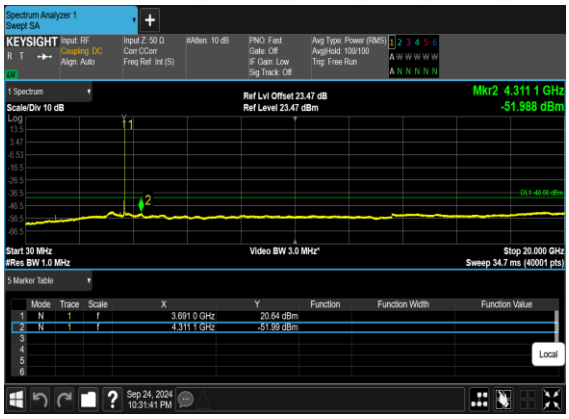
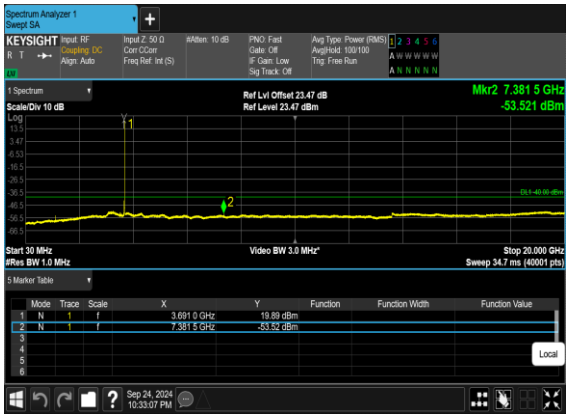
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

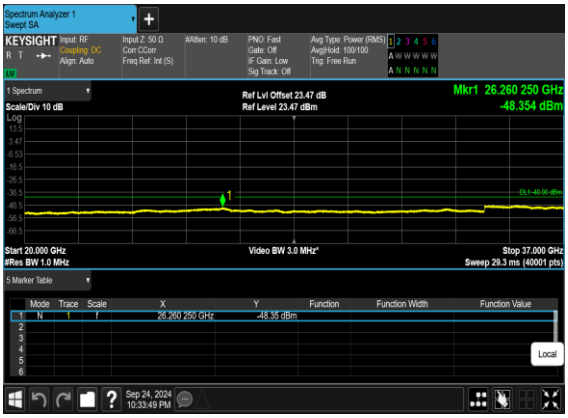


N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

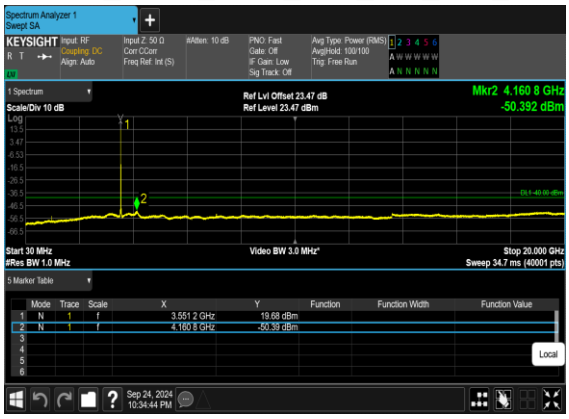
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



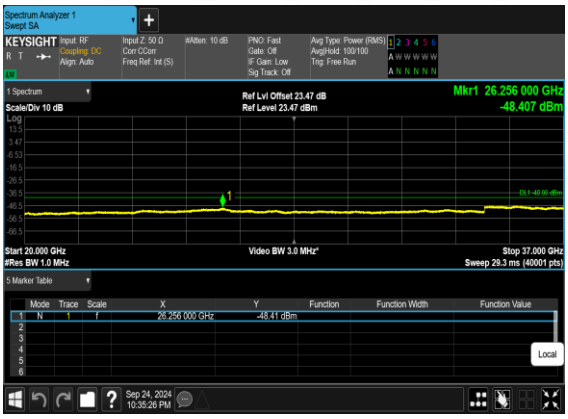
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



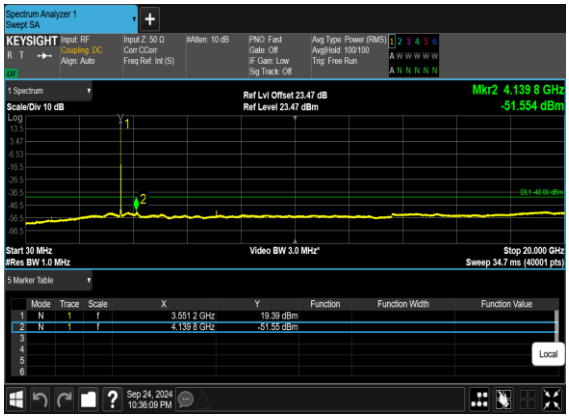
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



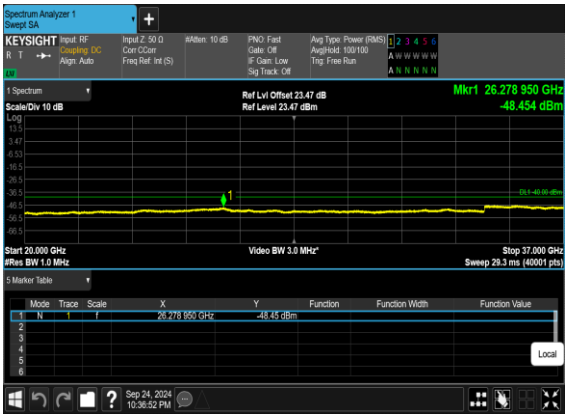
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



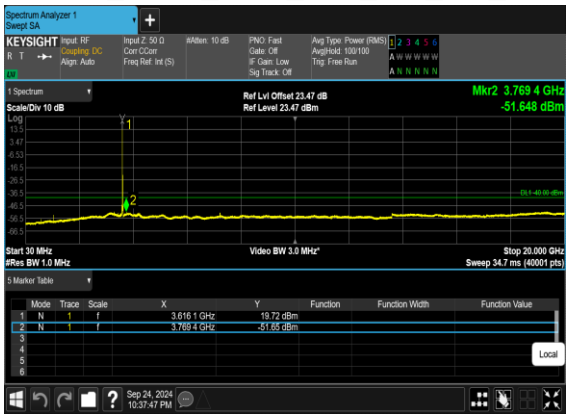
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



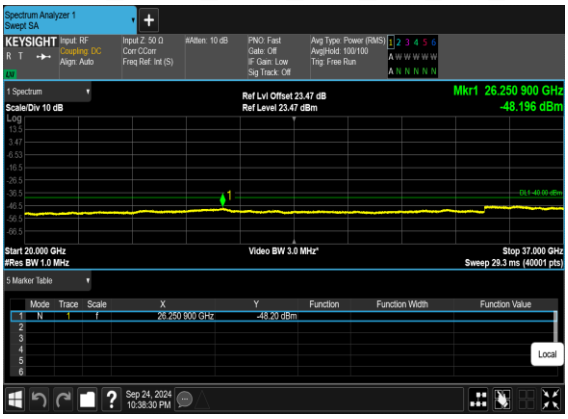
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



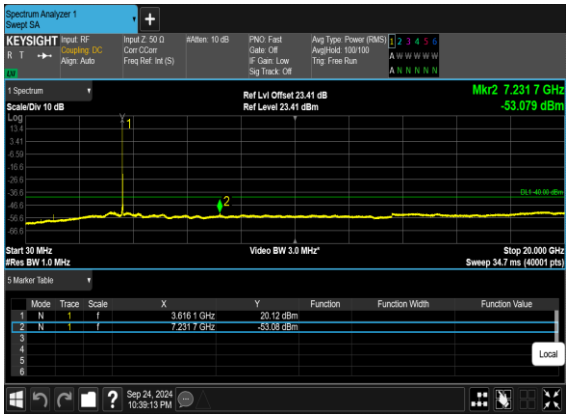
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



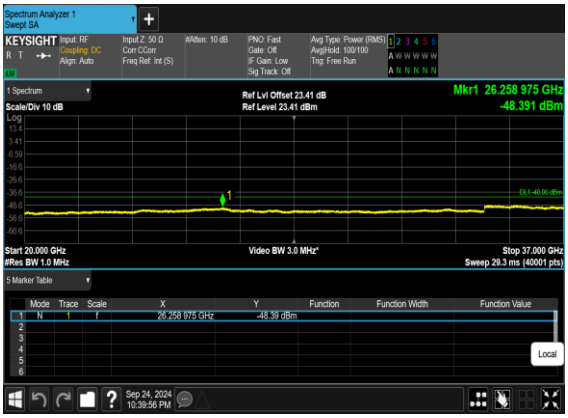
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



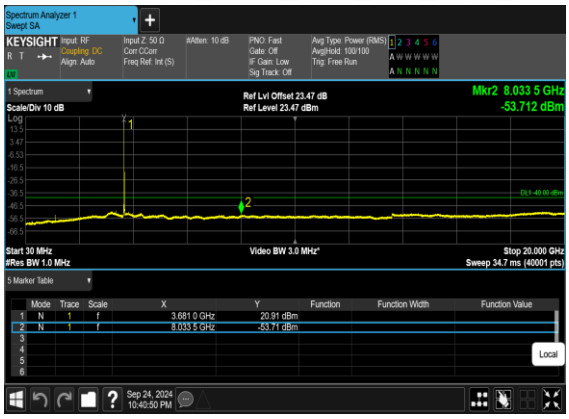
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

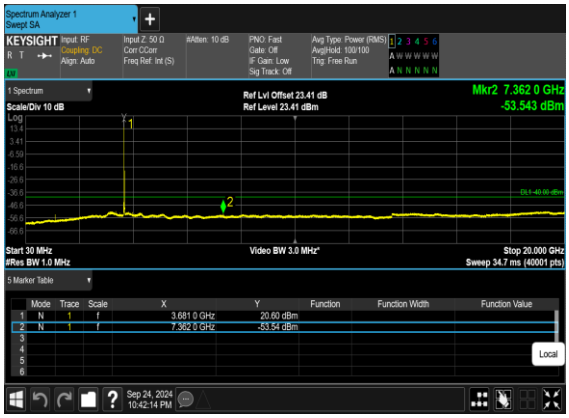


N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

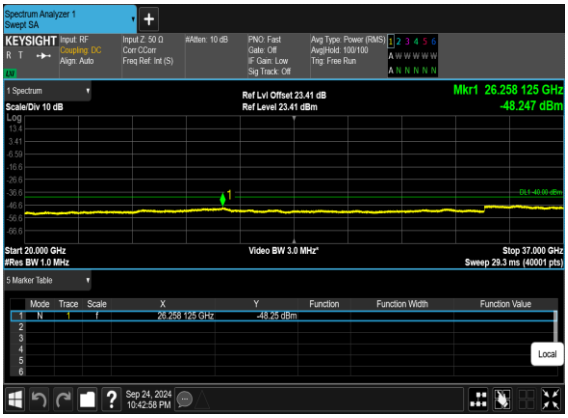


N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

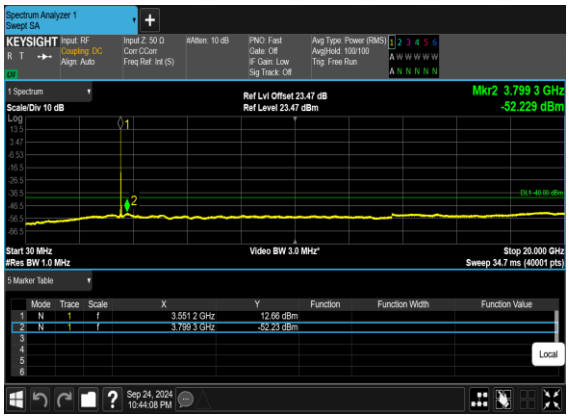
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



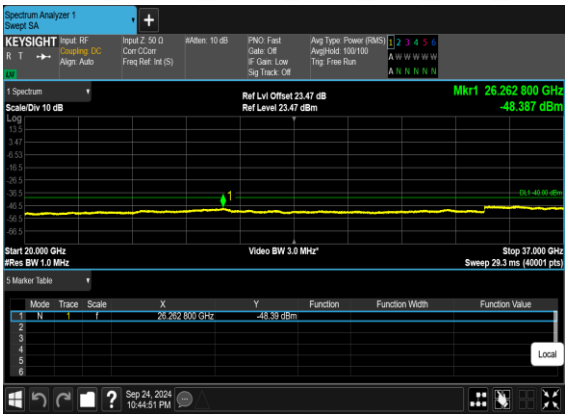
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



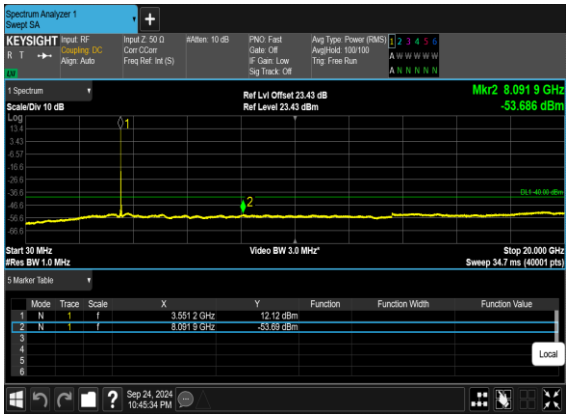
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



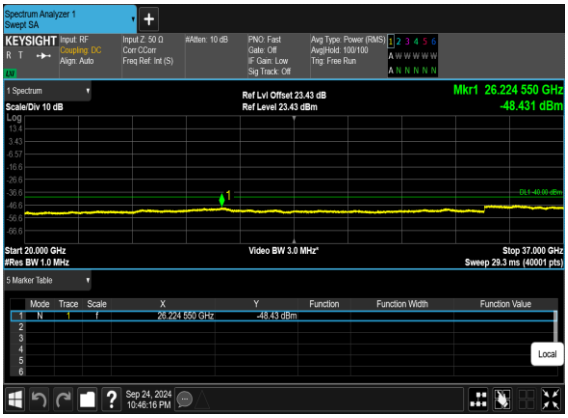
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



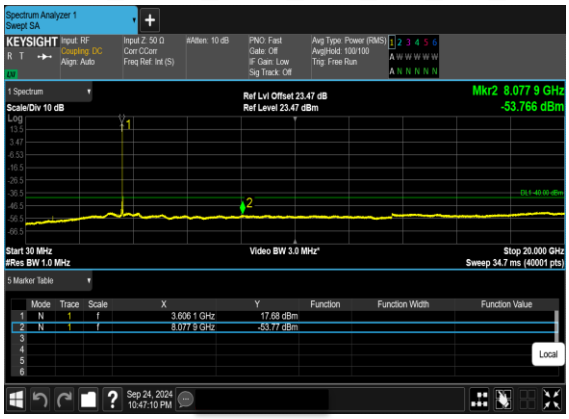
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



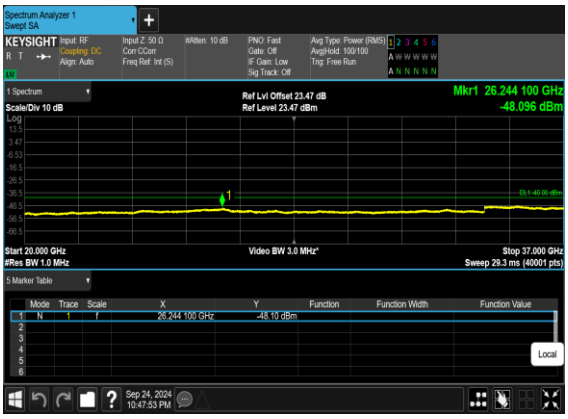
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



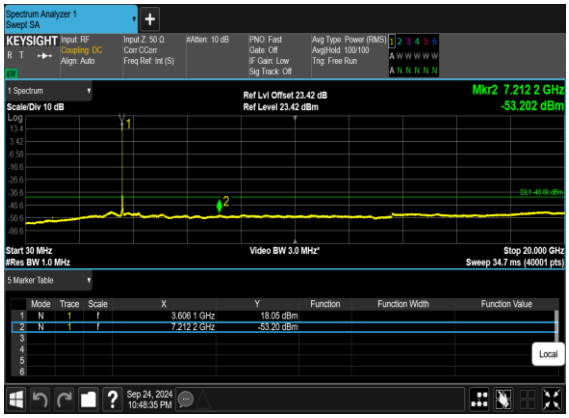
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



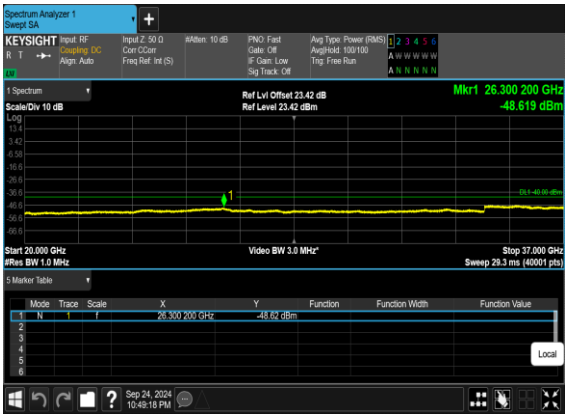
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



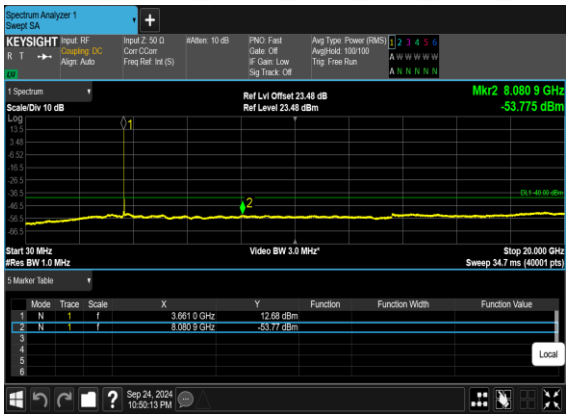
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



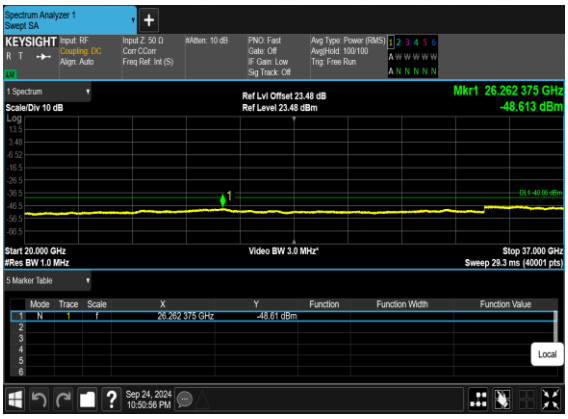
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



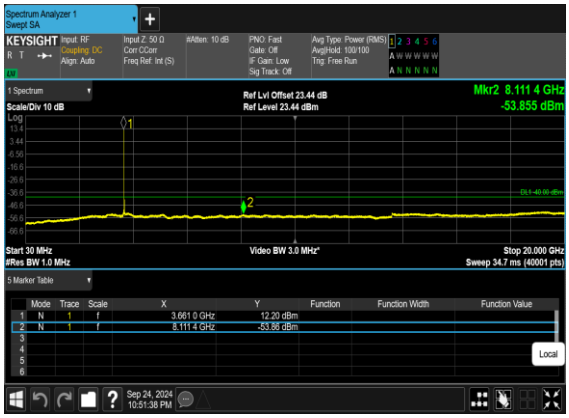
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



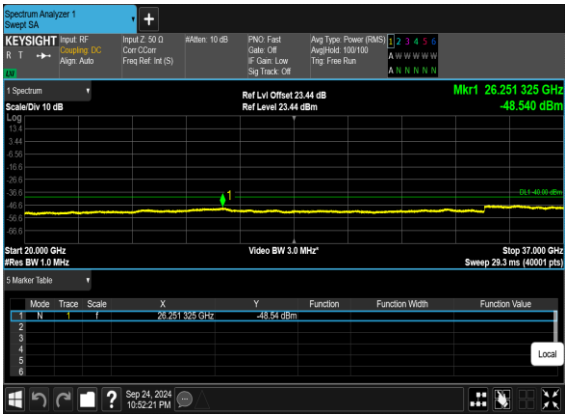
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



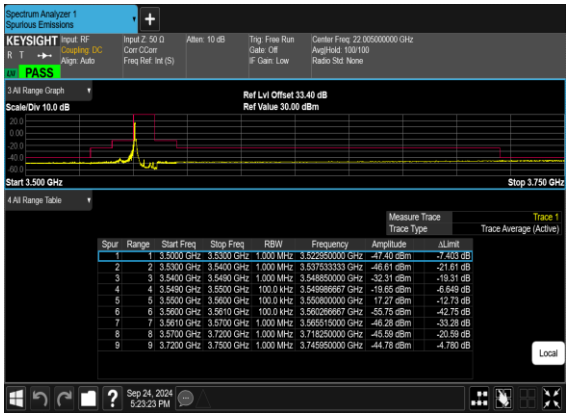
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM	1@50	see graph	**PASS**

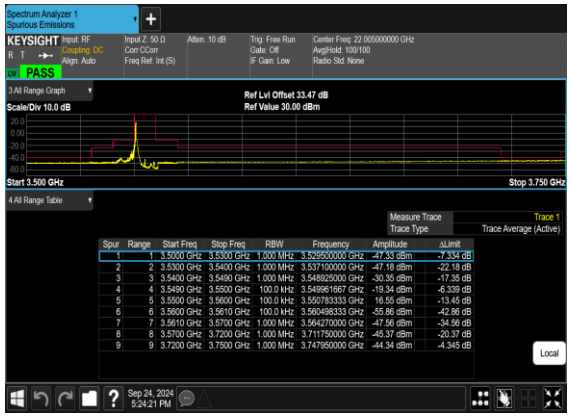
					BPSK			
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@50	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@50	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**

48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	see graph	**PASS**

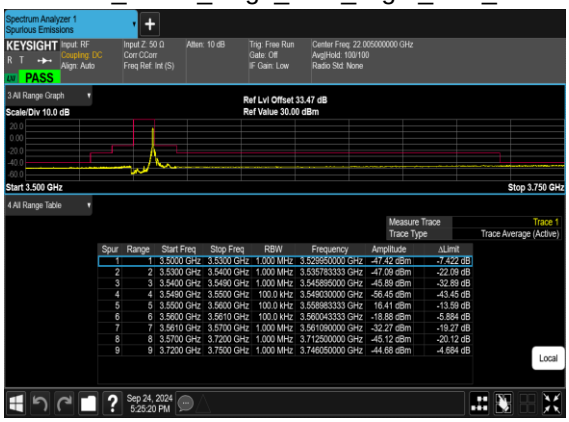
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



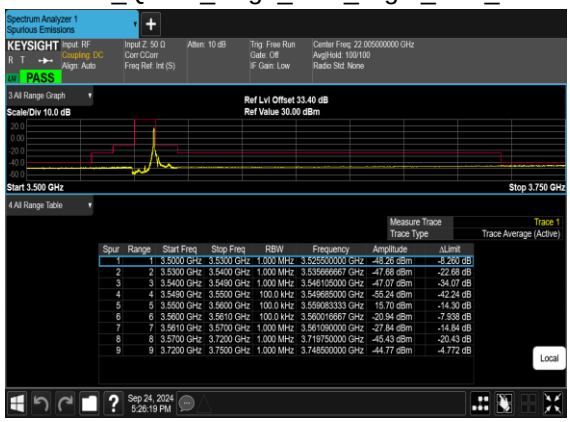
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



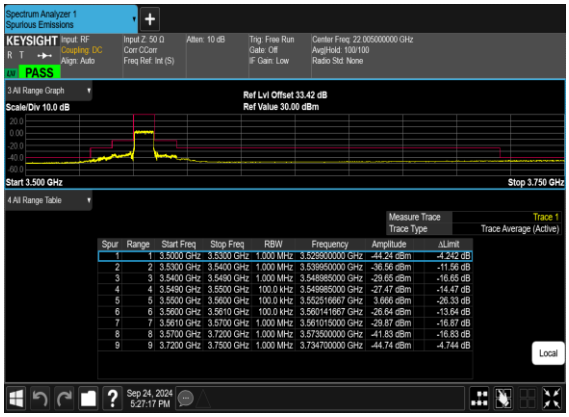
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



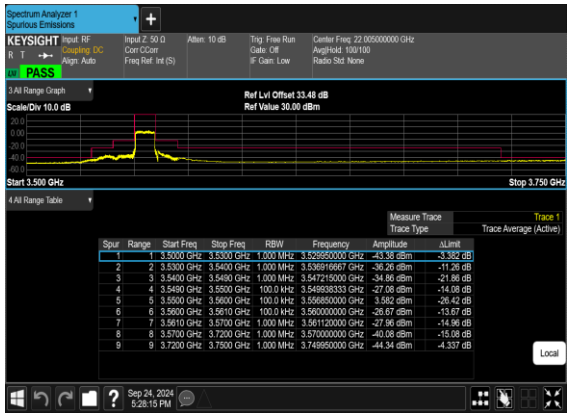
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



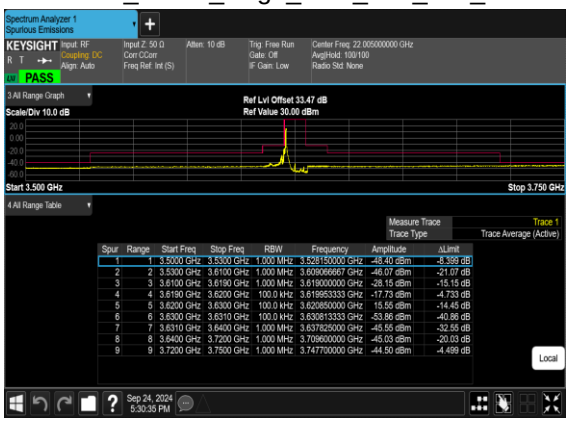
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



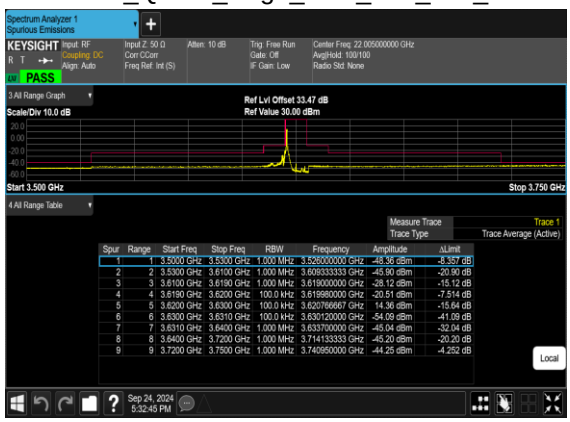
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



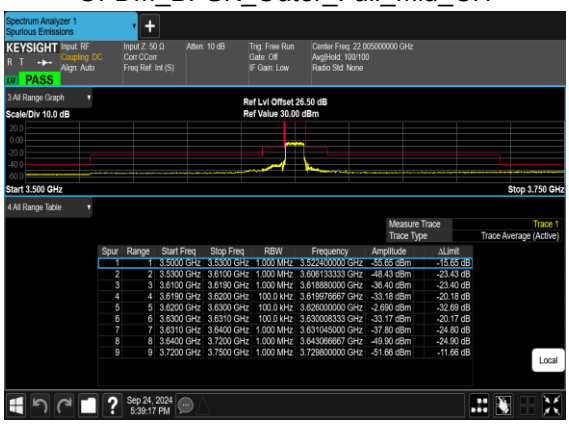
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.517500000 GHz	-48.57 dBm	-8.566 dB
2	2	3.5300 GHz	3.6100 GHz	1.000 MHz	3.606266667 GHz	-45.22 dBm	-20.22 dB
3	3	3.6100 GHz	3.6190 GHz	1.000 MHz	3.615880000 GHz	-45.04 dBm	-32.04 dB
4	4	3.6190 GHz	3.6200 GHz	100.0 kHz	3.619781667 GHz	-54.45 dBm	-41.45 dB
5	5	3.6200 GHz	3.6300 GHz	100.0 kHz	3.629033333 GHz	15.99 dBm	-14.01 dB
6	6	3.6300 GHz	3.6310 GHz	100.0 kHz	3.630000000 GHz	-20.76 dBm	-7.757 dB
7	7	3.6310 GHz	3.6400 GHz	1.000 MHz	3.631270000 GHz	-29.81 dBm	-16.81 dB
8	8	3.6400 GHz	3.7200 GHz	1.000 MHz	3.716800000 GHz	-45.18 dBm	-20.18 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.745000000 GHz	-44.79 dBm	-4.787 dB

N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

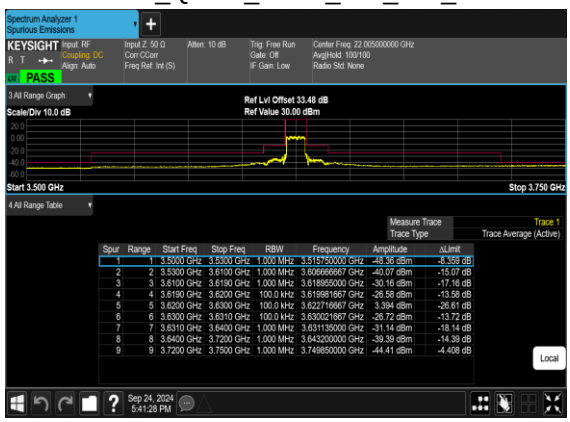
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.526250000 GHz	-48.42 dBm	-8.417 dB
2	2	3.5300 GHz	3.6100 GHz	1.000 MHz	3.599733333 GHz	-46.07 dBm	-21.07 dB
3	3	3.6100 GHz	3.6190 GHz	1.000 MHz	3.618430000 GHz	-45.81 dBm	-32.81 dB
4	4	3.6190 GHz	3.6200 GHz	100.0 kHz	3.619721667 GHz	-54.06 dBm	-41.06 dB
5	5	3.6200 GHz	3.6300 GHz	100.0 kHz	3.629116667 GHz	15.94 dBm	-14.06 dB
6	6	3.6300 GHz	3.6310 GHz	100.0 kHz	3.630003333 GHz	-20.71 dBm	-7.713 dB
7	7	3.6310 GHz	3.6400 GHz	1.000 MHz	3.631120000 GHz	-31.20 dBm	-18.20 dB
8	8	3.6400 GHz	3.7200 GHz	1.000 MHz	3.713600000 GHz	-45.19 dBm	-20.19 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.737450000 GHz	-44.63 dBm	-4.629 dB

N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



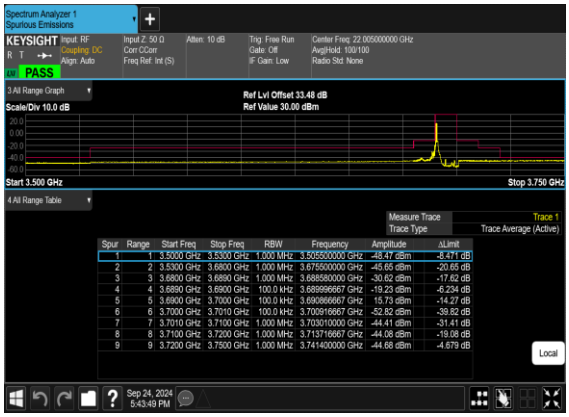
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.522400000 GHz	-55.65 dBm	-15.65 dB
2	2	3.5300 GHz	3.6100 GHz	1.000 MHz	3.606133333 GHz	-48.43 dBm	-23.43 dB
3	3	3.6100 GHz	3.6190 GHz	1.000 MHz	3.618880000 GHz	-36.40 dBm	-23.40 dB
4	4	3.6190 GHz	3.6200 GHz	100.0 kHz	3.619976667 GHz	-33.18 dBm	-20.18 dB
5	5	3.6200 GHz	3.6300 GHz	100.0 kHz	3.626500000 GHz	-2.690 dBm	-32.69 dB
6	6	3.6300 GHz	3.6310 GHz	100.0 kHz	3.630008333 GHz	-33.17 dBm	-20.17 dB
7	7	3.6310 GHz	3.6400 GHz	1.000 MHz	3.631045000 GHz	-37.80 dBm	-24.80 dB
8	8	3.6400 GHz	3.7200 GHz	1.000 MHz	3.643066667 GHz	-49.90 dBm	-24.90 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.729800000 GHz	-51.66 dBm	-11.66 dB

N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



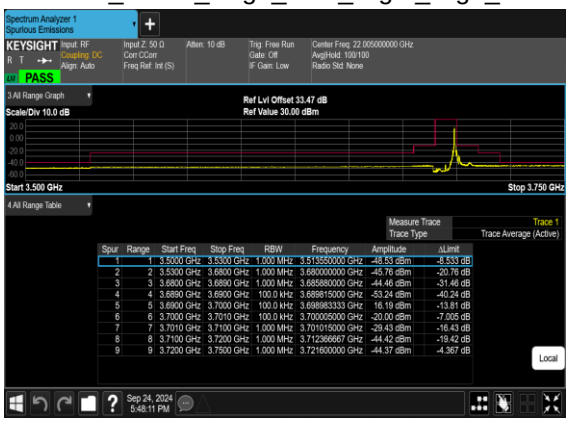
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.515750000 GHz	-48.36 dBm	-8.359 dB
2	2	3.5300 GHz	3.6100 GHz	1.000 MHz	3.606666667 GHz	-40.07 dBm	-15.07 dB
3	3	3.6100 GHz	3.6190 GHz	1.000 MHz	3.618955000 GHz	-30.16 dBm	-17.16 dB
4	4	3.6190 GHz	3.6200 GHz	100.0 kHz	3.619981667 GHz	-26.58 dBm	-13.58 dB
5	5	3.6200 GHz	3.6300 GHz	100.0 kHz	3.622716667 GHz	3.394 dBm	-26.61 dB
6	6	3.6300 GHz	3.6310 GHz	100.0 kHz	3.630021667 GHz	-26.72 dBm	-13.72 dB
7	7	3.6310 GHz	3.6400 GHz	1.000 MHz	3.631135000 GHz	-31.14 dBm	-18.14 dB
8	8	3.6400 GHz	3.7200 GHz	1.000 MHz	3.643200000 GHz	-39.39 dBm	-14.39 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.749850000 GHz	-44.41 dBm	-4.408 dB

N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

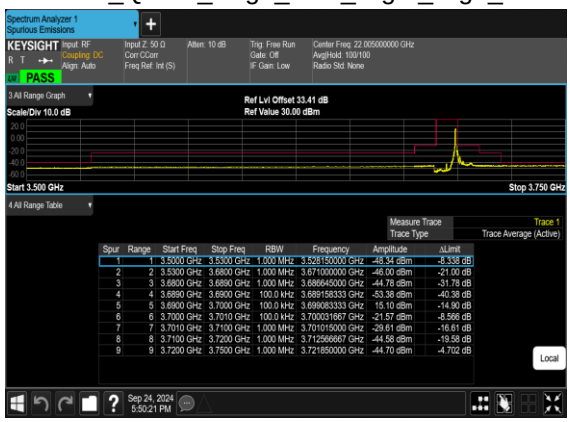


N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

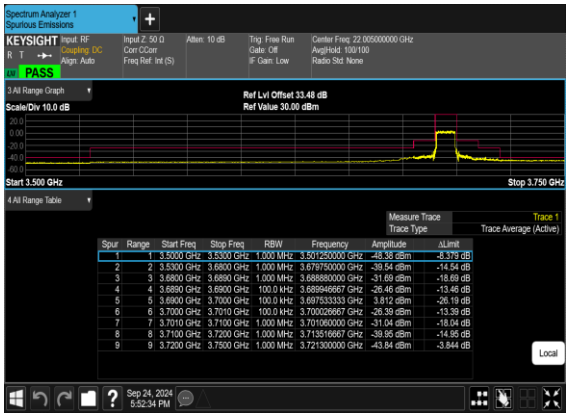
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



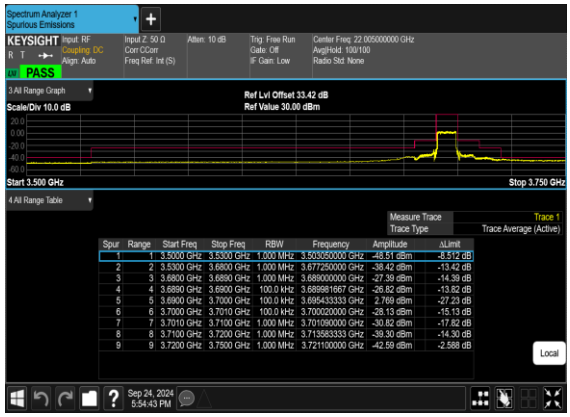
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



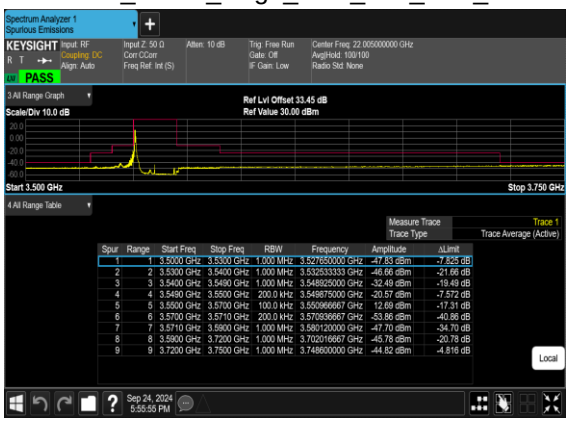
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



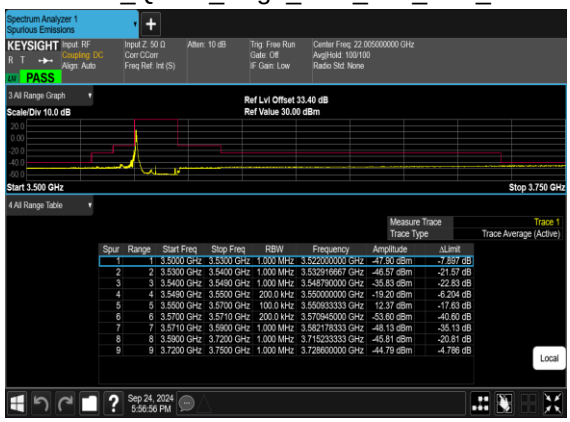
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



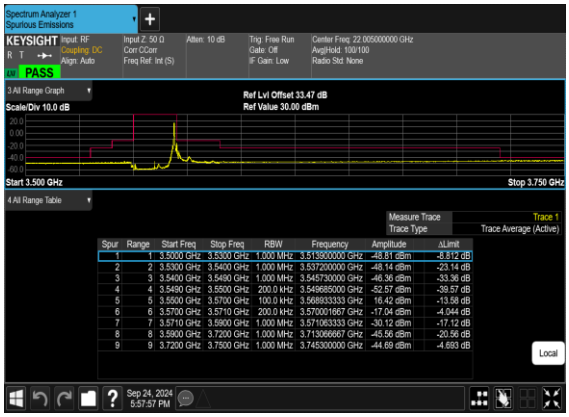
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



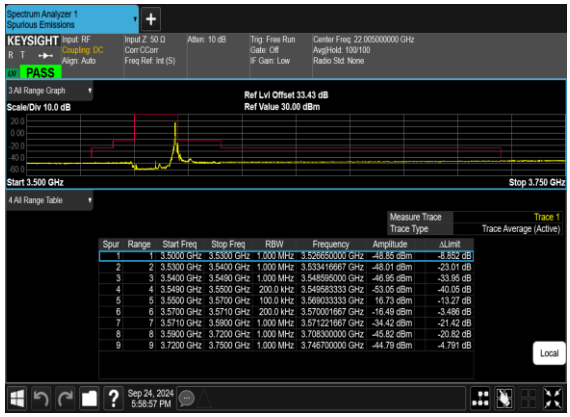
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



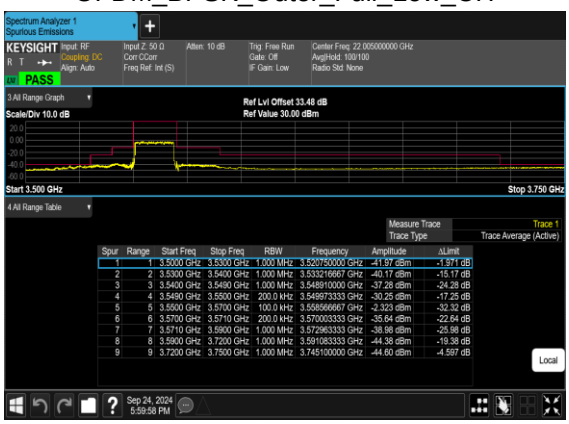
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



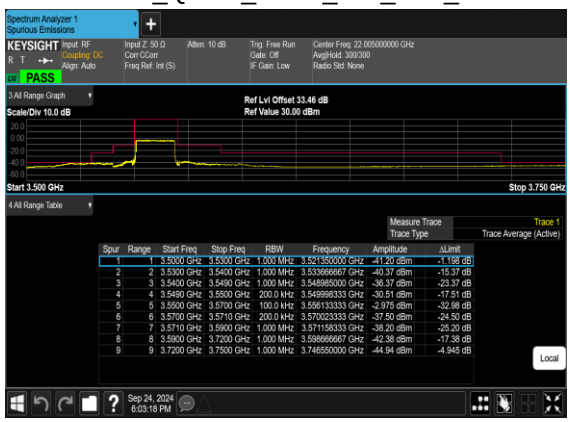
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



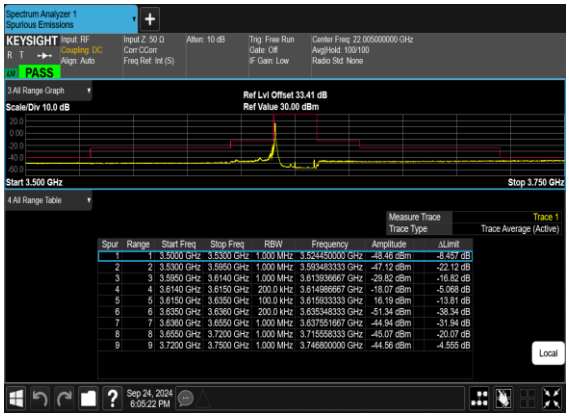
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



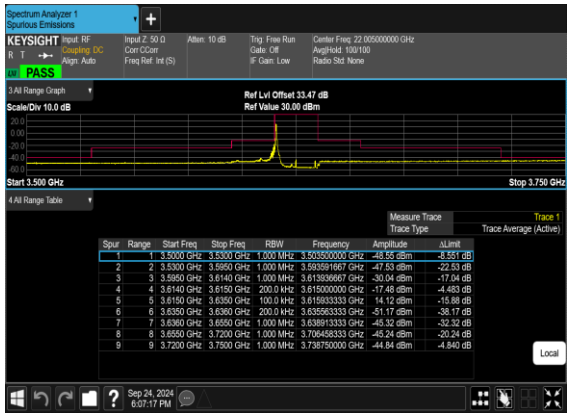
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



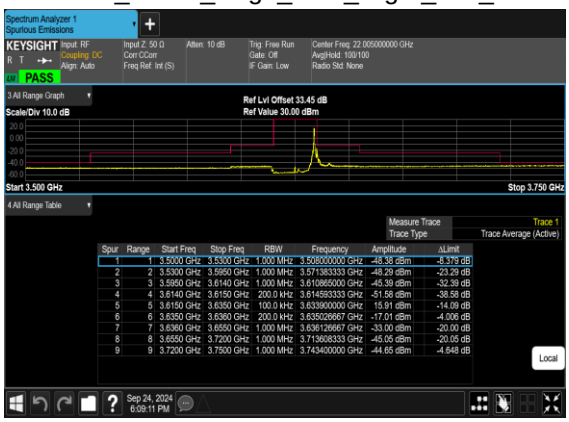
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



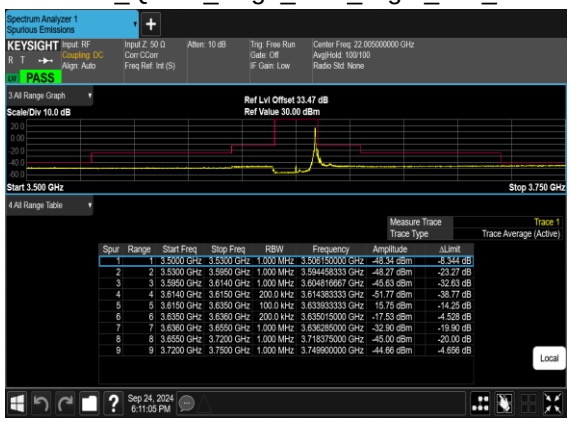
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



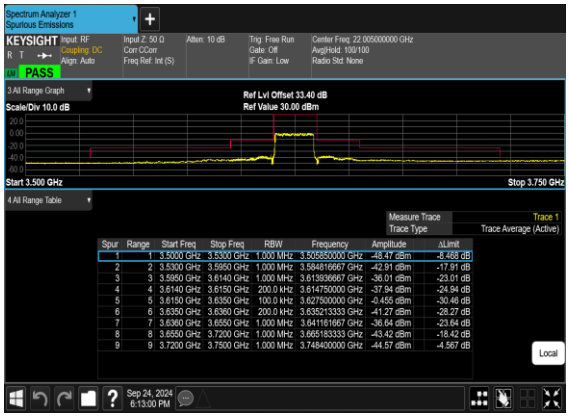
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

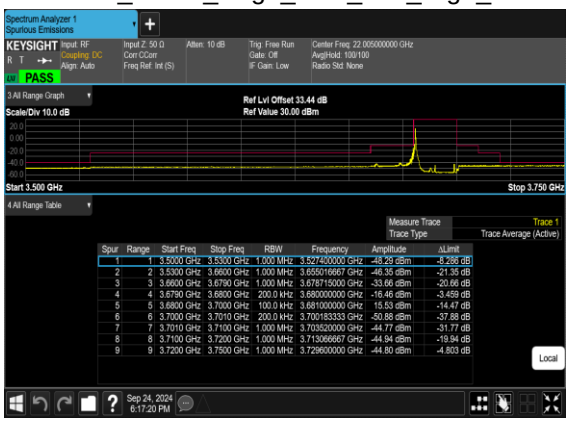


N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH

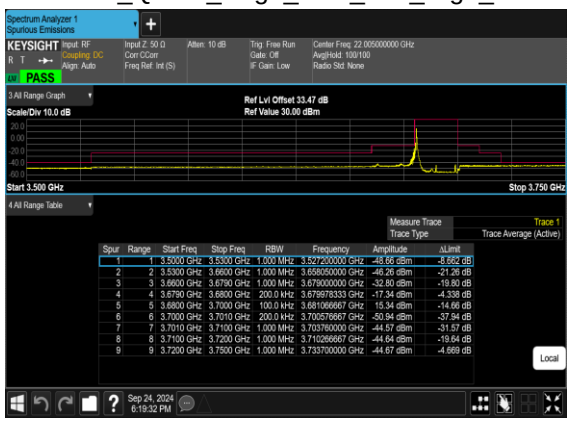


N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

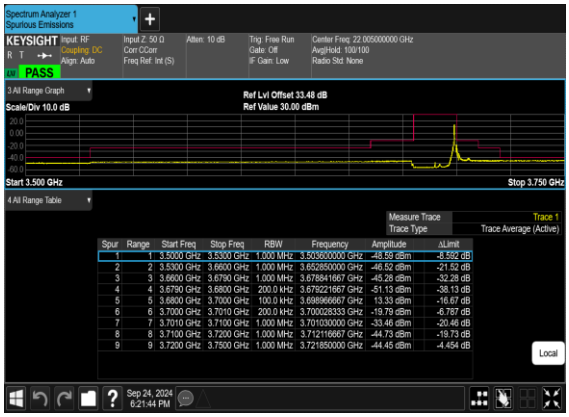
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



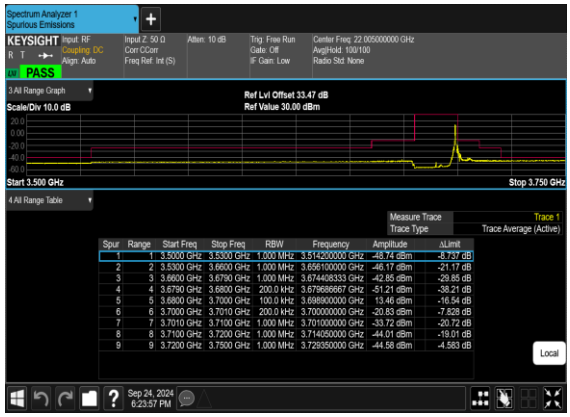
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



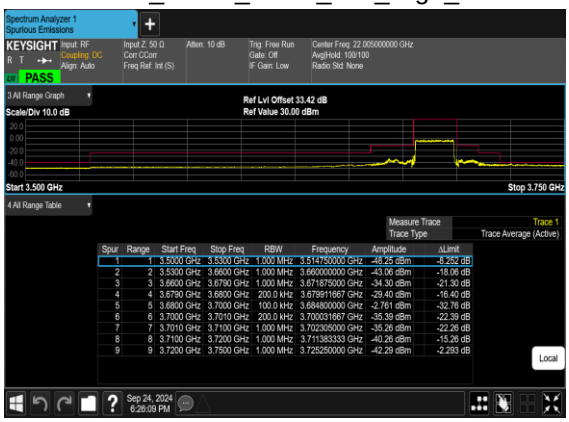
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



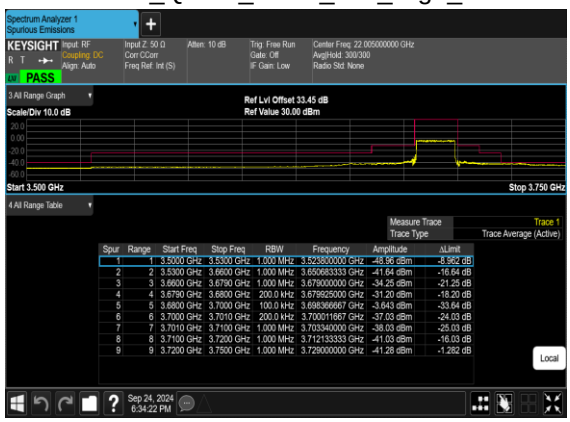
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



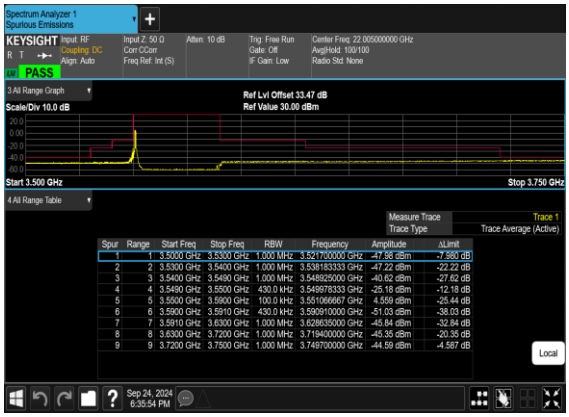
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



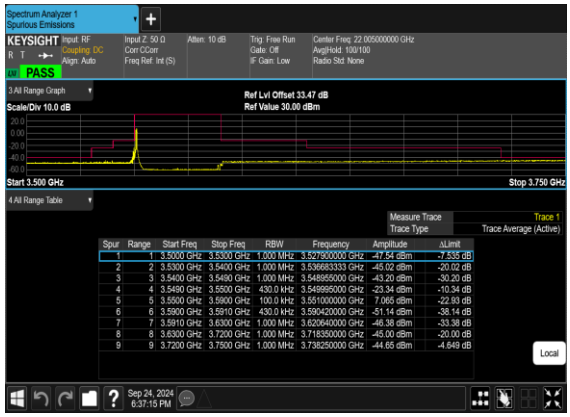
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



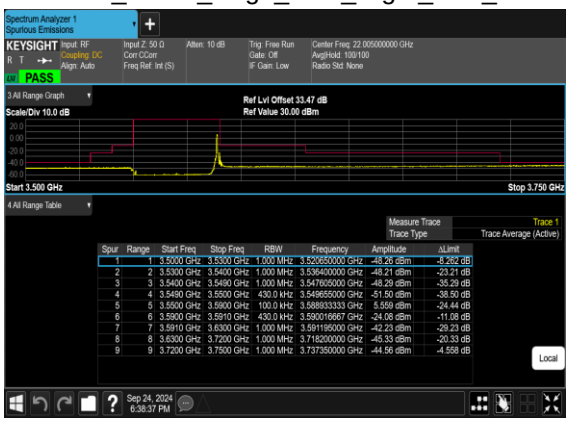
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



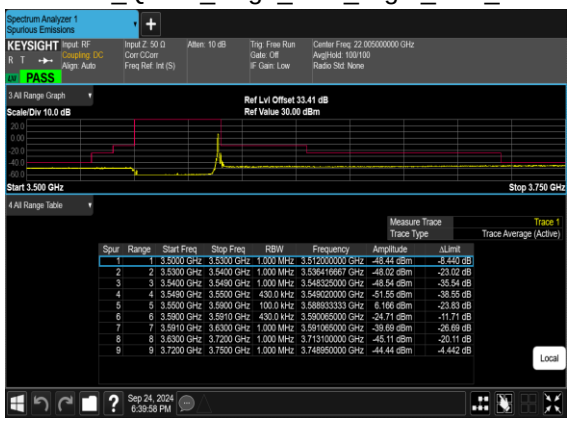
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



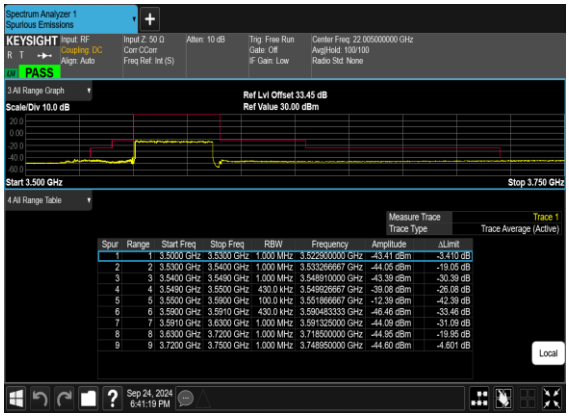
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



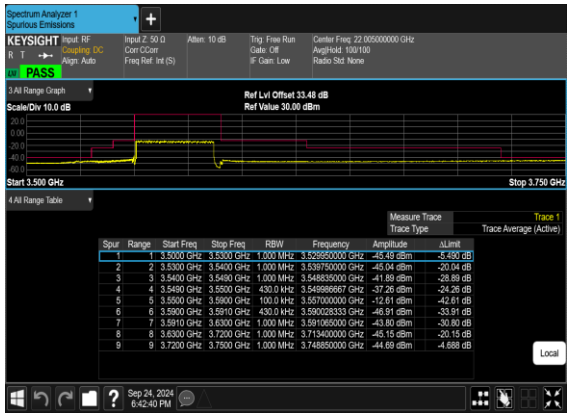
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



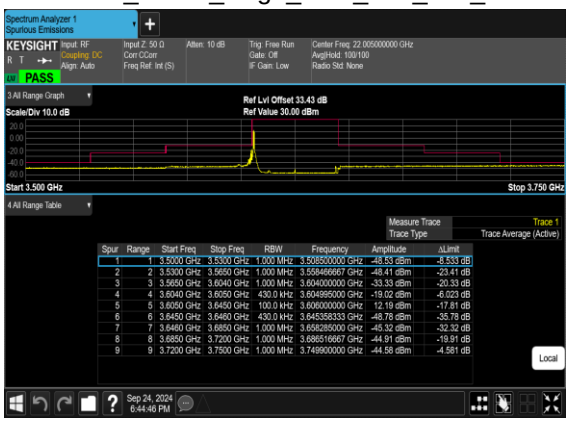
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



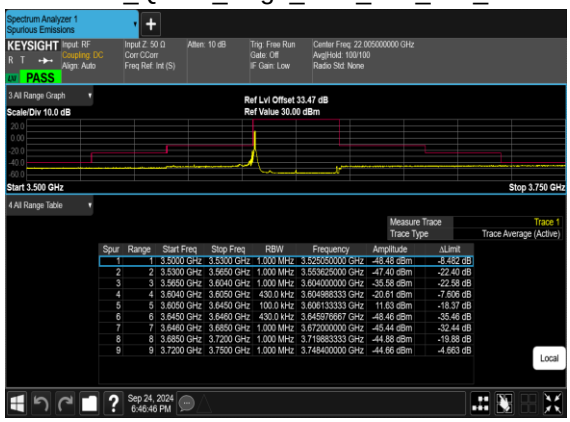
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



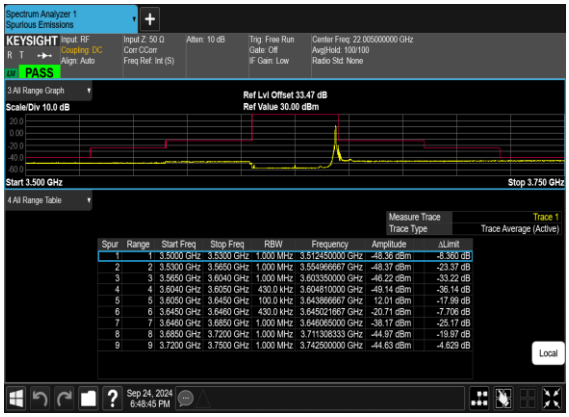
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



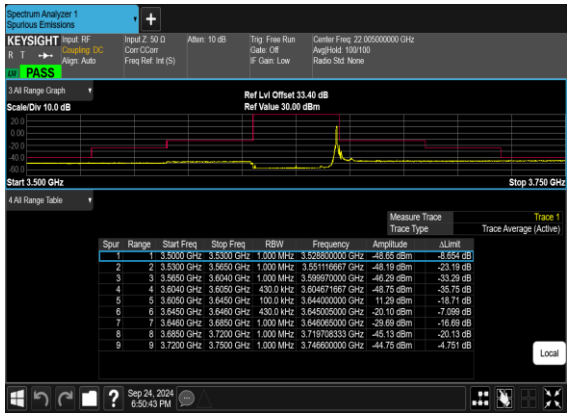
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



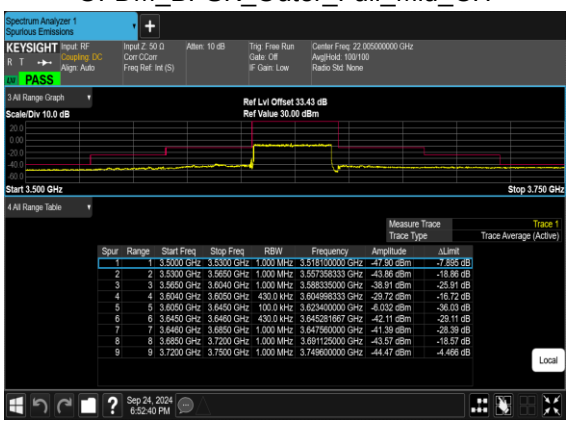
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



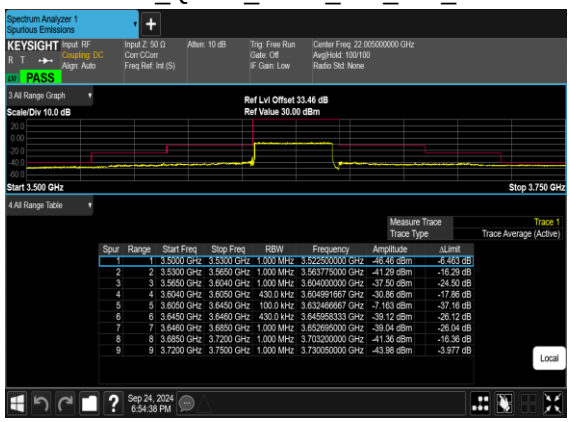
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



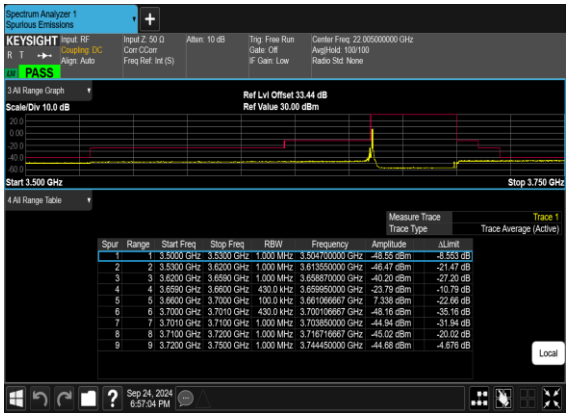
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

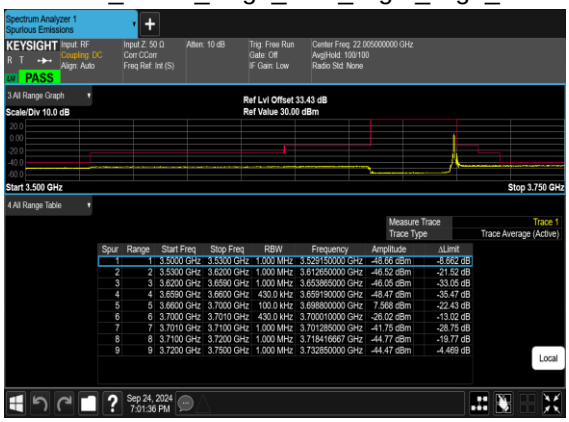


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

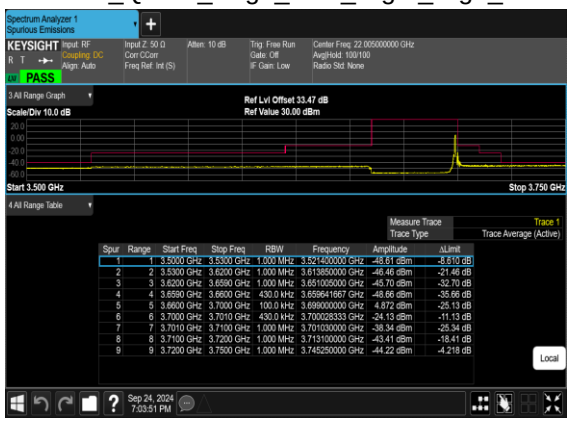


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

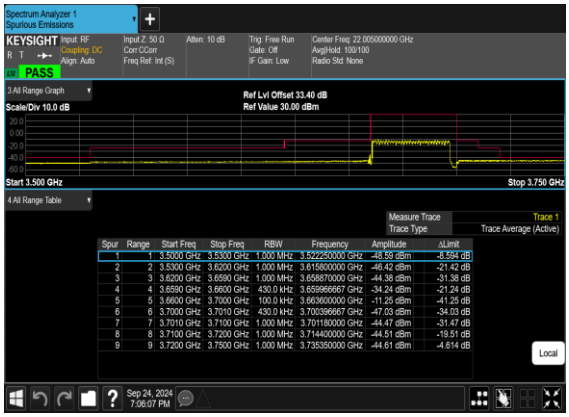
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



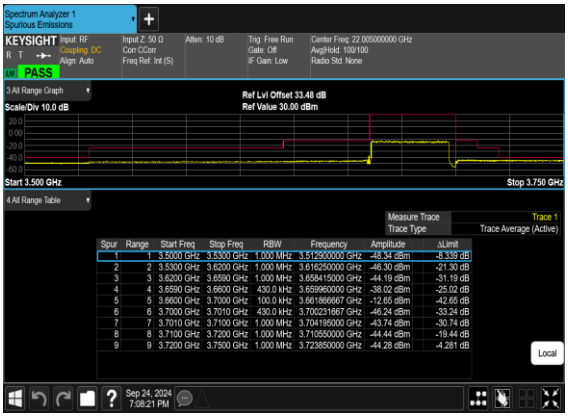
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Bruce	Temperature :	23~25℃
		Relative Humidity :	41~42%

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

N48 SA / NR 40MHz / QPSK (Ant.4)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7209	-63.96	-40	-23.96	-75.42	2.84	14.30	H
	10817	-62.67	-40	-22.67	-72.61	3.49	13.43	H
	14425	-59.43	-40	-19.43	-69.67	3.85	14.09	H
	7209	-63.92	-40	-23.92	-75.38	2.84	14.30	V
	10817	-62.27	-40	-22.27	-72.21	3.49	13.43	V
	14425	-55.79	-40	-15.79	-66.03	3.85	14.09	V

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