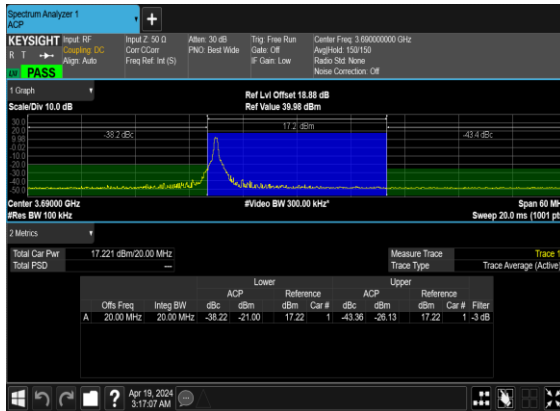
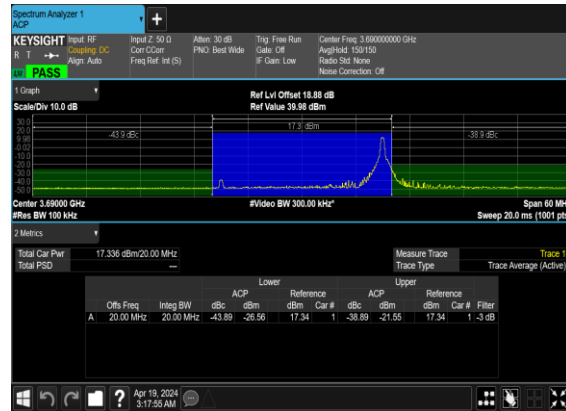


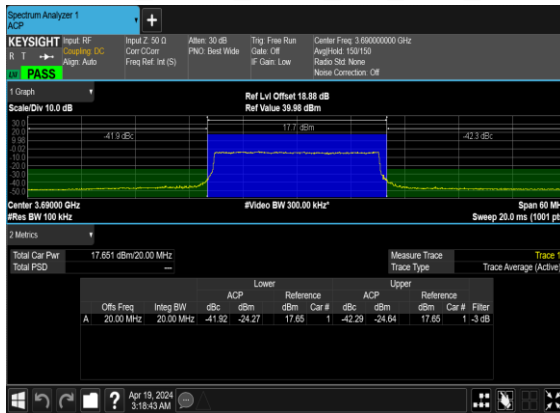
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



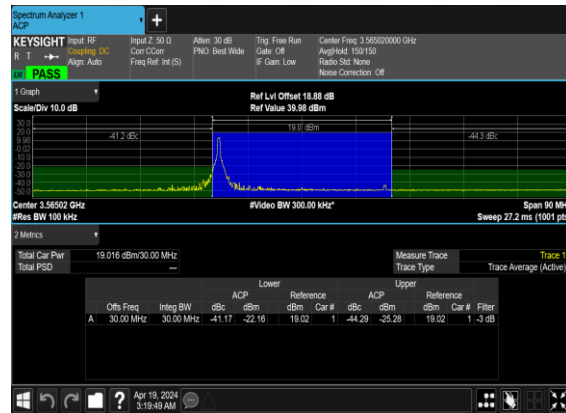
N48(20M)_CP-OFDM_QPSK _Edge_1RB_Right_High_CH



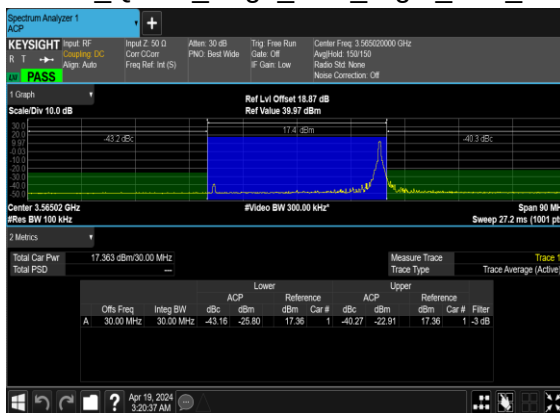
N48(20M)_CP- OFDM_QPSK_Outer_Full_High_CH



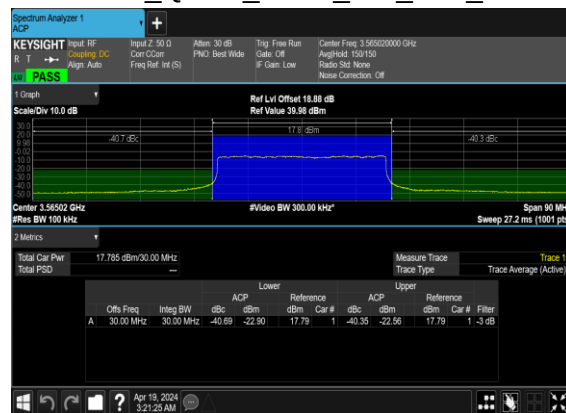
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



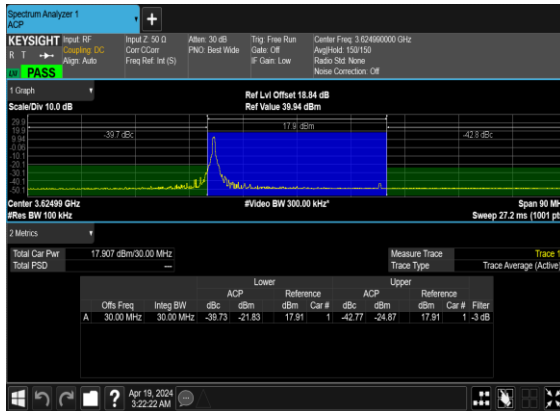
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Right_Low_CH



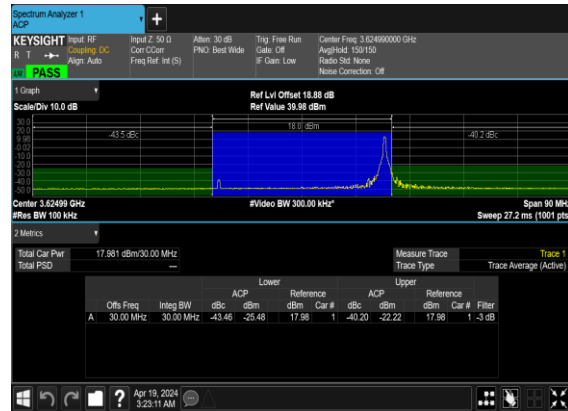
N48(30M)_CP- OFDM_QPSK_Outer_Full_Low_CH



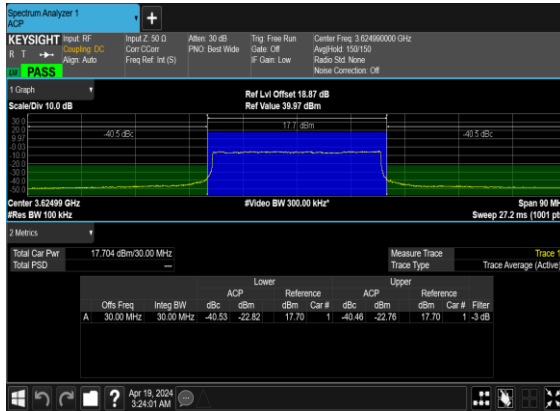
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



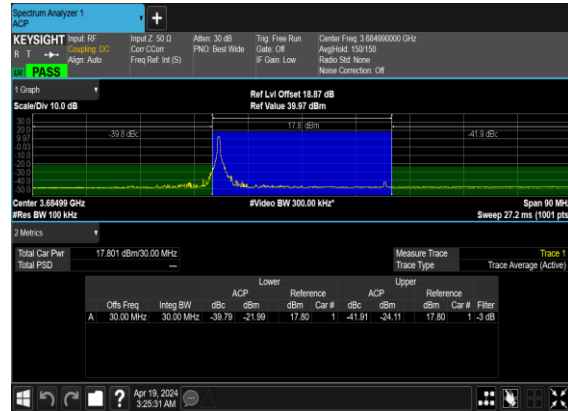
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



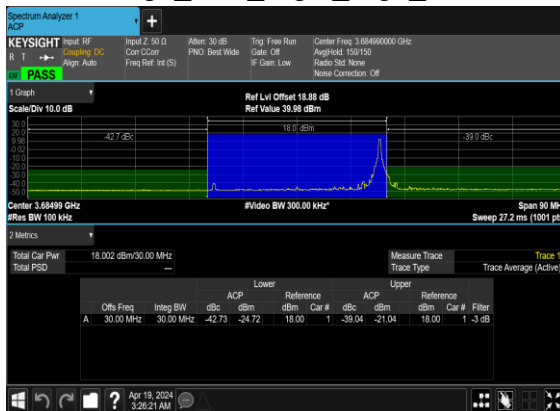
N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



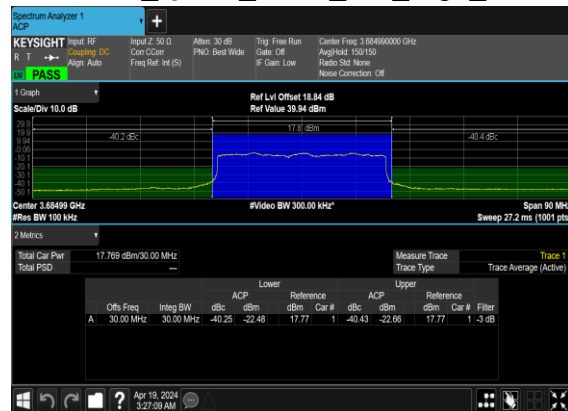
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



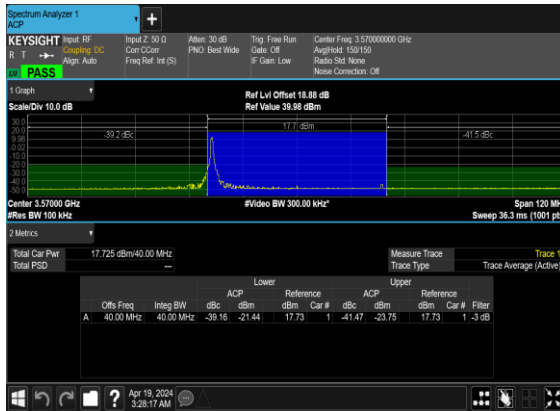
N48(30M)_CP-OFDM_QPSK_
Edge_1RB_Right_High_CH



N48(30M)_CP-
OFDM_QPSK_Outer_Full_High_CH



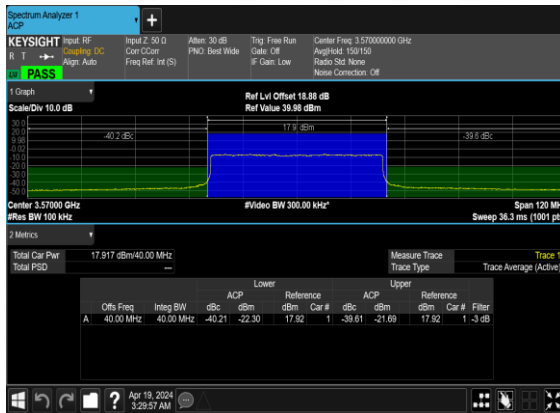
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



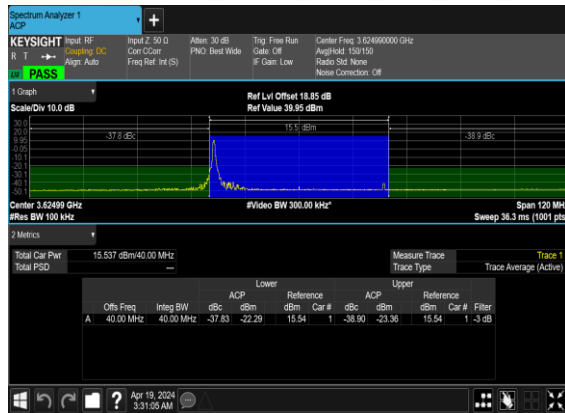
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OFDM_QPSK_Edge_1RB_Right_Low_CH



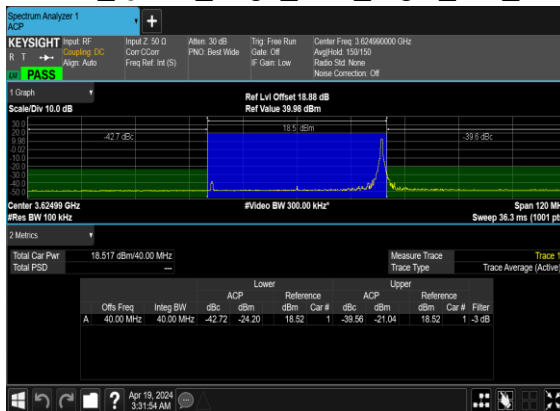
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



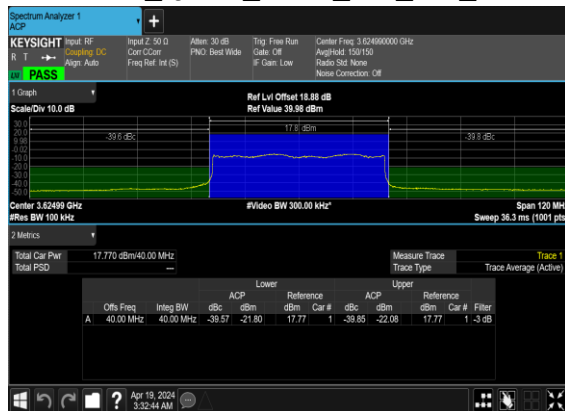
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



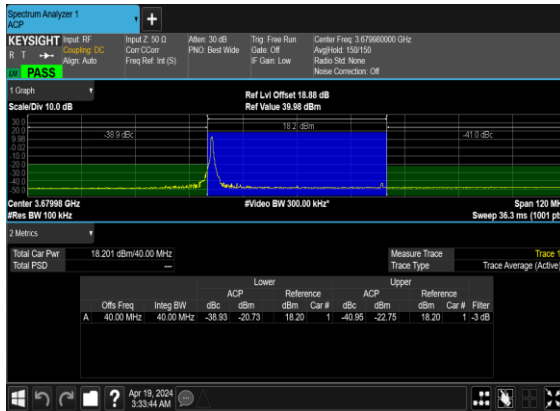
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



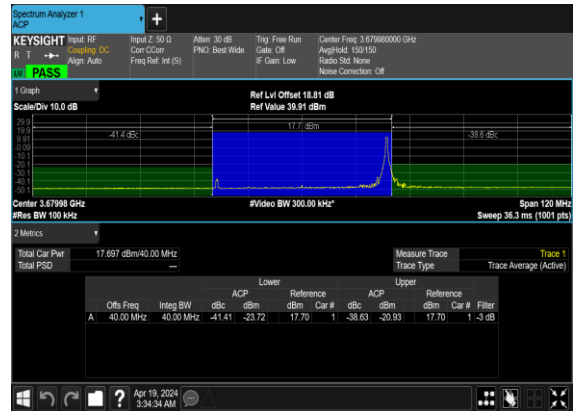
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



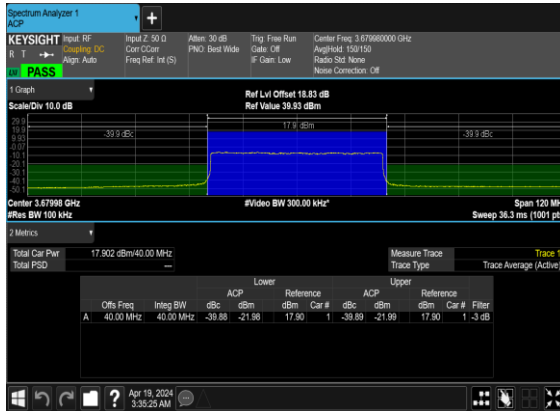
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



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	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	30	637668	3565.02	CP-OFDM QPSK	1@0	see graph	---
48	30	30	637668	3565.02	CP-OFDM QPSK	1@0	see graph	PASS
48	30	30	637668	3565.02	CP-OFDM QPSK	1@0	see graph	PASS
48	30	30	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	30	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	30	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	30	645666	3684.99	CP-OFDM QPSK	1@0	see graph	---
48	30	30	645666	3684.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	30	645666	3684.99	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(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



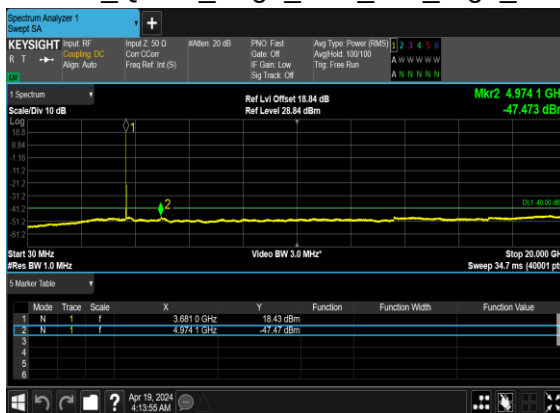
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



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(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



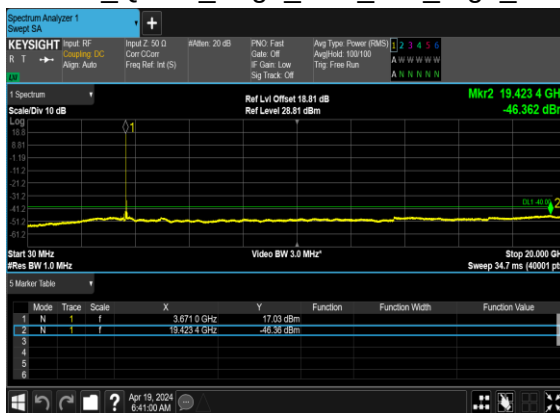
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



N48(30M)_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



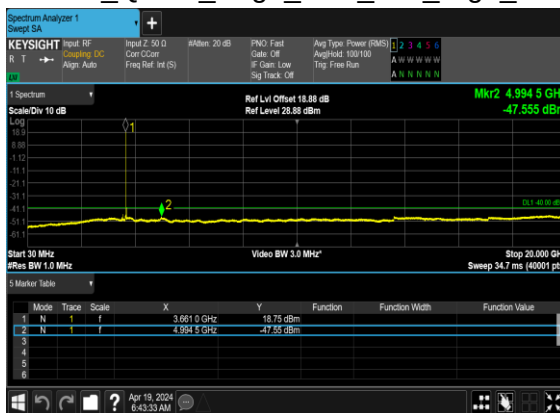
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



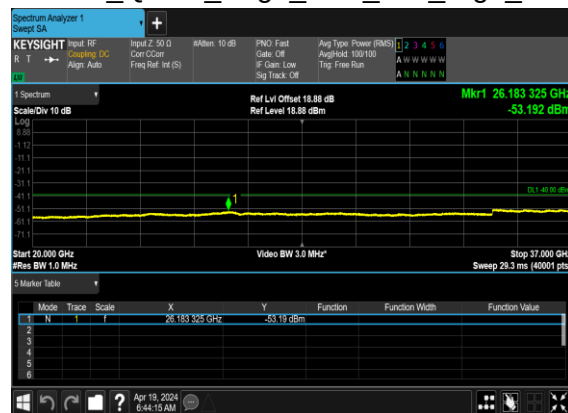
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



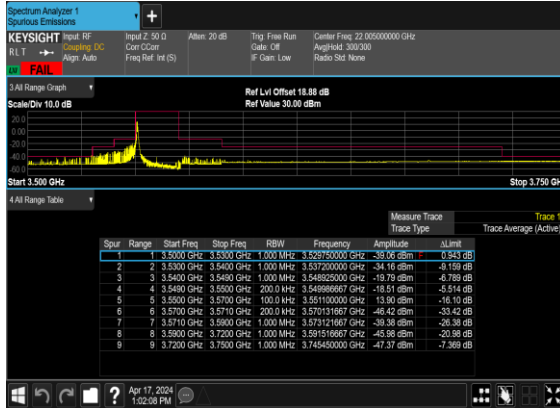
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



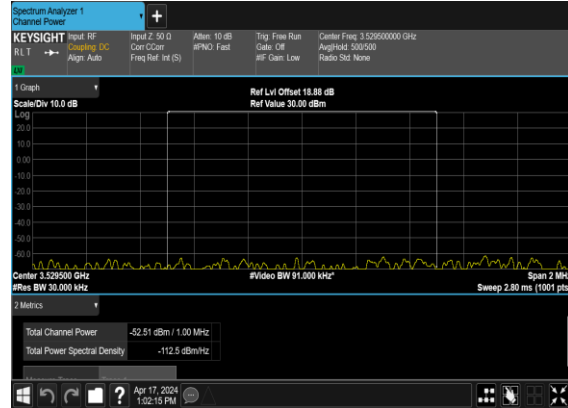
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	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	30	637668	3565.02	CP-OFDM QPSK	1@0	see graph	PASS
48	30	30	637668	3565.02	CP-OFDM QPSK	1@77	see graph	PASS
48	30	30	637668	3565.02	CP-OFDM QPSK	78@0	see graph	PASS
48	30	30	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	30	641666	3624.99	CP-OFDM QPSK	1@77	see graph	PASS
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	see graph	PASS
48	30	30	645666	3684.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	30	645666	3684.99	CP-OFDM QPSK	1@77	see graph	PASS
48	30	30	645666	3684.99	CP-OFDM QPSK	78@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

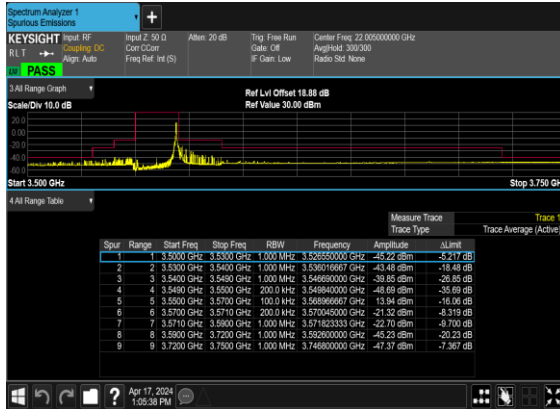
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



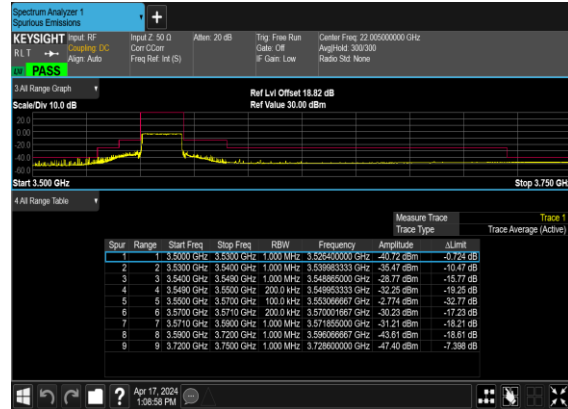
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS



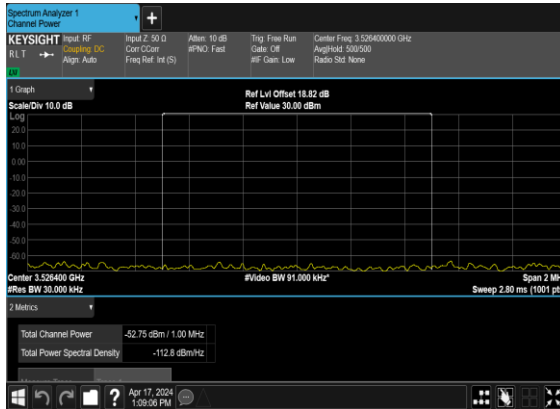
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



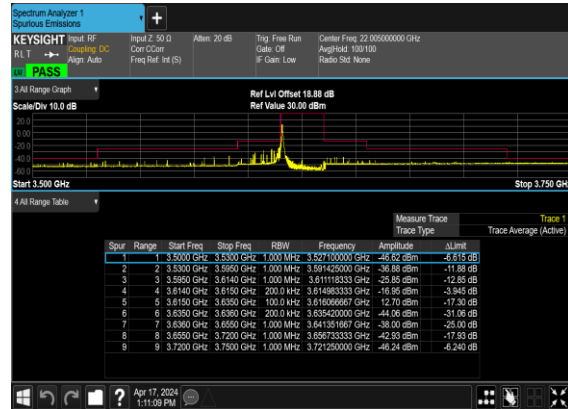
N48(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH



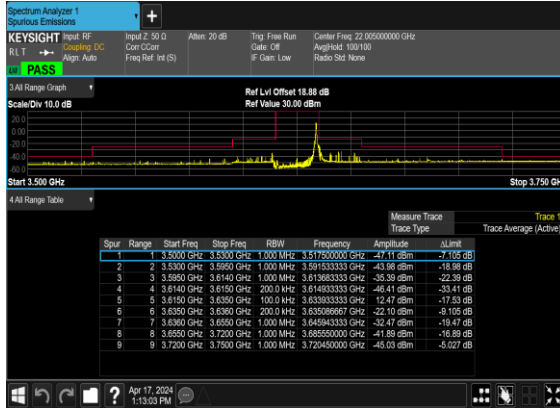
N48(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



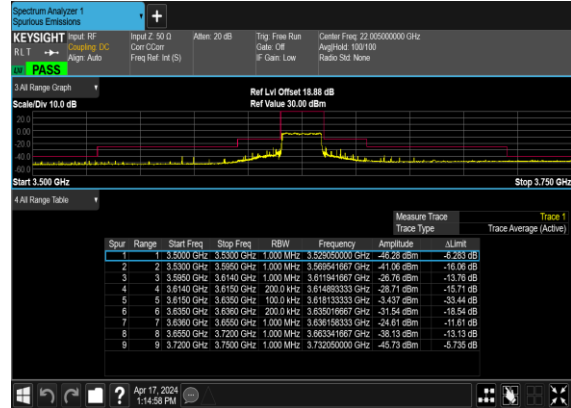
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



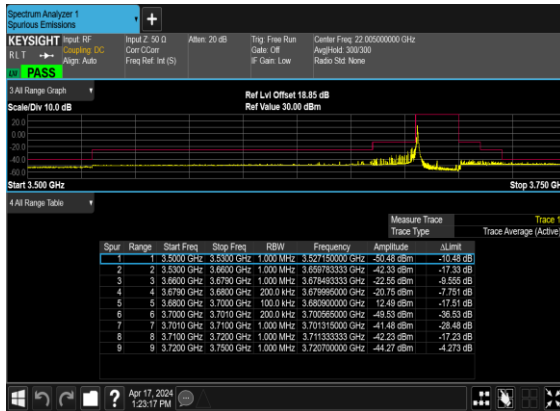
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Right_Mid_CH



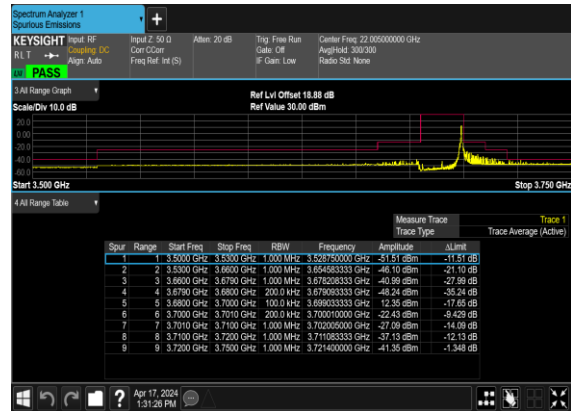
N48(20M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



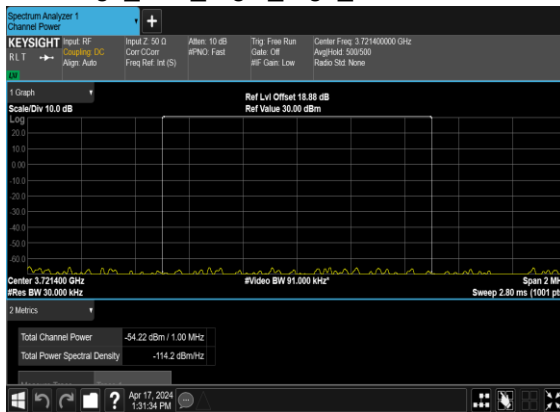
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



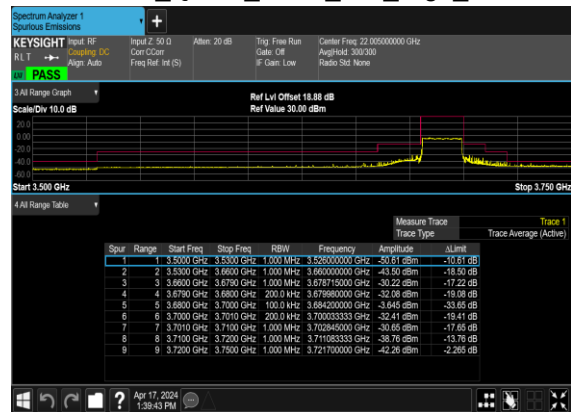
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



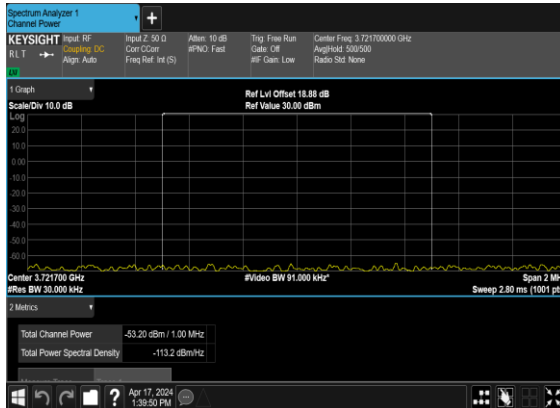
N48(20M)_CP-OFDM_QPSK_ Edge_1RB_Right_High_CH_CHP_PASS



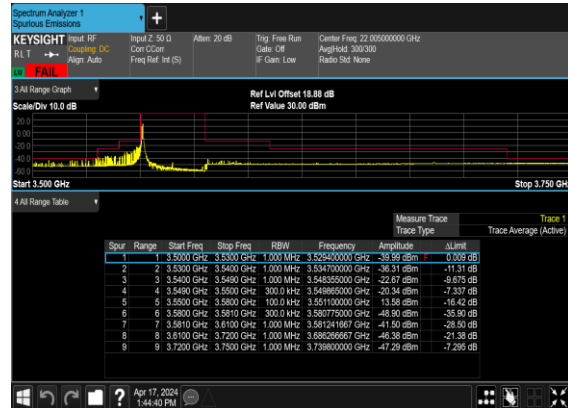
N48(20M)_CP- OFDM_QPSK_Outer_Full_High_CH



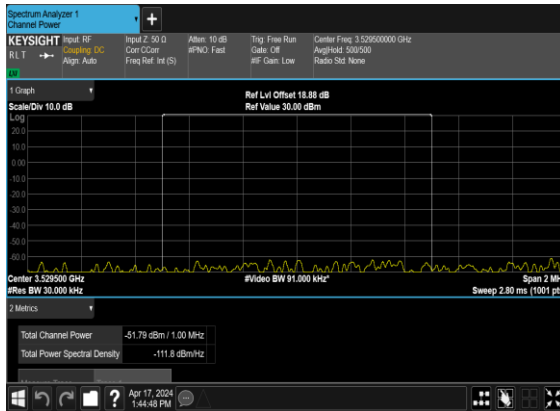
N48(20M)_CP- OFDM_QPSK_Outer_Full_High_CH_CHP_PASS



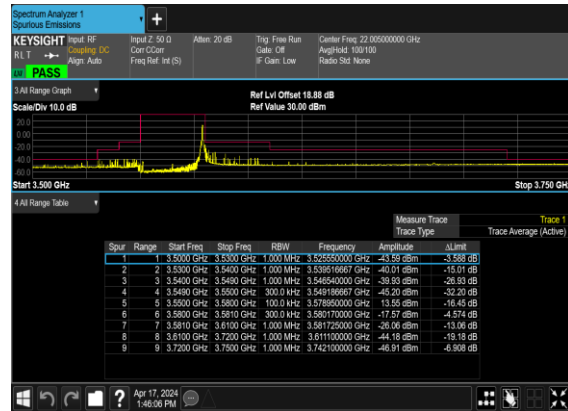
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



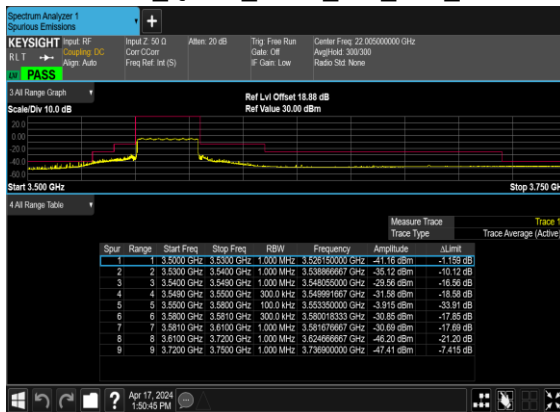
N48(30M)_CP-OFDM_QPSK_ Edge_1RB_Left_Low_CH_CHP_PASS



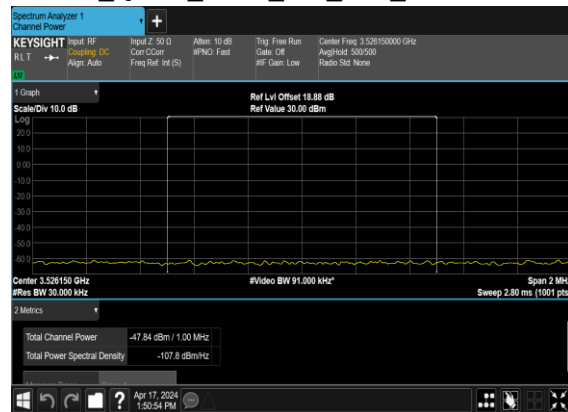
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Right_Low_CH



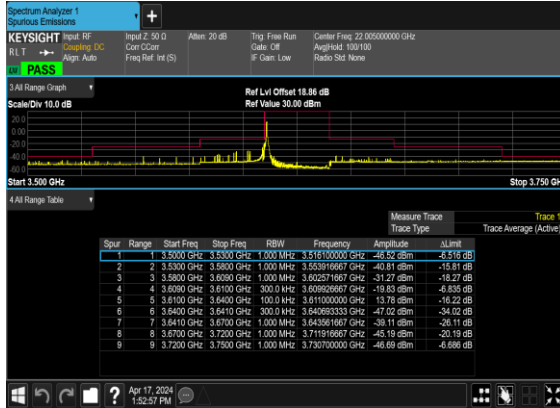
N48(30M)_CP- OFDM_QPSK_Outer_Full_Low_CH



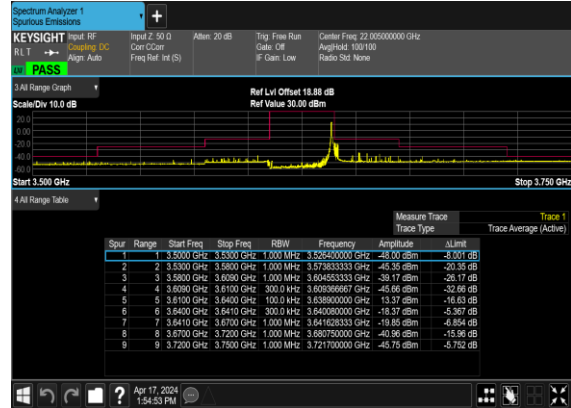
N48(30M)_CP- OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



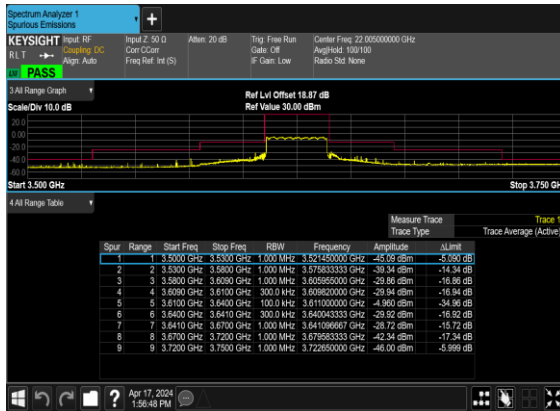
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



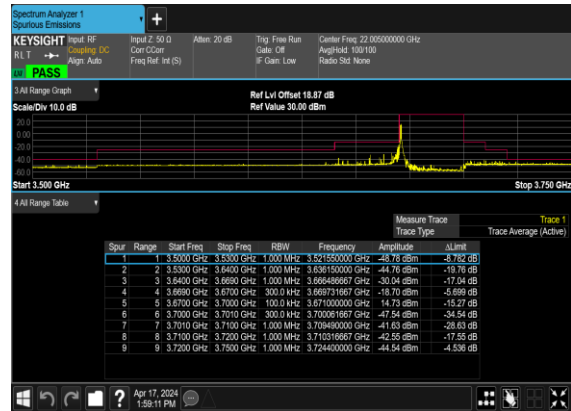
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Right_Mid_CH



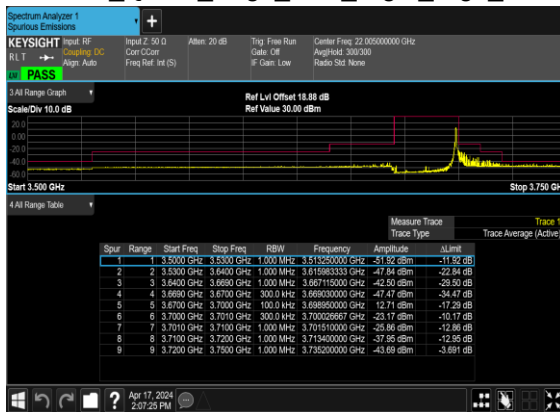
N48(30M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



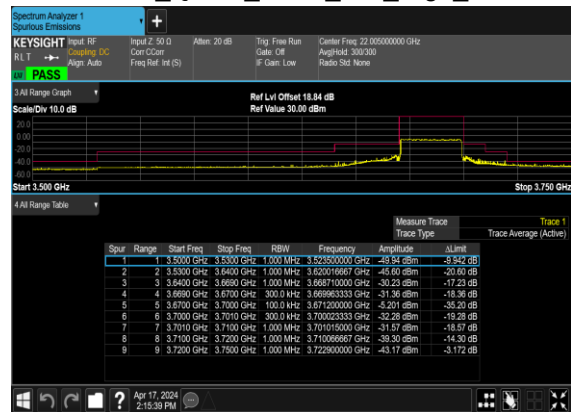
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



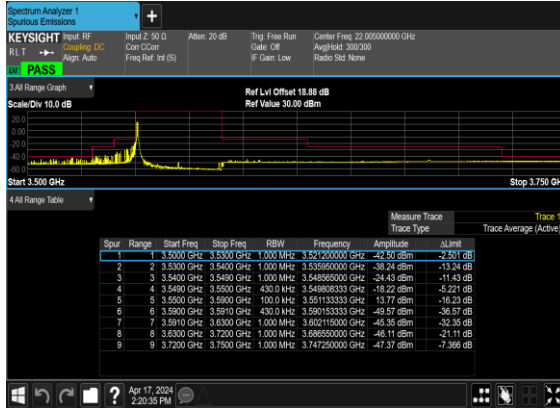
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



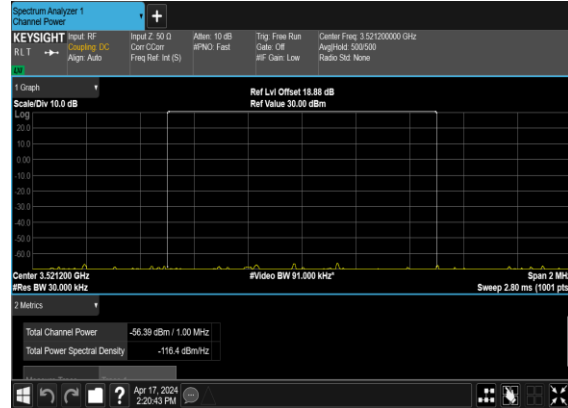
N48(30M)_CP- OFDM_QPSK_Outer_Full_High_CH



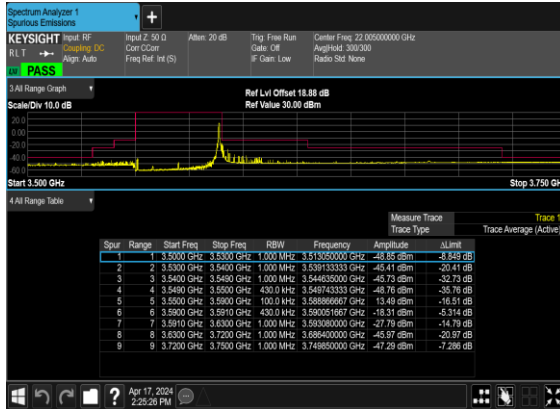
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



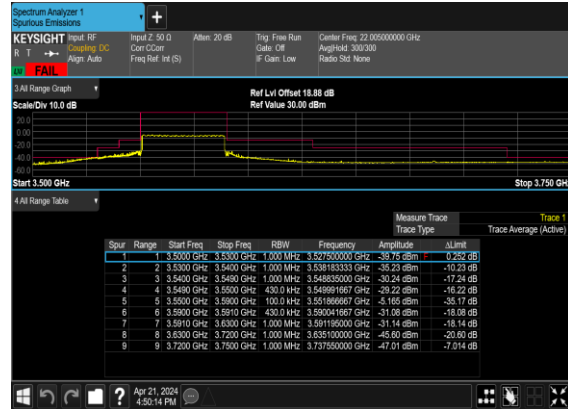
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS



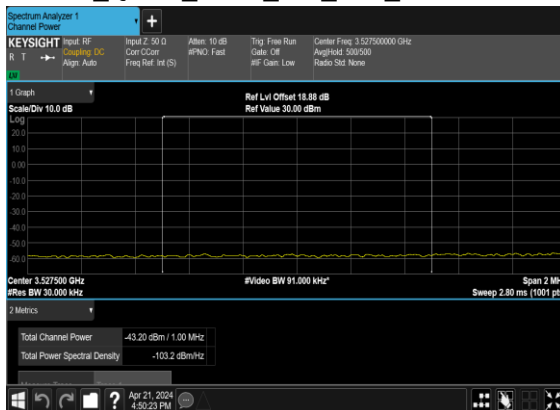
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



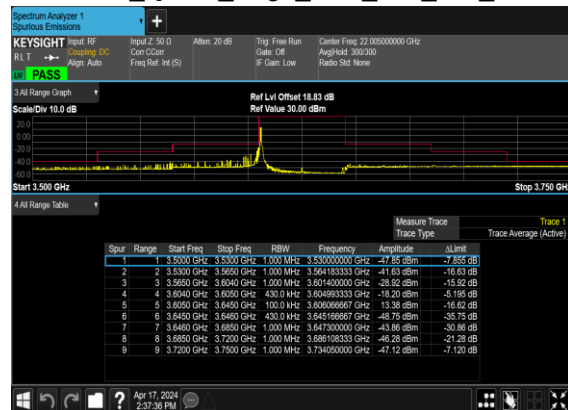
N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH



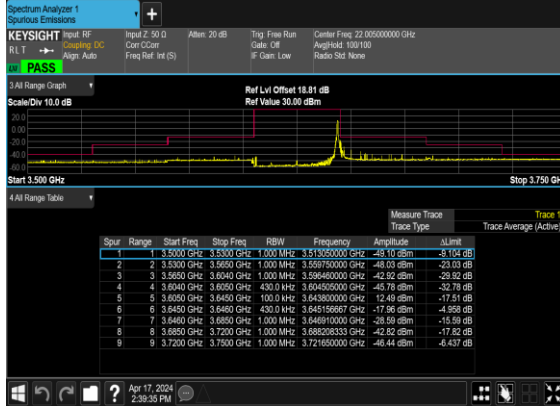
N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



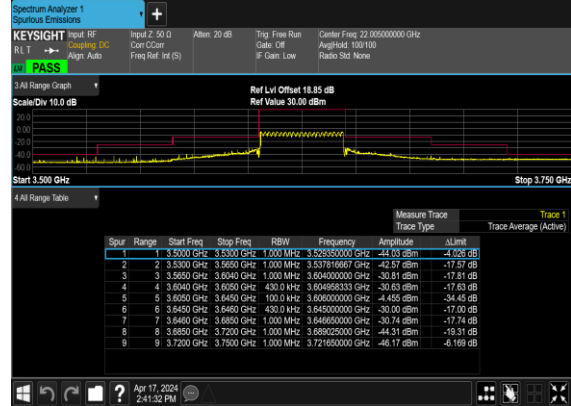
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



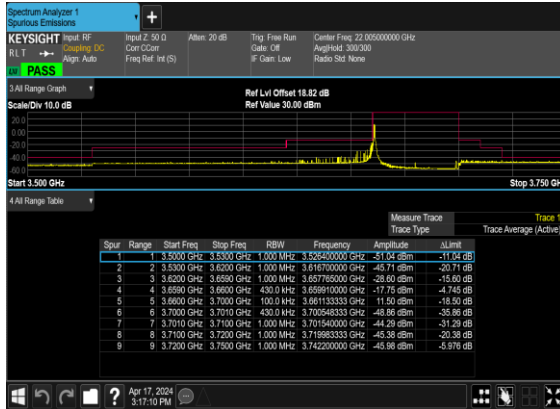
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Right_Mid_CH



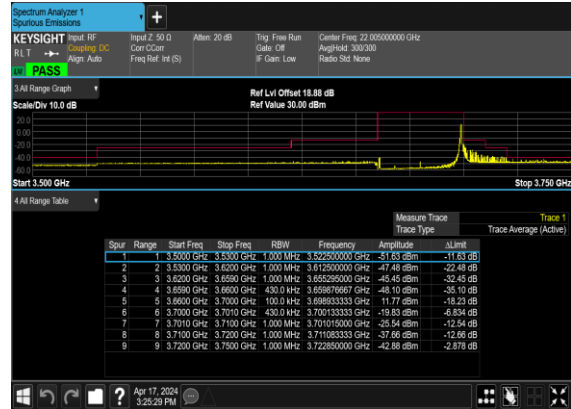
N48(40M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



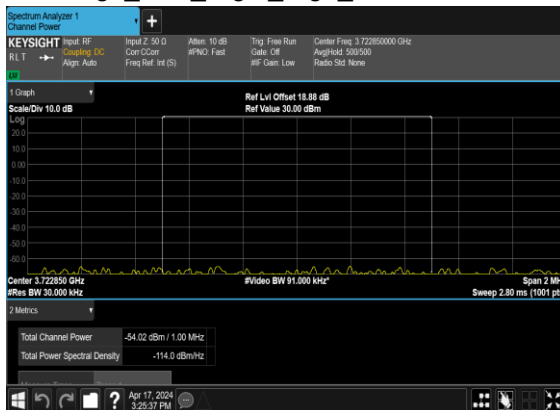
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



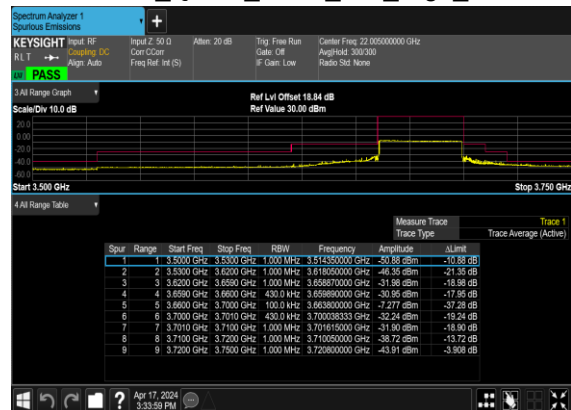
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



N48(40M)_CP-OFDM_QPSK_ Edge_1RB_Right_High_CH_CHP_PASS



N48(40M)_CP- OFDM_QPSK_Outer_Full_High_CH



FR1 N48 MIMO-ANT0+1(ANT1)

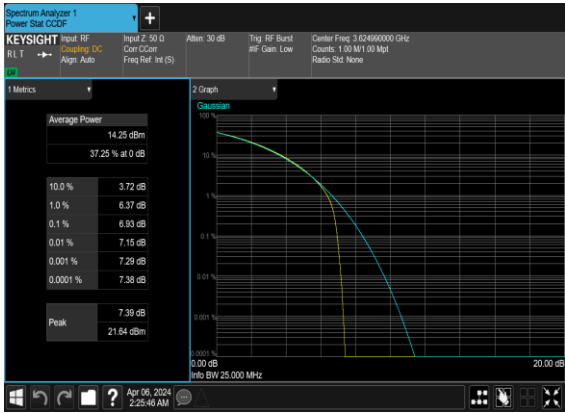
Frequency Stability

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	0.0050	PASS	NV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0050	PASS	LV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0065	PASS	HV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0060	PASS	-30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0029	PASS	-20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0047	PASS	-10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0041	PASS	0°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0048	PASS	10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0050	PASS	20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0036	PASS	30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0022	PASS	40°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0028	PASS	50°C

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	6.93	13	PASS

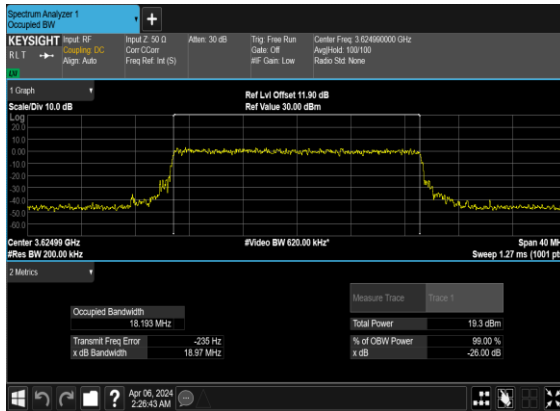
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



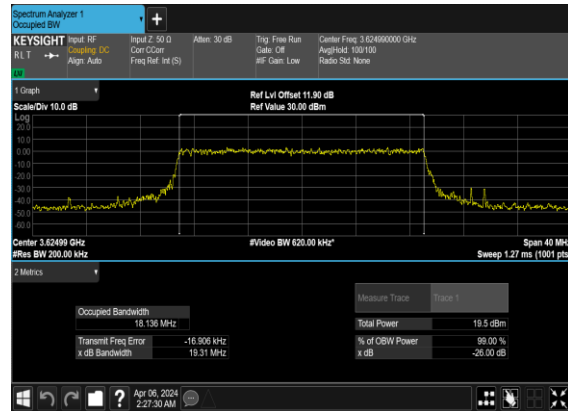
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.193	18.97
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.136	19.31
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.195	19.14
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.184	19.78
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.859	29.28
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.904	29.46
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.721	29.15
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.768	29.33
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.951	39.36
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.828	39.28
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.921	39.76
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.933	41.65

N48(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



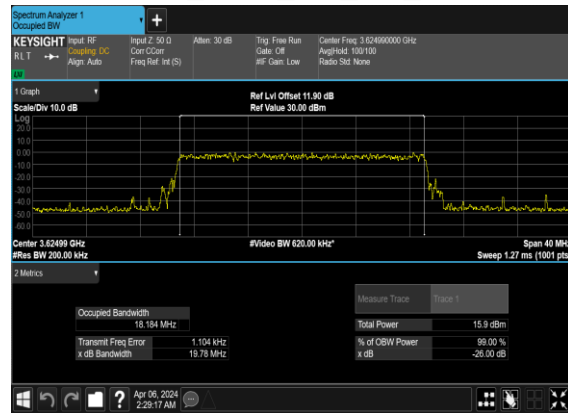
N48(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



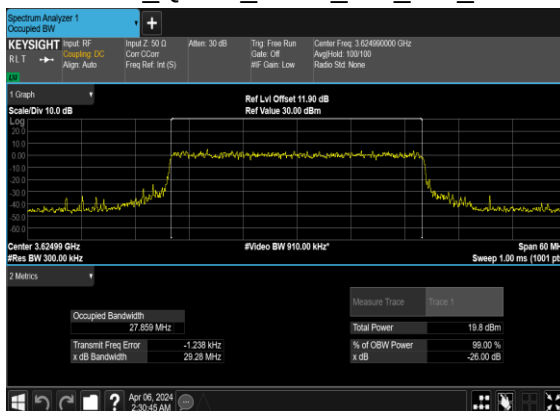
N48(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



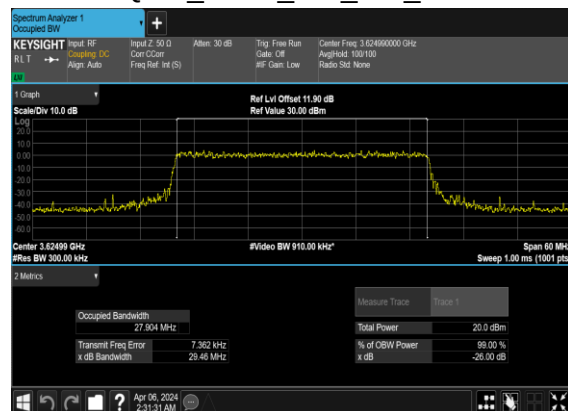
N48(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



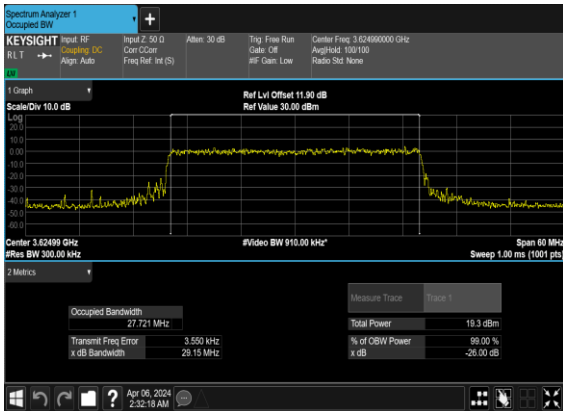
N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



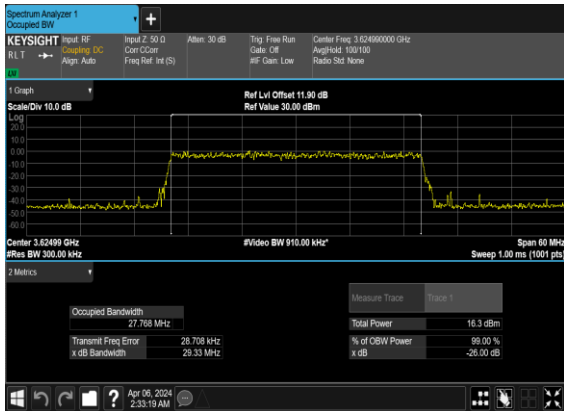
N48(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N48(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



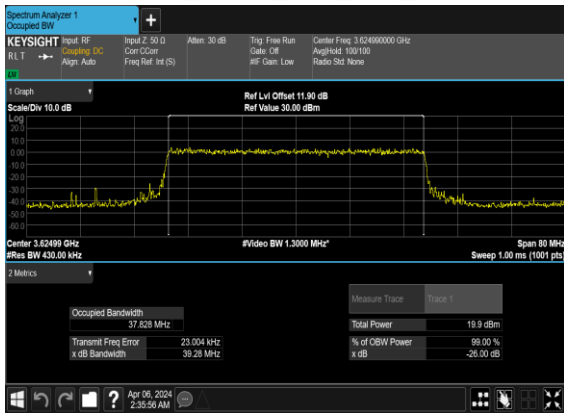
N48(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



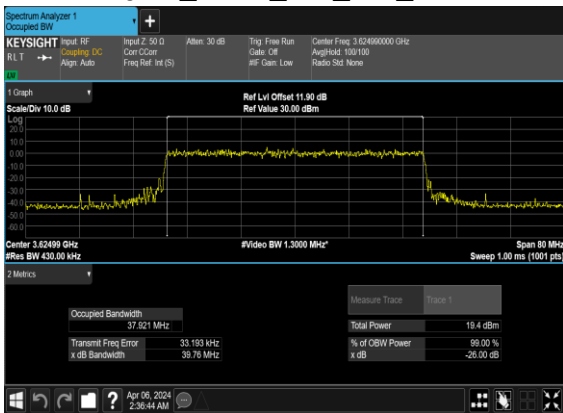
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



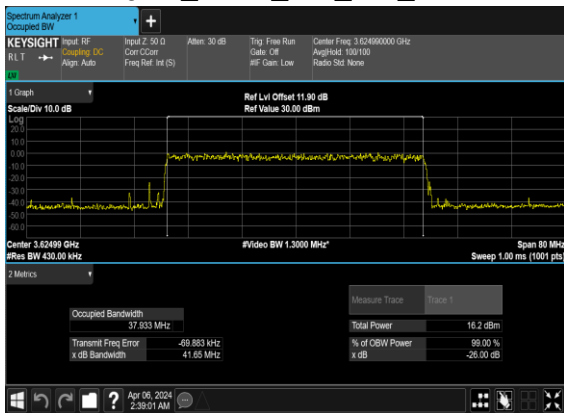
N48(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

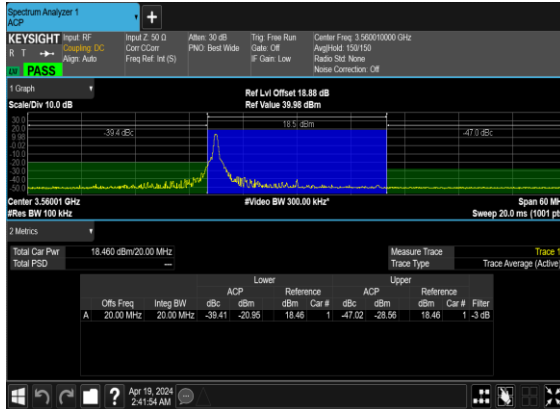


Adjacent Channel Leakage Ratio

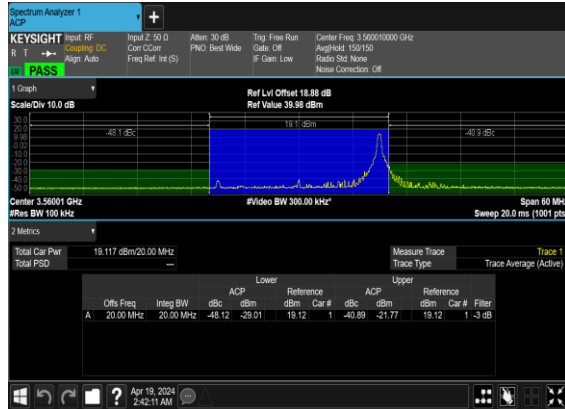
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	-9.41	-17.02	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@50	-18.12	-10.89	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	51@0	-12.65	-13.43	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	-8.82	-13.83	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@50	-14.51	-9.31	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	-11.3	-11.81	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	-9.99	-14.8	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@50	-15.15	-10.03	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	51@0	-11.67	-12.44	see graph	PASS
48	30	30	637668	3565.02	CP-OFDM QPSK	1@0	-10.4	-13.57	see graph	PASS
48	30	30	637668	3565.02	CP-OFDM QPSK	1@77	-14.68	-11.44	see graph	PASS
48	30	30	637668	3565.02	CP-OFDM QPSK	78@0	-10.67	-10.98	see graph	PASS
48	30	30	641666	3624.99	CP-OFDM QPSK	1@0	-10.69	-13.18	see graph	PASS
48	30	30	641666	3624.99	CP-OFDM QPSK	1@77	-14.31	-11.16	see graph	PASS
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	-10.78	-11.04	see graph	PASS
48	30	30	645666	3684.99	CP-OFDM QPSK	1@0	-10.3	-12.1	see graph	PASS
48	30	30	645666	3684.99	CP-OFDM QPSK	1@77	-14.42	-11.43	see graph	PASS
48	30	30	645666	3684.99	CP-OFDM QPSK	78@0	-10.01	-10.02	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	-9.83	-12.58	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@105	-13.0	-10.06	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	106@0	-9.9	-10.33	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	-9.87	-12.02	see graph	PASS

48	30	40	641666	3624.99	CP-OFDM QPSK	1@105	-11.67	-9.03	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	-11.0	-10.71	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	-9.74	-11.5	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@105	-12.0	-9.18	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	106@0	-9.92	-9.98	see graph	PASS

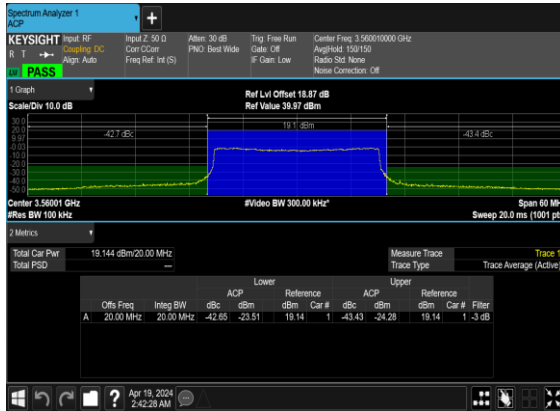
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



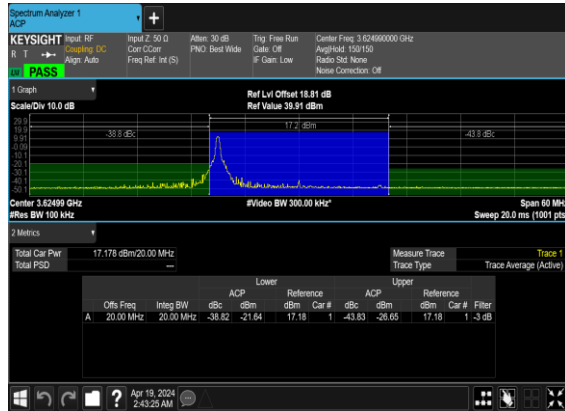
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH



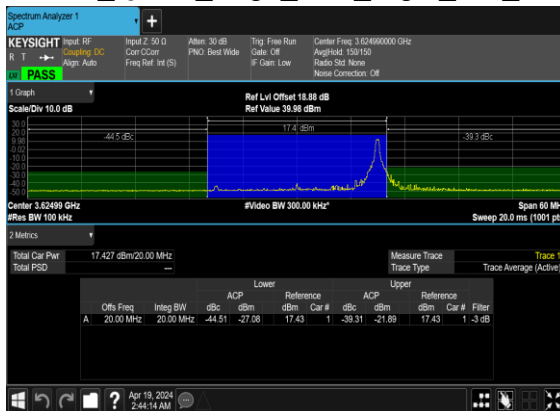
N48(20M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



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

