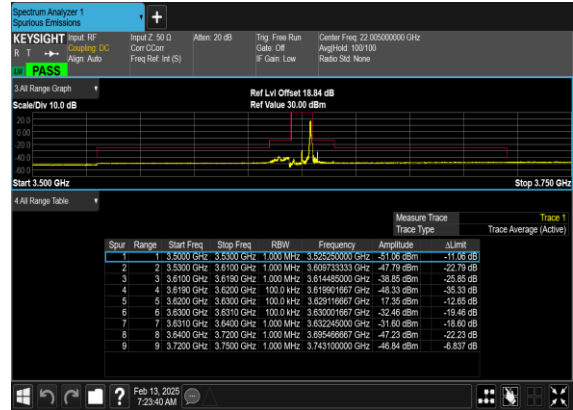




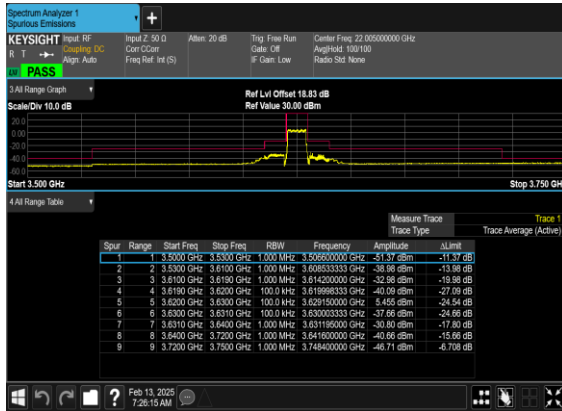
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



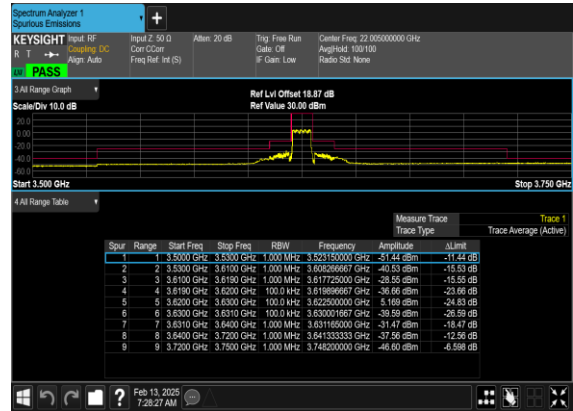
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH

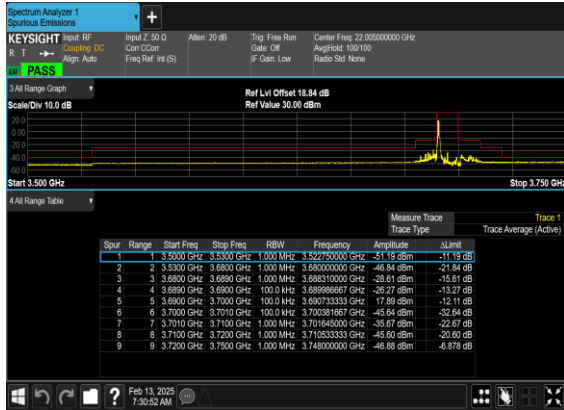


N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

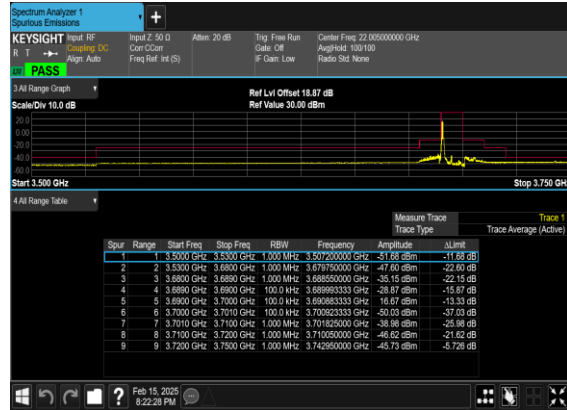




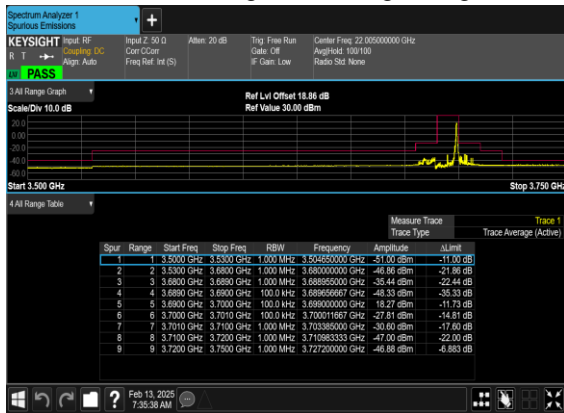
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



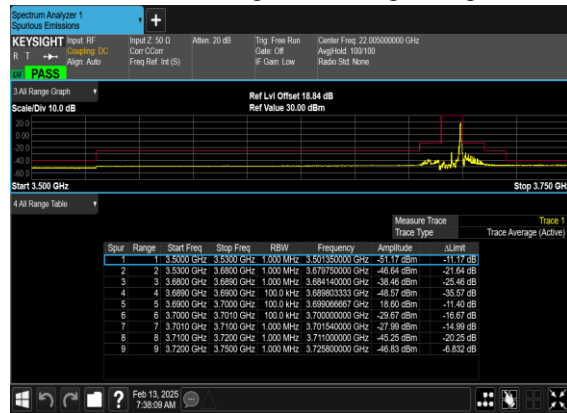
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

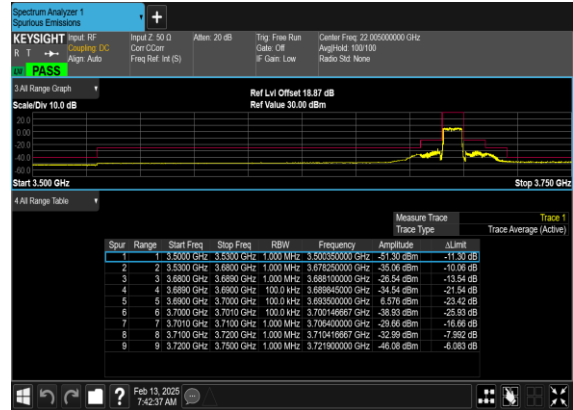




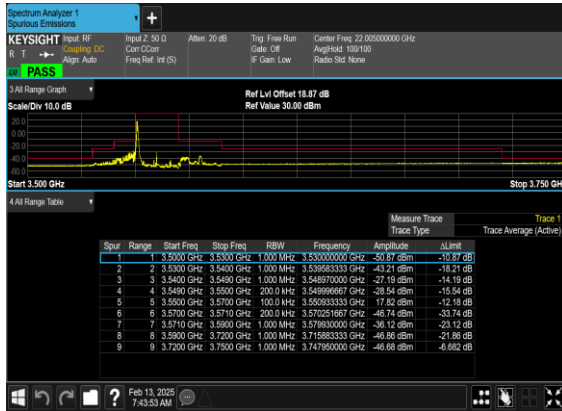
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



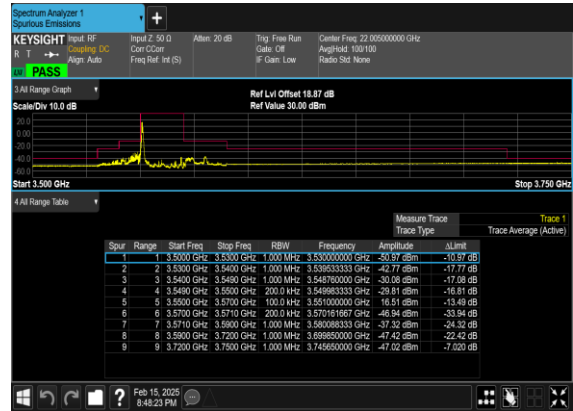
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

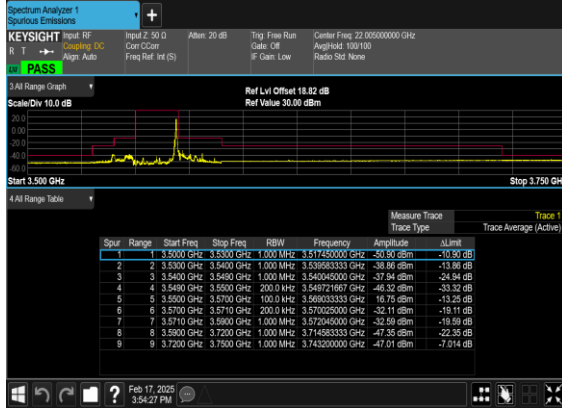


N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

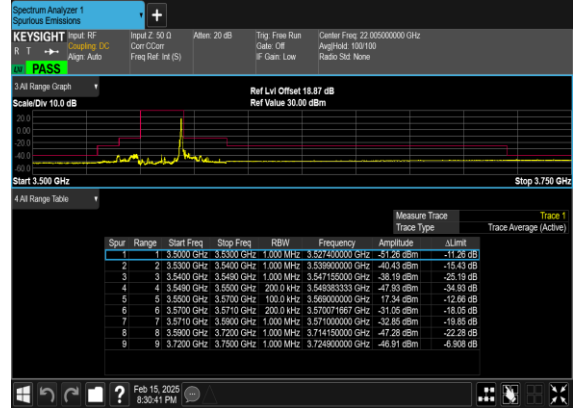




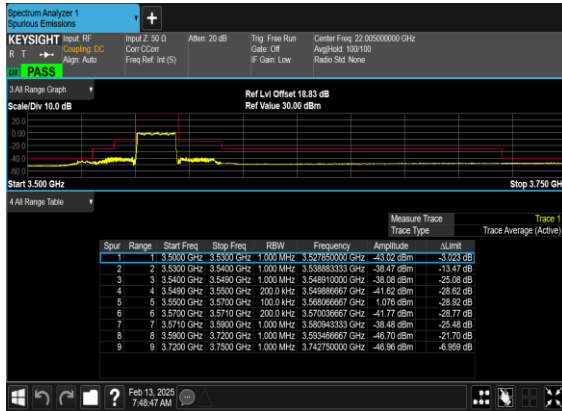
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



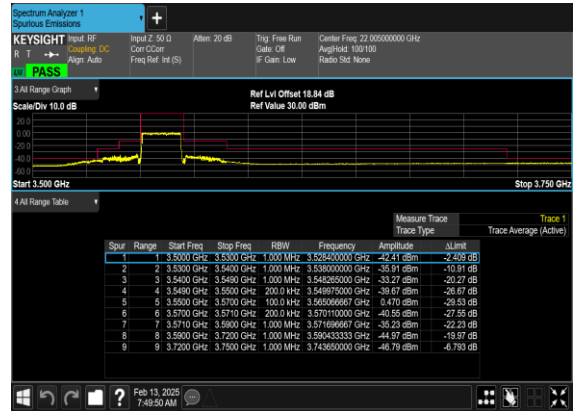
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



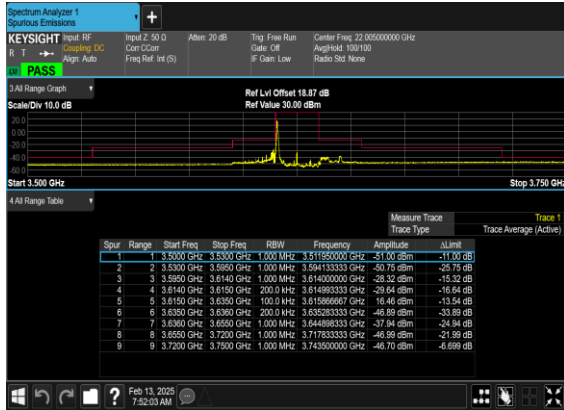
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



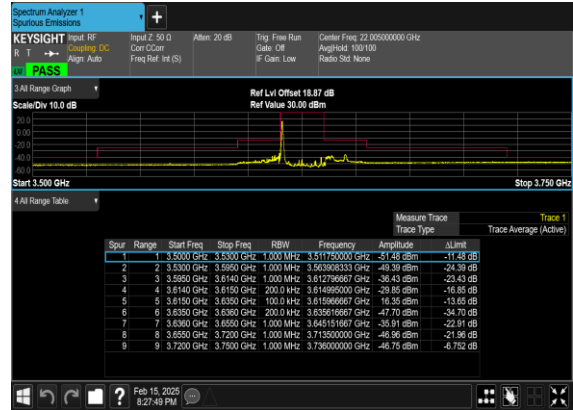
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



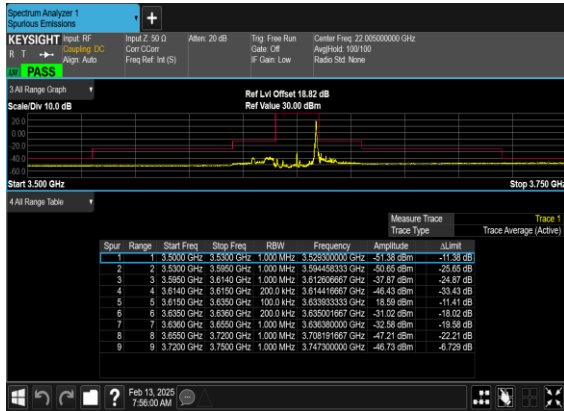
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



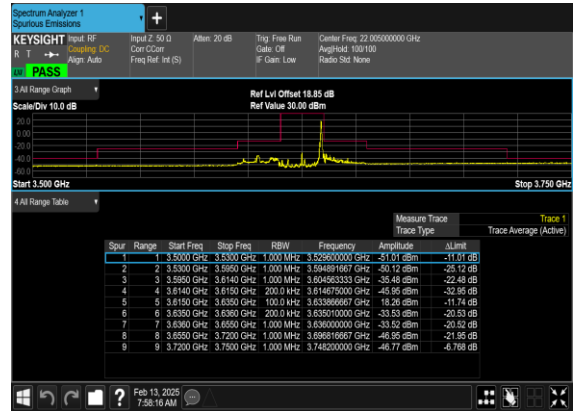
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH

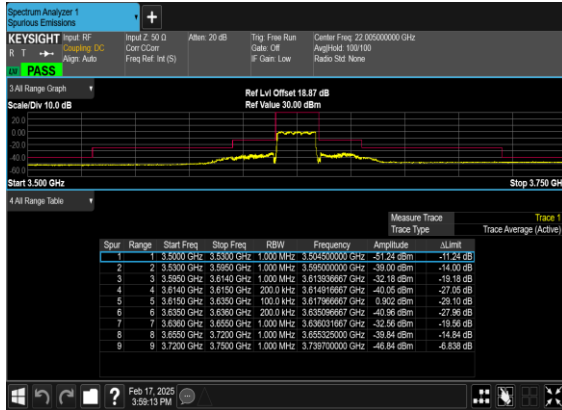


N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

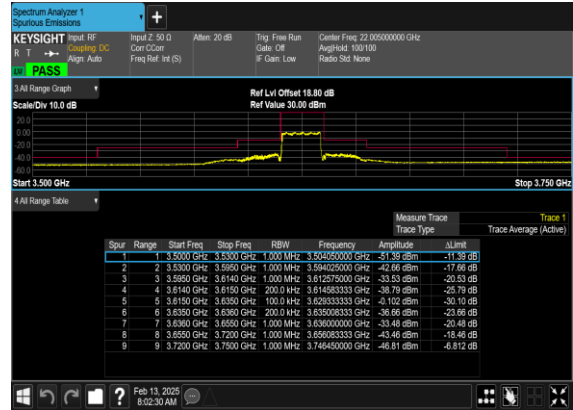




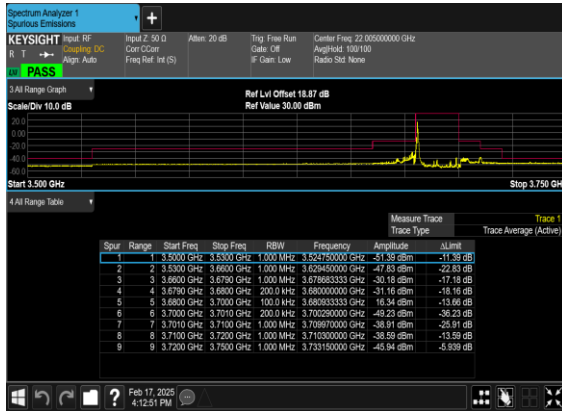
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



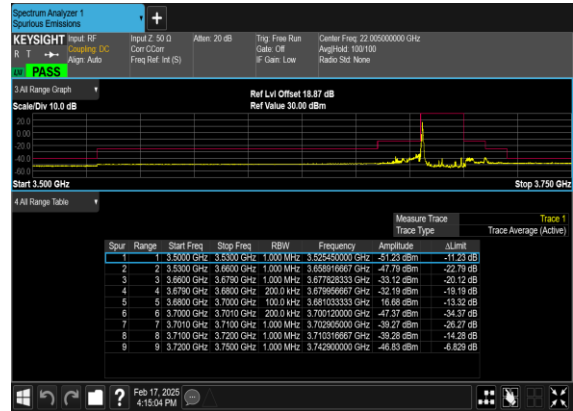
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

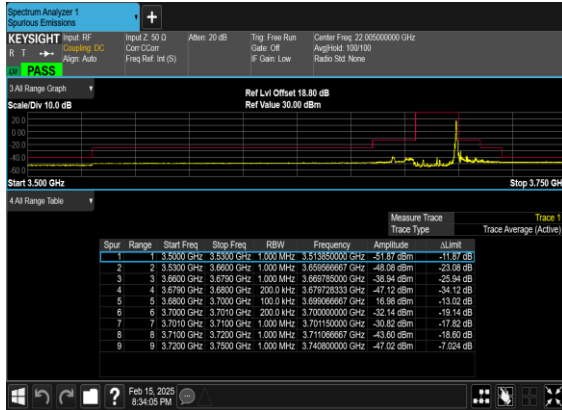


N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

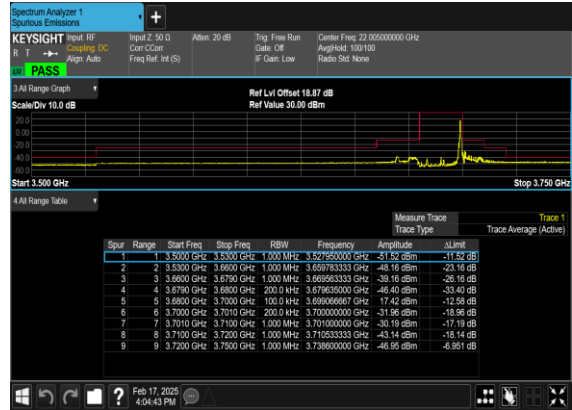




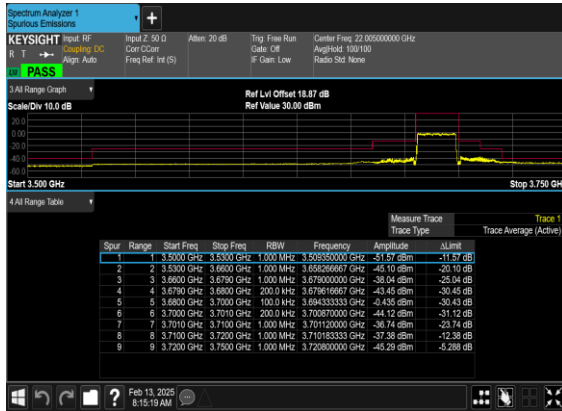
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



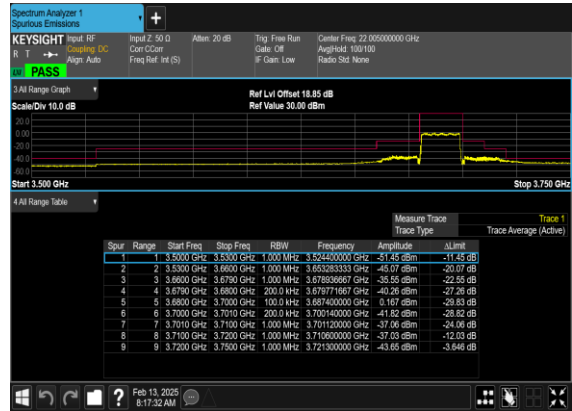
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



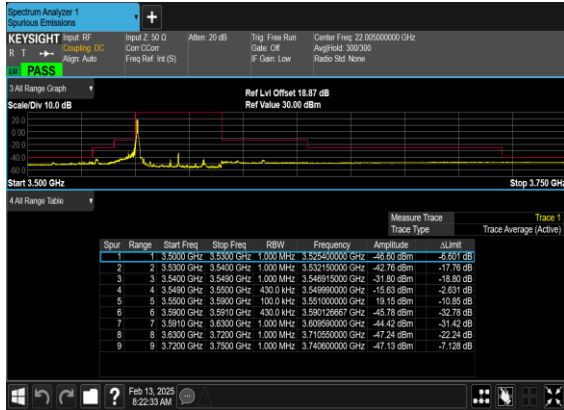
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



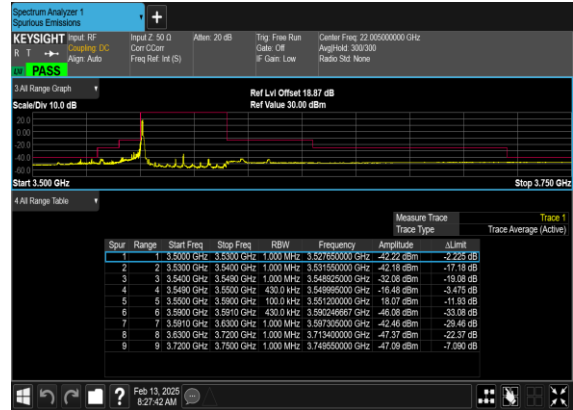
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



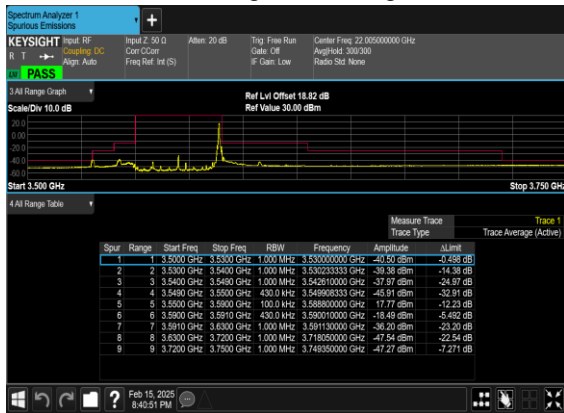
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



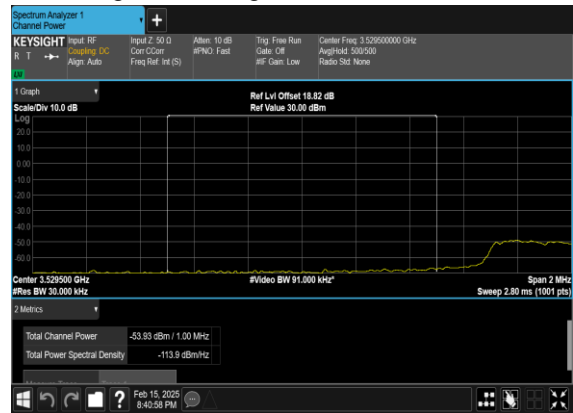
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Low_CH

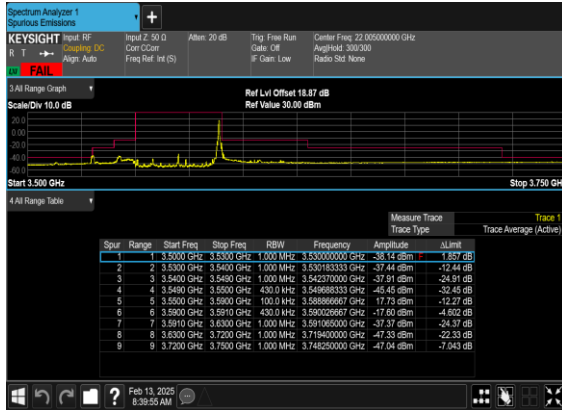


N48(40M)_DFT-s-OFDM_BPSK
_Edge_1RB_Right_Low_CH_CHP_PASS

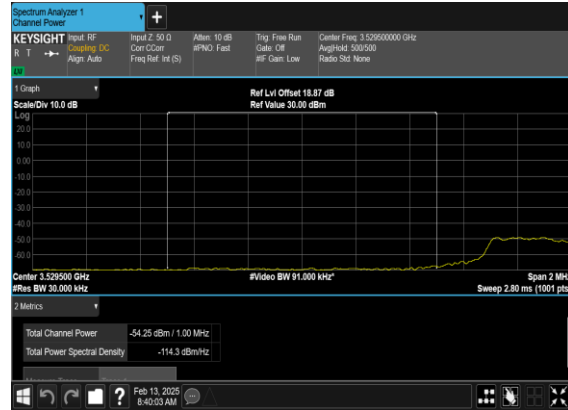




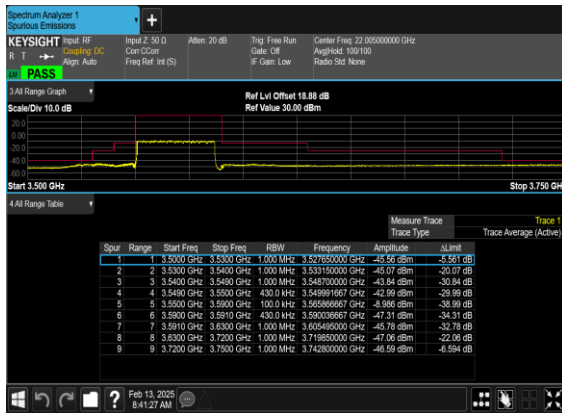
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



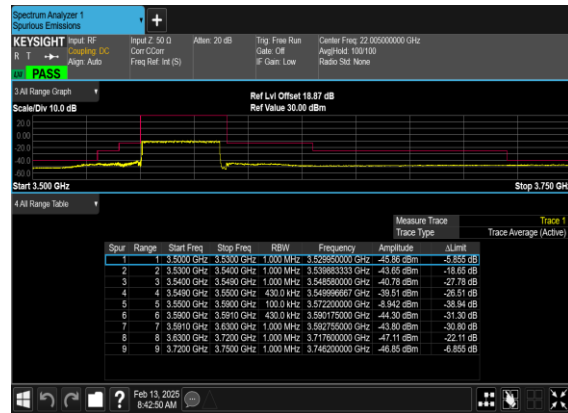
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH_CHP_PASS



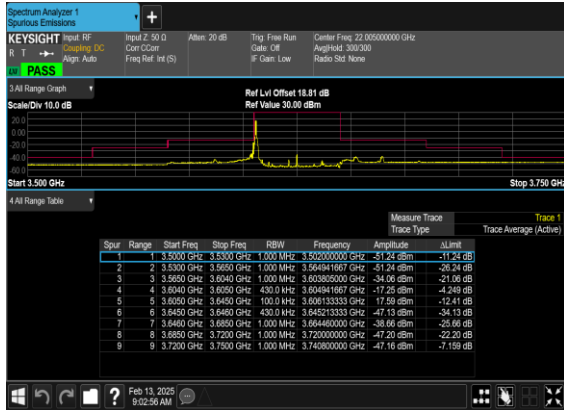
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



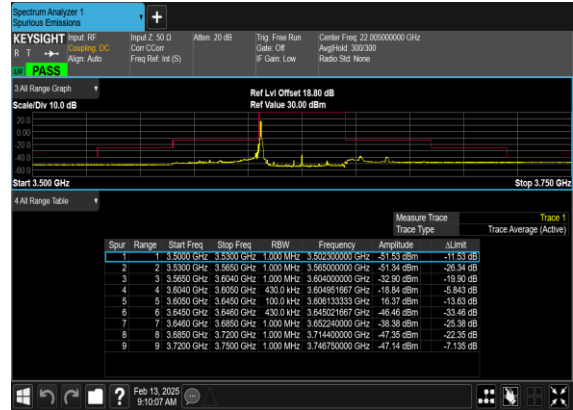
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



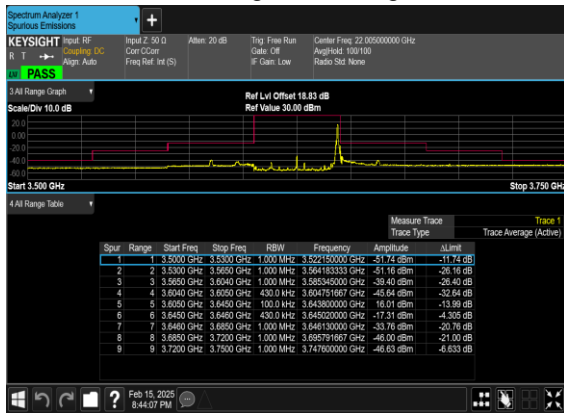
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



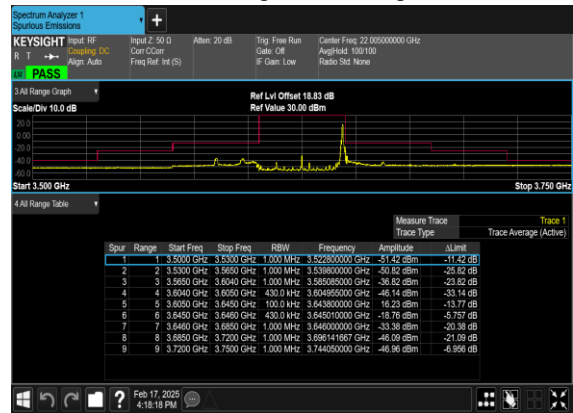
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



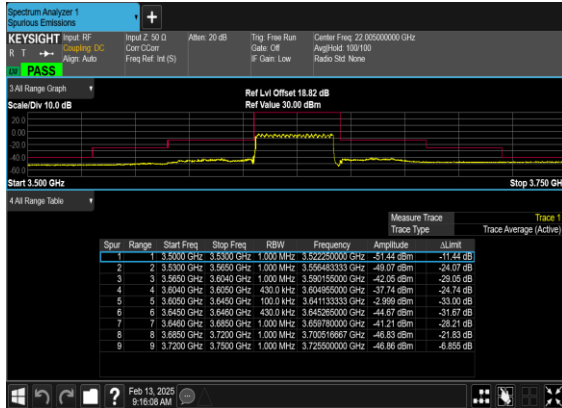
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH



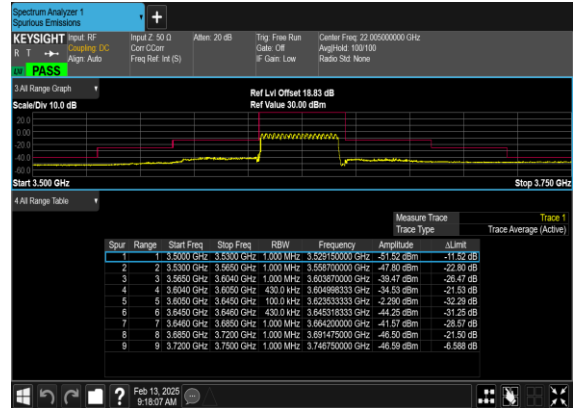
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



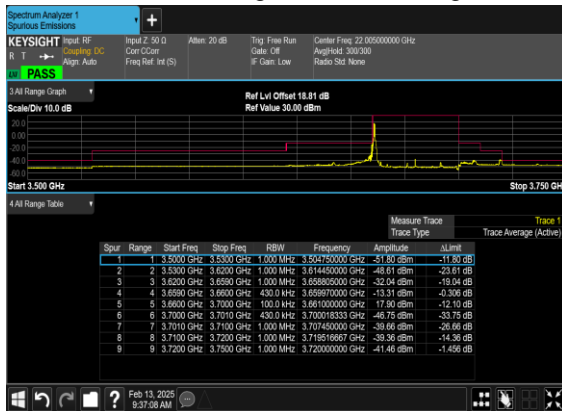
N48(40M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



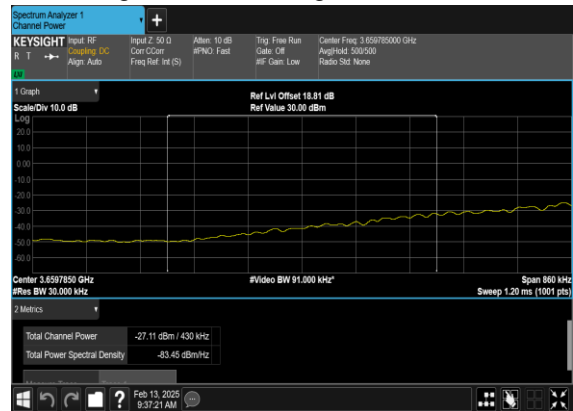
N48(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



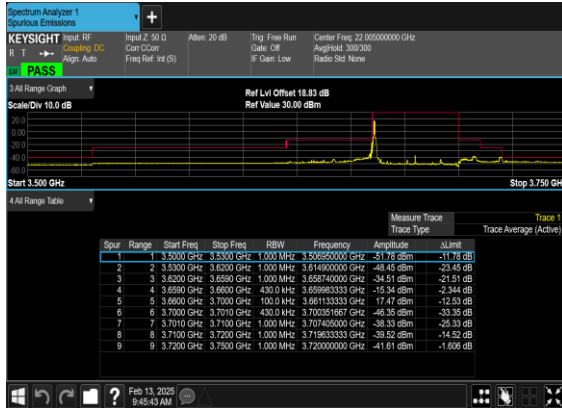
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



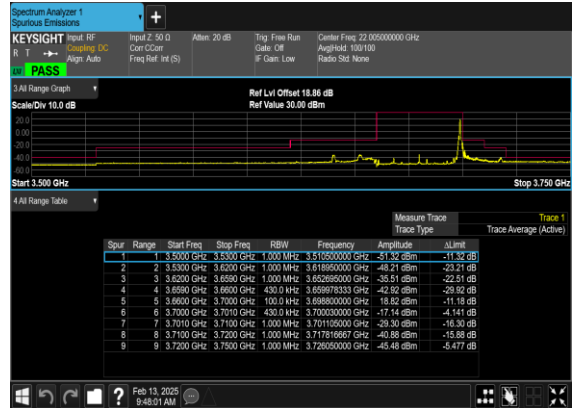
N48(40M)_DFT-s-OFDM_BPSK
_Edge_1RB_Left_High_CH_CHP_PASS



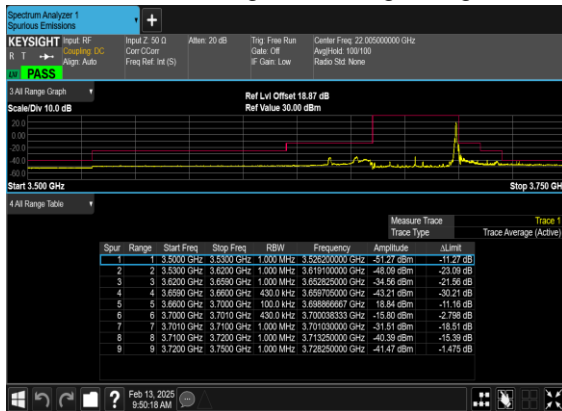
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



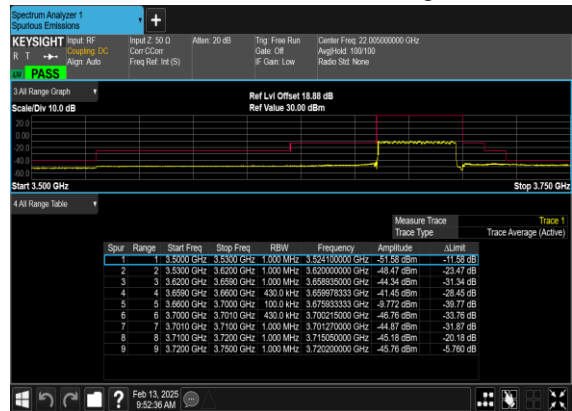
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

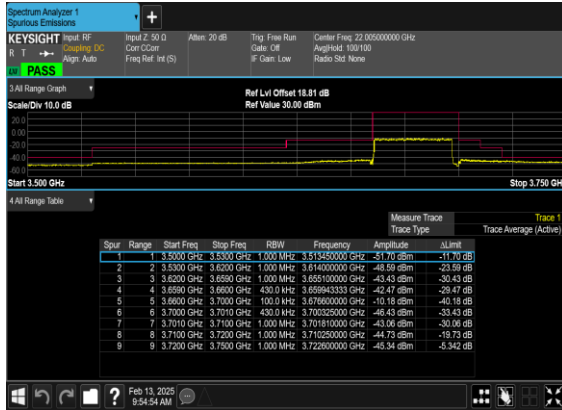


N48(40M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH





N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N48 MIMO-ANT6

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	6	PASS	NV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	9.1	PASS	LV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	14.6	PASS	HV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	10.5	PASS	-30°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	12.6	PASS	-20°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	6.1	PASS	-10°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	9.7	PASS	0°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	3.4	PASS	10°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	6	PASS	20°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	8.3	PASS	30°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	5.6	PASS	40°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	12.1	PASS	50°C

|MAX(Δf)| = 14.6 Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL - MAX(Δf)	3550.859185	≥ 3550 MHz	PASS
fH + MAX(Δf)	3698.751215	≤ 3700 MHz	

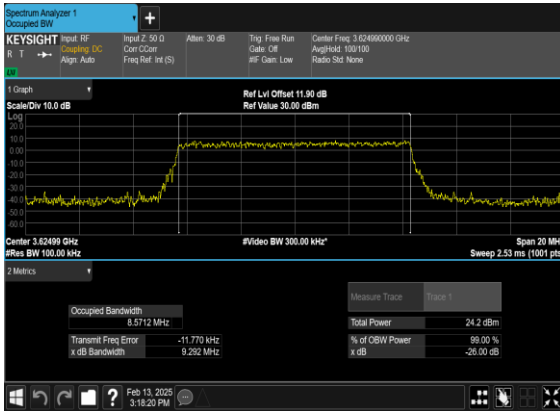


Occupied Bandwidth

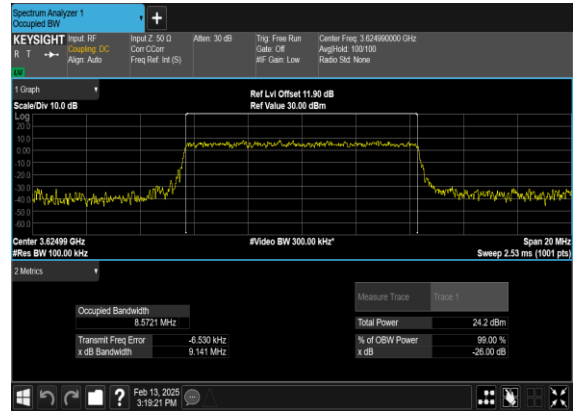
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5712	9.292
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5721	9.141
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5753	9.201
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.578	9.089
48	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.546	14.1
48	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.531	14.24
48	30	15	641666	3624.99	CP-OFDM 64 QAM	38@0	13.558	14.15
48	30	15	641666	3624.99	CP-OFDM 256 QAM	38@0	13.556	14.34
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.201	18.88
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.231	19.03
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.185	18.86
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.206	18.94
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.83	29.02
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.828	29.15
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.718	29.05
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.894	28.83
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.858	39.39
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.806	39.24
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.867	39.3
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.751	39.28



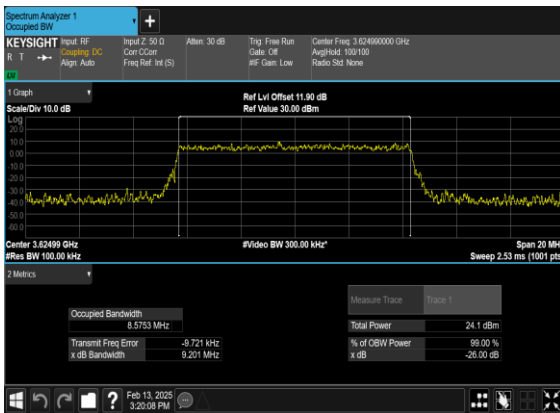
N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



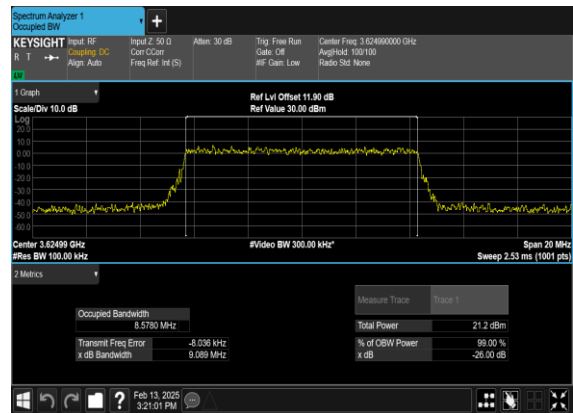
N48(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

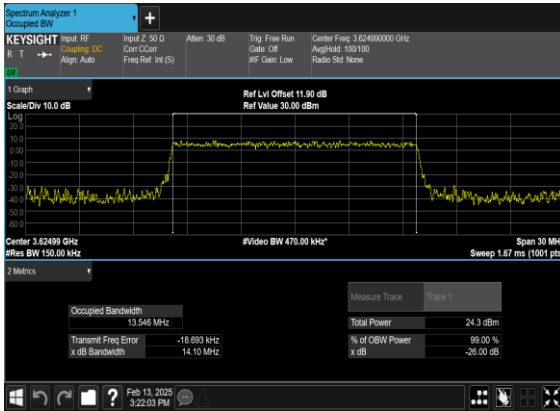


N48(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

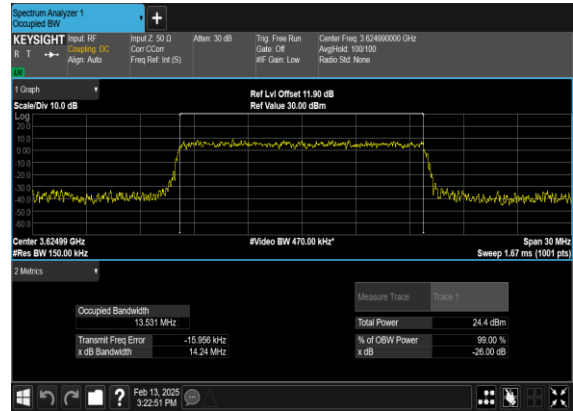




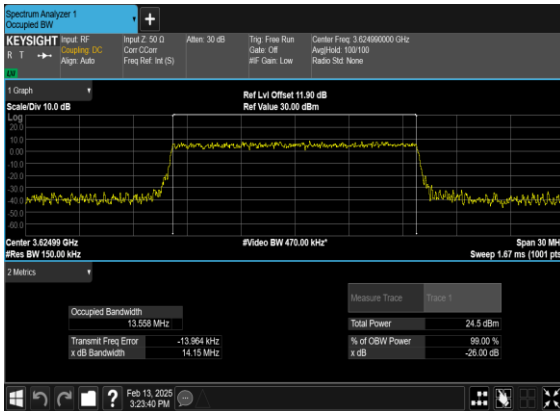
N48(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



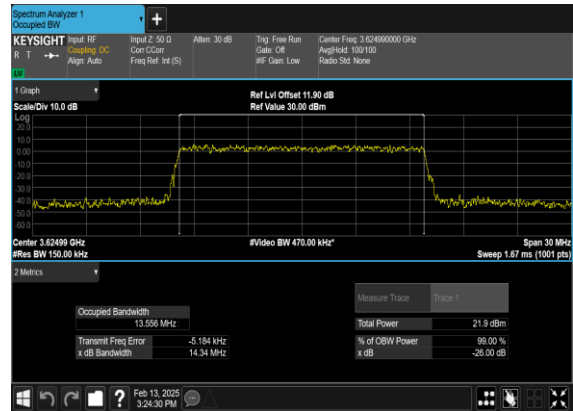
N48(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

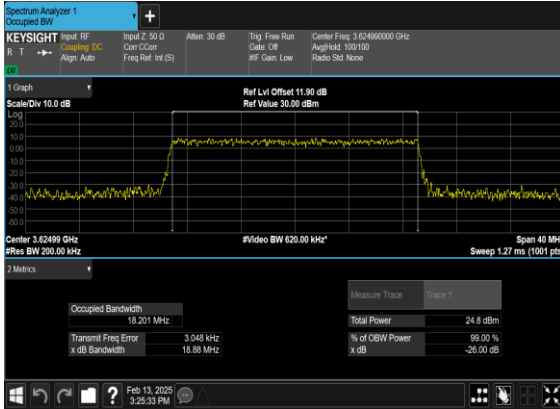


N48(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

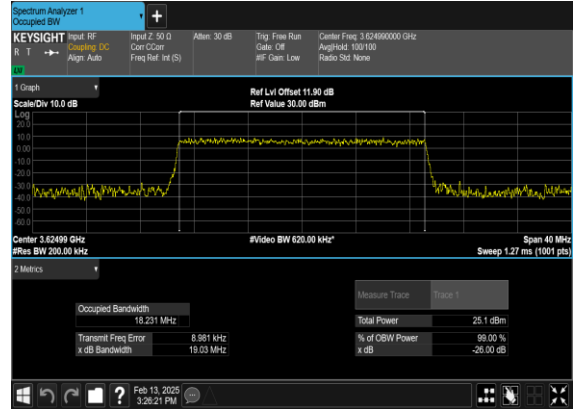




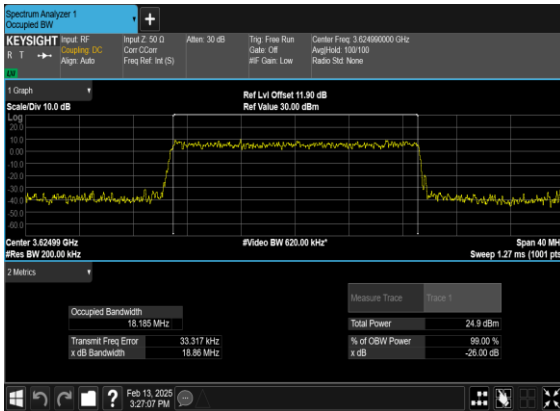
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



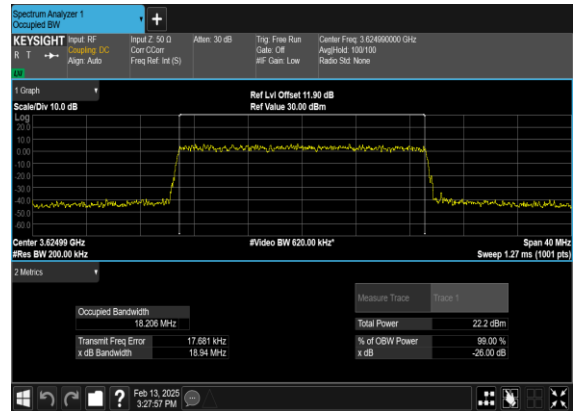
N48(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

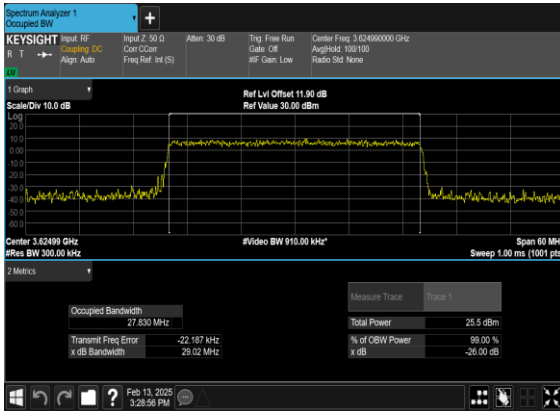


N48(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

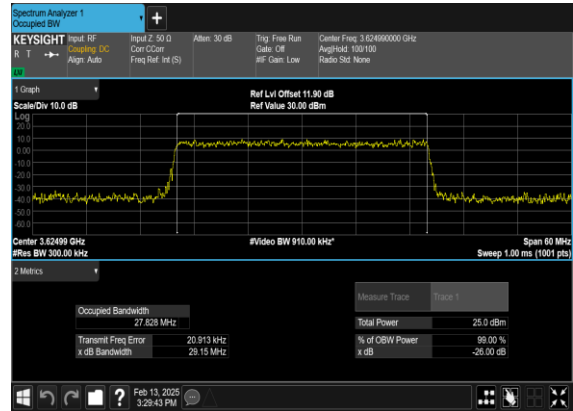




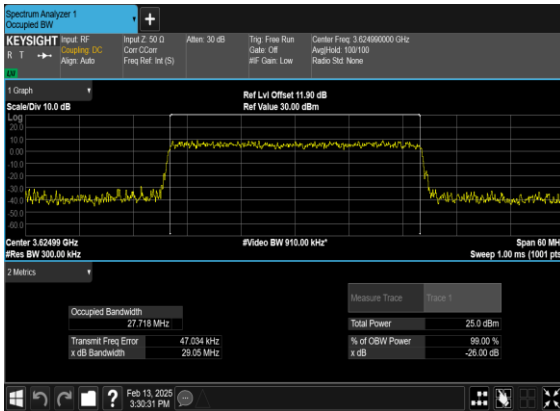
N48(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



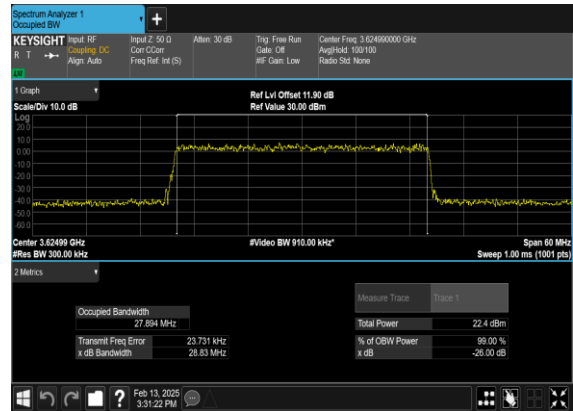
N48(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N48(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

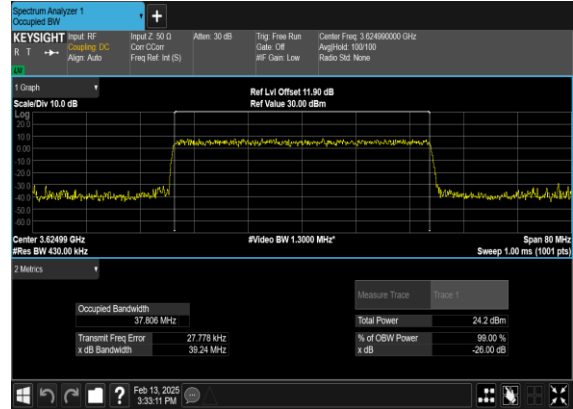




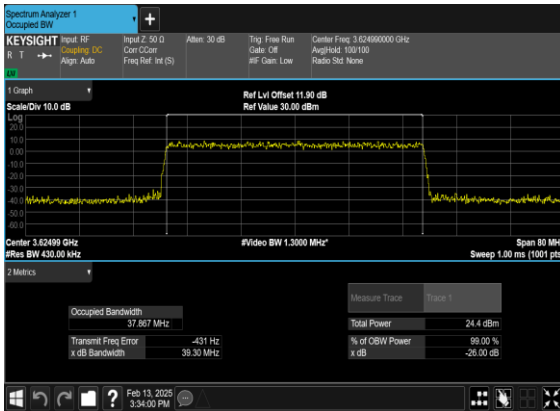
N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



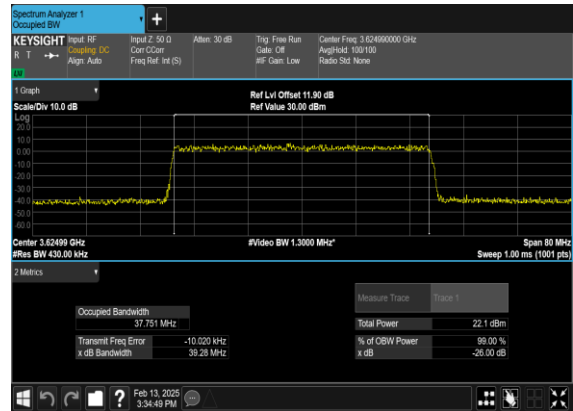
N48(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH





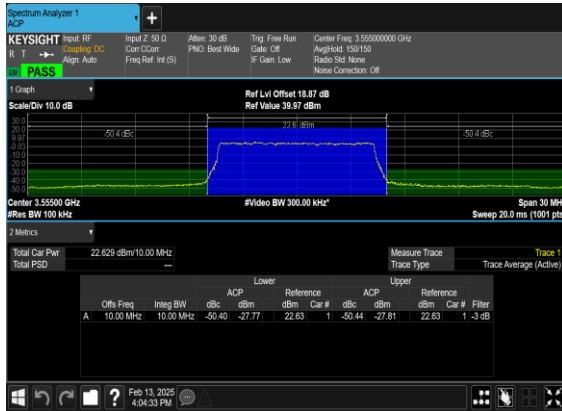
Adjacent Channel Leakage Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	24@0	-20.4	-20.44	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-18.67	-22.73	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@23	-22.43	-18.97	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	-19.27	-19.38	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-18.31	-22.31	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	-22.16	-19.22	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	24@0	-18.2	-18.06	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-17.52	-19.86	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@23	-19.88	-17.18	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	-17.63	-18.26	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-16.97	-18.26	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	-21.84	-20.06	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	24@0	-18.38	-18.1	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-18.09	-20.4	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@23	-20.62	-18.23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	-17.15	-17.07	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-17.2	-20.13	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	-19.79	-17.41	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	50@0	-16.91	-16.98	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@0	-18.18	-19.54	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@50	-20.62	-19.1	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	-16.25	-15.98	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	-19.02	-20.01	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	-19.32	-18.09	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	-15.11	-14.8	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-15.89	-16.18	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@50	-16.71	-15.83	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-14.52	-13.42	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	-15.16	-15.43	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	-16.23	-15.47	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	50@0	-13.42	-13.3	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM	1@0	-16.61	-16.9	see	PASS

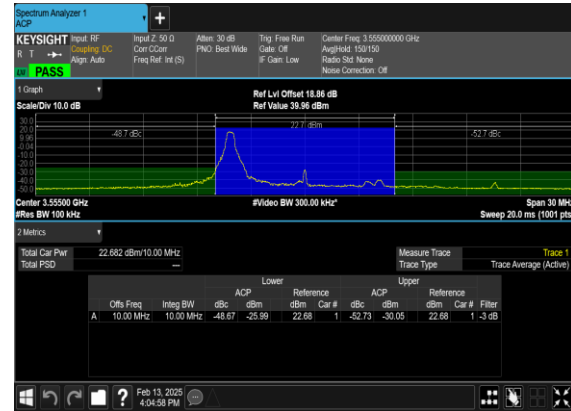


PI/2 BPSK										graph
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@50	-17.79	-16.71	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	-13.41	-13.1	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	-16.81	-17.3	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	-18.0	-16.99	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	100@0	-6.09	-5.58	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@0	-13.49	-14.47	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@105	-13.75	-12.75	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	-6.05	-5.55	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	-12.41	-12.96	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	-13.69	-12.64	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-11.02	-10.55	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-13.38	-14.06	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-15.13	-13.28	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	-10.96	-10.38	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	-12.66	-12.88	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	-15.6	-14.1	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	100@0	-5.44	-4.42	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@0	-13.8	-13.9	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@105	-15.04	-13.14	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	-5.48	-4.44	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	-12.54	-12.89	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	-15.02	-13.41	see graph	PASS

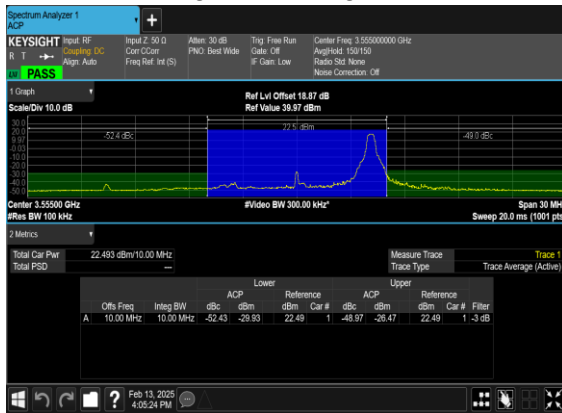
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



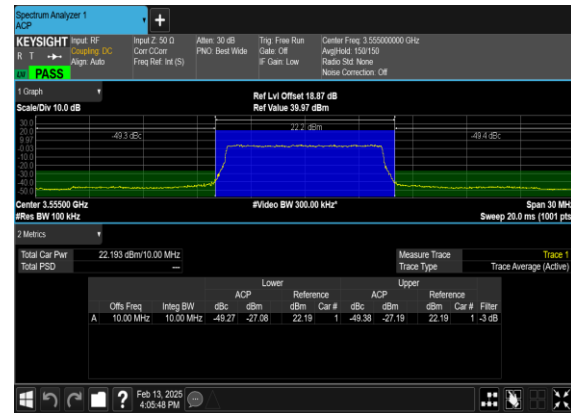
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



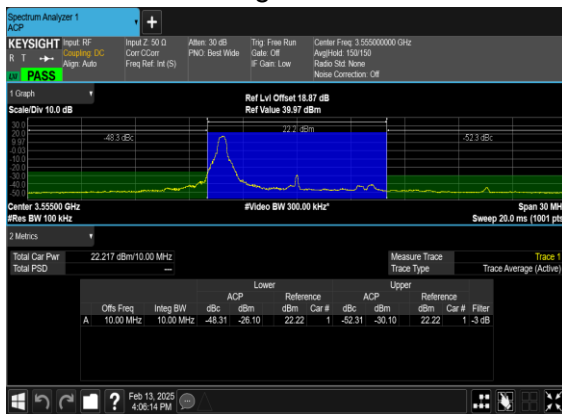
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Low_CH



N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



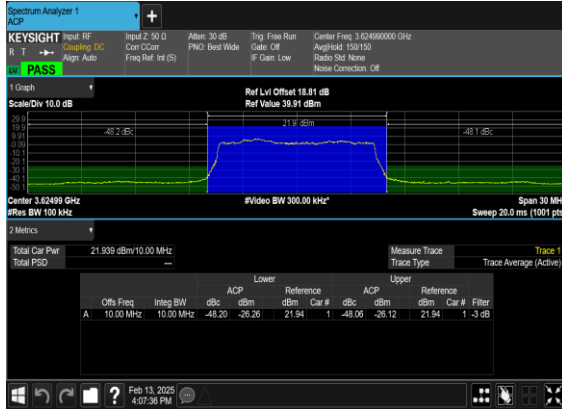
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



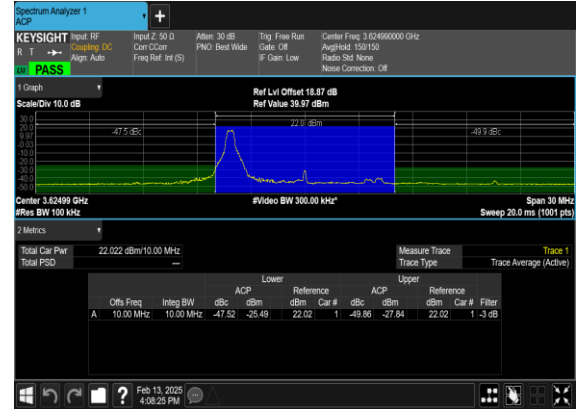
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



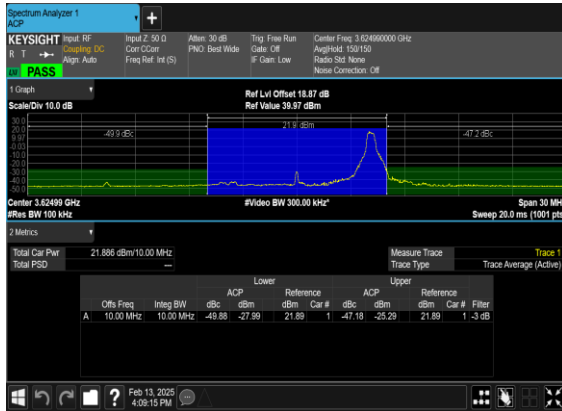
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



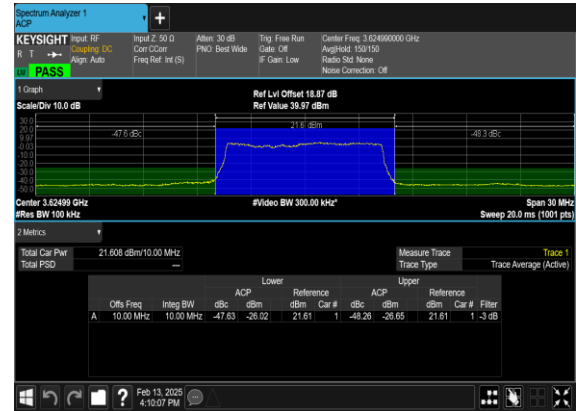
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



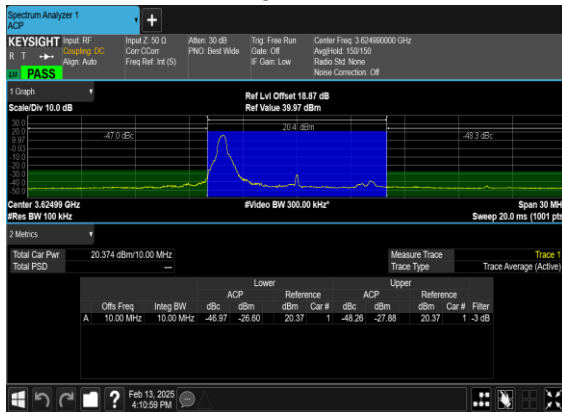
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Mid_CH



N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

