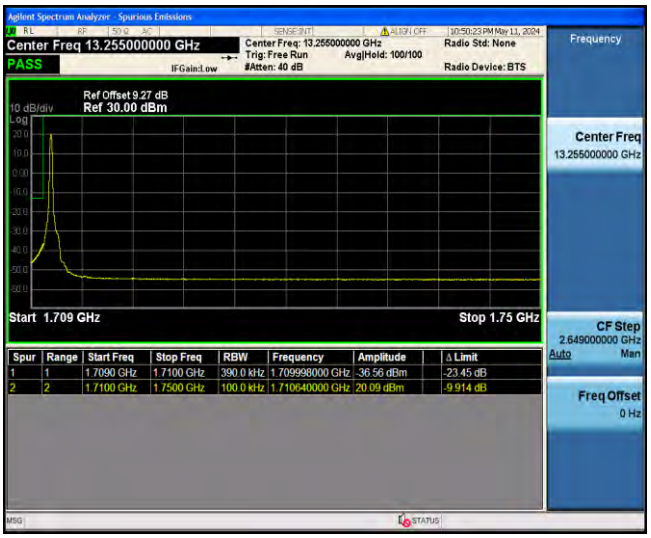
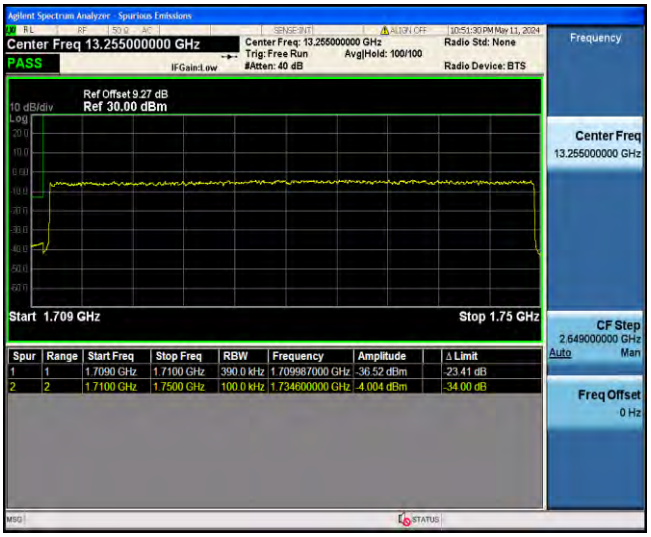
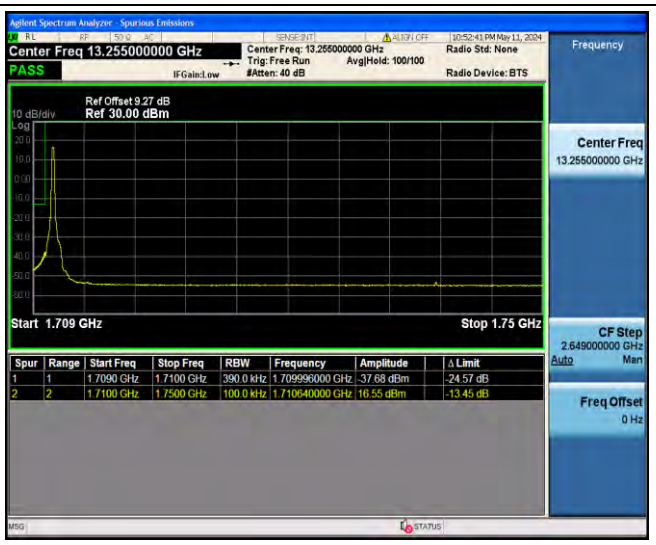


1-N66-PC3-15-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant41-1710.00-23.46--36.56-PASS



1-N66-PC3-15-40-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant41-1709.99-23.42--36.52-PASS



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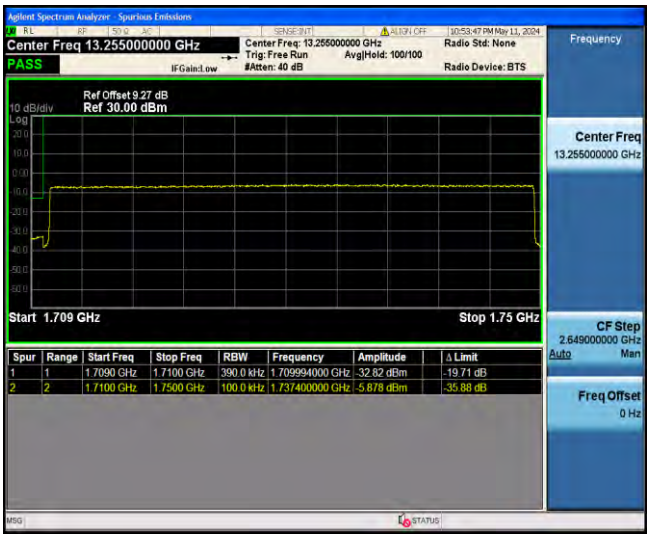
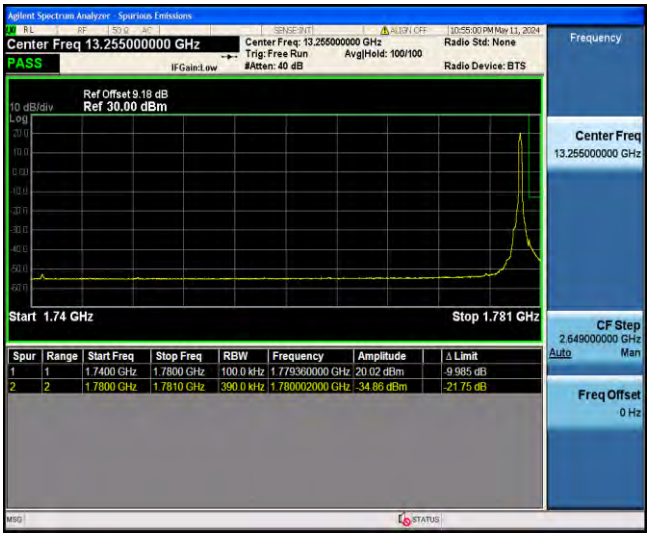
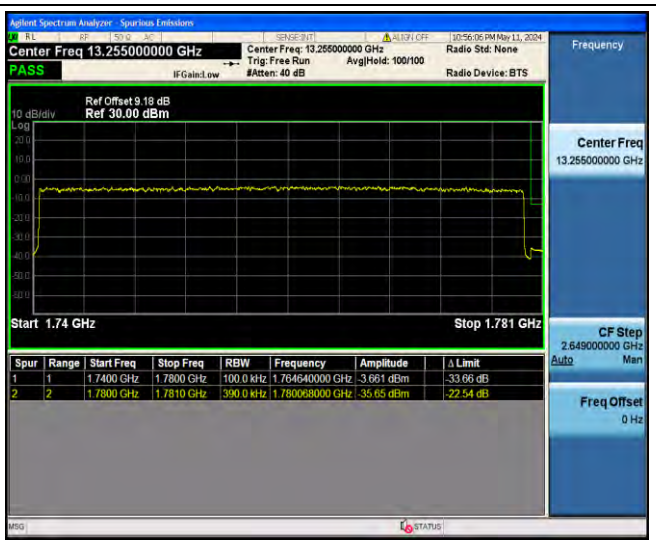


1-N66-PC3-15-40-L-6-CP-QPSK-Outer_Full-216@0-Ant41-1709.99-19.72--32.82-PASS



1-N66-PC3-15-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@215-Ant41-1780.00-21.76--34.86-PASS



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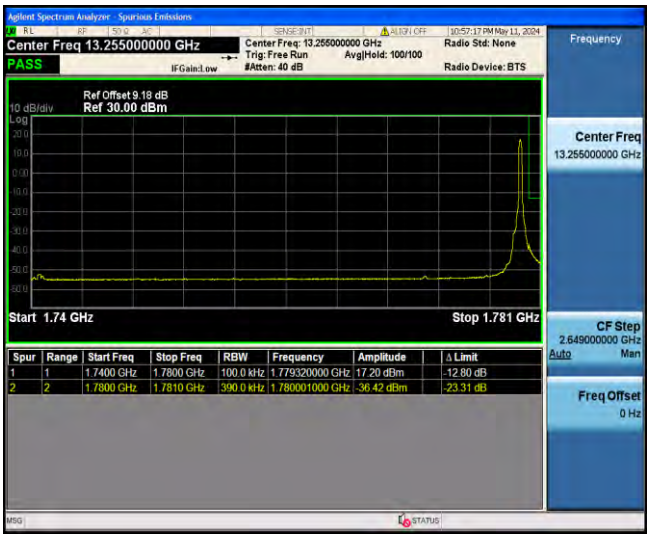

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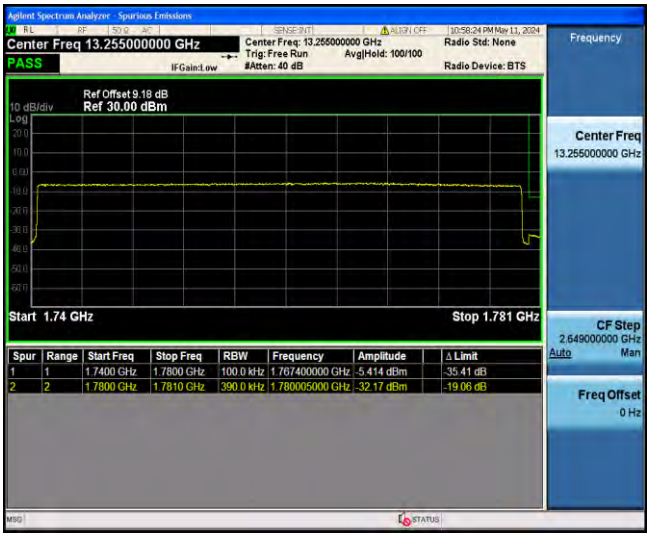
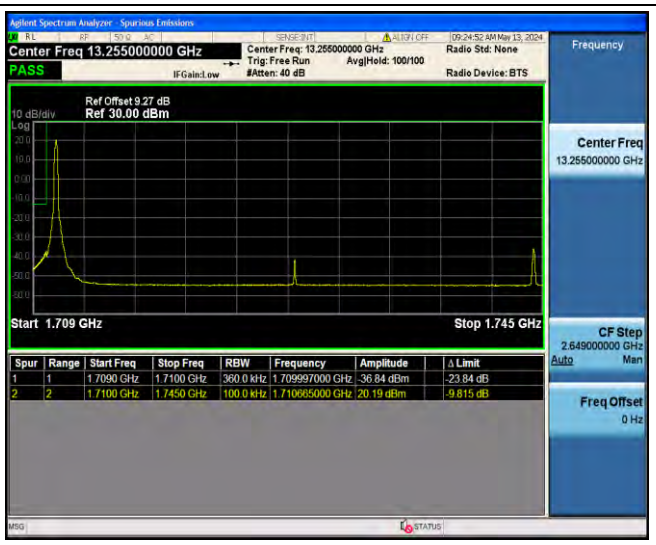
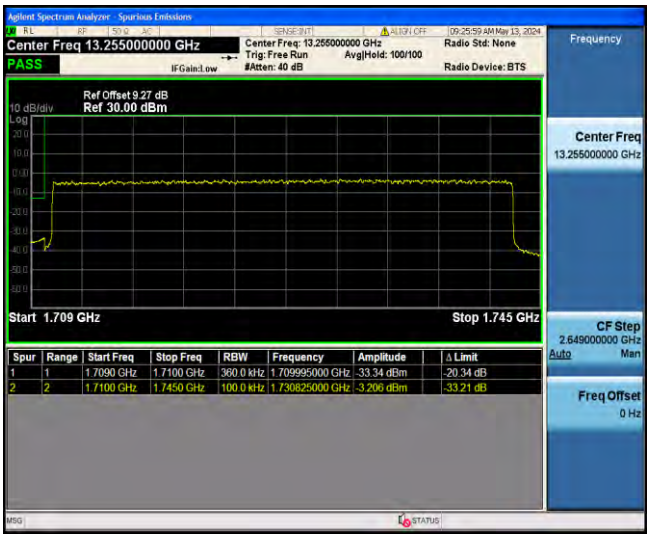


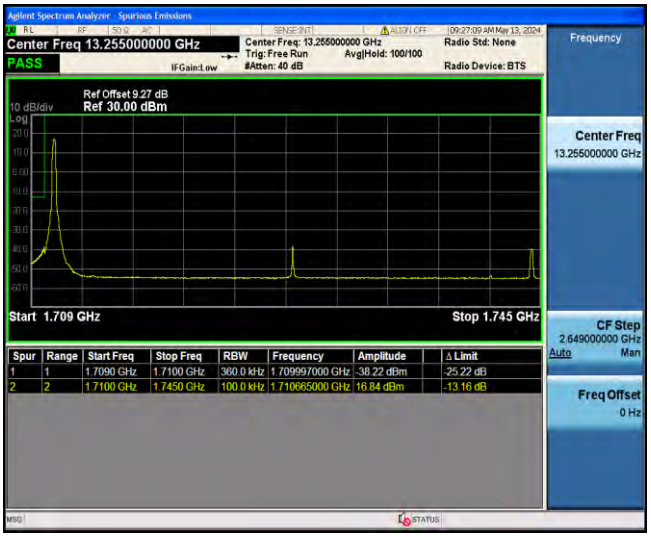
1-N66-PC3-15-40-H-6-CP-QPSK-Outer_Full-216@0-Ant41-1780.01-19.07--32.17-PASS



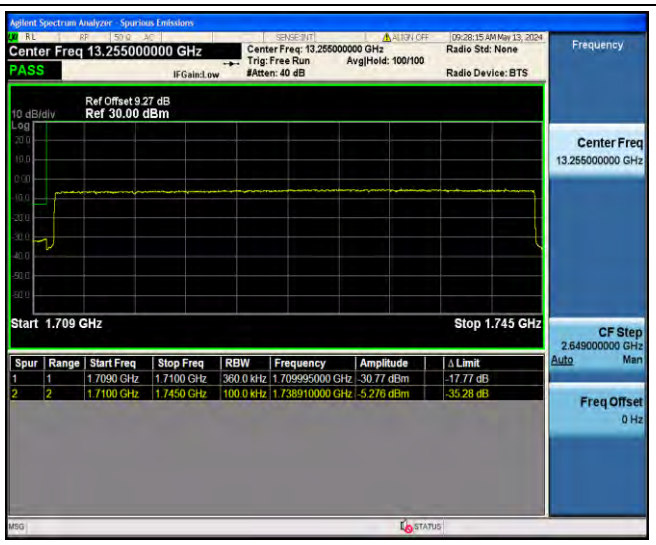
1-N66-PC3-15-35-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant41-1710.00-23.84--36.84-PASS



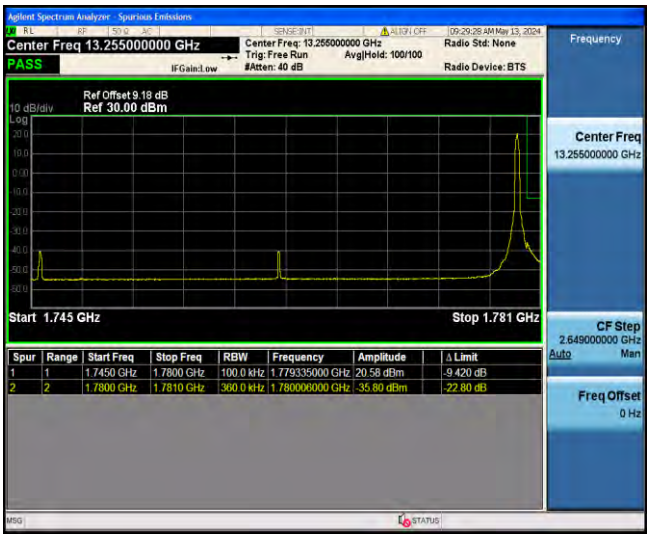
1-N66-PC3-15-35-L-3-DFT-PI2BPSK-Outer_Full-180@0-Ant41-1710.00-20.34--33.34-PASS



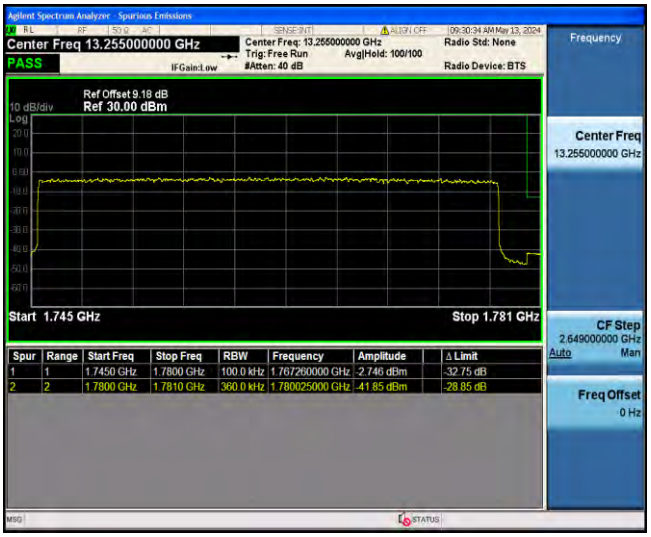
1-N66-PC3-15-35-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant41-1710.00-25.22--38.22-PASS



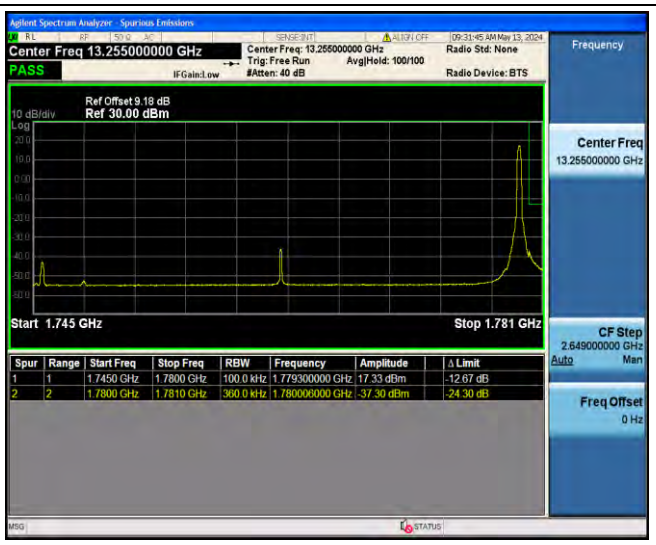
1-N66-PC3-15-35-L-6-CP-QPSK-Outer_Full-188@0-Ant41-1710.00-17.77--30.77-PASS



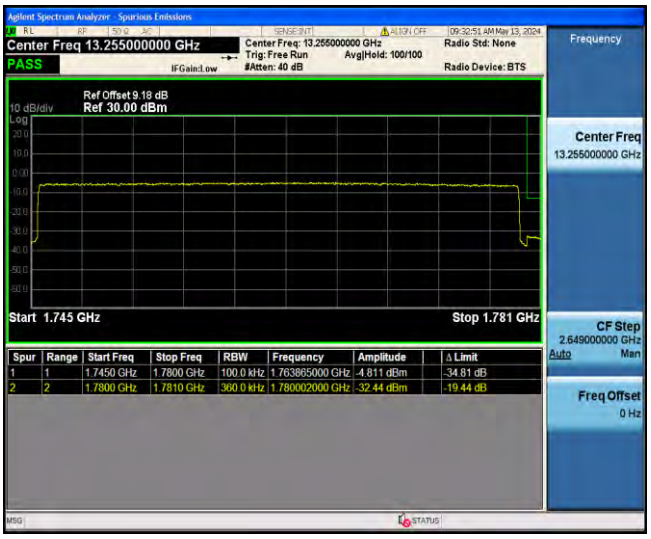
1-N66-PC3-15-35-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@187-Ant41-1780.01-22.80--35.80-PASS



1-N66-PC3-15-35-H-3-DFT-PI2BPSK-Outer_Full-180@0-Ant41-1780.03-28.85--41.85-PASS



1-N66-PC3-15-35-H-5-CP-QPSK-Edge_1RB_Right-1@187-Ant41-1780.01-24.30--37.30-PASS



1-N66-PC3-15-35-H-6-CP-QPSK-Outer_Full-188@0-Ant41-1780.00-19.44--32.44-PASS

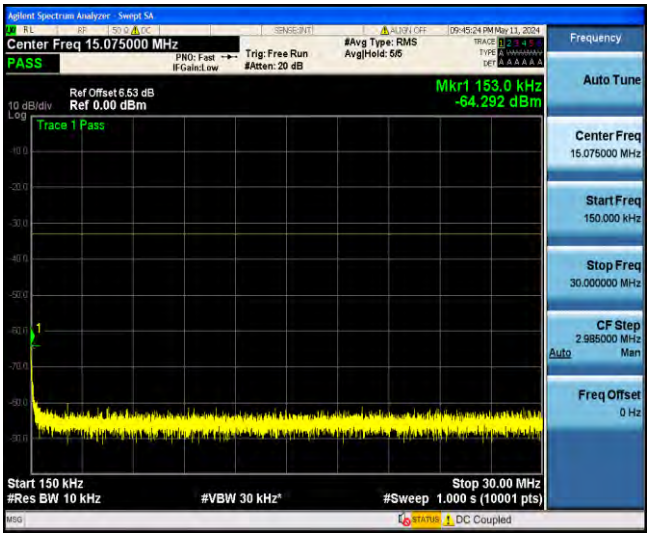
Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N66	15	40	DFT-PI2BPSK	L	0.009	0.15	1@1	-64.27	-43	PASS
N66	15	40	DFT-PI2BPSK	L	0.15	30	1@1	-64.29	-33	PASS
N66	15	40	DFT-PI2BPSK	L	30	1000	1@1	-54.71	-23	PASS
N66	15	40	DFT-PI2BPSK	L	1000	3000	1@1	-39.09	-13	PASS
N66	15	40	DFT-PI2BPSK	L	3000	12000	1@1	-46.67	-13	PASS
N66	15	40	DFT-PI2BPSK	L	12000	20000	1@1	-43.85	-13	PASS
N66	15	40	DFT-PI2BPSK	M	0.009	0.15	1@1	-64.82	-43	PASS
N66	15	40	DFT-PI2BPSK	M	0.15	30	1@1	-63.21	-33	PASS
N66	15	40	DFT-PI2BPSK	M	30	1000	1@1	-54.58	-23	PASS
N66	15	40	DFT-PI2BPSK	M	1000	3000	1@1	-40.62	-13	PASS
N66	15	40	DFT-PI2BPSK	M	3000	12000	1@1	-46.68	-13	PASS
N66	15	40	DFT-PI2BPSK	M	12000	20000	1@1	-43.85	-13	PASS
N66	15	40	DFT-PI2BPSK	H	0.009	0.15	1@1	-64.99	-43	PASS
N66	15	40	DFT-PI2BPSK	H	0.15	30	1@1	-65.94	-33	PASS
N66	15	40	DFT-PI2BPSK	H	30	1000	1@1	-54.57	-23	PASS
N66	15	40	DFT-PI2BPSK	H	1000	3000	1@1	-40.69	-13	PASS
N66	15	40	DFT-PI2BPSK	H	3000	12000	1@1	-46.81	-13	PASS
N66	15	40	DFT-PI2BPSK	H	12000	20000	1@1	-43.75	-13	PASS

Test Graphs

1-N66-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant41-0.01--64.27--43-PASS



1-N66-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant41-0.15--64.29--33-PASS

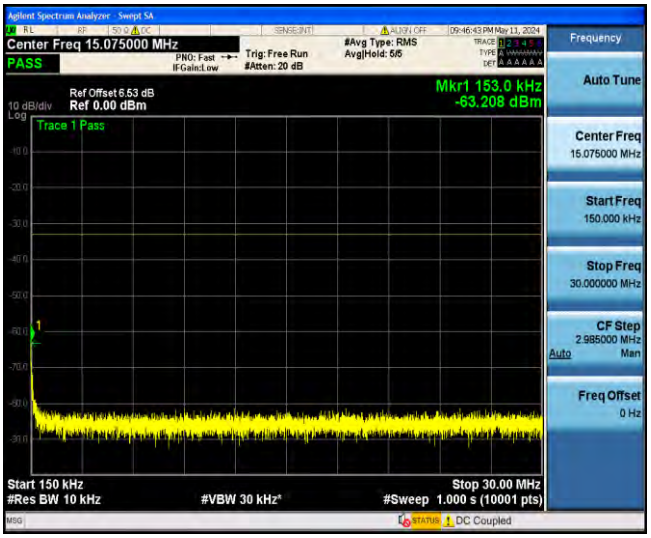
1-N66-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant41-905.52--54.71--23-PASS

1-N66-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant41-1708.40--39.09--13-PASS

1-N66-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant41-5430.00--46.67--13-PASS

1-N66-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant41-18720.80--43.85--13-PASS

1-N66-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant41-0.01--64.82--43-PASS



1-N66-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant41-0.15--63.21--33-PASS

1-N66-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant41-894.76--54.58--23-PASS

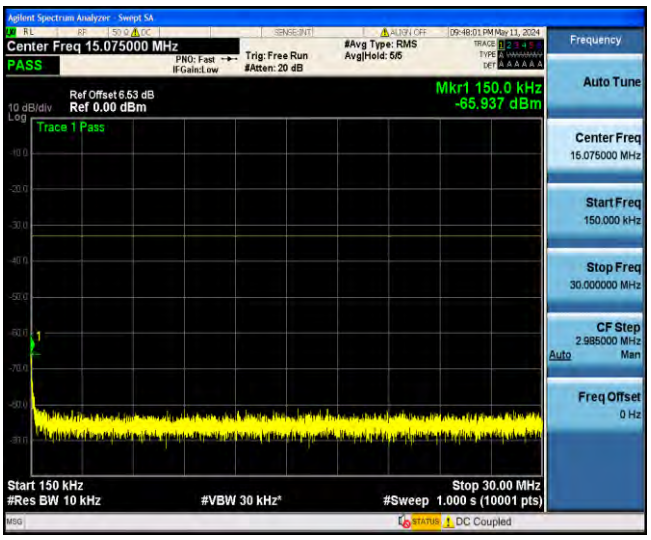
1-N66-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant41-2658.80--40.62--13-PASS

1-N66-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant41-5885.85--46.68--13-PASS

1-N66-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant41-18834.80--43.85--1

3-PASS

1-N66-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant41-0.01--64.99--43-PASS



1-N66-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant41-0.15--65.94--33-PASS

1-N66-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant41-877.39--54.57--23-PASS

1-N66-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant41-2663.40--40.69--13-PASS

1-N66-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant41-5875.50--46.81--13-PASS

1-N66-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant41-18680.80--43.75--1

3-PASS

Field Strength of Spurious Radiation

SA Band 66 ANT41-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3424.0	-65.89	-13	-52.89	-70.51	3.36	7.98	Horizontal	Pass
5136.0	-56.97	-13	-43.97	-62.58	4.61	10.22	Horizontal	Pass
6848.0	-61.45	-13	-48.45	-67.49	4.9	10.94	Horizontal	Pass
3424.0	-60.31	-13	-47.31	-64.93	3.36	7.98	Vertical	Pass
5136.0	-57.43	-13	-44.43	-63.04	4.61	10.22	Vertical	Pass
6848.0	-61.37	-13	-48.37	-67.41	4.9	10.94	Vertical	Pass

SA Band 66 ANT41-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3454.0	-64.57	-13	-51.57	-69.25	3.38	8.06	Horizontal	Pass
5181.0	-55.27	-13	-42.27	-60.89	4.63	10.25	Horizontal	Pass
6908.0	-61.43	-13	-48.43	-67.53	4.91	11.01	Horizontal	Pass
3454.0	-64.18	-13	-51.18	-68.86	3.38	8.06	Vertical	Pass
5181.0	-54.13	-13	-41.13	-59.75	4.63	10.25	Vertical	Pass
6908.0	-61.82	-13	-48.82	-67.92	4.91	11.01	Vertical	Pass

SA Band 66 ANT41-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3484.0	-64.7	-13	-51.7	-69.44	3.39	8.13	Horizontal	Pass
5226.0	-55.01	-13	-42.01	-60.65	4.64	10.28	Horizontal	Pass
6968.0	-61.73	-13	-48.73	-67.91	4.91	11.09	Horizontal	Pass
3484.0	-64.2	-13	-51.2	-68.94	3.39	8.13	Vertical	Pass
5226.0	-58.11	-13	-45.11	-63.75	4.64	10.28	Vertical	Pass
6968.0	-61.88	-13	-48.88	-68.06	4.91	11.09	Vertical	Pass

DC_7A_n66A-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3424.0	-67.04	-13	-54.04	-71.66	3.36	7.98	Horizontal	Pass
5136.0	-62.42	-13	-49.42	-68.03	4.61	10.22	Horizontal	Pass
6848.0	-61.79	-13	-48.79	-67.83	4.9	10.94	Horizontal	Pass
3424.0	-62.31	-13	-49.31	-66.93	3.36	7.98	Vertical	Pass
5136.0	-63.97	-13	-50.97	-69.58	4.61	10.22	Vertical	Pass
6848.0	-62.35	-13	-49.35	-68.39	4.9	10.94	Vertical	Pass

DC_7A_n66A -Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3454.0	-64.68	-13	-51.68	-69.36	3.38	8.06	Horizontal	Pass
5181.0	-60.05	-13	-47.05	-65.67	4.63	10.25	Horizontal	Pass
6908.0	-61.5	-13	-48.5	-67.6	4.91	11.01	Horizontal	Pass
3454.0	-62.15	-13	-49.15	-66.83	3.38	8.06	Vertical	Pass
5181.0	-61.15	-13	-48.15	-66.77	4.63	10.25	Vertical	Pass
6908.0	-61.7	-13	-48.7	-67.8	4.91	11.01	Vertical	Pass

DC_7A_n66A -High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3484.0	-67.76	-13	-54.76	-72.5	3.39	8.13	Horizontal	Pass
5226.0	-60.12	-13	-47.12	-65.76	4.64	10.28	Horizontal	Pass
6968.0	-61.56	-13	-48.56	-67.74	4.91	11.09	Horizontal	Pass
3484.0	-64.32	-13	-51.32	-69.06	3.39	8.13	Vertical	Pass
5226.0	-61.34	-13	-48.34	-66.98	4.64	10.28	Vertical	Pass
6968.0	-61.96	-13	-48.96	-68.14	4.91	11.09	Vertical	Pass

Remark:

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

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	216@0	VH	NT	3.00	0.00	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	VN	NT	-8.80	-0.01	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	VL	NT	-6.70	0.00	PASS
N66	15	40	CP-QPSK	M	216@0	VH	NT	-4.60	0.00	PASS
N66	15	40	CP-QPSK	M	216@0	VN	NT	-5.30	0.00	PASS
N66	15	40	CP-QPSK	M	216@0	VL	NT	-5.90	0.00	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	216@0	NV	50	-4.300000	-0.002464	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	-20	-6.200000	-0.003553	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	-10	-2.300000	-0.001318	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	0	-7.900000	-0.004527	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	10	-5.000000	-0.002865	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	20	-7.200000	-0.004126	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	30	-5.300000	-0.003037	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	-30	-2.800000	-0.001605	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	40	1.200000	0.000688	PASS
N66	15	40	CP-QPSK	M	216@0	NV	50	-5.900000	-0.003381	PASS
N66	15	40	CP-QPSK	M	216@0	NV	-20	-1.000000	-0.000573	PASS
N66	15	40	CP-QPSK	M	216@0	NV	-10	-4.200000	-0.002407	PASS
N66	15	40	CP-QPSK	M	216@0	NV	0	-10.900000	-0.006246	PASS
N66	15	40	CP-QPSK	M	216@0	NV	10	-2.400000	-0.001375	PASS
N66	15	40	CP-QPSK	M	216@0	NV	20	-4.500000	-0.002579	PASS
N66	15	40	CP-QPSK	M	216@0	NV	30	-4.400000	-0.002521	PASS
N66	15	40	CP-QPSK	M	216@0	NV	40	1.600000	0.000917	PASS
N66	15	40	CP-QPSK	M	216@0	NV	-30	-10.800000	-0.006189	PASS

---End of Attachment---