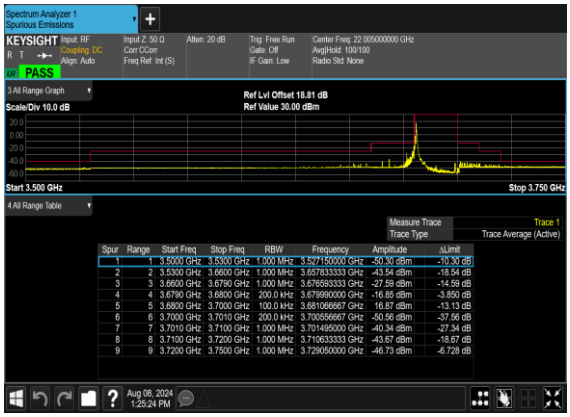
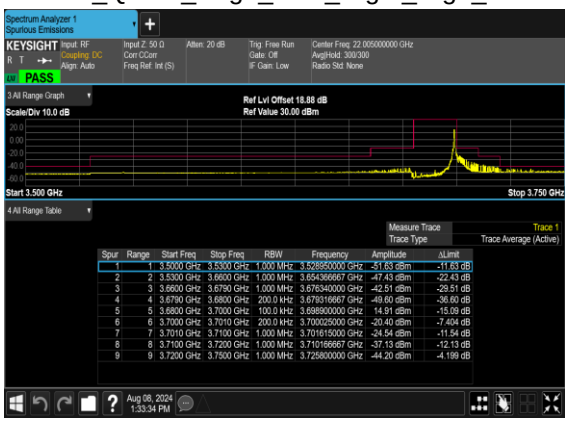
N48(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH

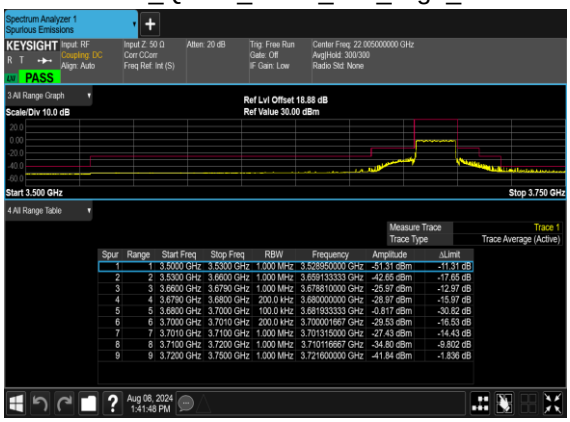
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



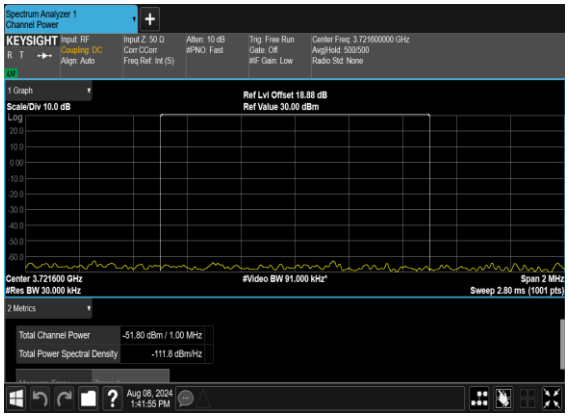
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



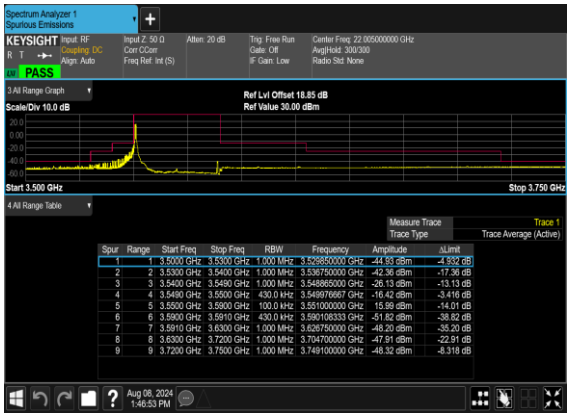
N48(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH



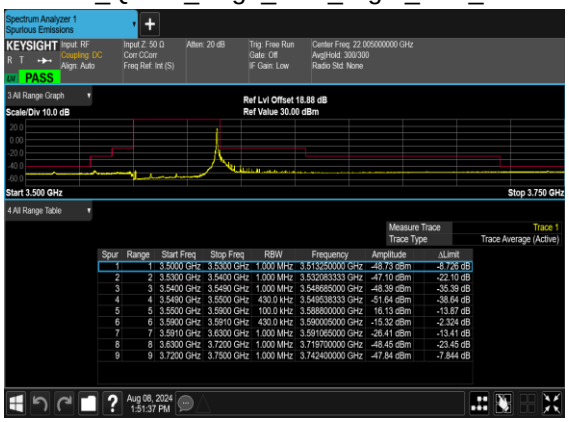
N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH_**CHP_PASS**



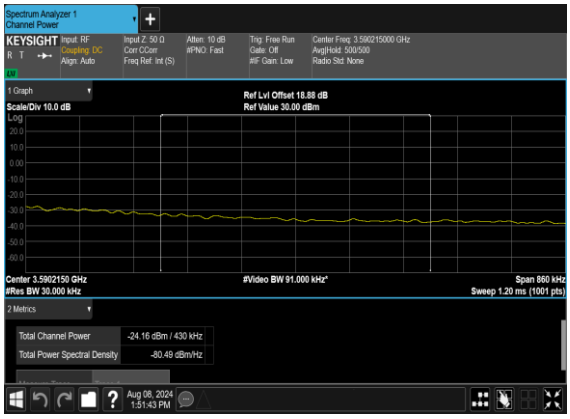
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



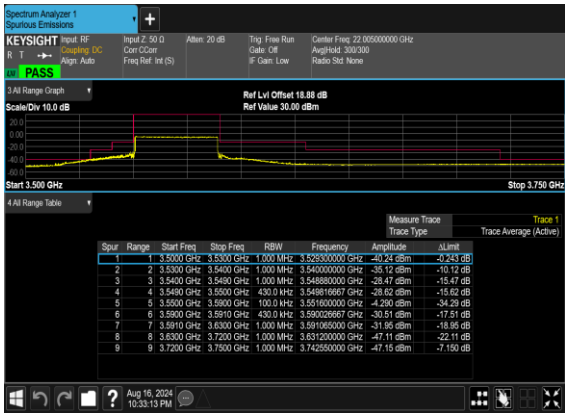
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



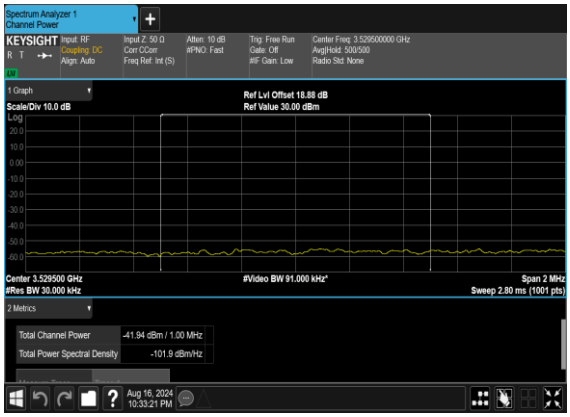
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH_**CHP_PASS**



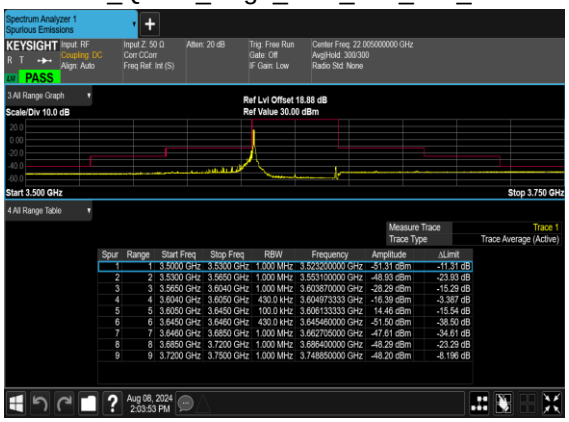
N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH



N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



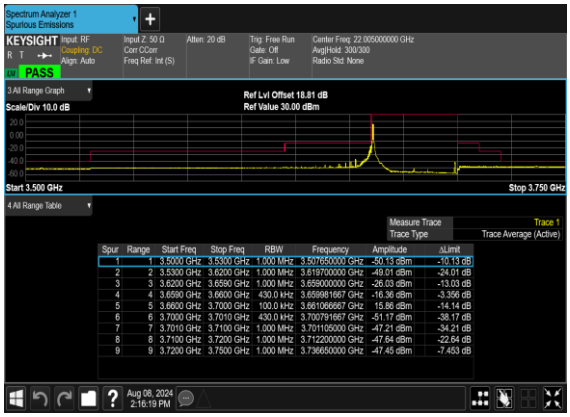
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH

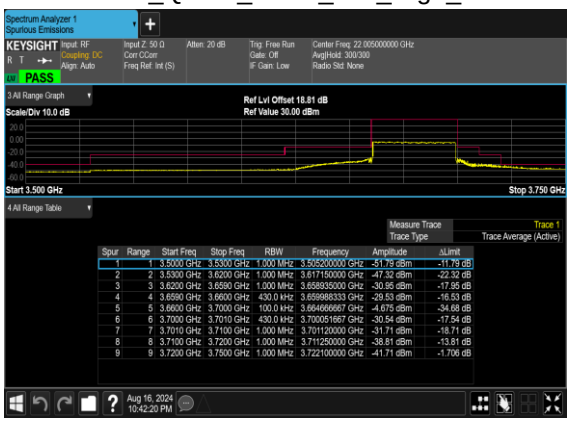
N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH

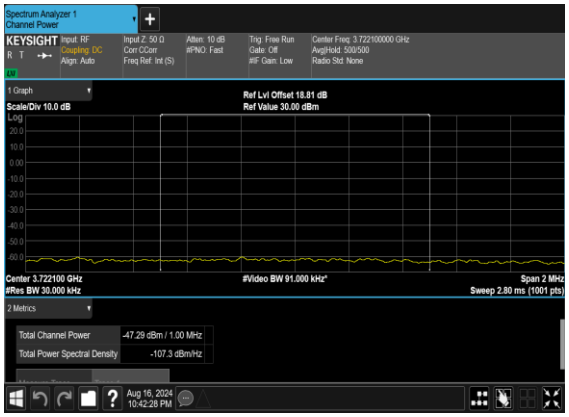


N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH

N48(40M)_CP-OFDM_QPSK_Outer_Full_High_CH



N48(40M)_CP-OFDM_QPSK_Outer_Full_High_CH_**CHP_PASS**



Software Version: 23.06.1602

FR1 N48 UL MIMO(Ant2+7)-Ant7

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0049	**PASS**	NV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0068	**PASS**	LV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0049	**PASS**	HV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0039	**PASS**	-30℃
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0048	**PASS**	-20℃
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0049	**PASS**	-10℃
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0052	**PASS**	0℃
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0046	**PASS**	10℃
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0049	**PASS**	20℃
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0056	**PASS**	30℃
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0043	**PASS**	40℃
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0058	**PASS**	50℃

Peak to Average Ratio

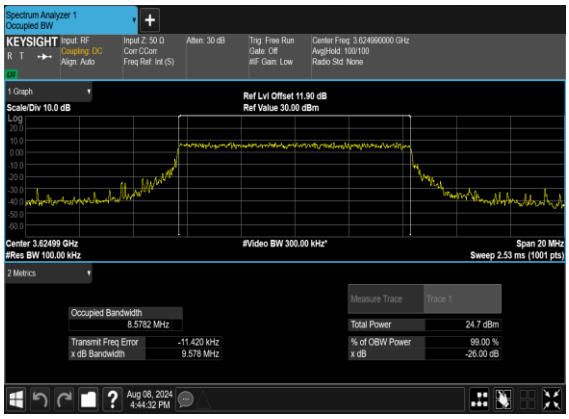
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	6.87	13	**PASS**

N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

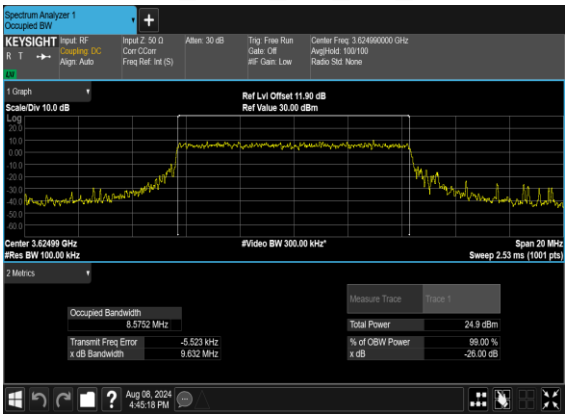
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5782	9.578
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5752	9.632
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5713	9.462
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5447	9.589
48	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.592	15.04
48	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.553	14.75
48	30	15	641666	3624.99	CP-OFDM 64 QAM	38@0	13.485	14.7
48	30	15	641666	3624.99	CP-OFDM 256 QAM	38@0	13.552	14.85
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.241	19.39
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.224	19.51
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.239	19.68
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.21	19.66
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.825	28.89
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.854	29.12
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.869	28.87
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.842	29.1
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.875	39.45
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.795	39.46
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.81	39.38
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.853	40.08

N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

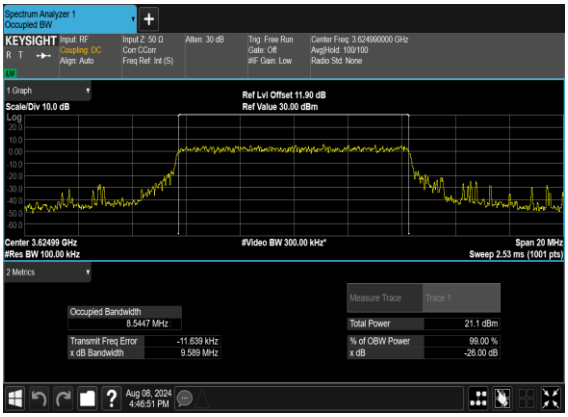


N48(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

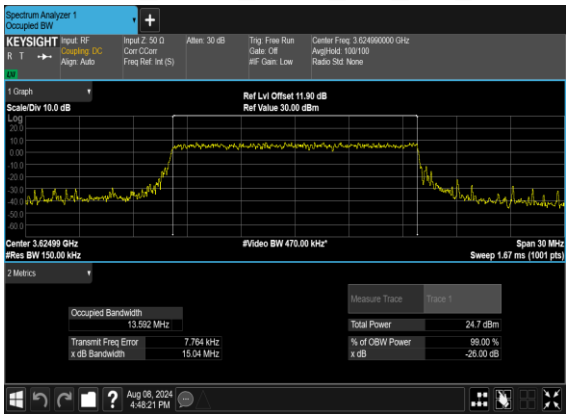


N48(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

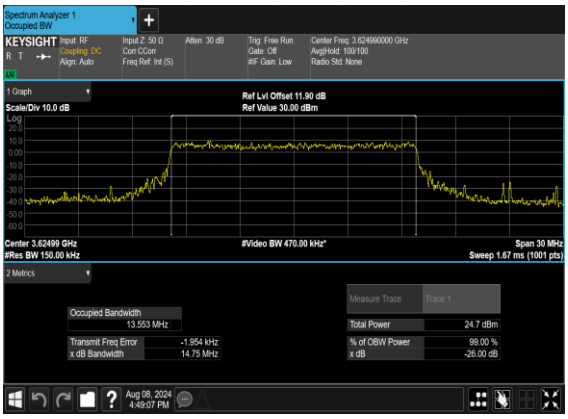
N48(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N48(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

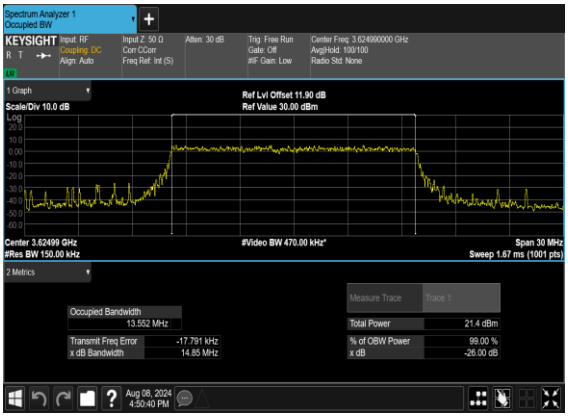


N48(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

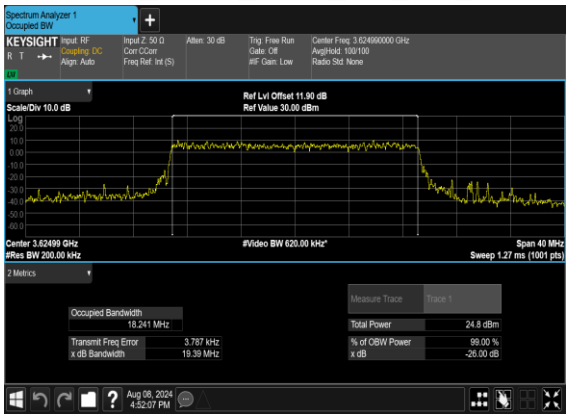


N48(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

N48(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



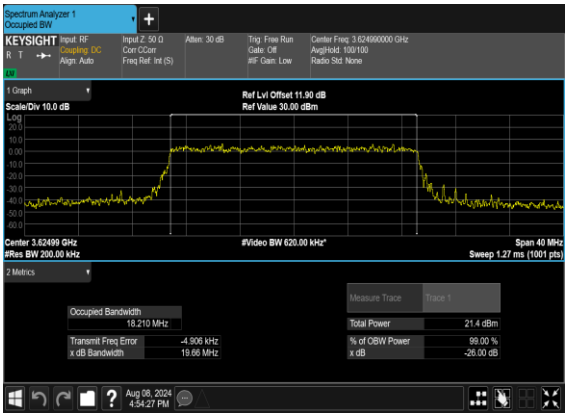
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



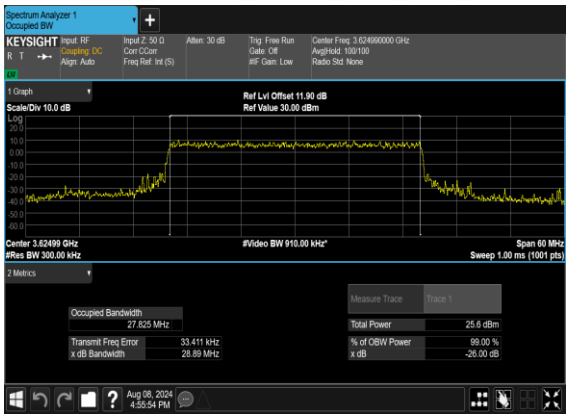
N48(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

N48(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

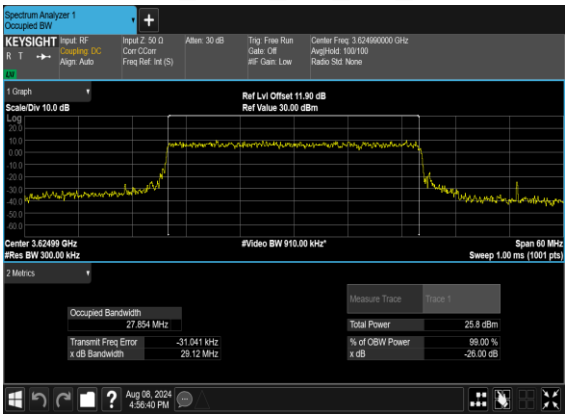
N48(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N48(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

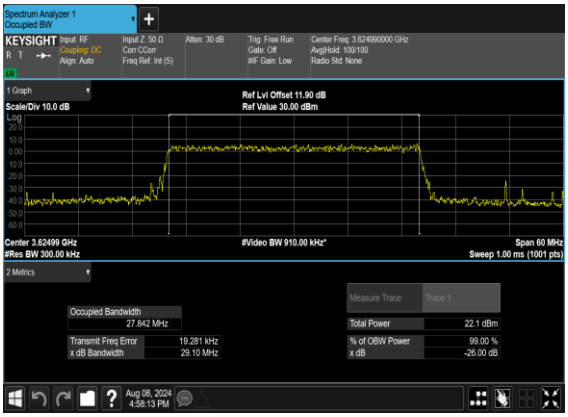


N48(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

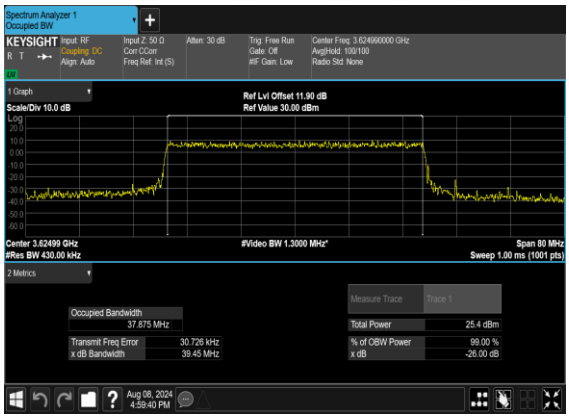


N48(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

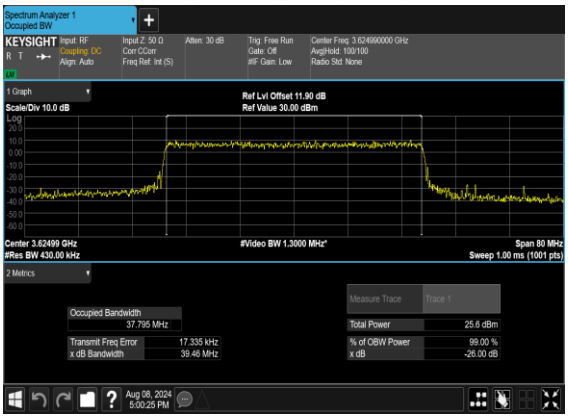
N48(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

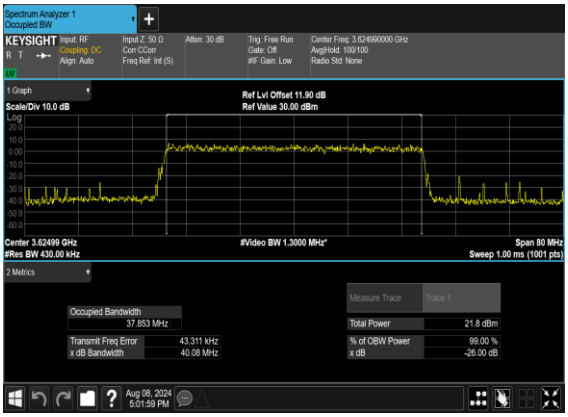


N48(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

N48(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

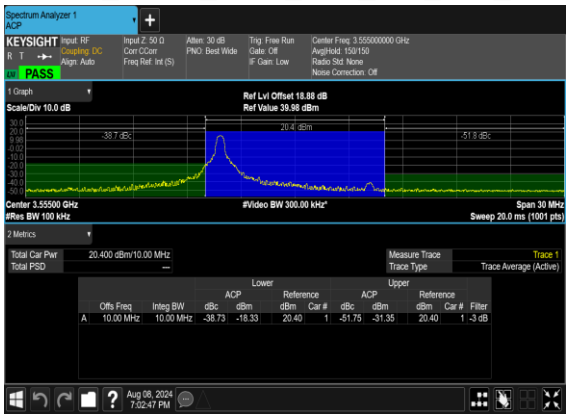


Adjacent Channel Leakage Ratio

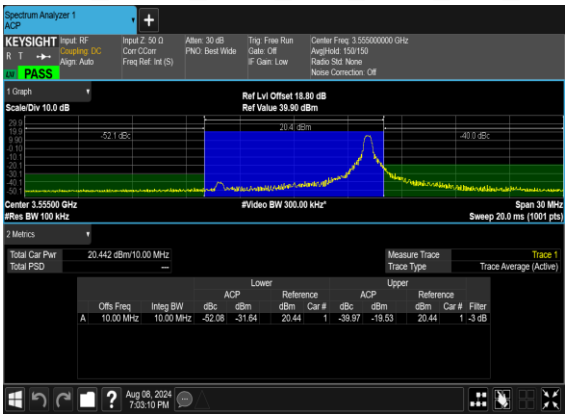
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	-8.73	-21.75	**see graph**	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	1@23	-22.08	-9.97	**see graph**	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	24@0	-12.79	-13.57	**see graph**	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	-10.2	-19.06	**see graph**	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@23	-21.55	-12.2	**see graph**	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	-12.57	-12.13	**see graph**	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	-9.06	-19.52	**see graph**	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@23	-18.83	-9.05	**see graph**	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	24@0	-11.49	-11.23	**see graph**	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	-9.43	-18.17	**see graph**	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@50	-19.33	-9.51	**see graph**	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	51@0	-14.08	-12.87	**see graph**	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	-9.63	-17.11	**see graph**	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@50	-17.17	-9.36	**see graph**	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	-11.77	-13.01	**see graph**	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	-8.34	-15.82	**see graph**	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@50	-17.05	-10.26	**see graph**	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	51@0	-10.7	-12.75	**see graph**	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	-10.01	-14.21	**see graph**	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@105	-14.17	-9.97	**see graph**	PASS

48	30	40	638000	3570.0	CP-OFDM QPSK	106@0	-11.67	-10.57	**see graph**	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	-10.03	-13.5	**see graph**	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@105	-12.19	-7.64	**see graph**	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	-9.92	-11.09	**see graph**	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	-9.58	-13.25	**see graph**	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@105	-14.2	-9.75	**see graph**	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	106@0	-9.39	-11.07	**see graph**	PASS

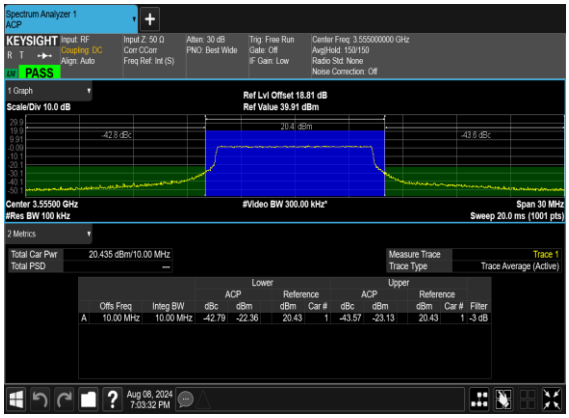
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



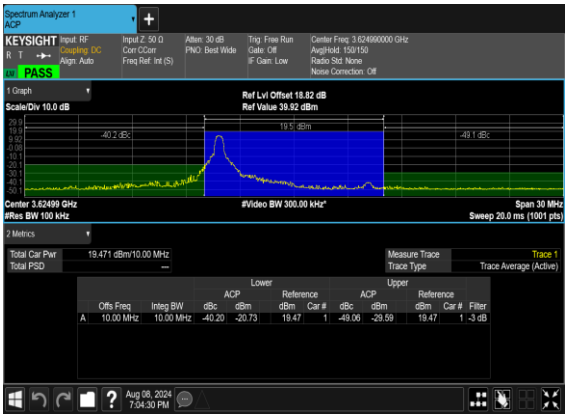
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



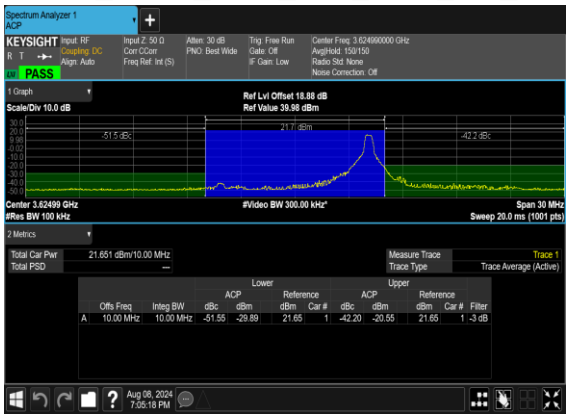
N48(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH



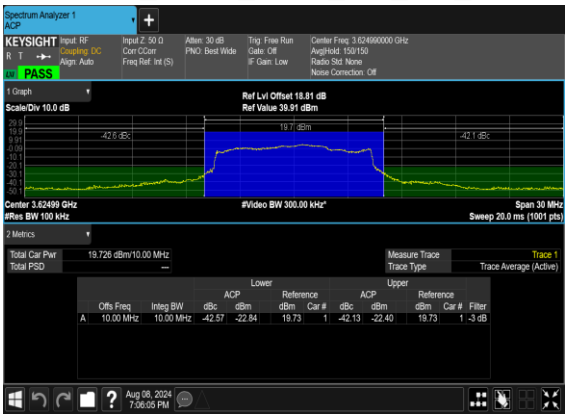
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



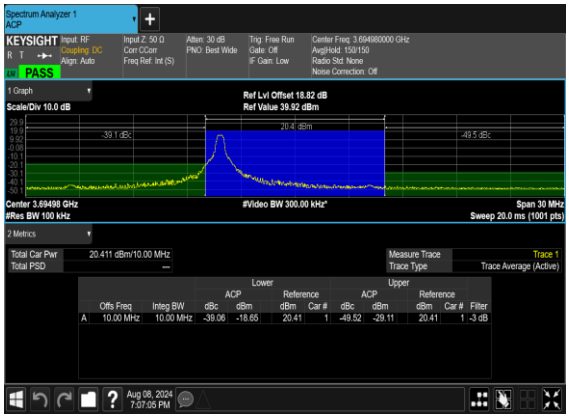
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



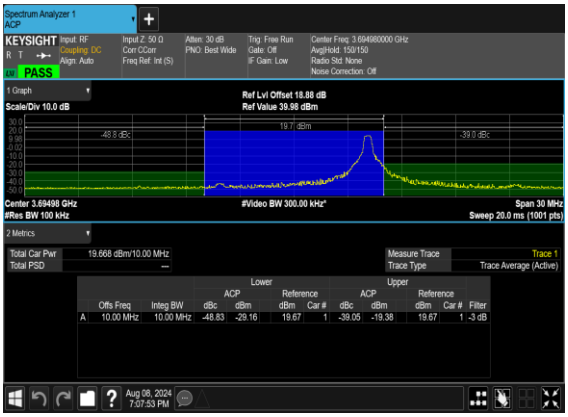
N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



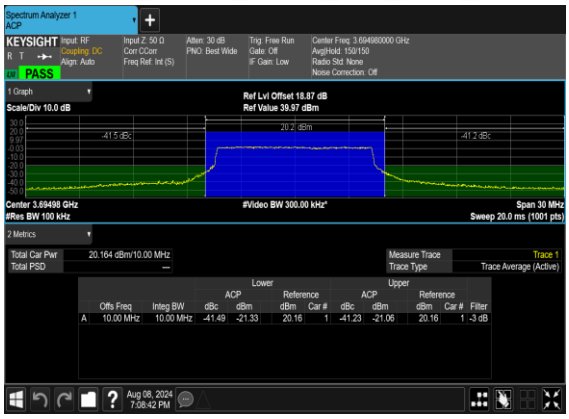
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



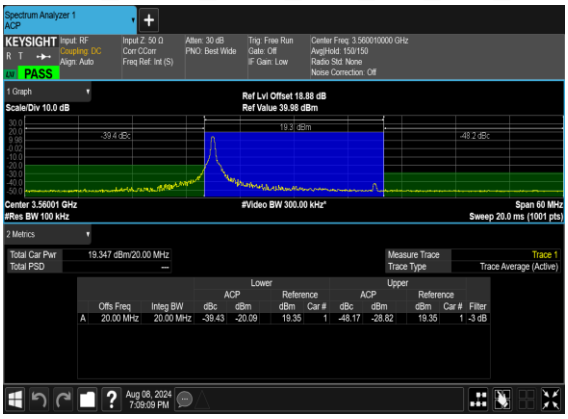
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



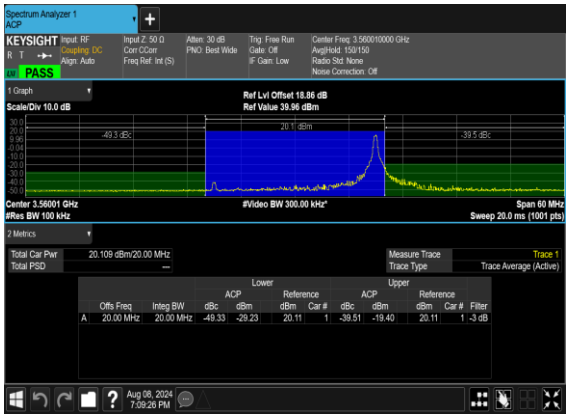
N48(10M)_CP-OFDM_QPSK_Outer_Full_High_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH

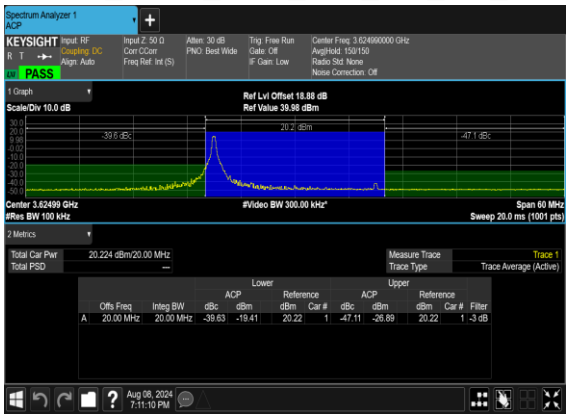


N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH

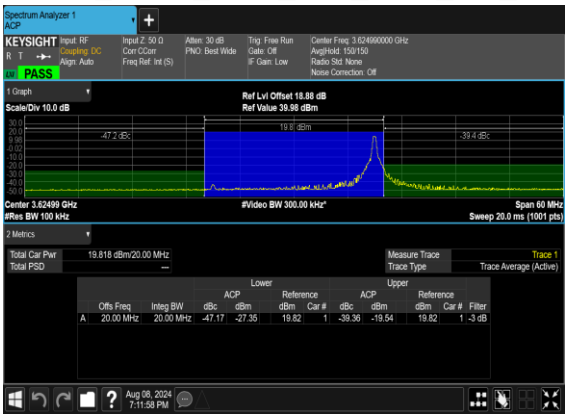


N48(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH

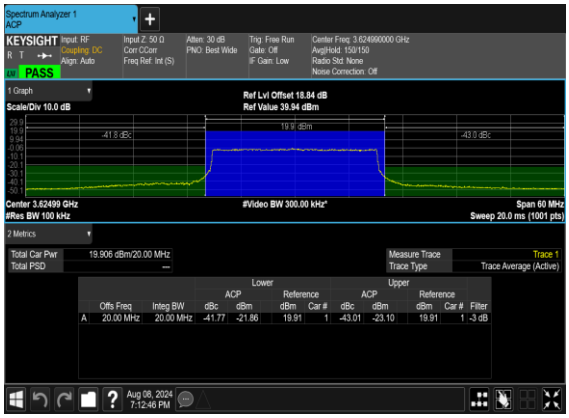
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



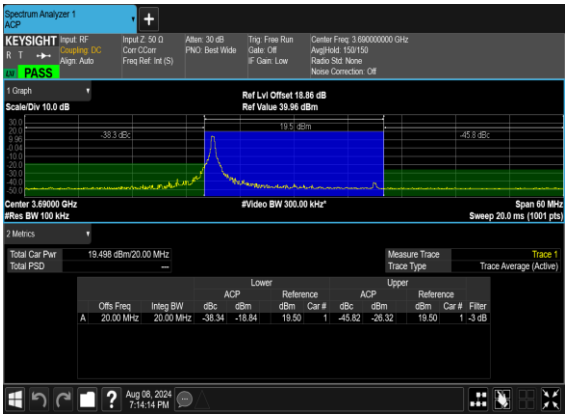
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



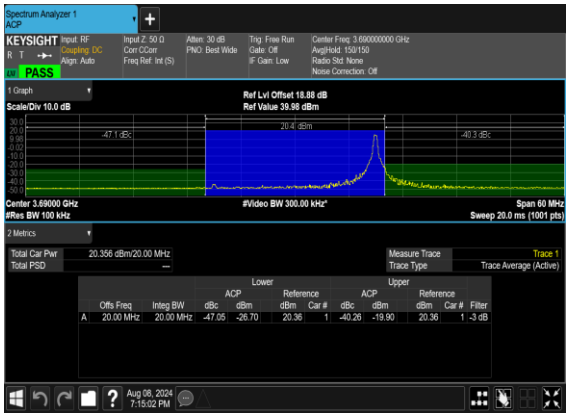
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



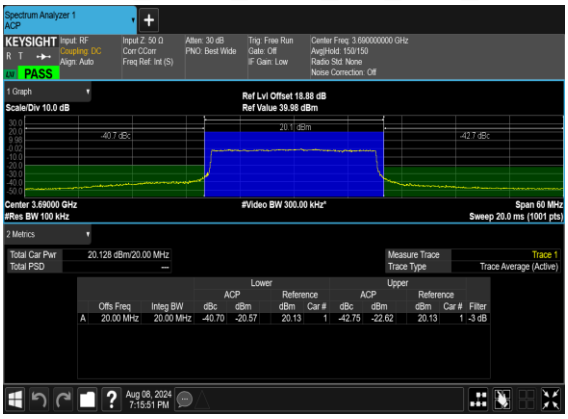
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



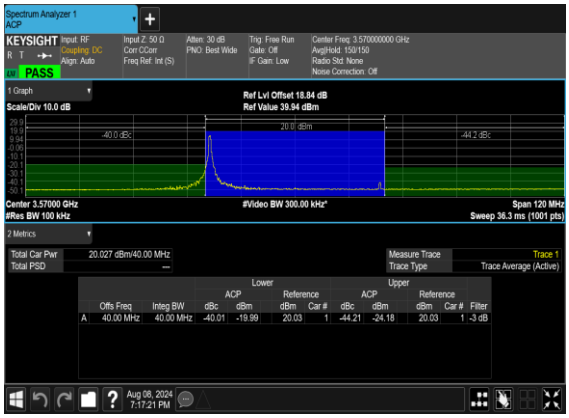
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



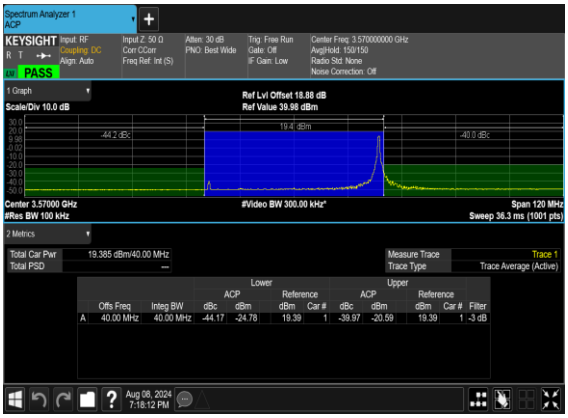
N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH



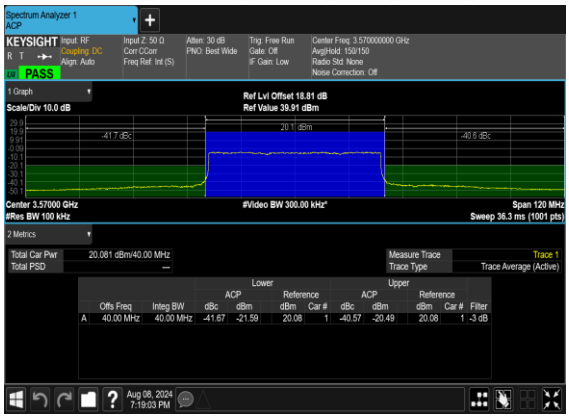
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



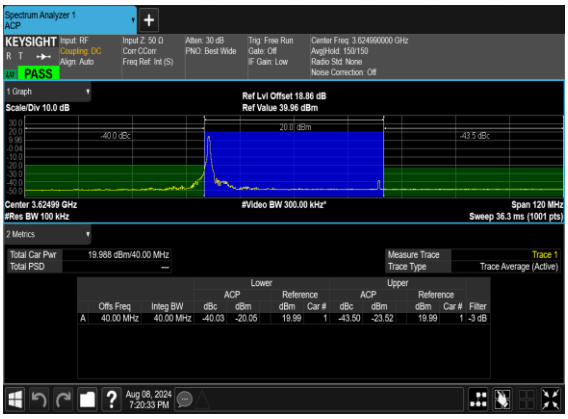
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH



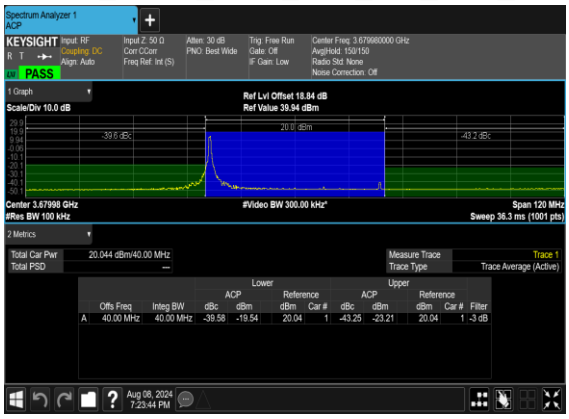
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



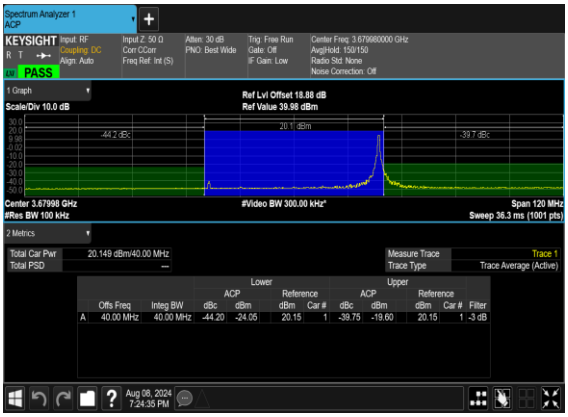
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH

N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

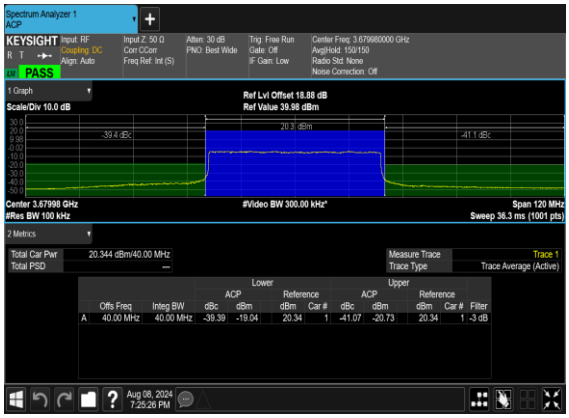
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(40M)_CP-OFDM_QPSK_Outer_Full_High_CH

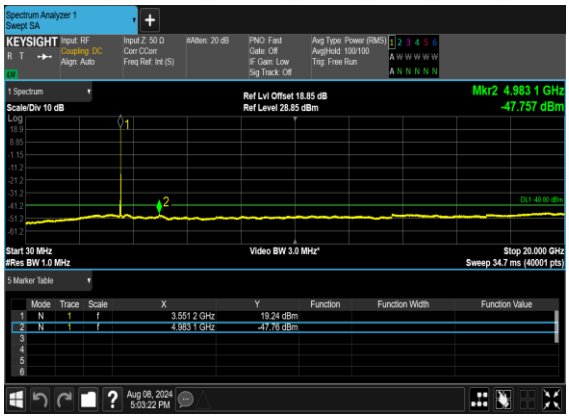


Conducted Spurious Emissions

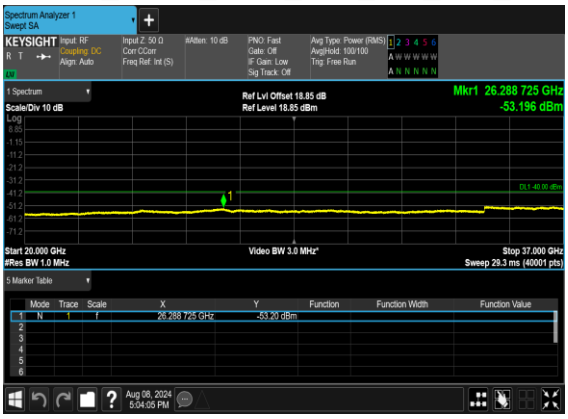
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	---
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	---
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	---
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	---
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	---
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	**PASS**

48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**---**
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	**---**
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	**PASS**

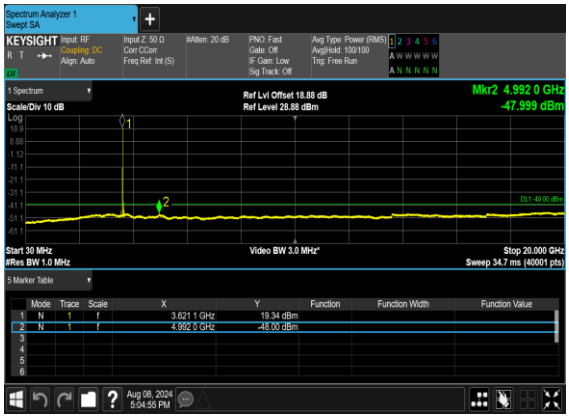
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



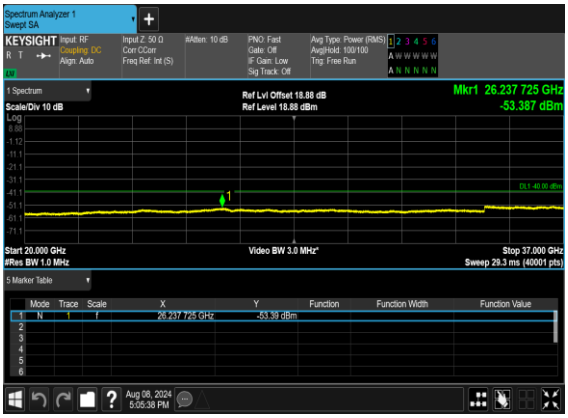
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



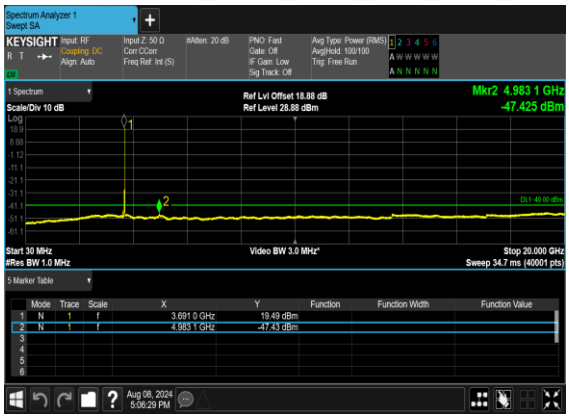
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



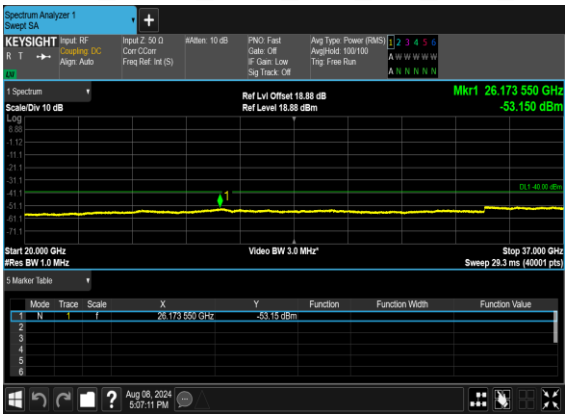
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



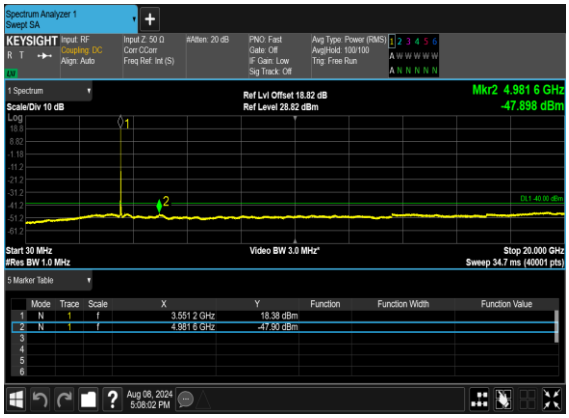
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



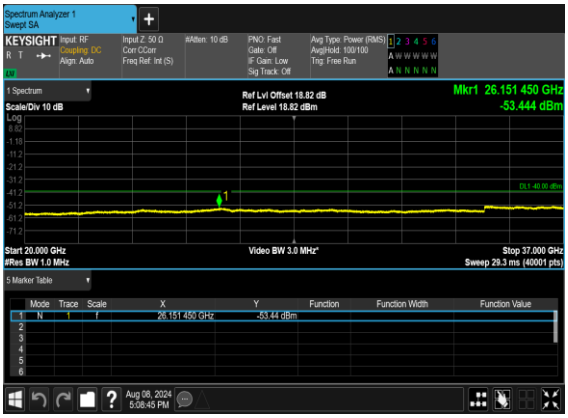
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



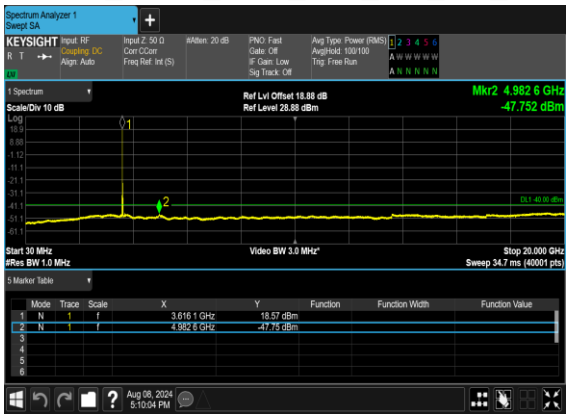
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



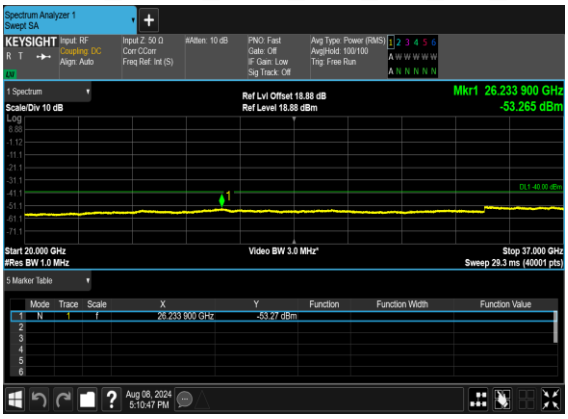
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



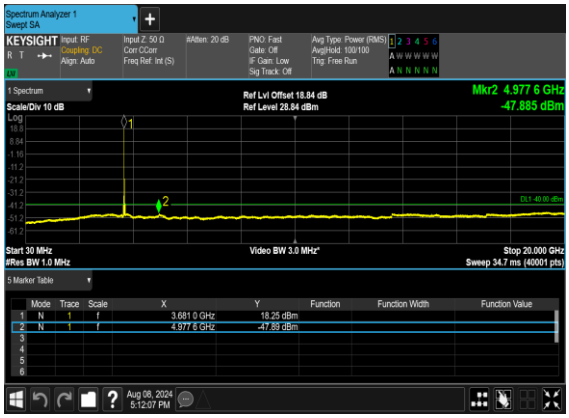
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



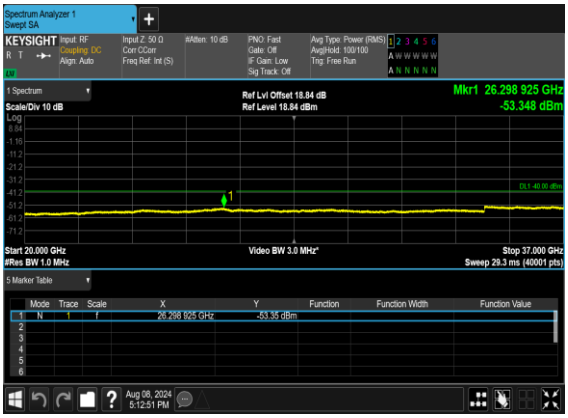
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



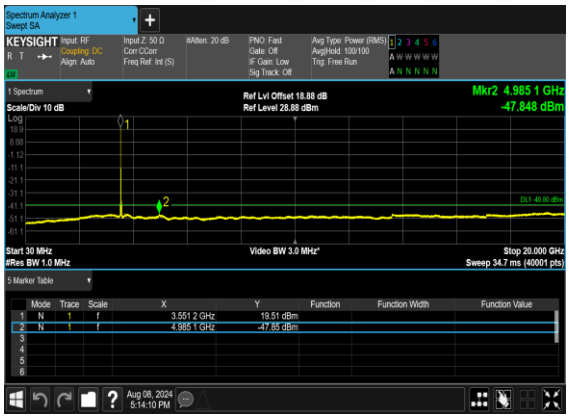
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



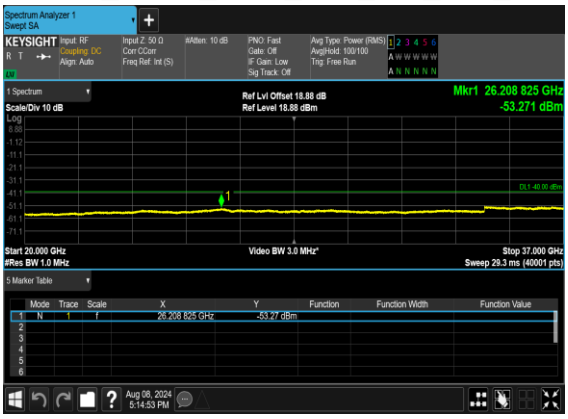
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



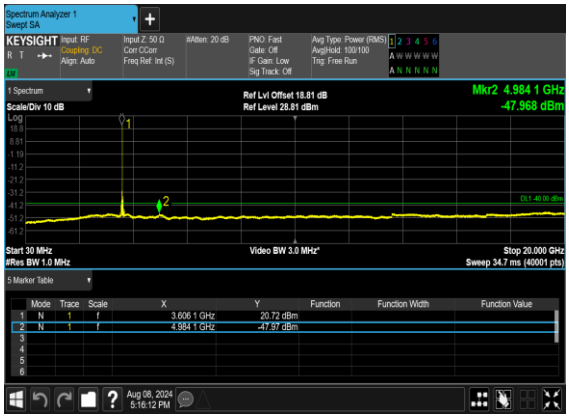
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



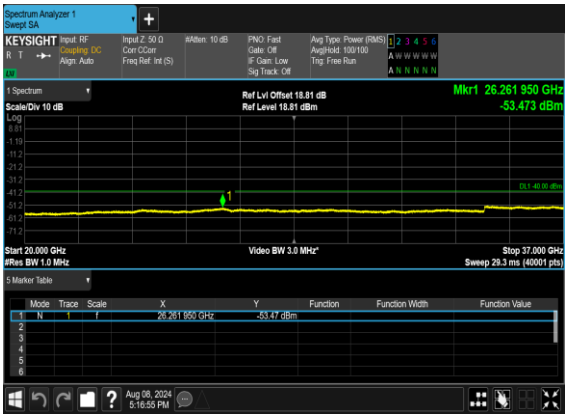
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



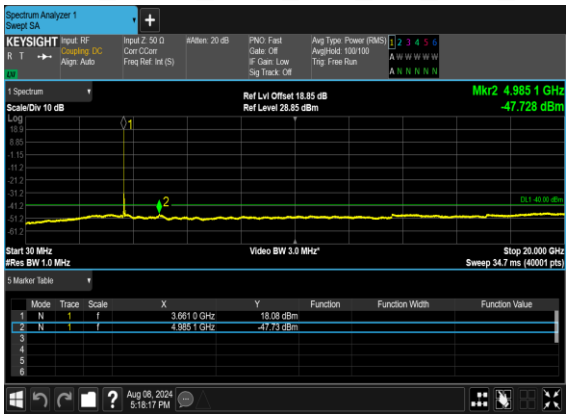
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



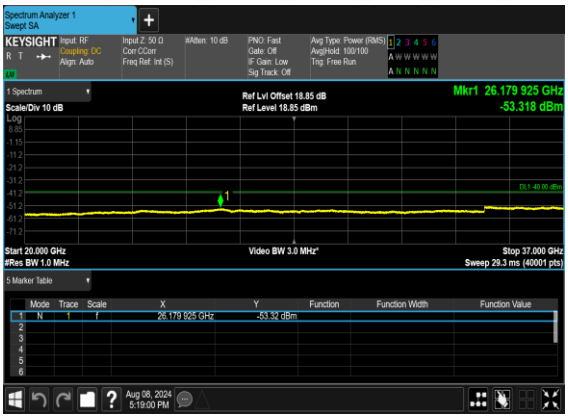
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH

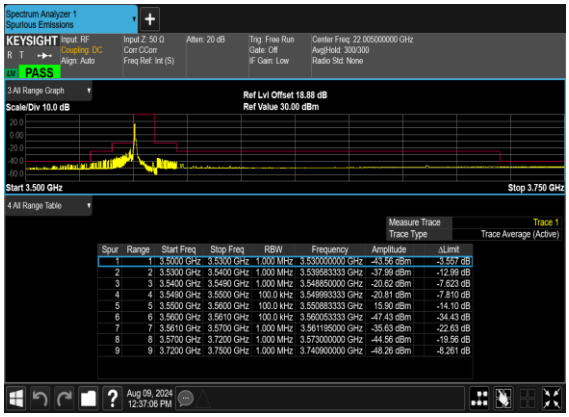


Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	CP-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	637000	3555.0	CP-OFDM QPSK	24@0	see graph	**PASS**
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	CP-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	see graph	**PASS**
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	CP-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	646332	3694.98	CP-OFDM QPSK	24@0	see graph	**PASS**
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	CP-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	637334	3560.01	CP-OFDM QPSK	51@0	see graph	**PASS**
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	CP-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	see graph	**PASS**
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	CP-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	646000	3690.0	CP-OFDM QPSK	51@0	see graph	**PASS**
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	CP-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	638000	3570.0	CP-OFDM QPSK	106@0	see graph	**PASS**
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	**PASS**

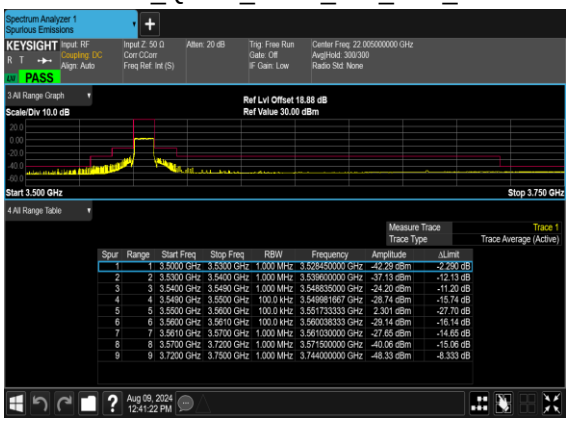
48	30	40	641666	3624.99	CP-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	see graph	**PASS**
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	CP-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	645332	3679.98	CP-OFDM QPSK	106@0	see graph	**PASS**

N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH

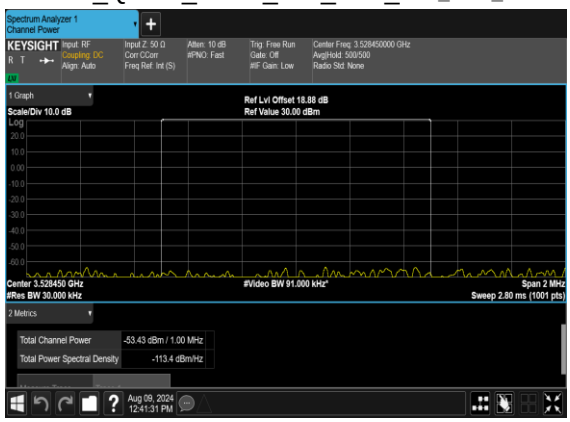


N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH

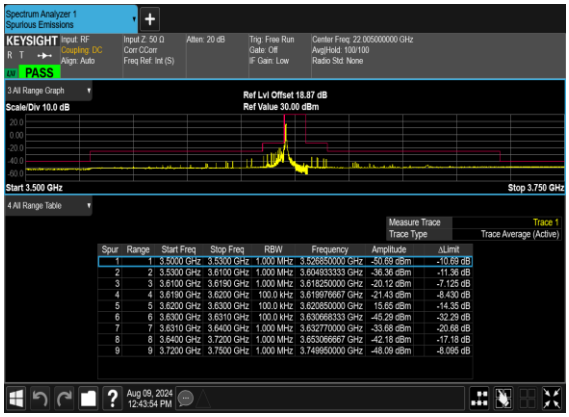
N48(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH



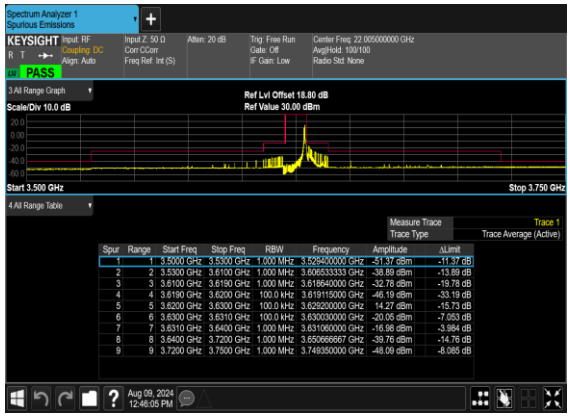
N48(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH_**CHP_PASS**



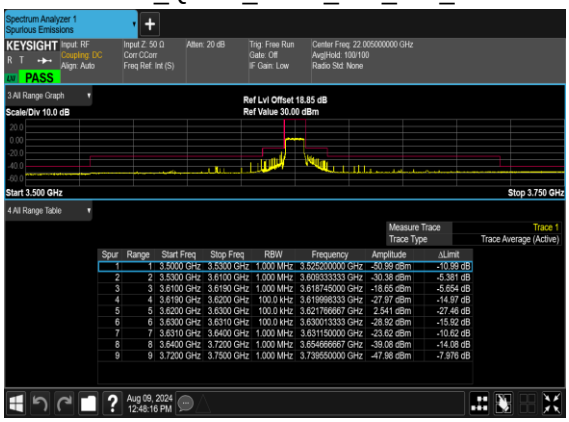
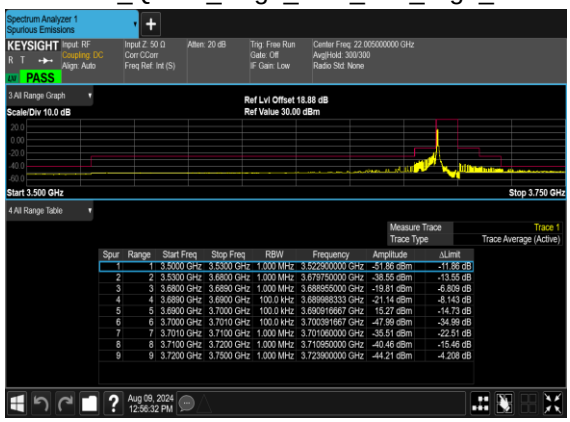
N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH