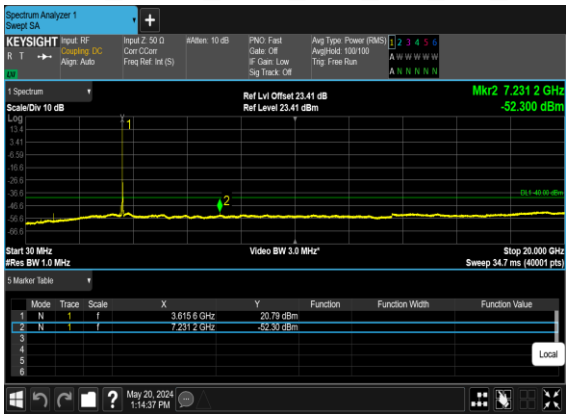
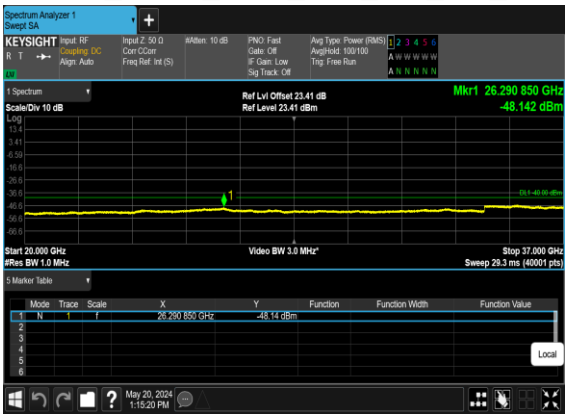
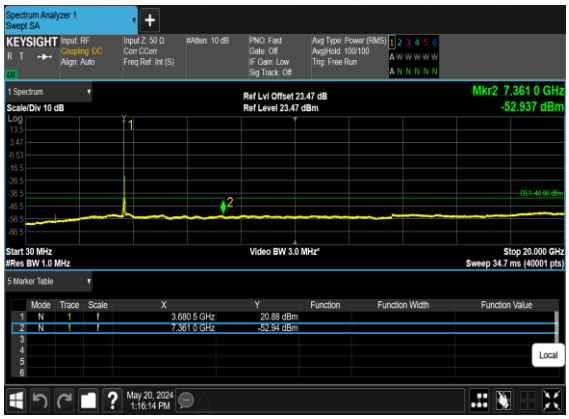
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



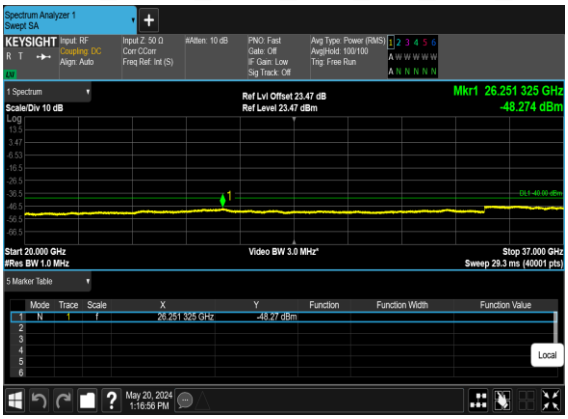
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



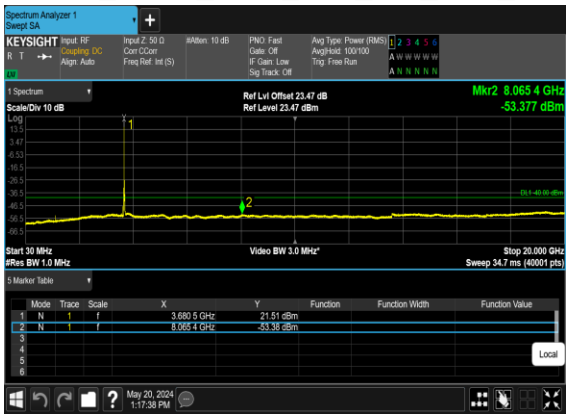
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

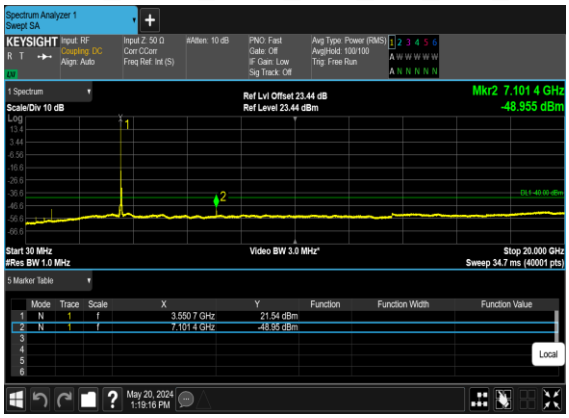


N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

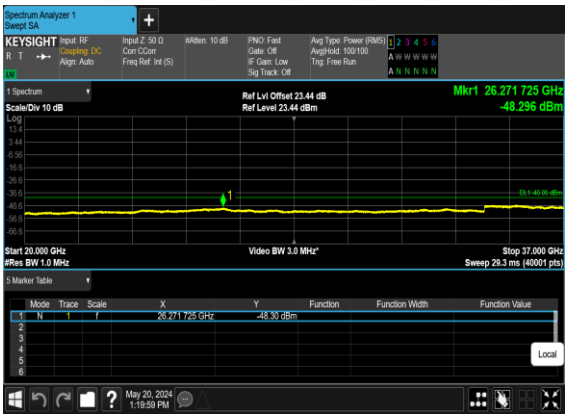


N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

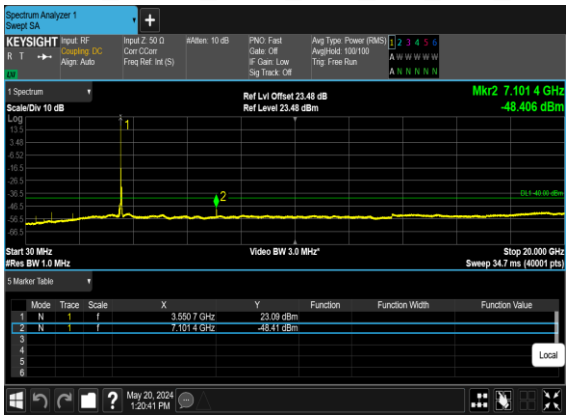
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



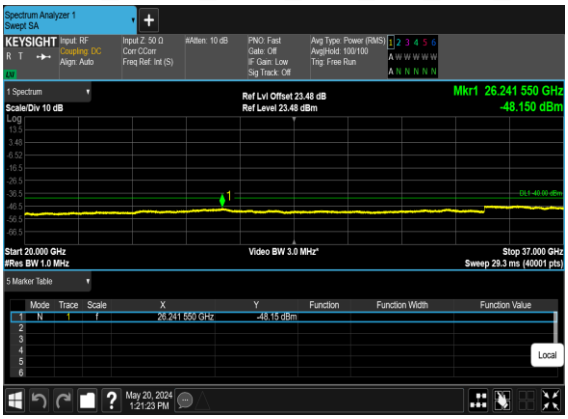
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



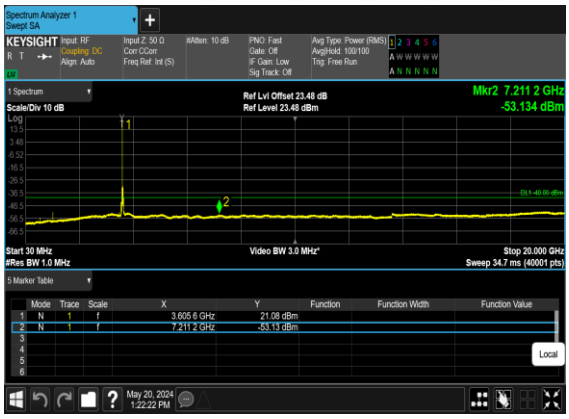
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

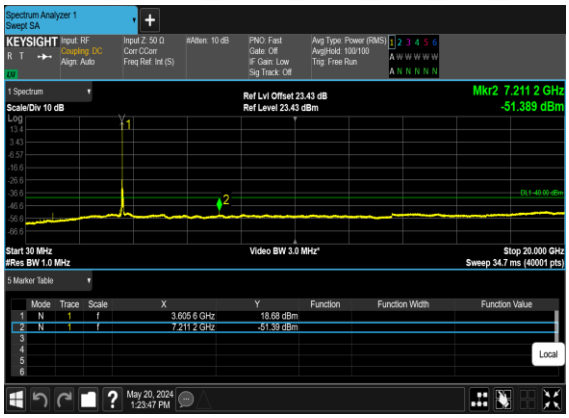


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

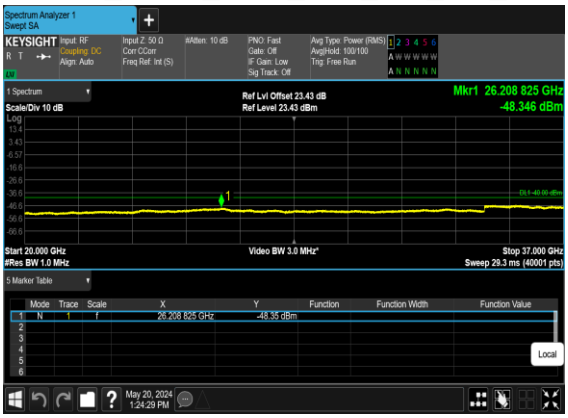


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

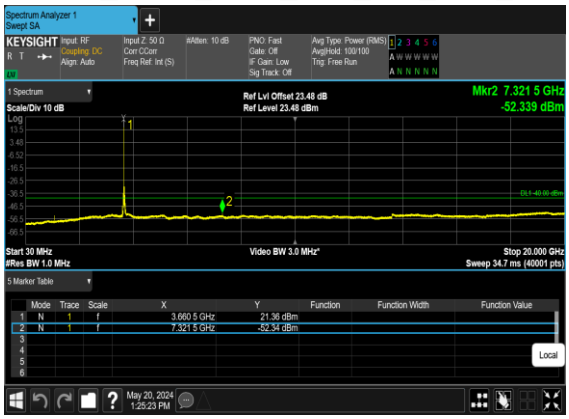
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



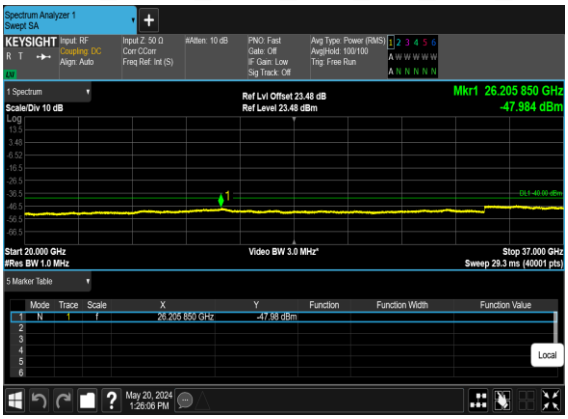
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



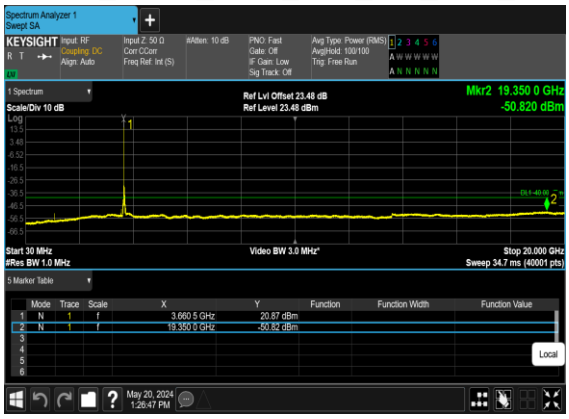
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



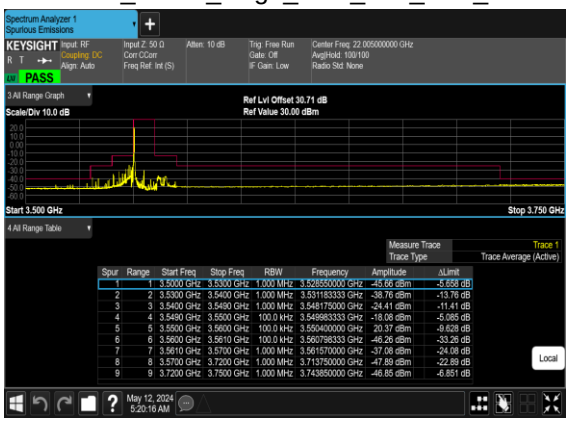
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Conducted Band Edge

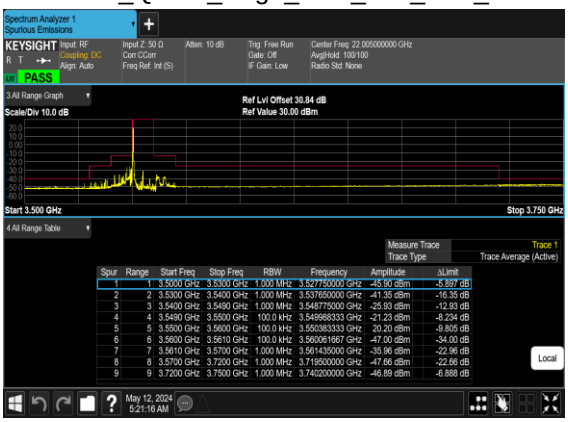
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	**PASS**

48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	216@0	see graph	**PASS**

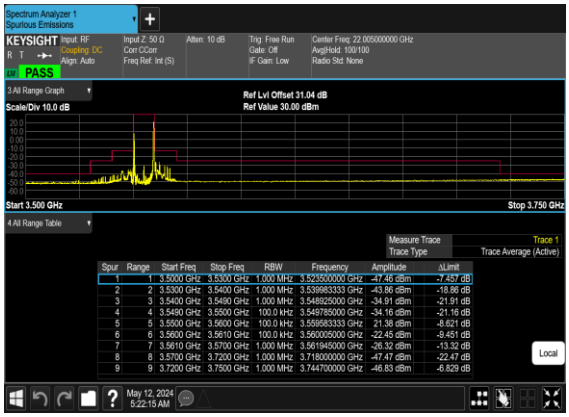
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



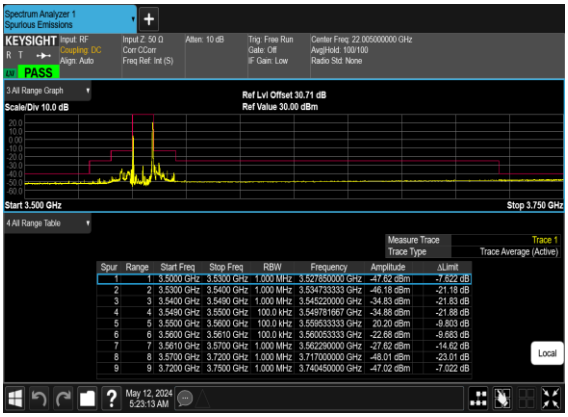
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



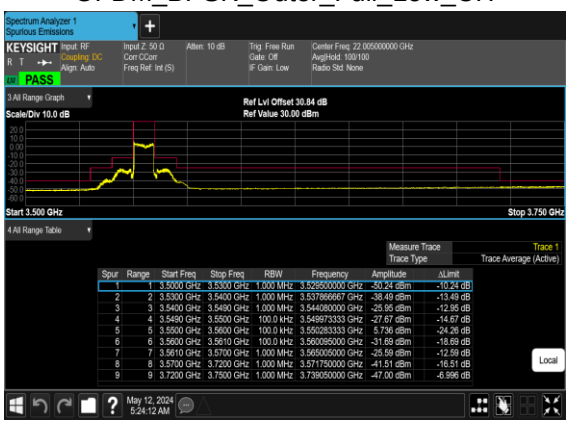
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



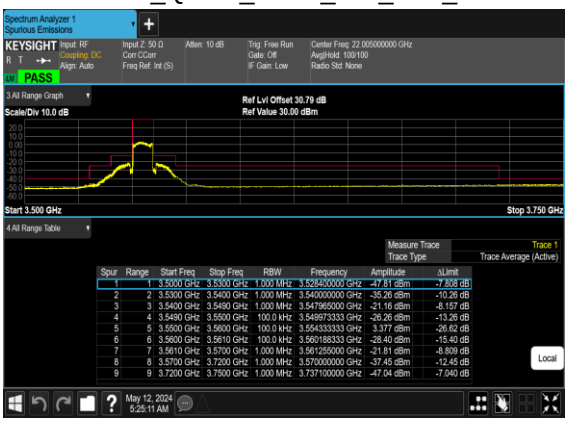
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



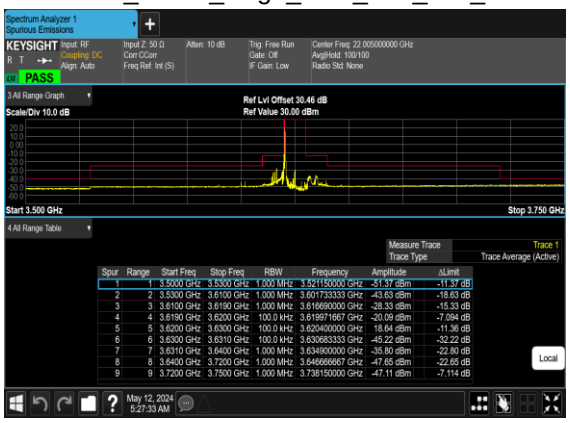
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



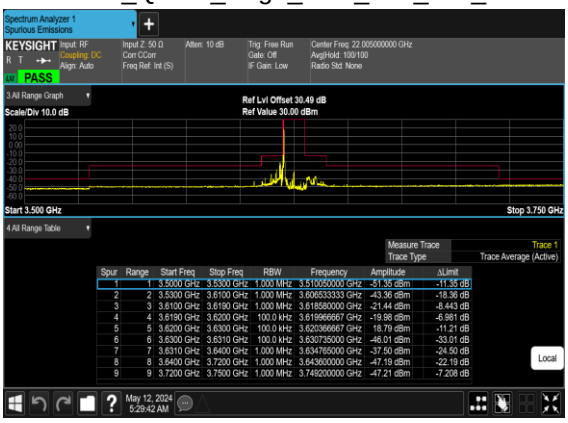
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



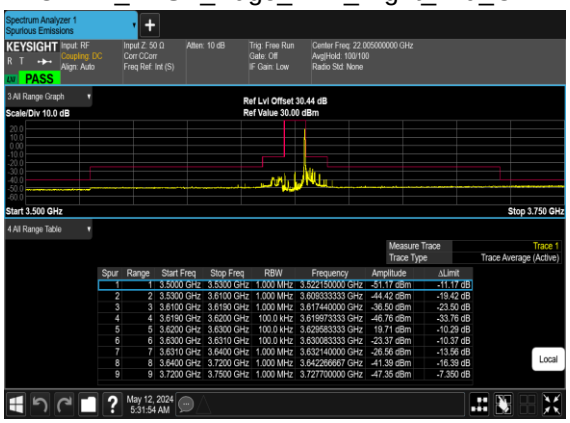
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



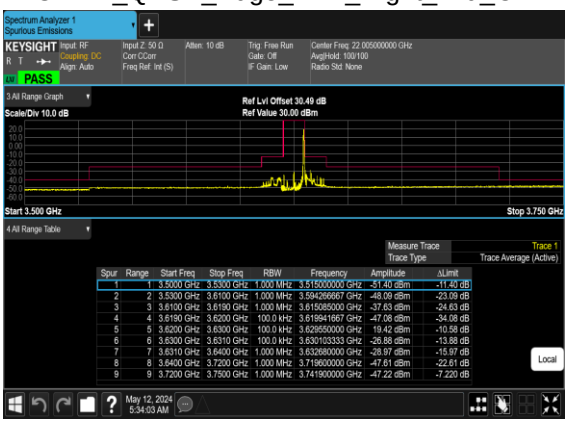
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



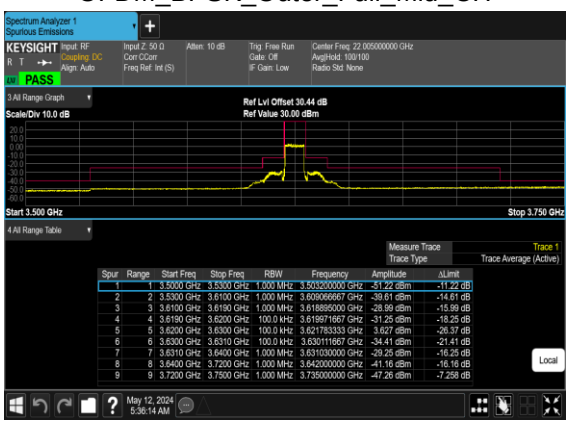
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



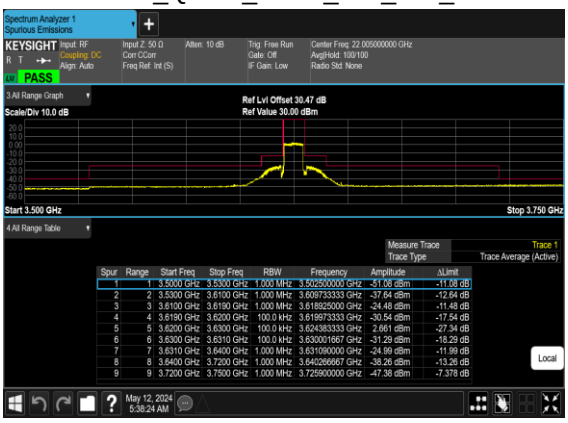
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



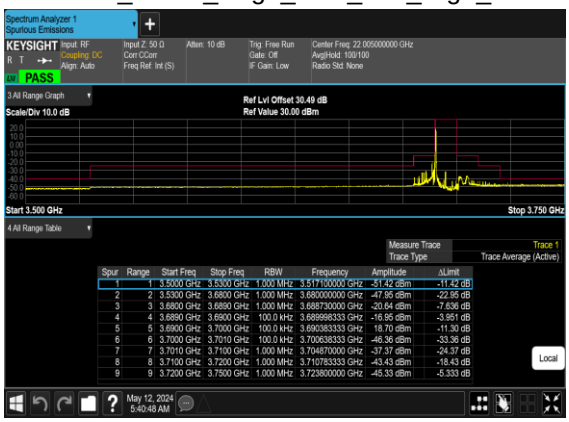
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



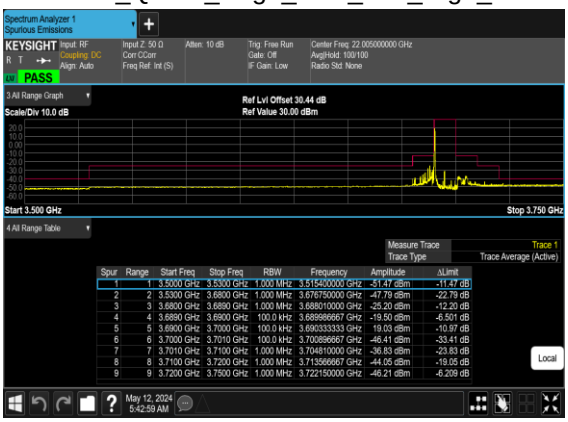
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



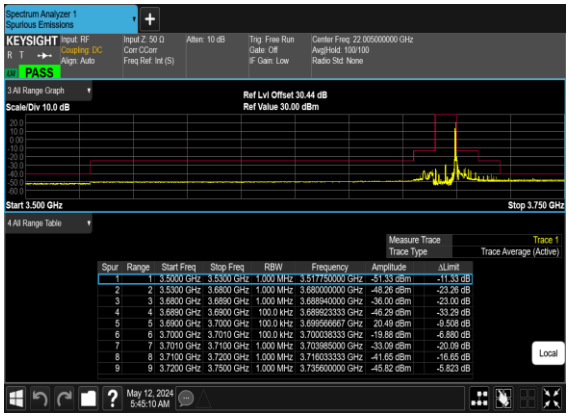
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



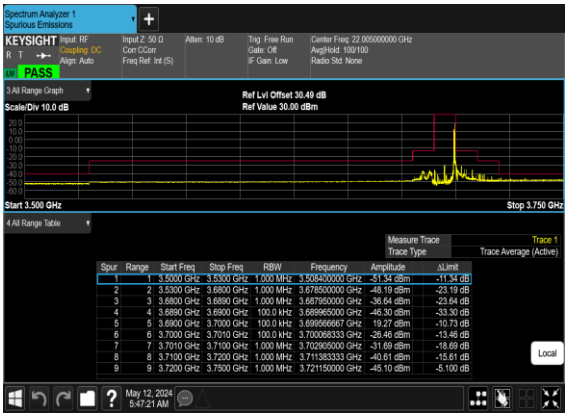
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



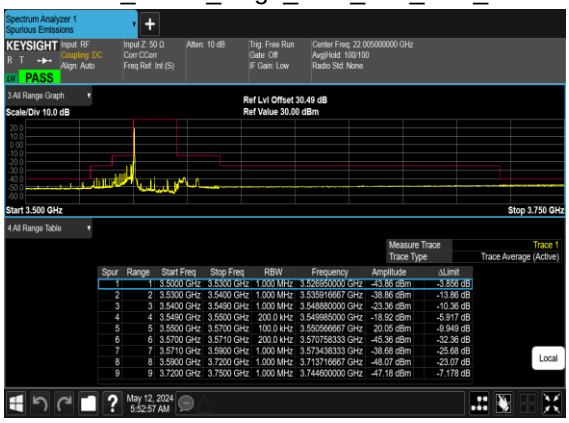
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



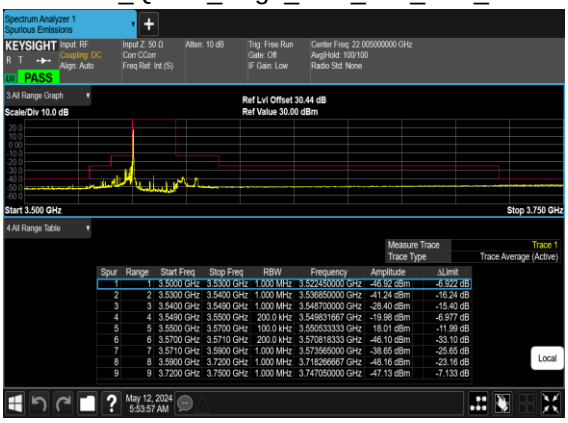
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

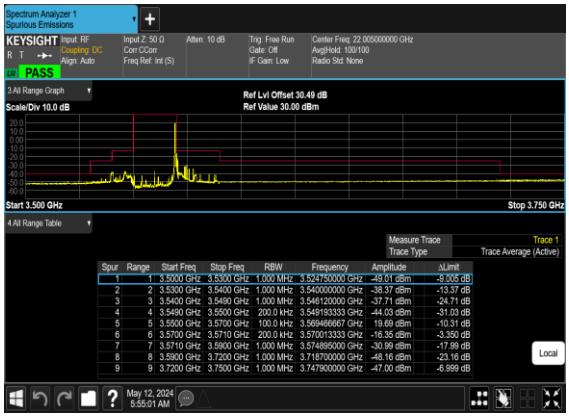
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



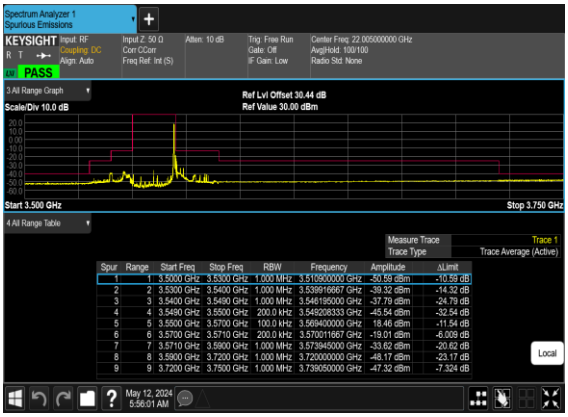
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



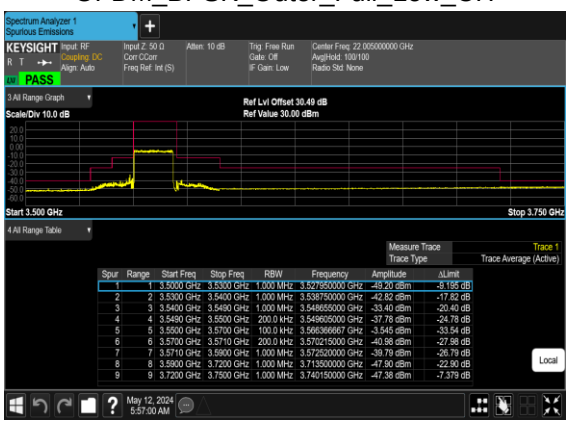
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



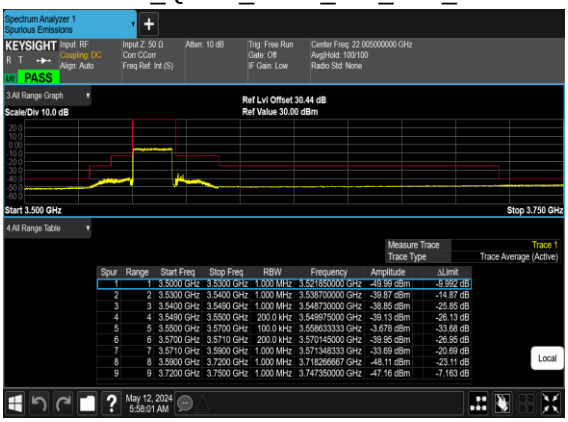
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



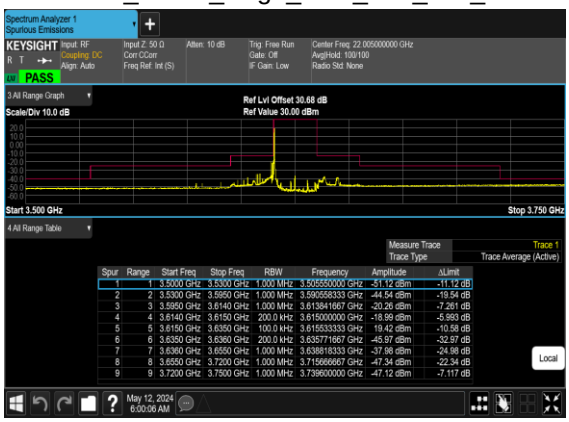
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



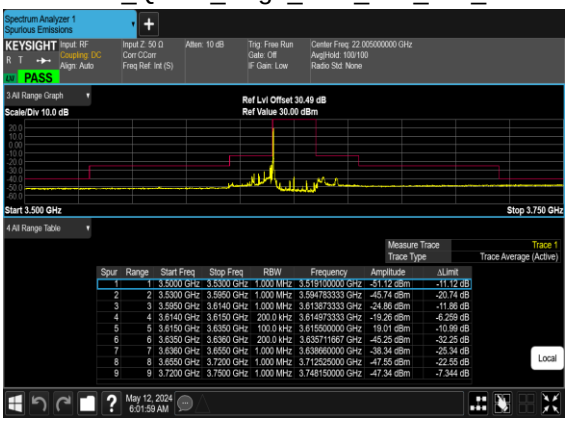
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



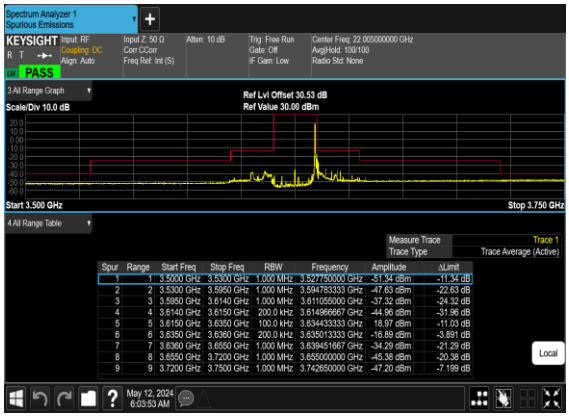
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



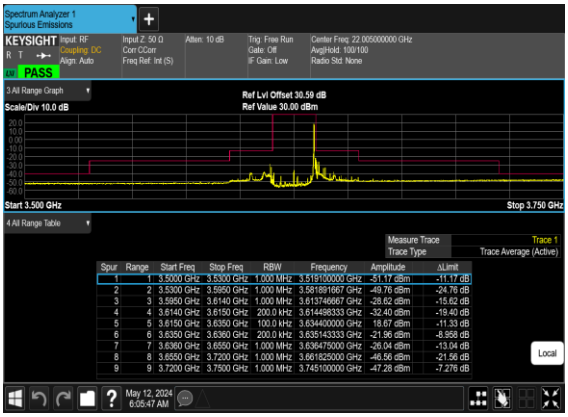
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



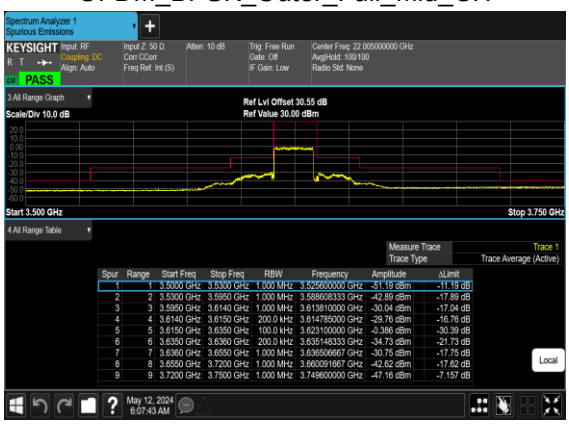
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



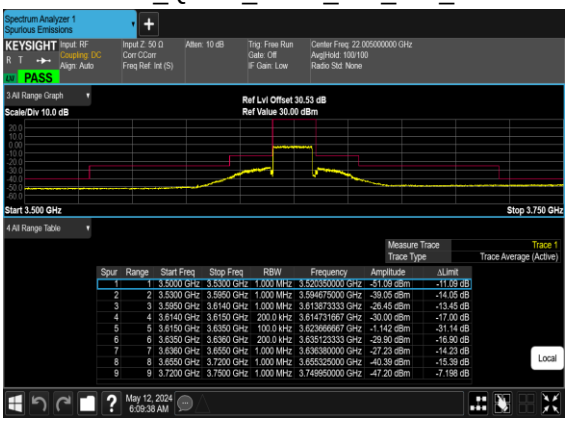
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



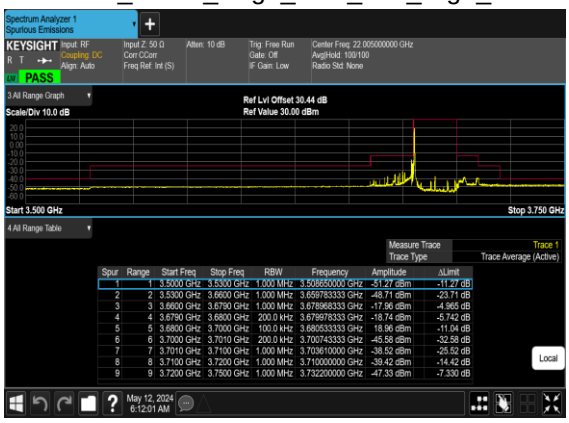
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



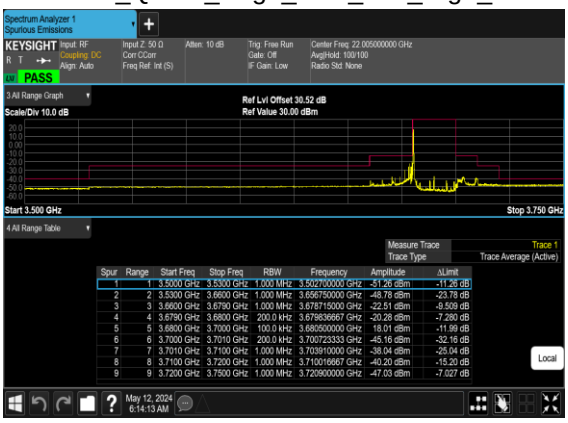
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



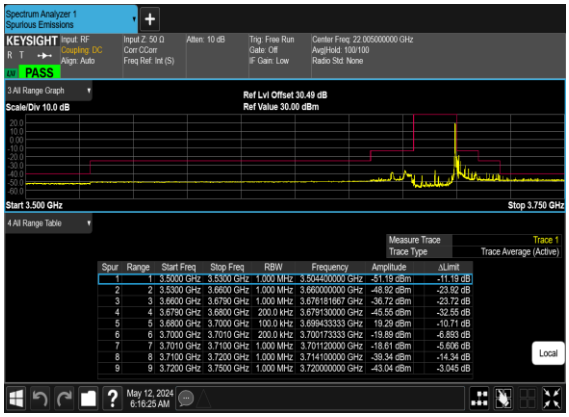
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



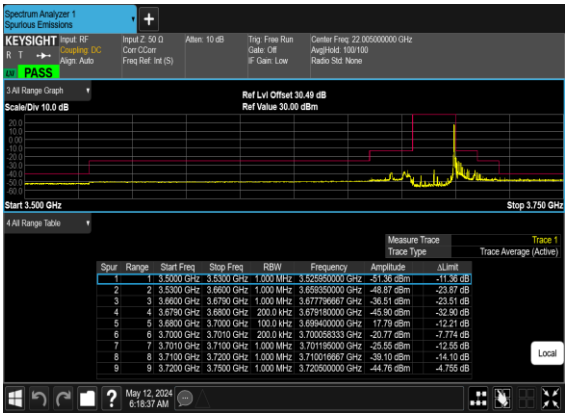
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



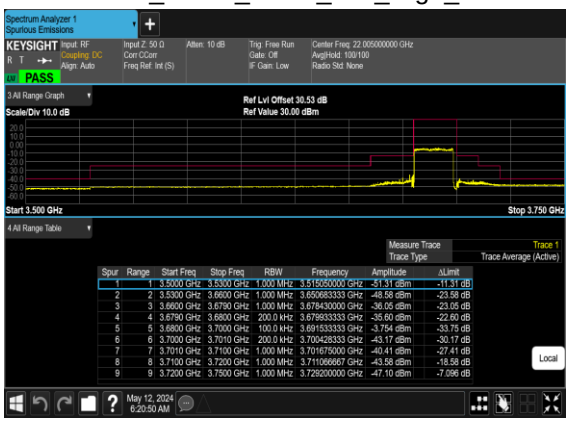
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



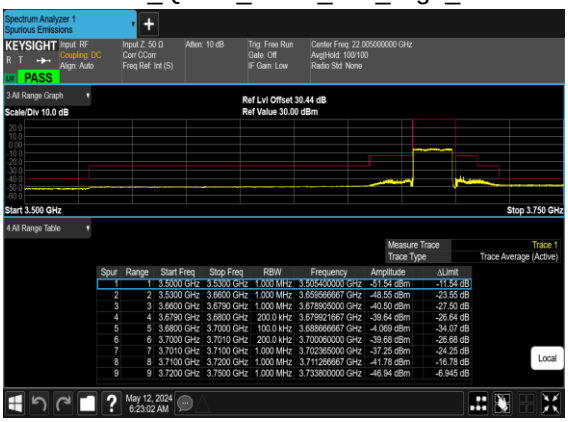
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



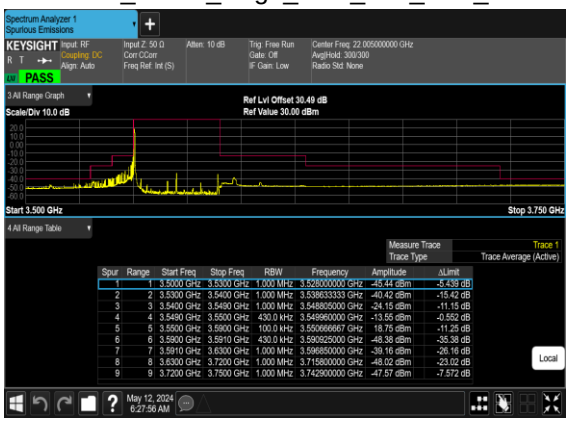
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

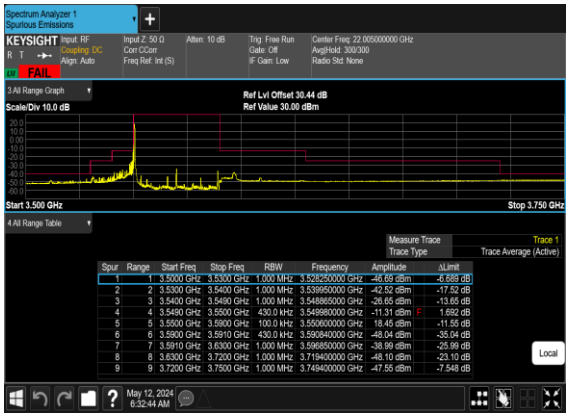


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



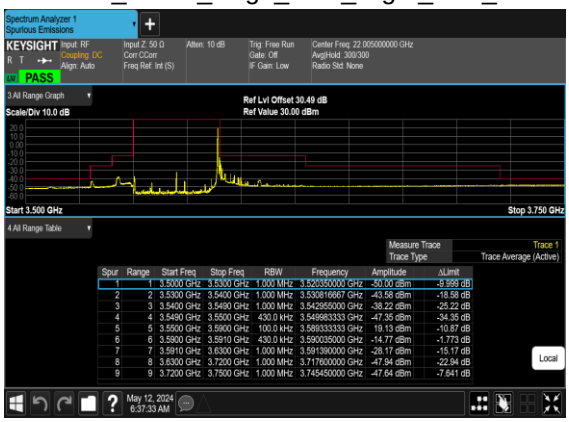
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**

N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

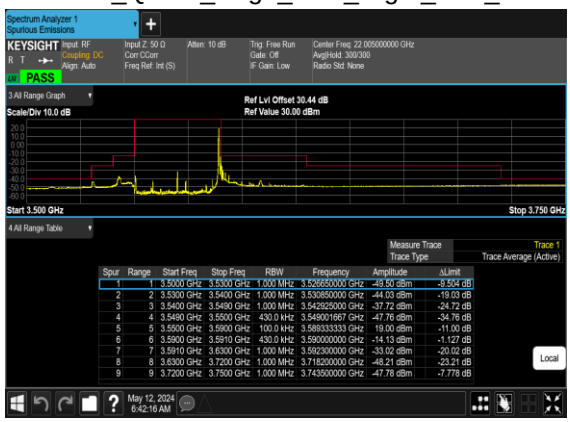


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**

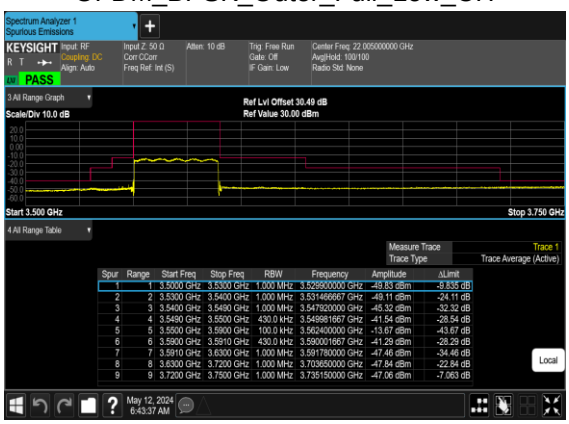
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



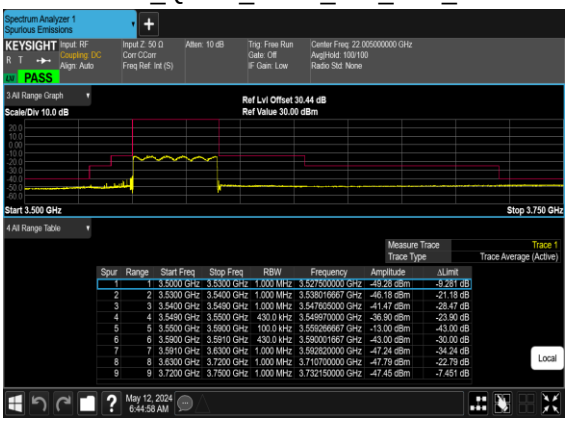
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



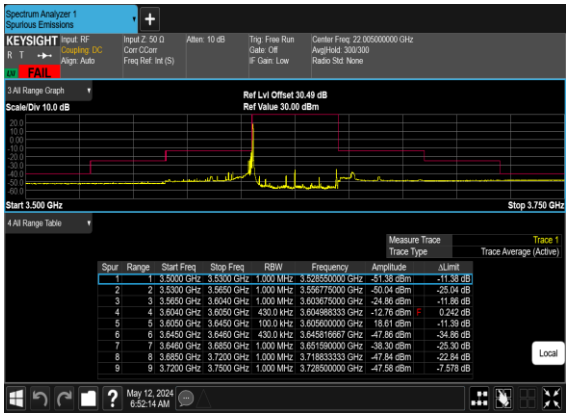
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

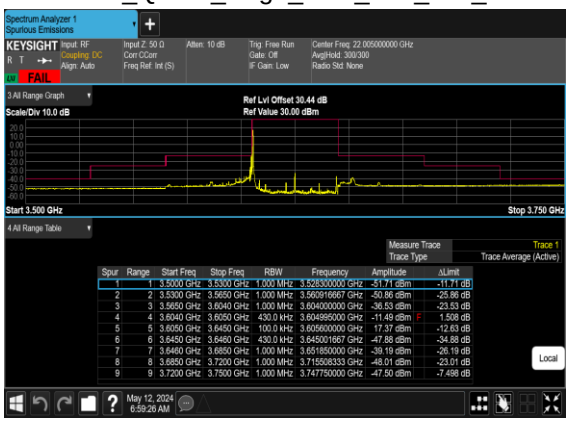


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



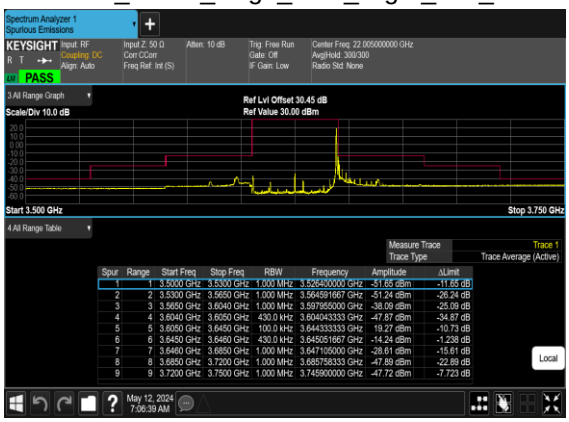
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH_**CHP_PASS**

N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

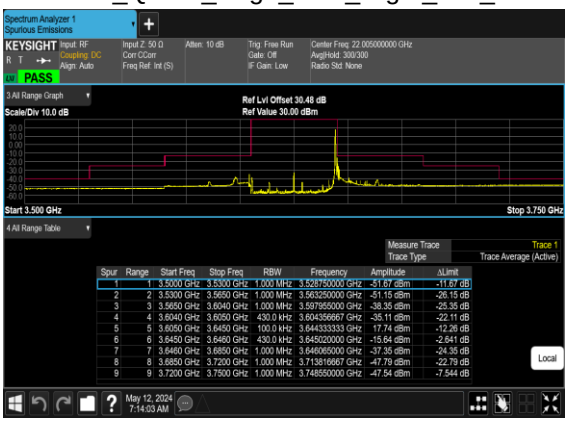


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH_**CHP_PASS**

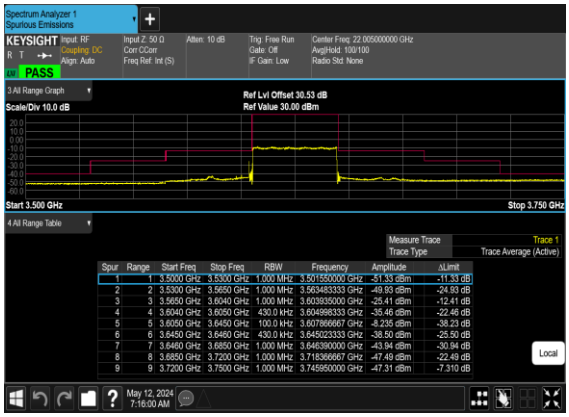
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



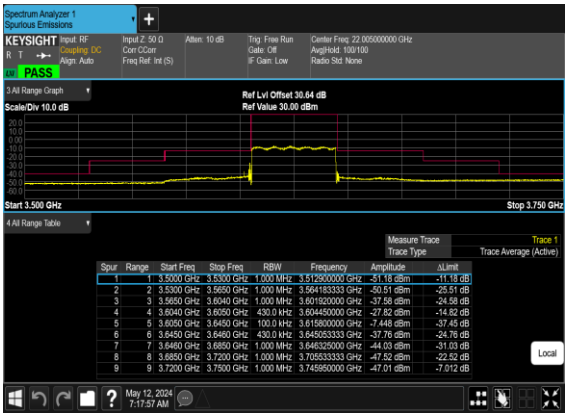
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



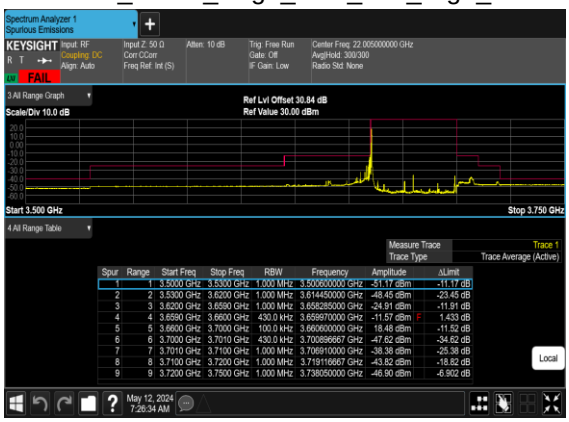
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

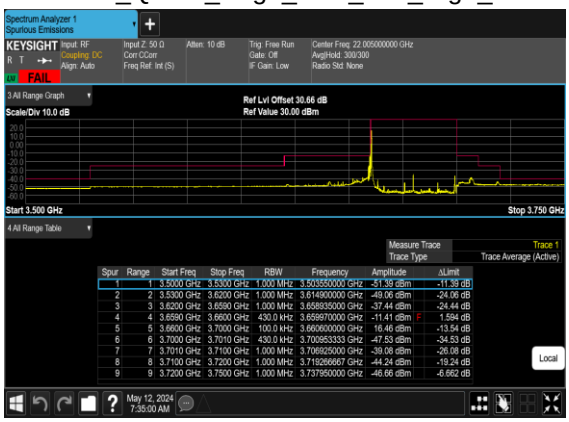


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



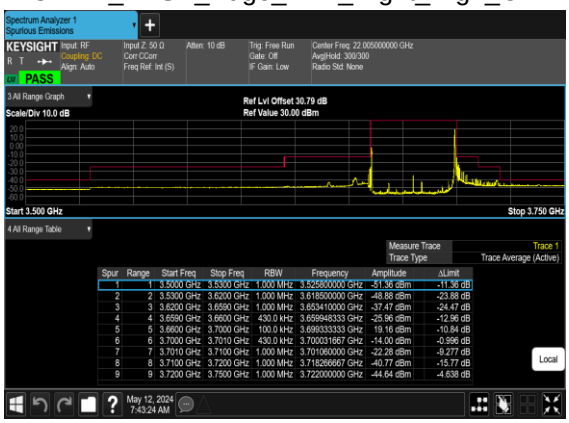
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH_**CHP_PASS**

N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

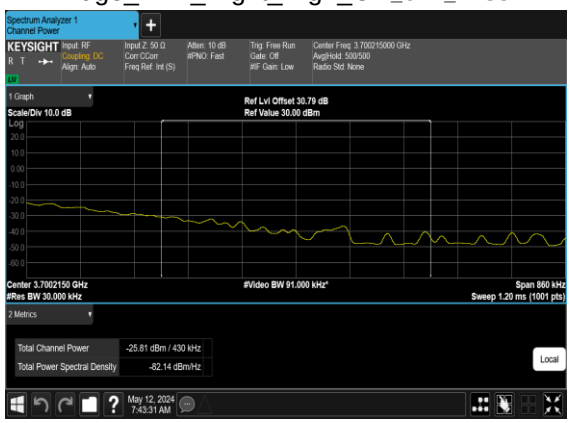


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH_**CHP_PASS**

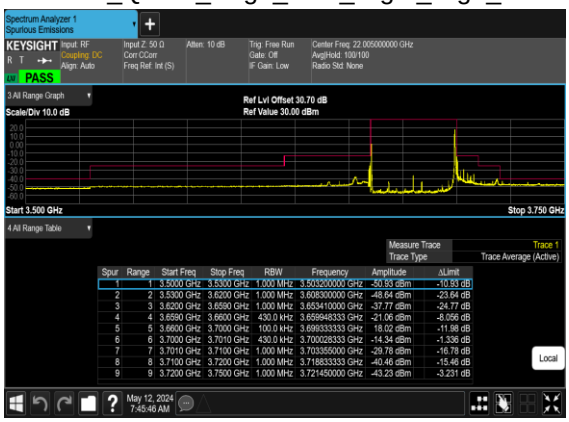
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



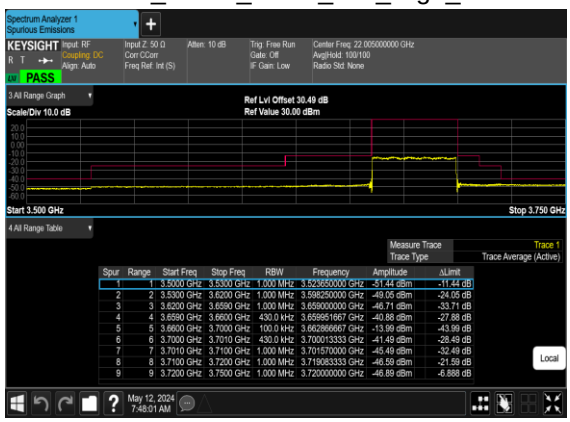
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_**CHP_PASS**



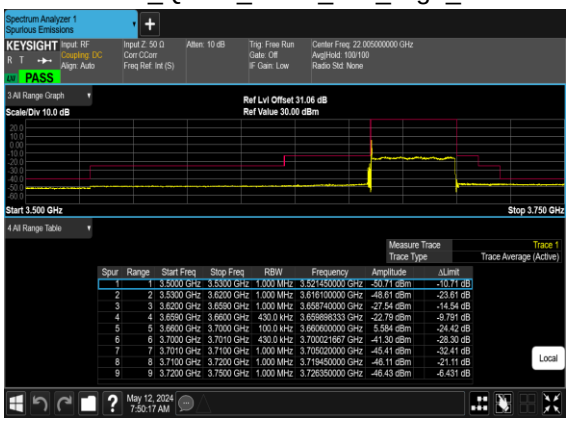
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.521450000 GHz	-50.71 dBm	-10.71 dB
2	2	3.5300 GHz	3.6200 GHz	1.000 MHz	3.616100000 GHz	-48.61 dBm	-23.61 dB
3	3	3.6200 GHz	3.6590 GHz	1.000 MHz	3.658740000 GHz	-27.54 dBm	-14.54 dB
4	4	3.6590 GHz	3.6600 GHz	430.0 kHz	3.659898333 GHz	-22.79 dBm	-9.791 dB
5	5	3.6600 GHz	3.7000 GHz	100.0 kHz	3.660600000 GHz	5.584 dBm	-24.42 dB
6	6	3.7000 GHz	3.7010 GHz	430.0 kHz	3.700021667 GHz	-41.30 dBm	-28.30 dB
7	7	3.7010 GHz	3.7100 GHz	1.000 MHz	3.705020000 GHz	-45.41 dBm	-32.41 dB
8	8	3.7100 GHz	3.7200 GHz	1.000 MHz	3.719450000 GHz	-46.11 dBm	-21.11 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.726350000 GHz	-46.43 dBm	-6.431 dB

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Shunping You	**Temperature :**	22~25℃
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

5G NR n48 / 40MHz / QPSK / Ant.6									
Channel	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Over Limit (dB)**	**SPA Reading (dBm)**	**S.G. Power (dBm)**	**TX Cable loss (dB)**	**TX Antenna Gain (dBi)**	**Polarization (H/V)**
Middle	7212.80	-55.29	-40	-15.29	-51.91	-58.59	8.30	11.60	H
	10819.20	-53.87	-40	-13.87	-56.83	-55.39	10.48	12.00	H
	14425.60	-47.69	-40	-7.69	-54.95	-49.39	11.80	13.50	H
	7212.80	-56.28	-40	-16.28	-52.94	-59.58	8.30	11.60	V
	10819.20	-54.03	-40	-14.03	-56.76	-55.55	10.48	12.00	V
	14425.60	-46.90	-40	-6.90	-53.94	-48.60	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.