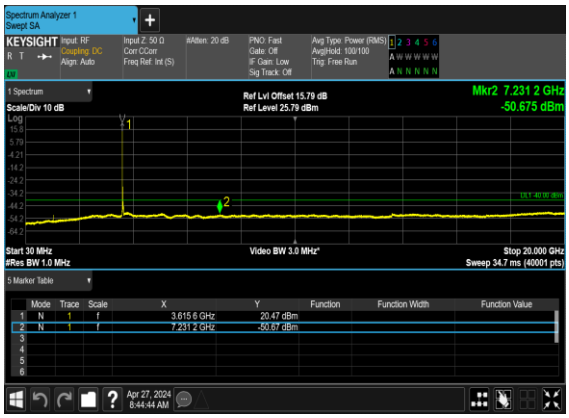
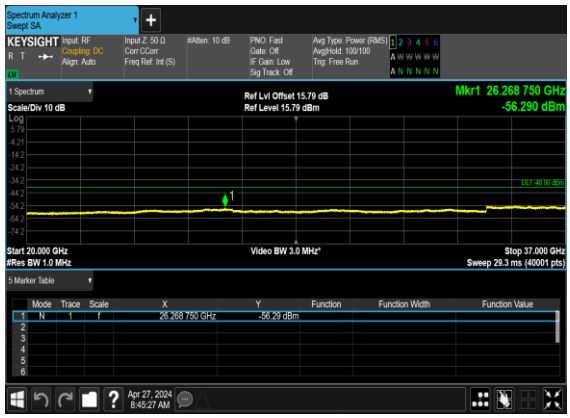
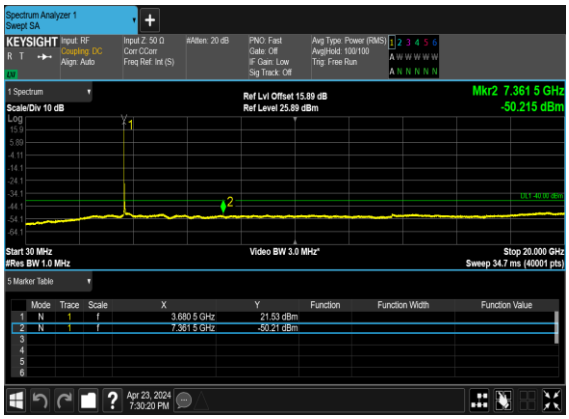
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

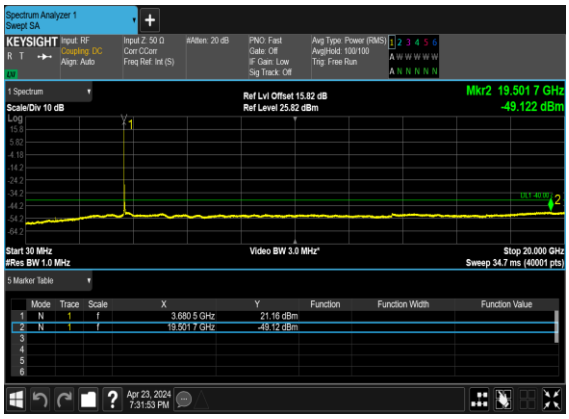


N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



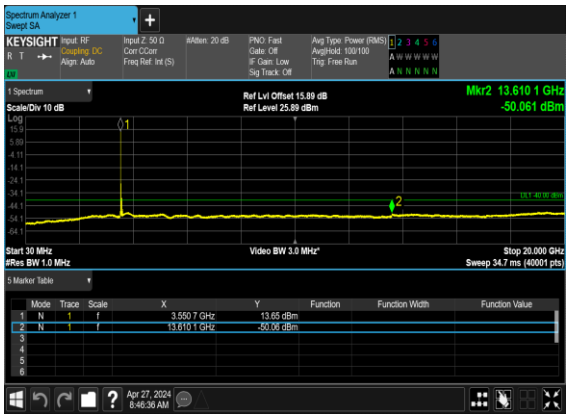
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

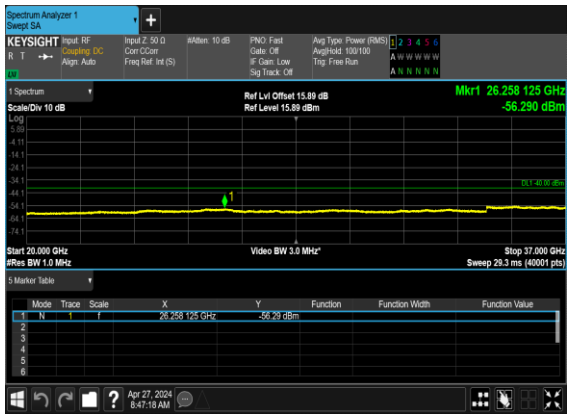


N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

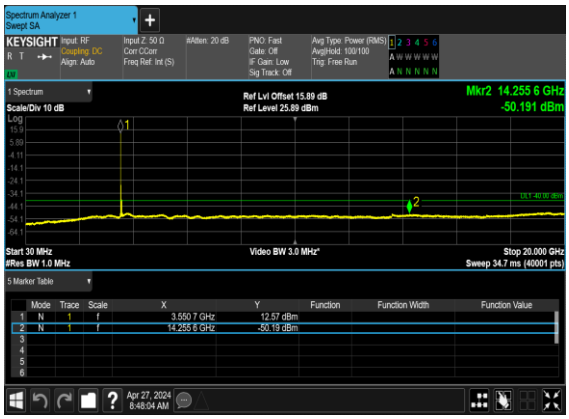
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



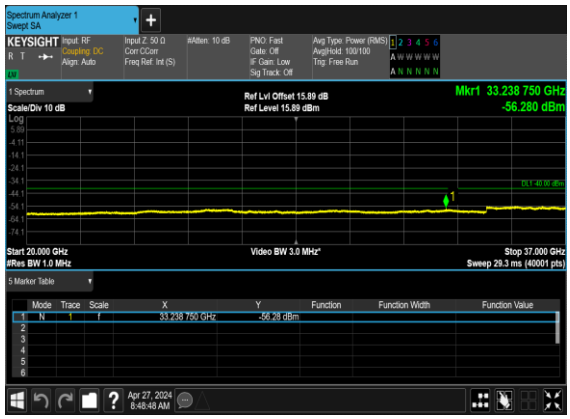
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



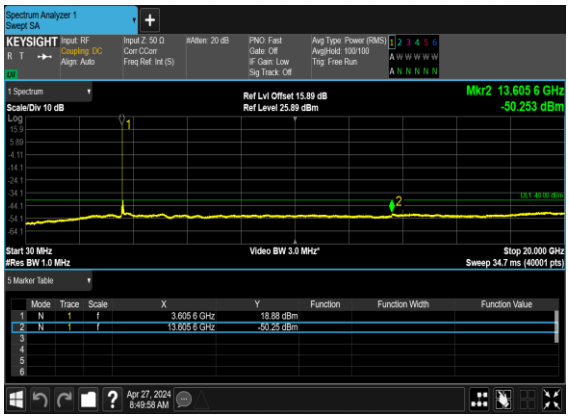
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

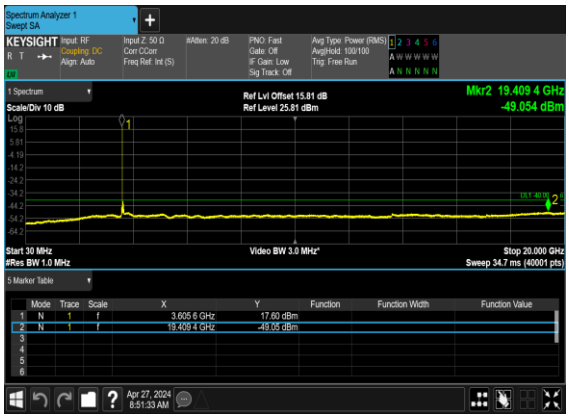


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

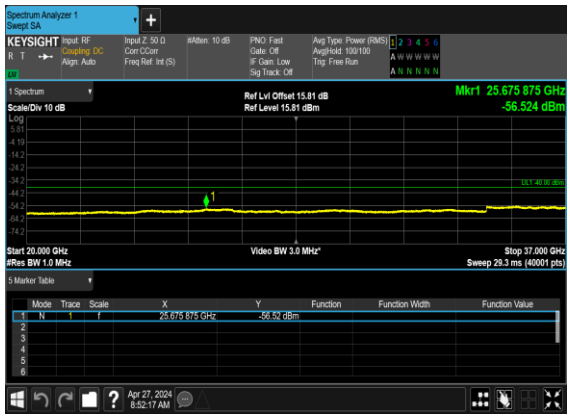


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

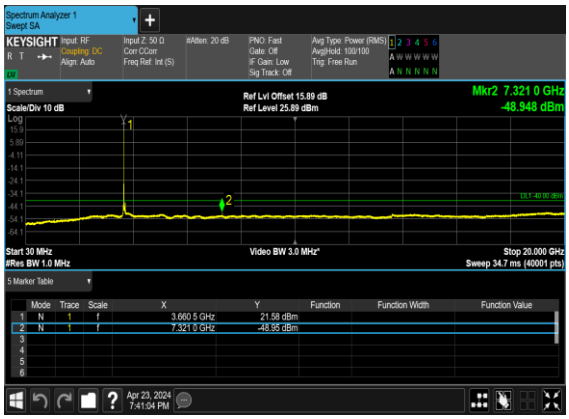
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



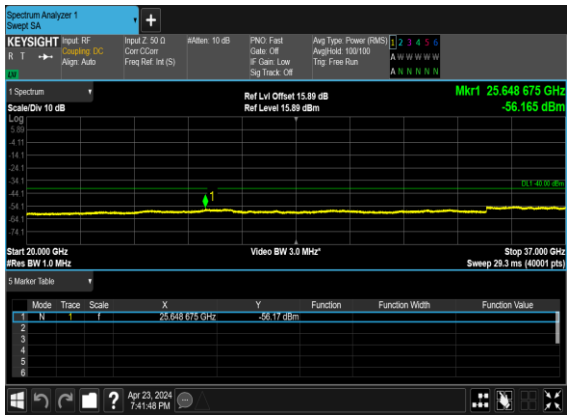
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



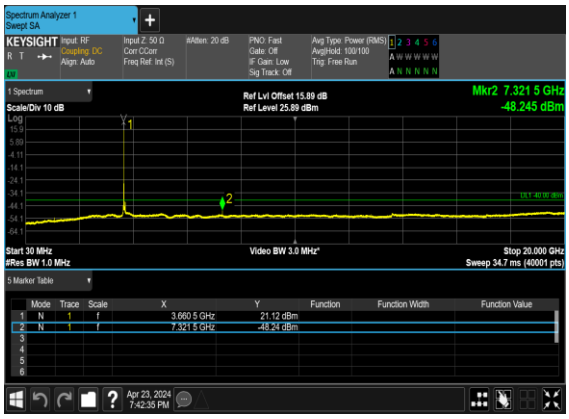
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



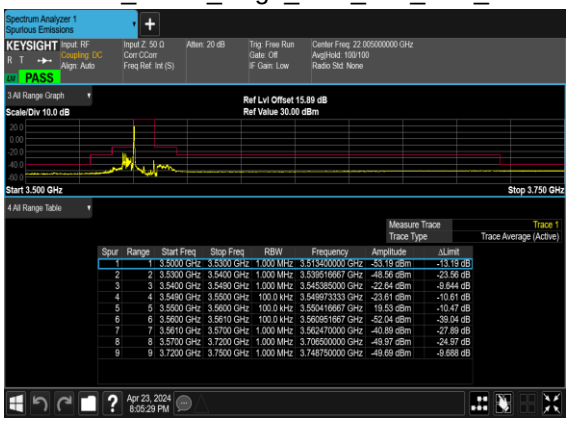
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Conducted Band Edge

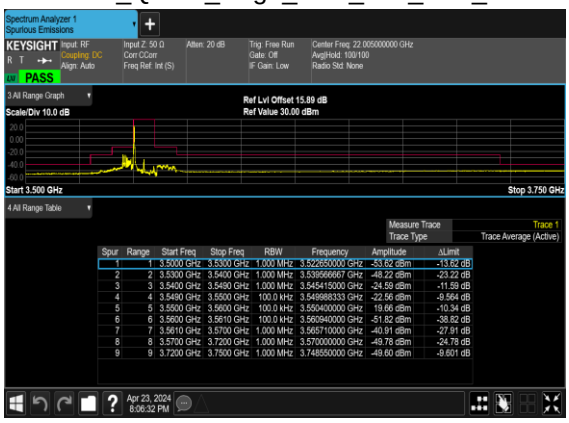
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM 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

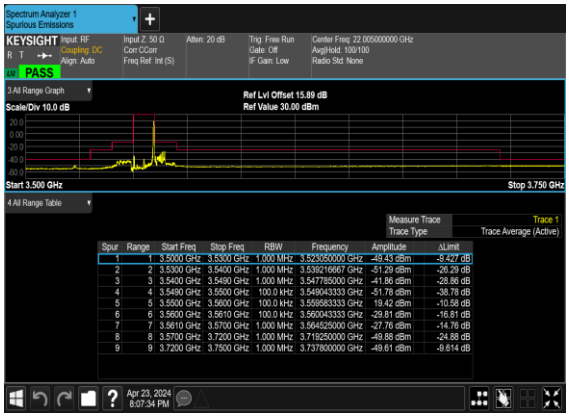
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



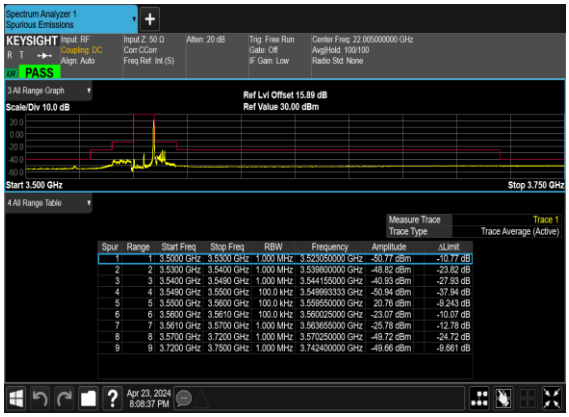
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



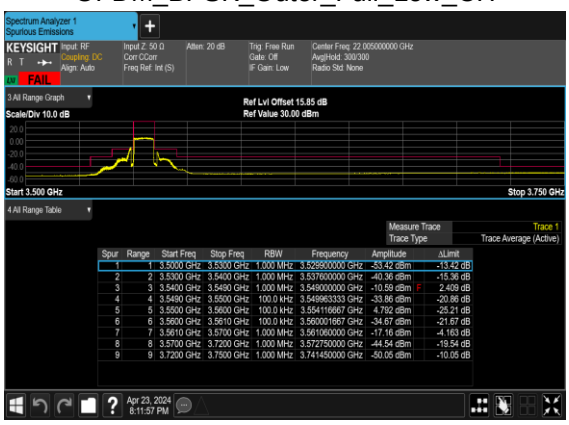
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



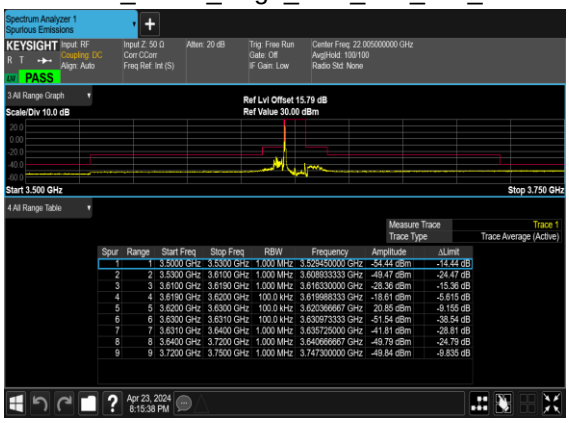
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



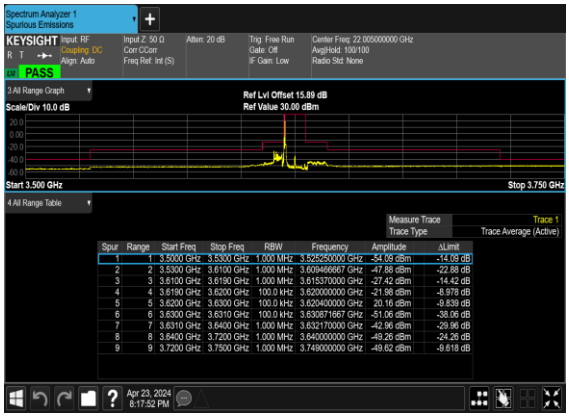
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH_**CHP_PASS**

N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

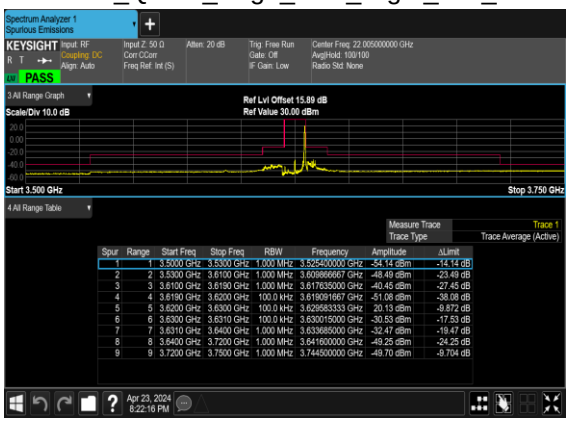


N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

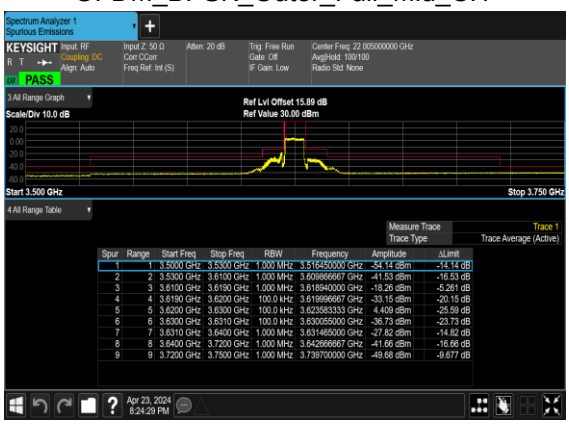


N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

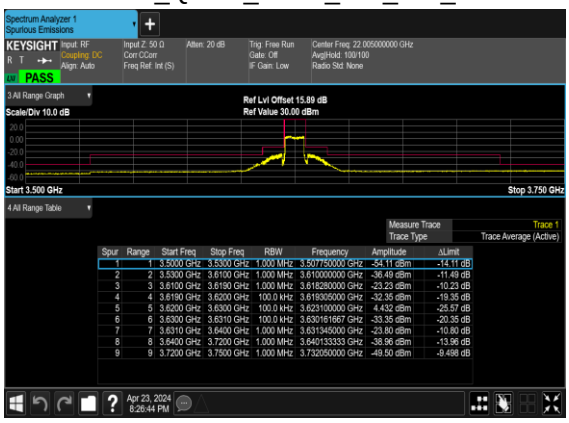
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



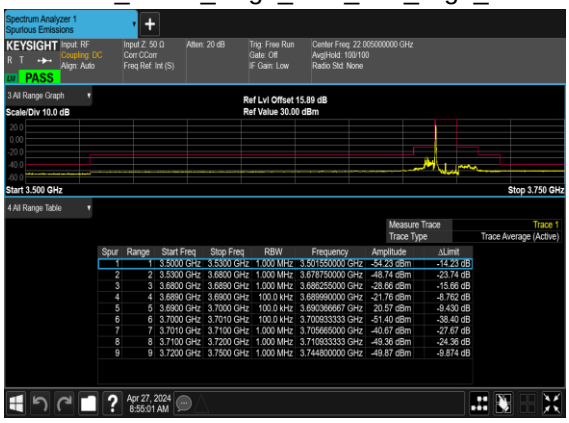
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

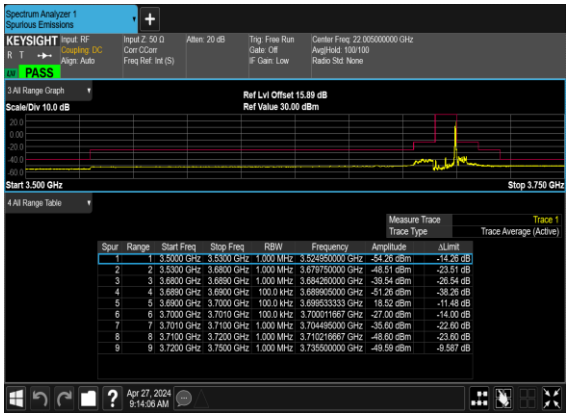


N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

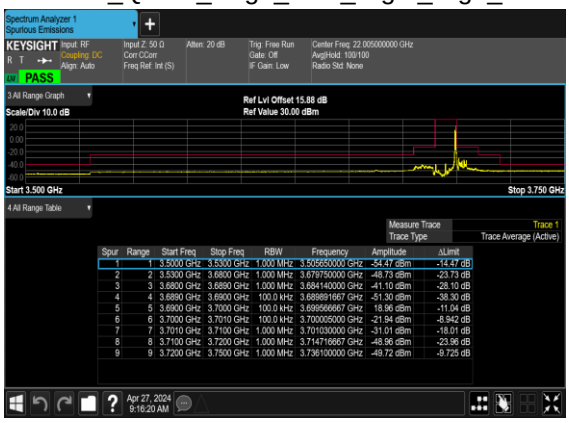


N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

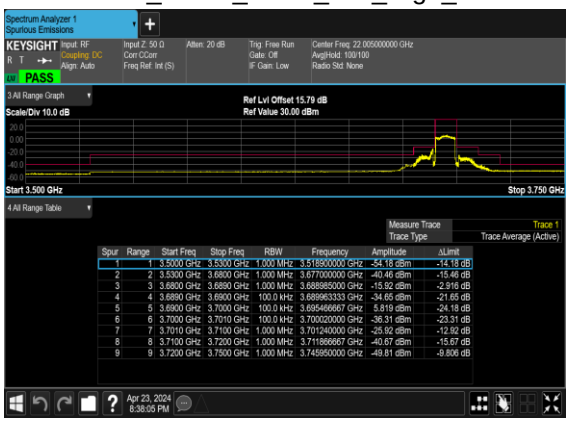
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

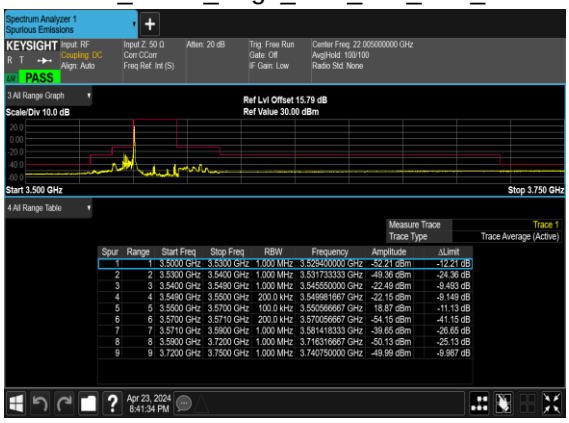


N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

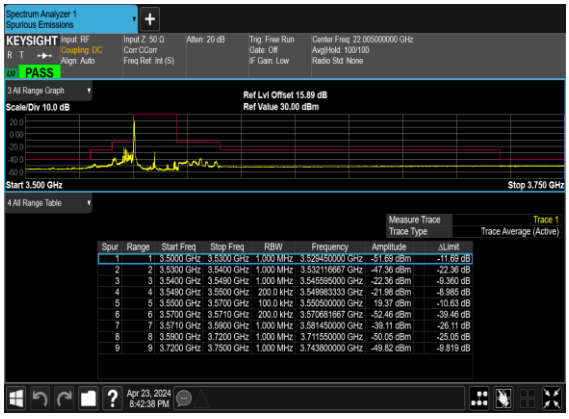


N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

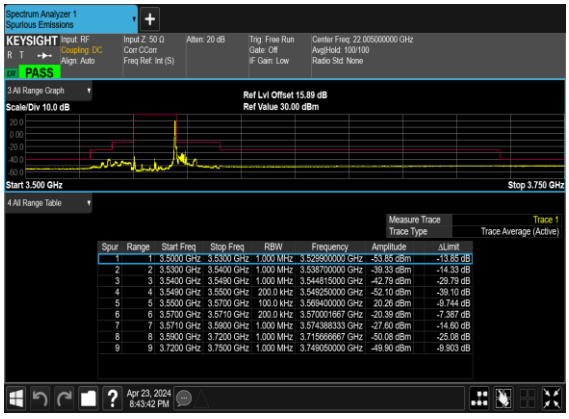
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



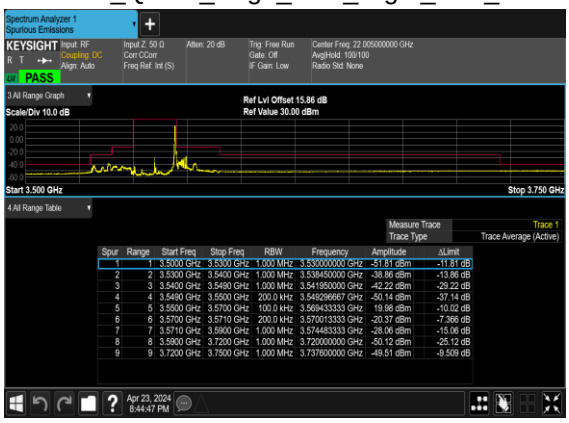
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



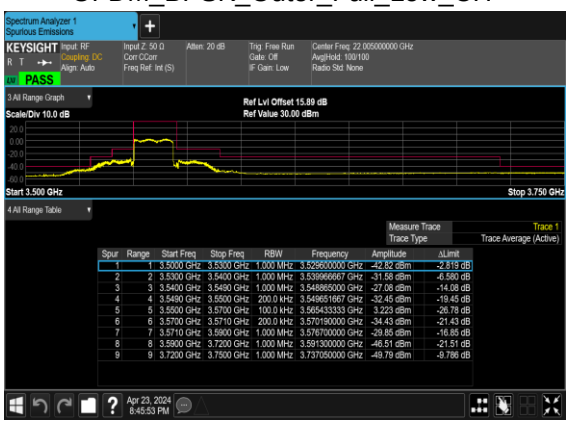
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



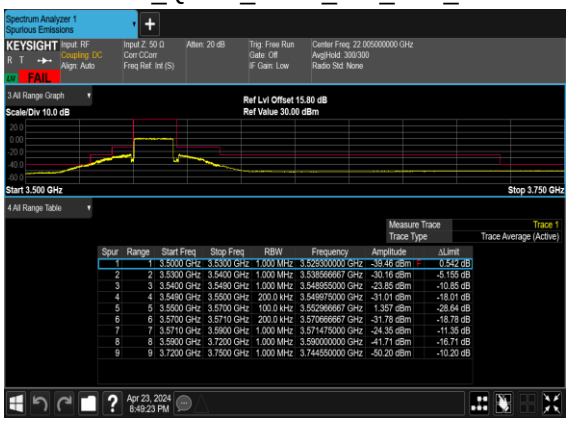
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



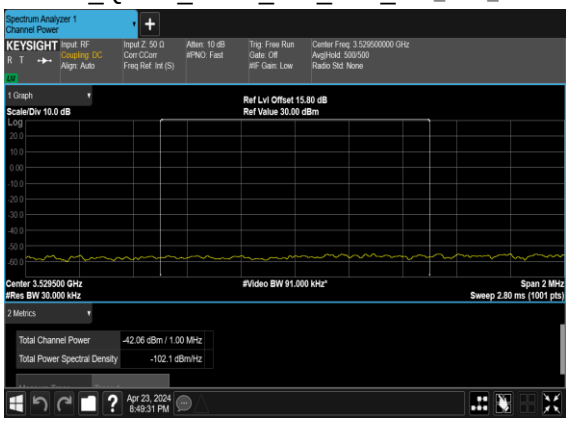
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



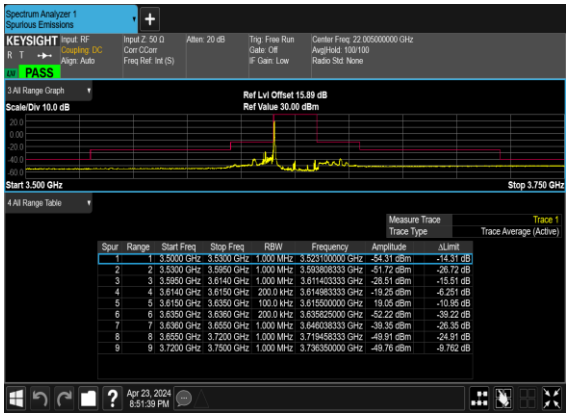
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



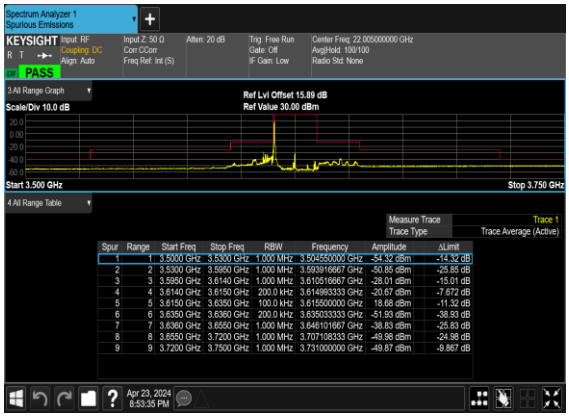
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_**CHP_PASS**



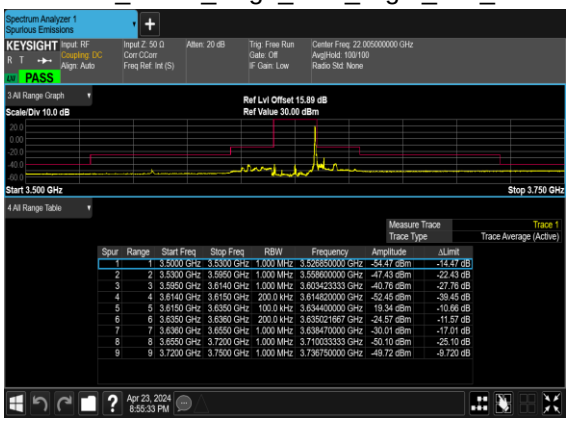
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



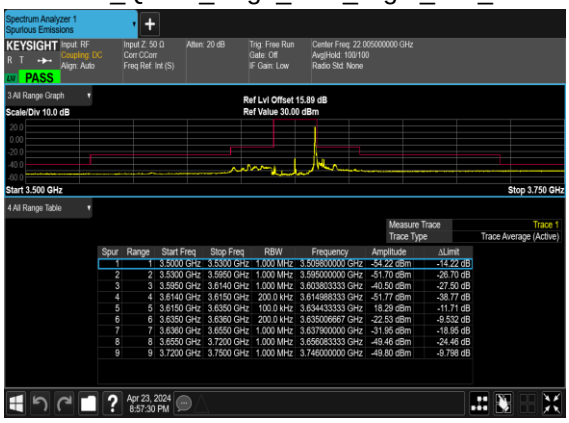
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



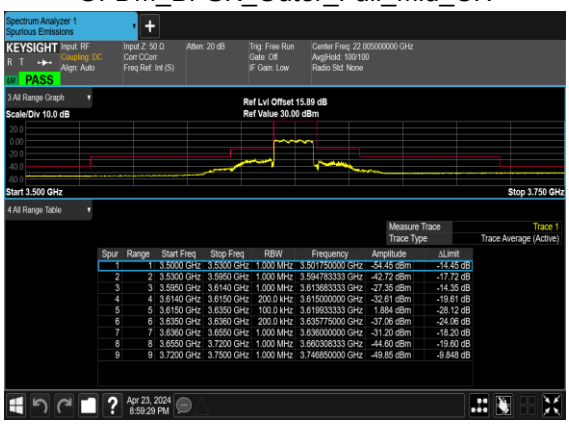
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



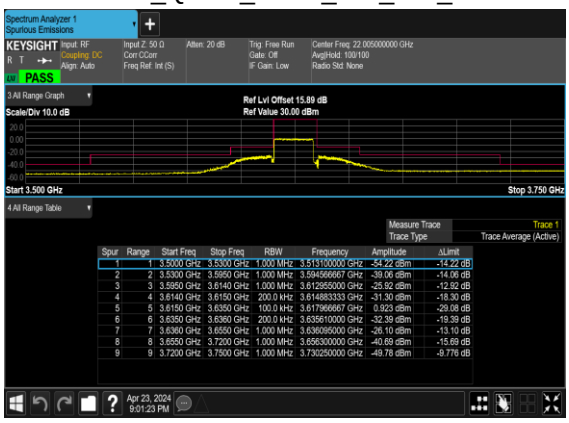
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



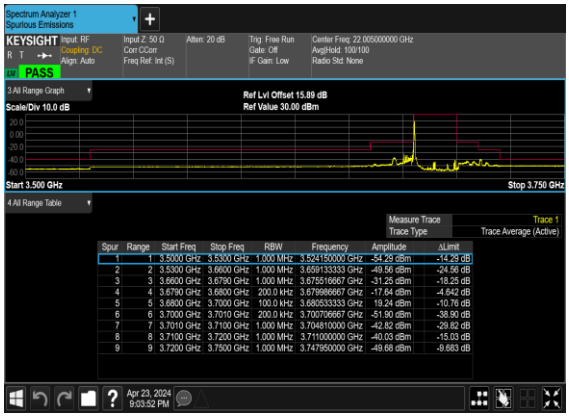
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



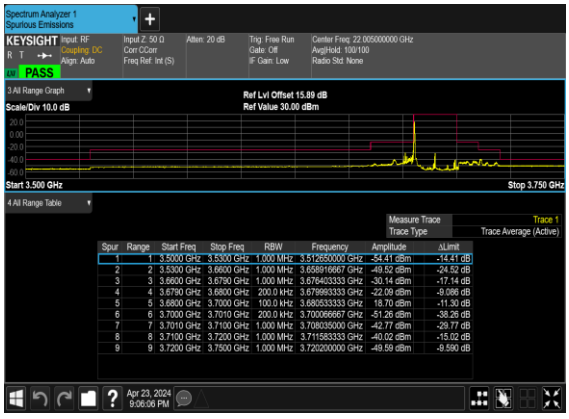
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



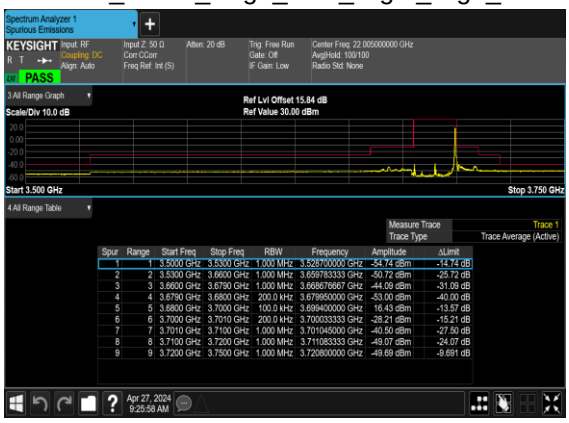
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



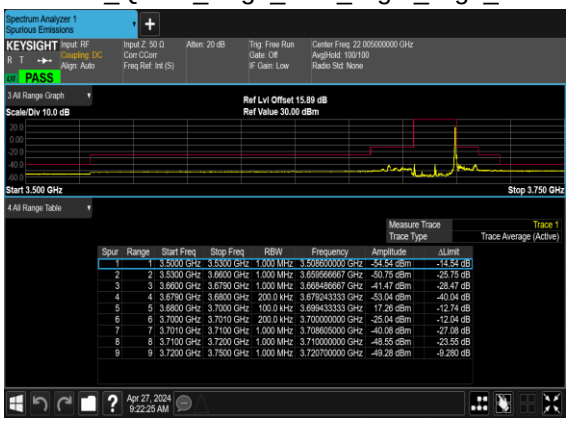
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



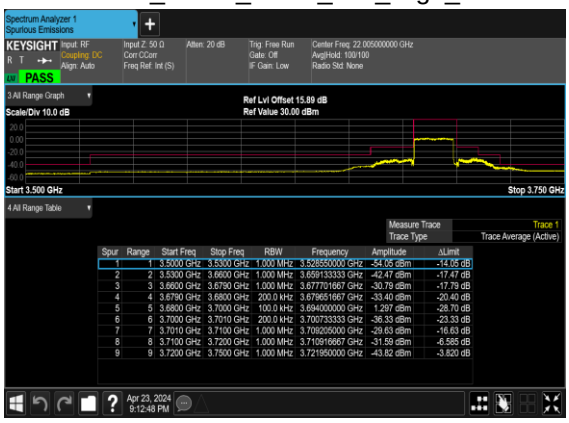
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



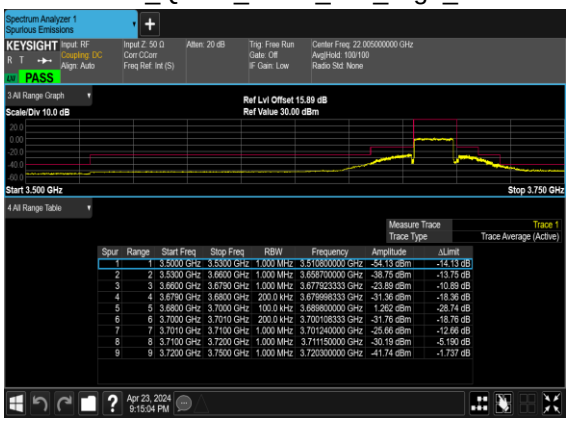
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



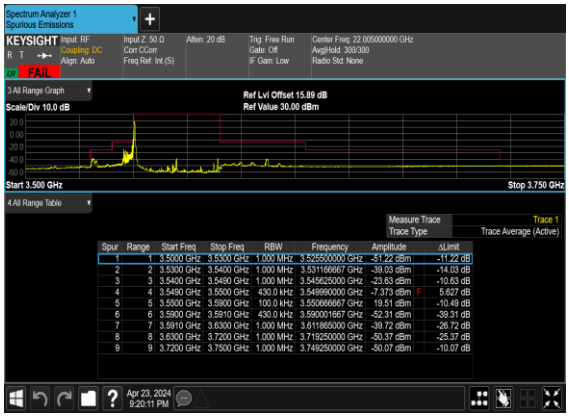
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



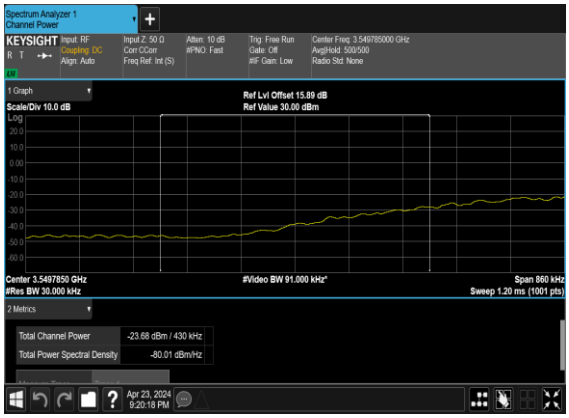
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



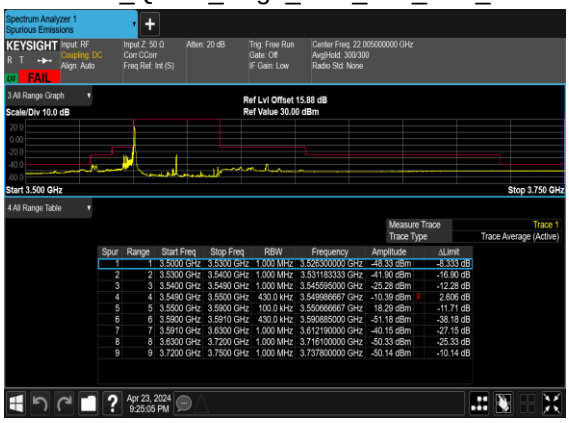
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



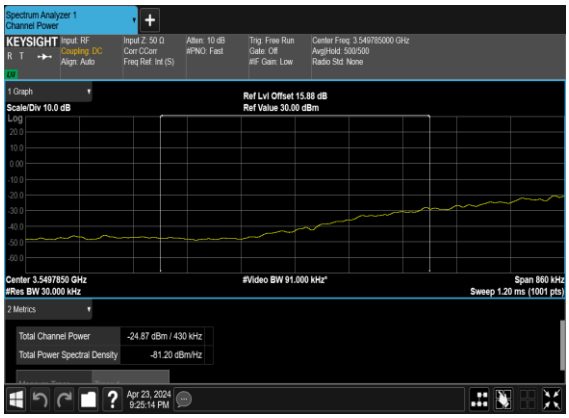
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**



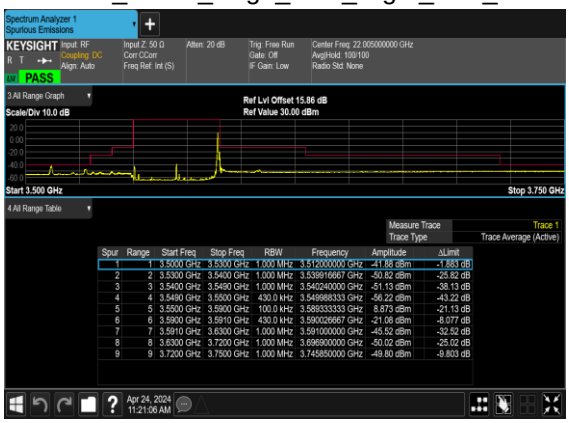
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



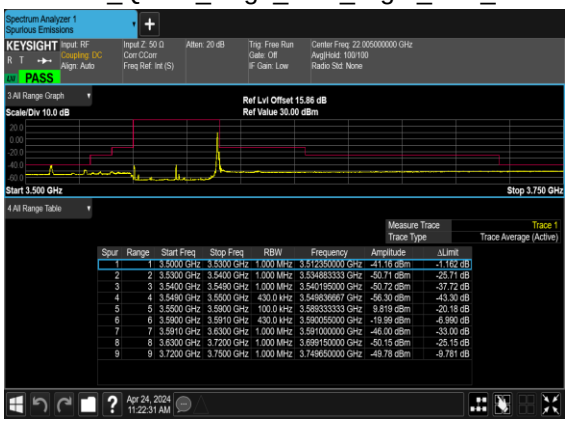
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**



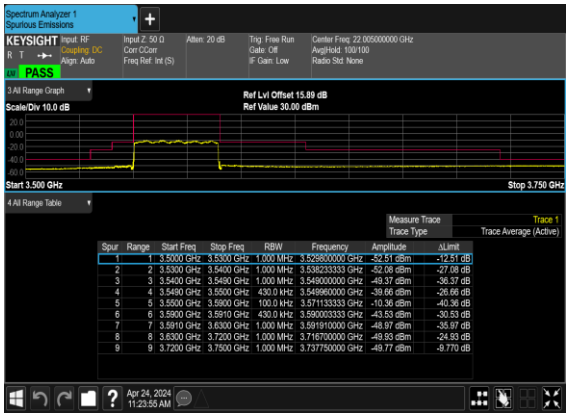
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH

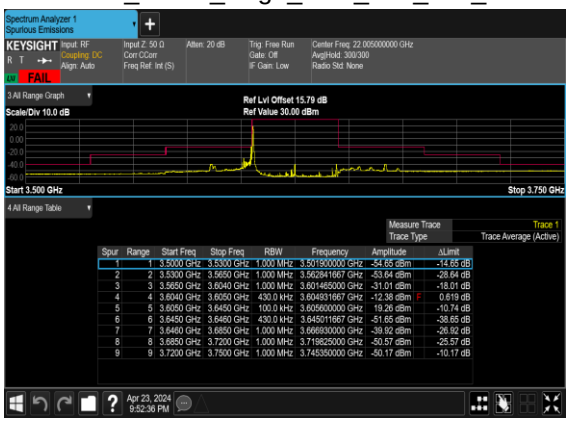


N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

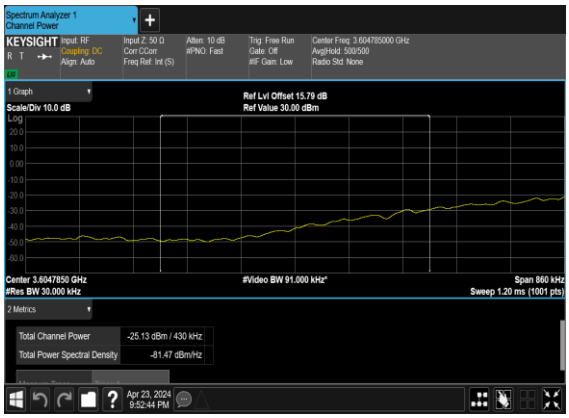


N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

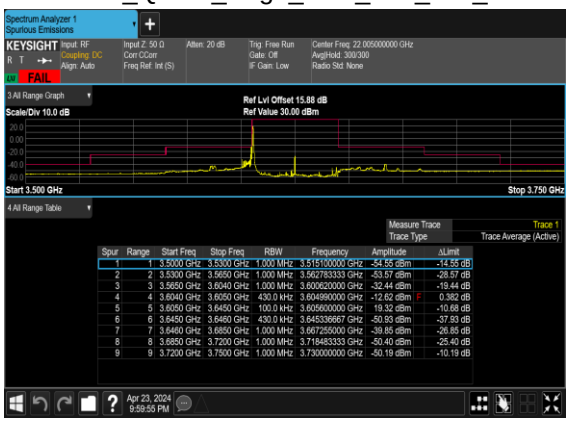
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



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

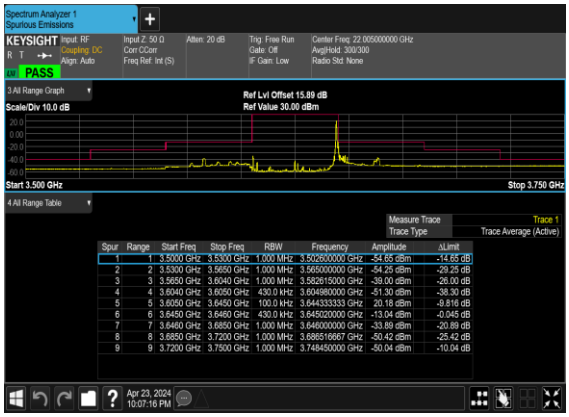


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

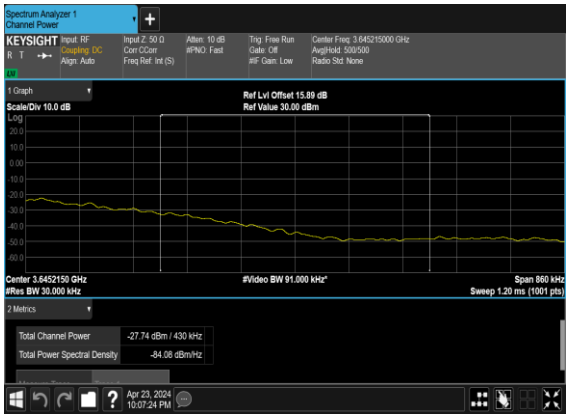


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH_CHP_PASS

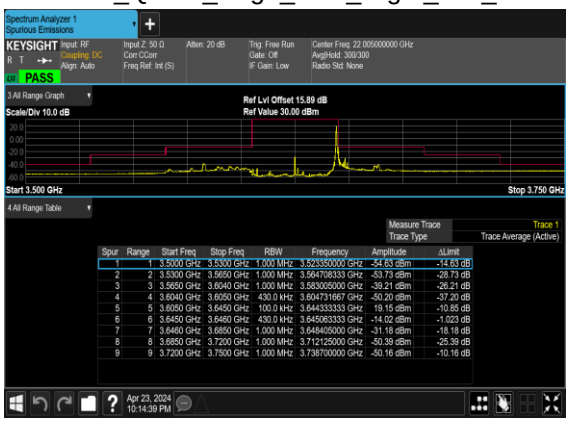
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



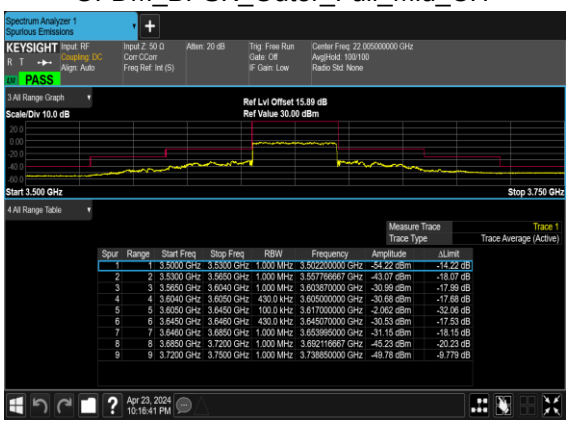
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH_CHP_PASS



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

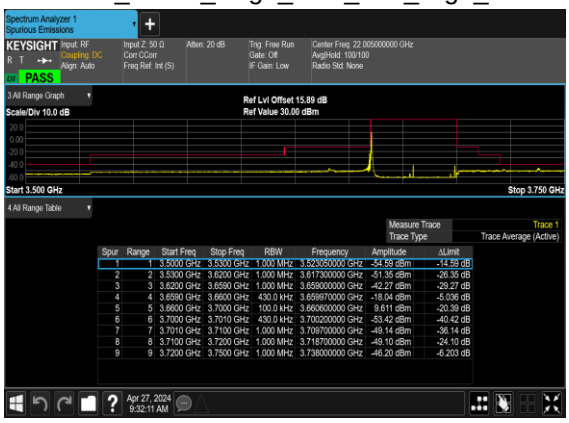


N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH

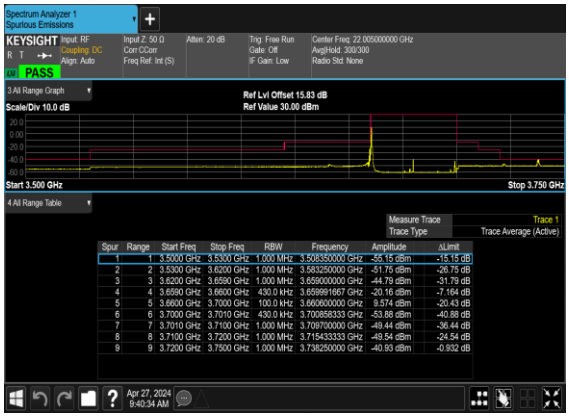


N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

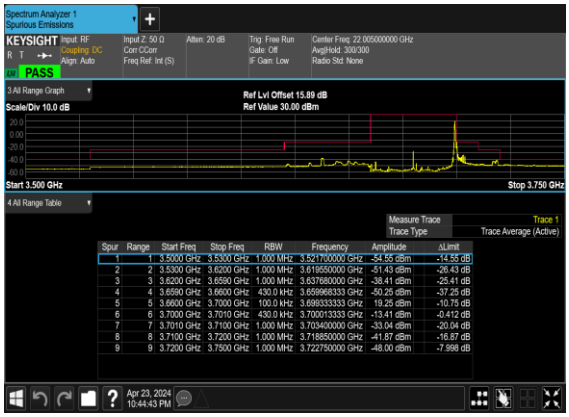
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



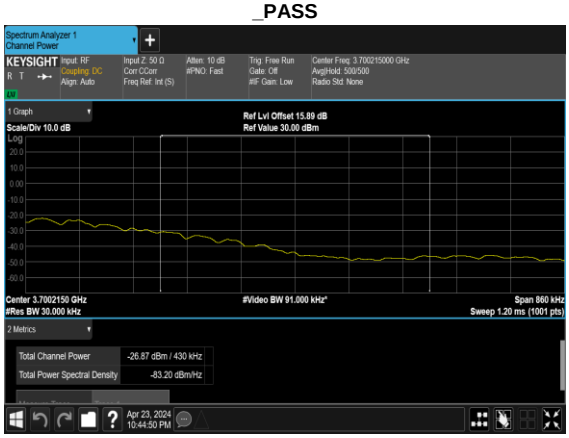
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



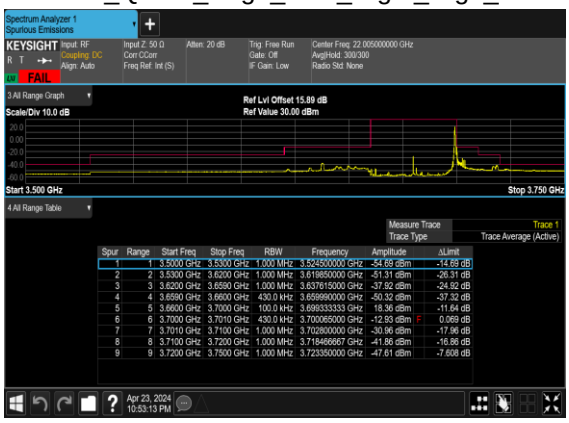
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



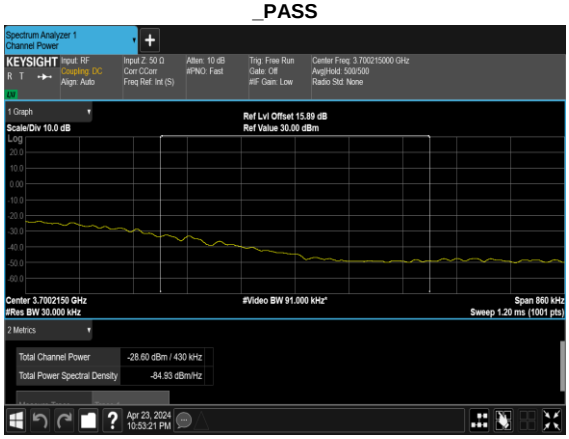
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_**CHP_PASS**



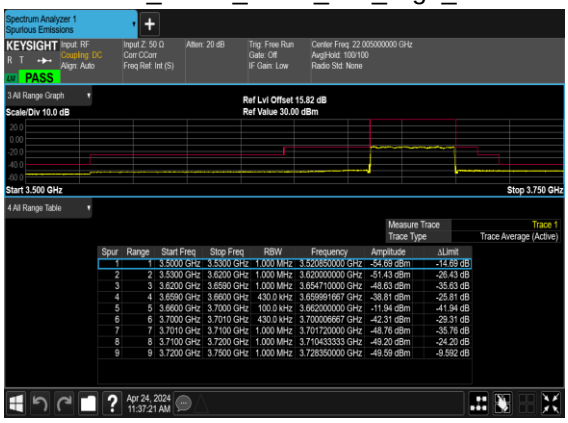
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_**CHP_PASS**

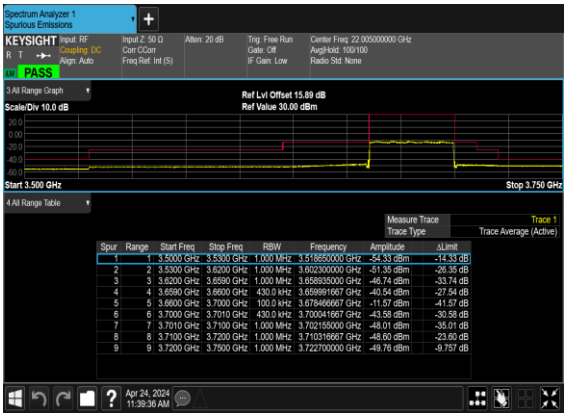


N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.520850000 GHz	-54.59 dBm	-14.88 dB
2	2	3.5300 GHz	3.6200 GHz	1.000 MHz	3.620000000 GHz	-51.43 dBm	-26.43 dB
3	3	3.6200 GHz	3.6590 GHz	1.000 MHz	3.654710000 GHz	-48.63 dBm	-35.63 dB
4	4	3.6590 GHz	3.6600 GHz	430.0 kHz	3.659991667 GHz	-38.81 dBm	-25.81 dB
5	5	3.6600 GHz	3.7000 GHz	100.0 kHz	3.662000000 GHz	-11.94 dBm	-41.94 dB
6	6	3.7000 GHz	3.7010 GHz	430.0 kHz	3.700006667 GHz	-42.31 dBm	-29.31 dB
7	7	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701720000 GHz	-48.76 dBm	-35.76 dB
8	8	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710433333 GHz	-49.20 dBm	-24.20 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.728350000 GHz	-49.59 dBm	-9.592 dB

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	3.518850000 GHz	-54.33 dBm	-14.33 dB
2	2	3.5300 GHz	3.6200 GHz	1.000 MHz	3.602300000 GHz	-51.35 dBm	-26.35 dB
3	3	3.6200 GHz	3.6590 GHz	1.000 MHz	3.658935000 GHz	-46.74 dBm	-33.74 dB
4	4	3.6590 GHz	3.6600 GHz	430.0 kHz	3.659991667 GHz	-40.54 dBm	-27.54 dB
5	5	3.6600 GHz	3.7000 GHz	100.0 kHz	3.678466667 GHz	-11.57 dBm	-41.57 dB
6	6	3.7000 GHz	3.7010 GHz	430.0 kHz	3.700041667 GHz	-43.58 dBm	-30.58 dB
7	7	3.7010 GHz	3.7100 GHz	1.000 MHz	3.702155000 GHz	-48.01 dBm	-35.01 dB
8	8	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710316667 GHz	-48.60 dBm	-23.60 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.722700000 GHz	-49.76 dBm	-9.757 dB

Note: “CHP” means channel power integrated method.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Qingsheng He	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.

SA n48 / 40MHz / QPSK / ANT6									
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	-59.72	-40	-19.72	-56.34	-63.02	8.30	11.60	H
	10819.20	-54.15	-40	-14.15	-57.11	-55.67	10.48	12.00	H
	14425.60	-49.59	-40	-9.59	-56.85	-51.29	11.80	13.50	H
	7212.80	-60.05	-40	-20.05	-56.71	-63.35	8.30	11.60	V
	10819.20	-54.62	-40	-14.62	-57.35	-56.14	10.48	12.00	V
	14425.60	-50.12	-40	-10.12	-57.16	-51.82	11.80	13.50	V

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