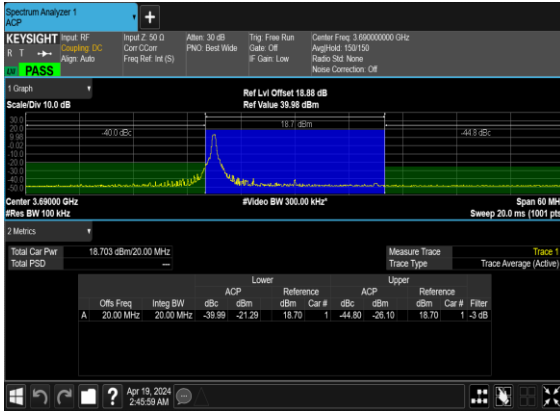
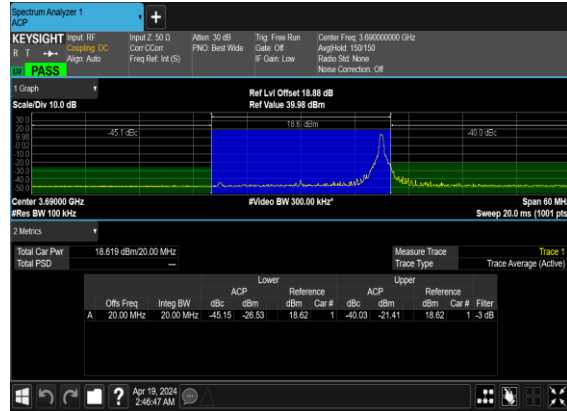


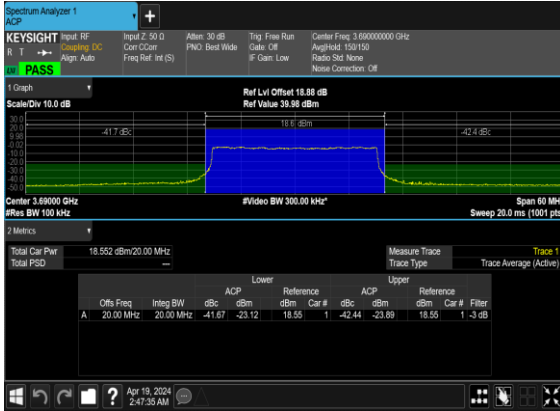
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



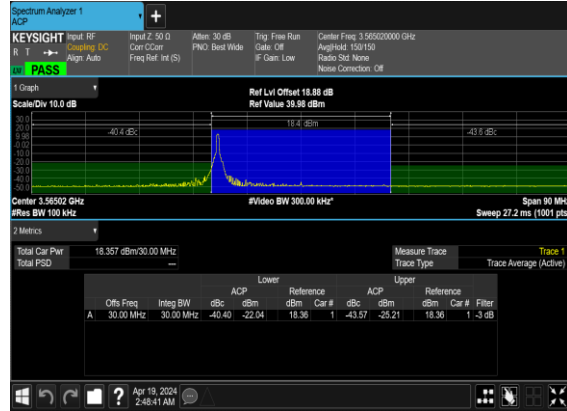
N48(20M)_CP-OFDM_QPSK_ Edge_1RB_Right_High_CH



N48(20M)_CP- OFDM_QPSK_Outer_Full_High_CH



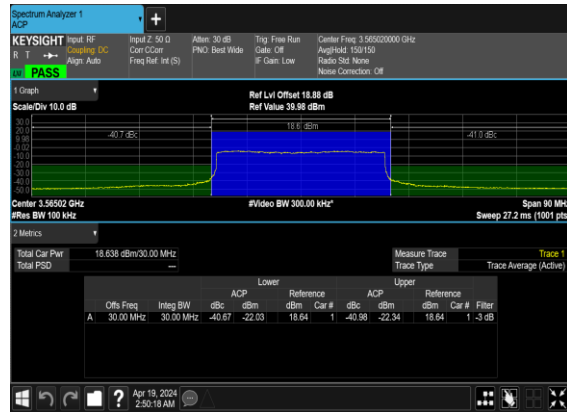
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



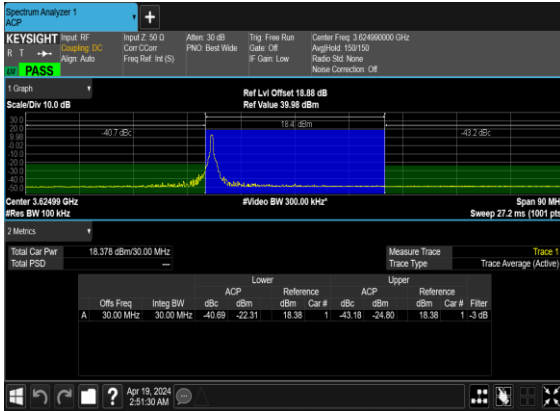
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(30M)_CP- OFDM_QPSK_Outer_Full_Low_CH



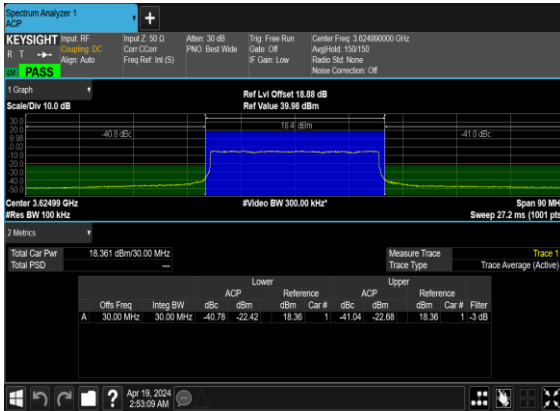
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



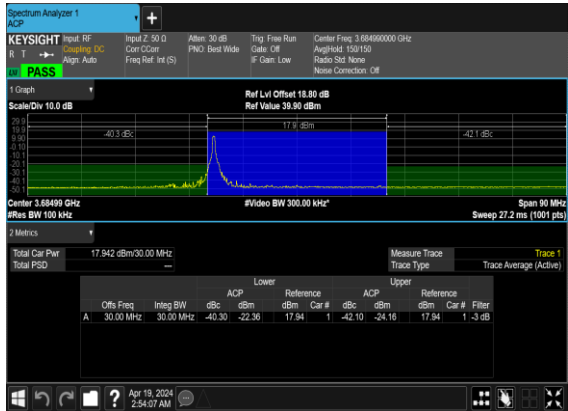
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



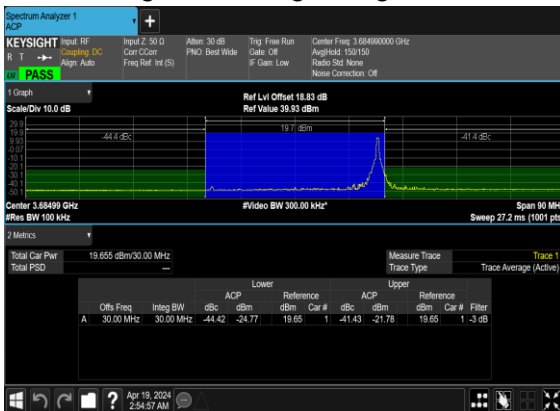
N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



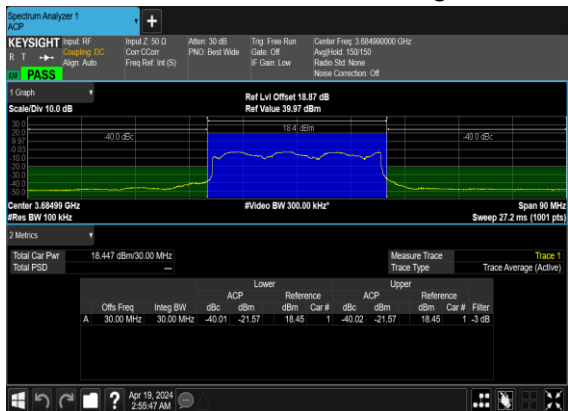
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



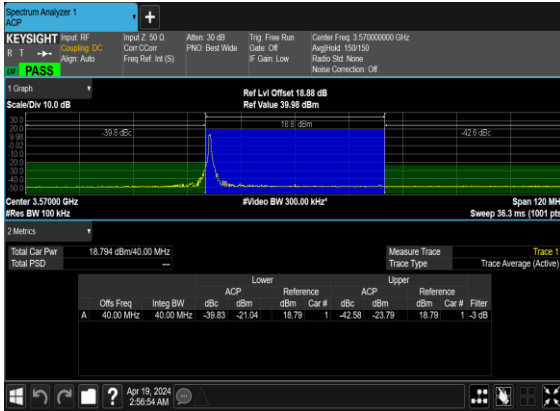
N48(30M)_CP-OFDM_QPSK_
Edge_1RB_Right_High_CH



N48(30M)_CP-
OFDM_QPSK_Outer_Full_High_CH



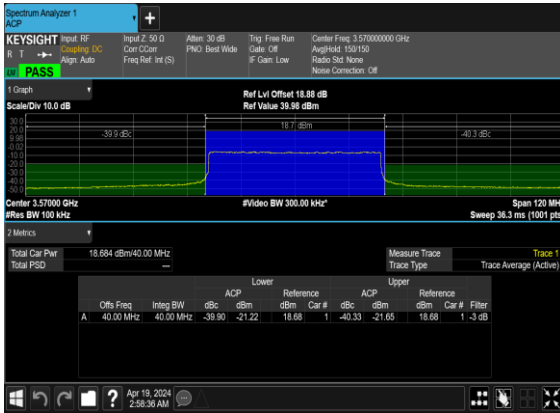
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



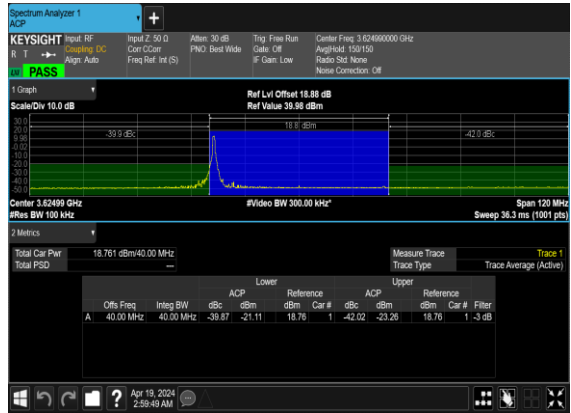
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Right_Low_CH



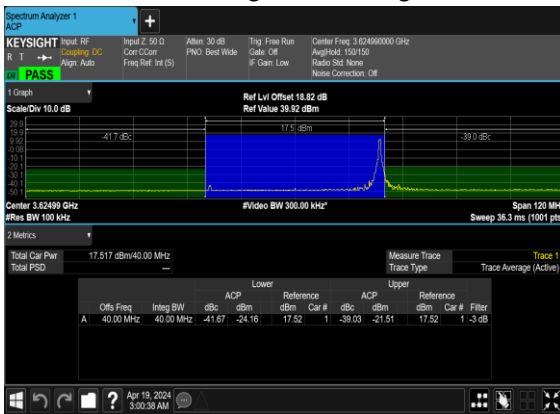
N48(40M)_CP- OFDM_QPSK_Outer_Full_Low_CH



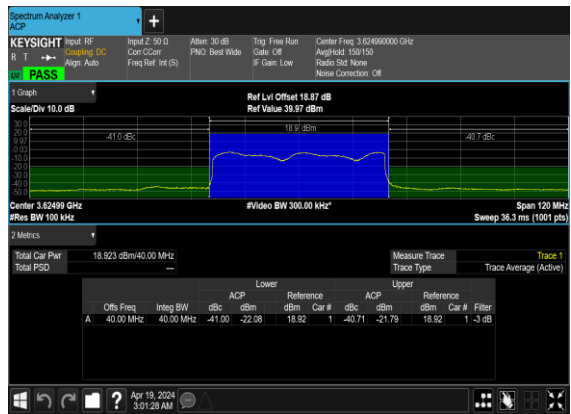
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



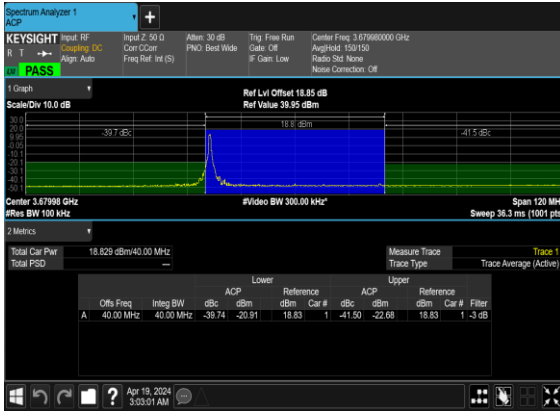
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Right_Mid_CH



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

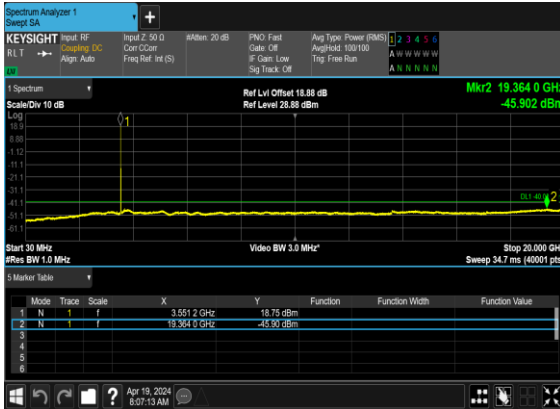


Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	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



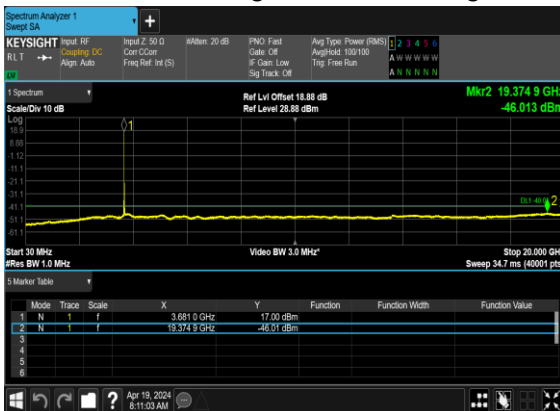
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



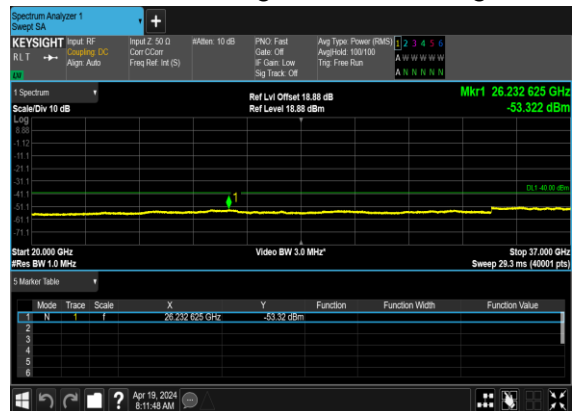
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



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



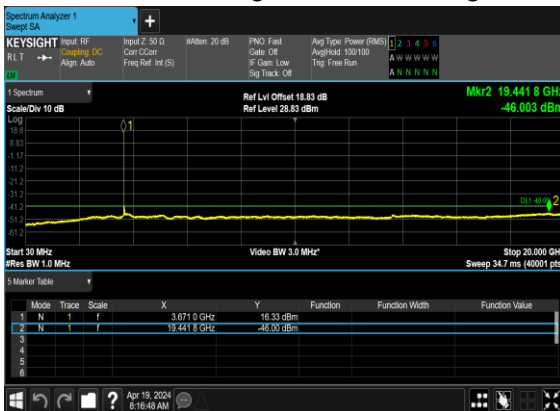
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



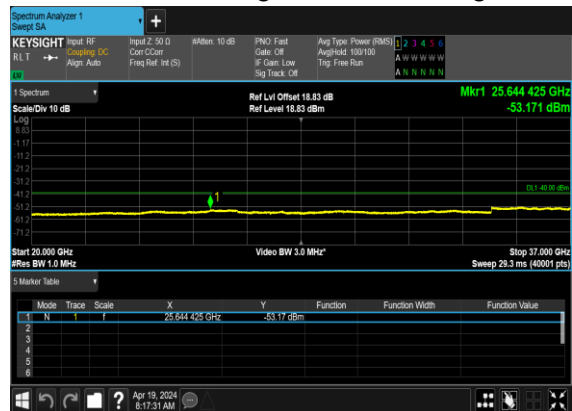
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



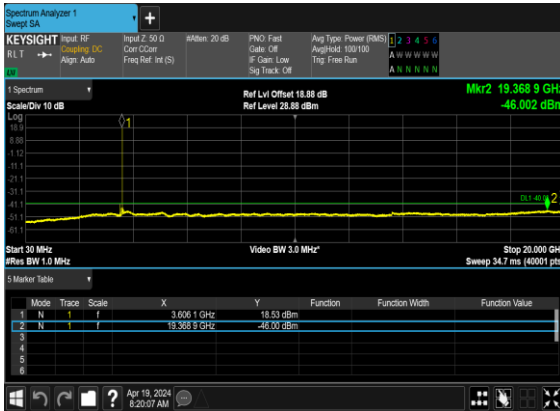
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



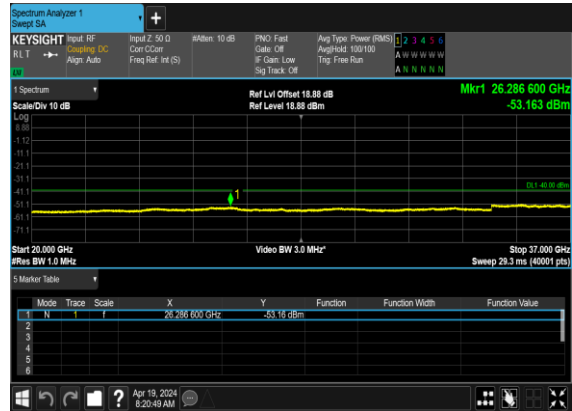
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



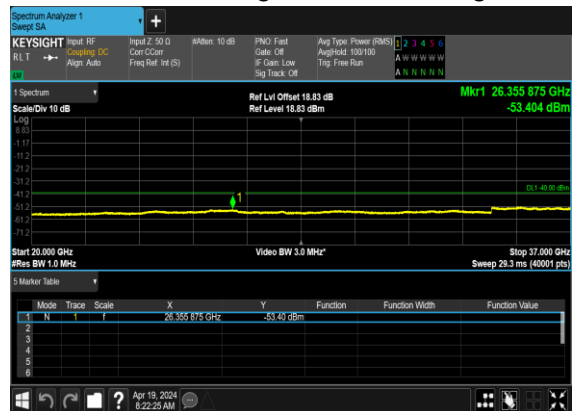
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



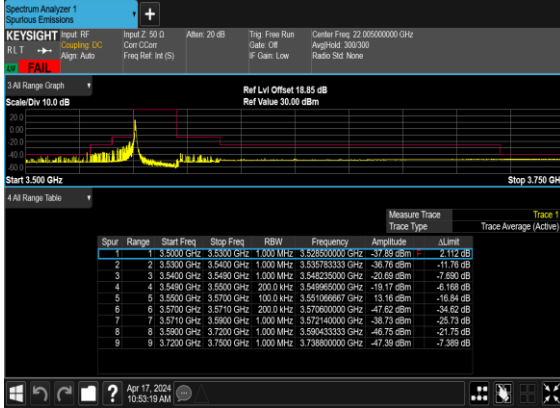
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



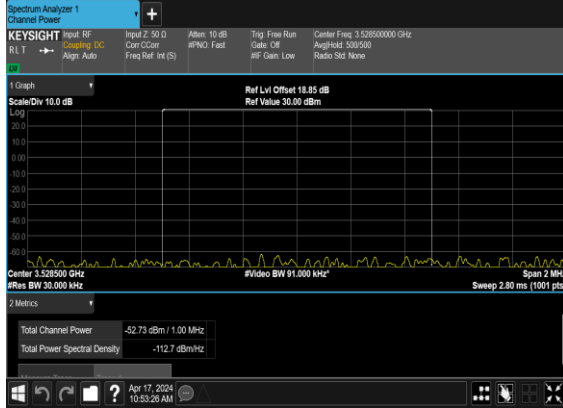
Conducted Band Edge

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

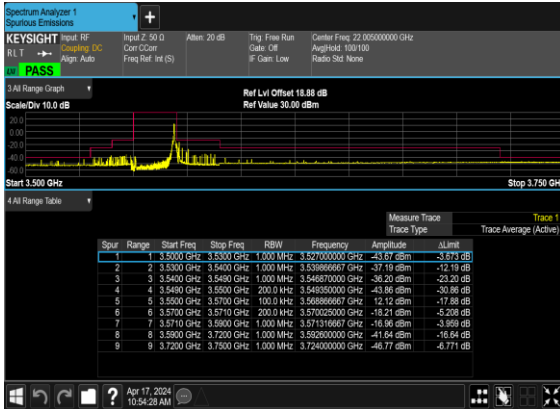
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



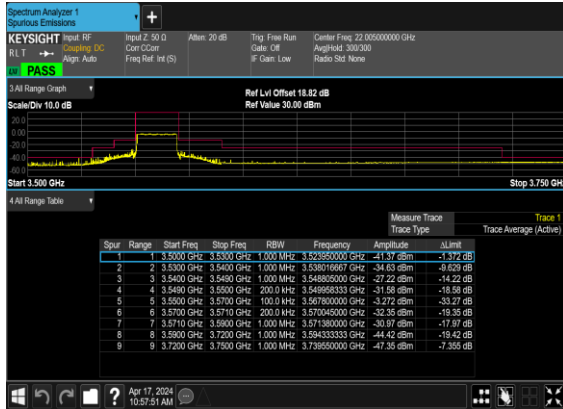
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH_chp_pass



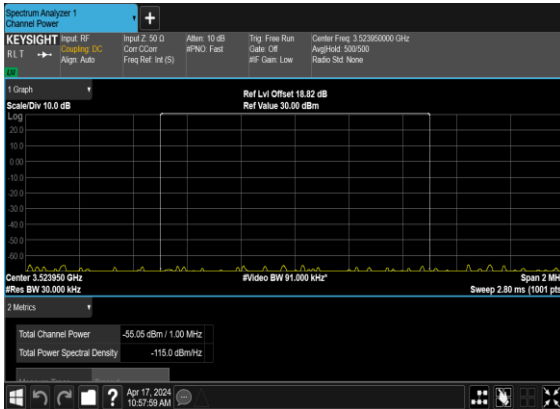
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



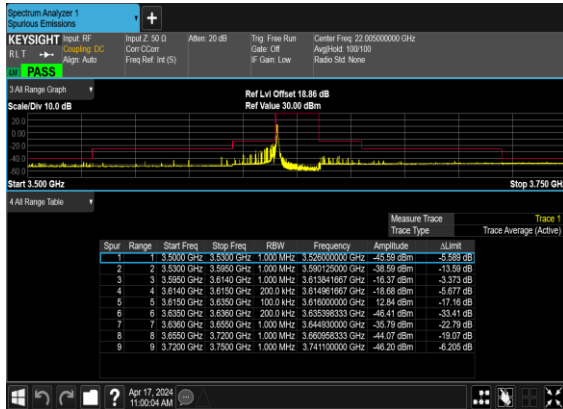
N48(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH



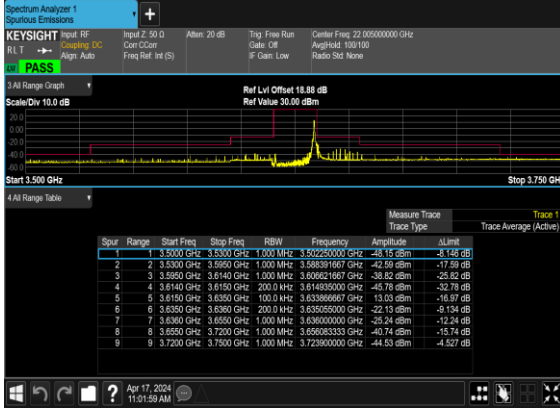
N48(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH_chp_pass



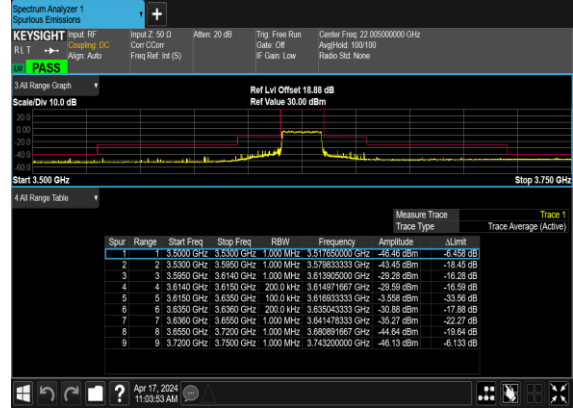
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



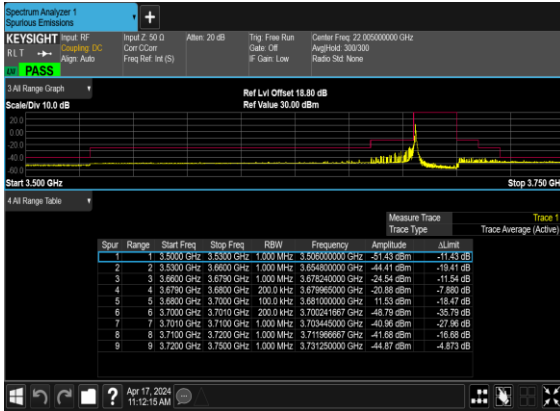
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



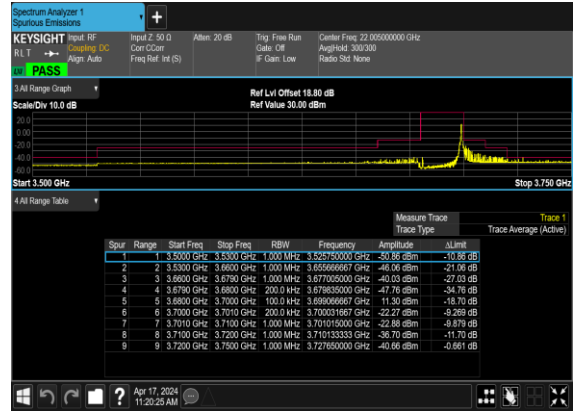
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



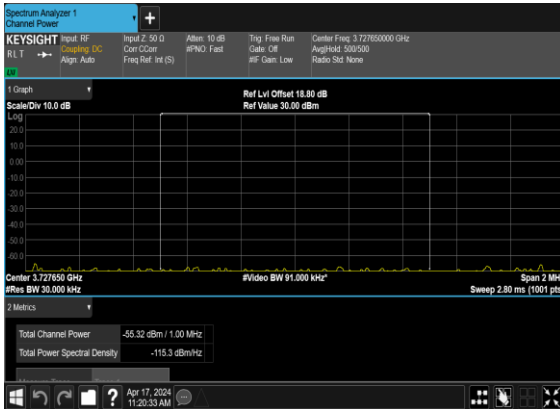
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



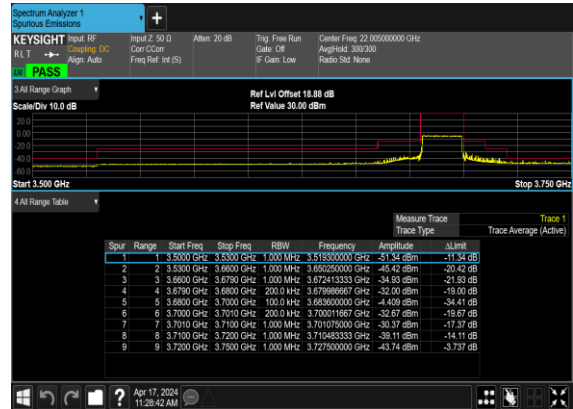
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



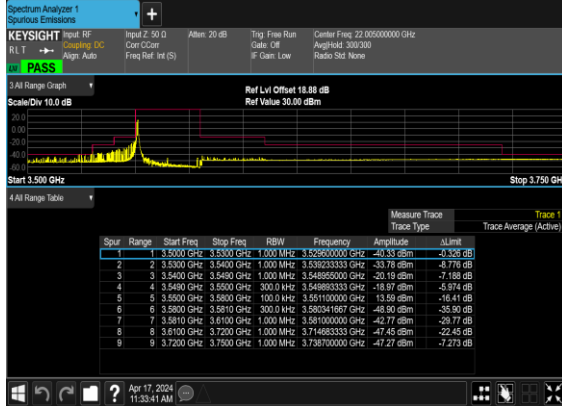
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_PASS



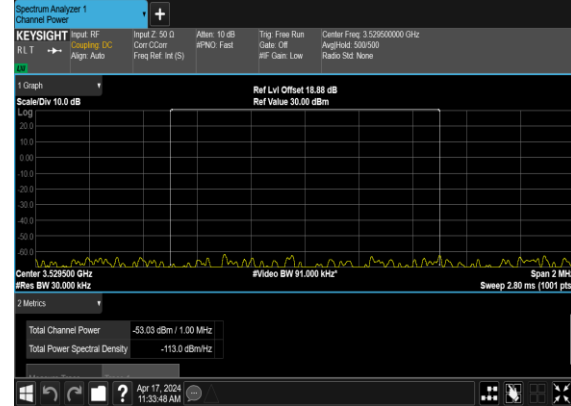
N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH



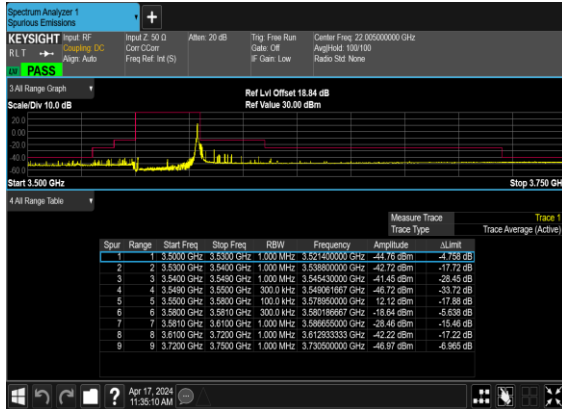
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



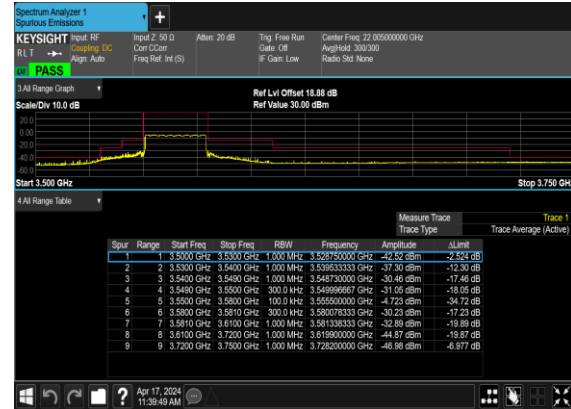
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH_chp_pass



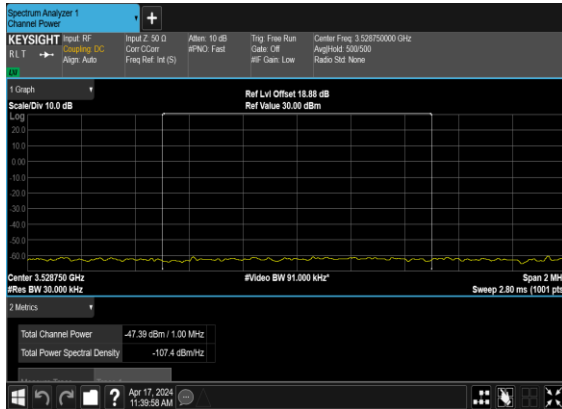
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



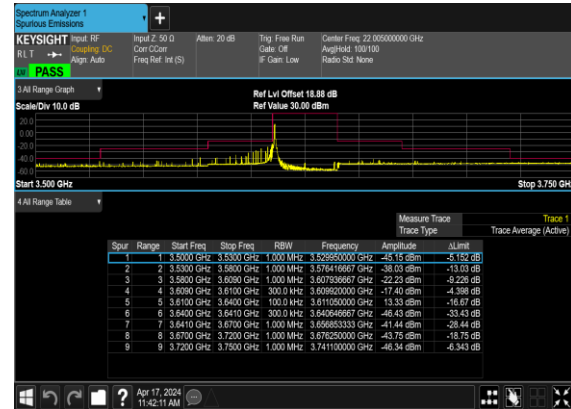
N48(30M)_CP-OFDM_QPSK_Outer_Full_Low_CH



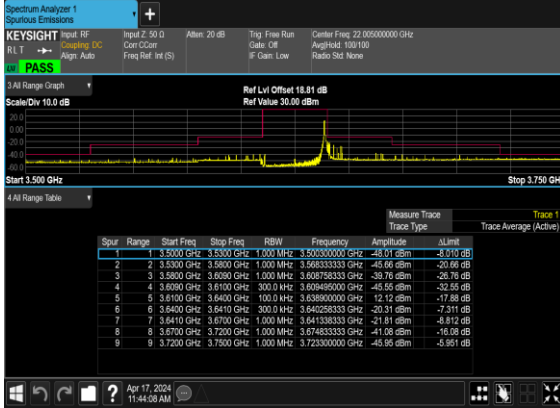
N48(30M)_CP-OFDM_QPSK_Outer_Full_Low_CH_chp_pass



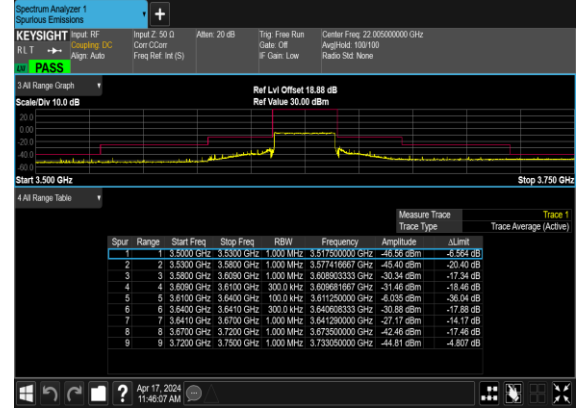
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



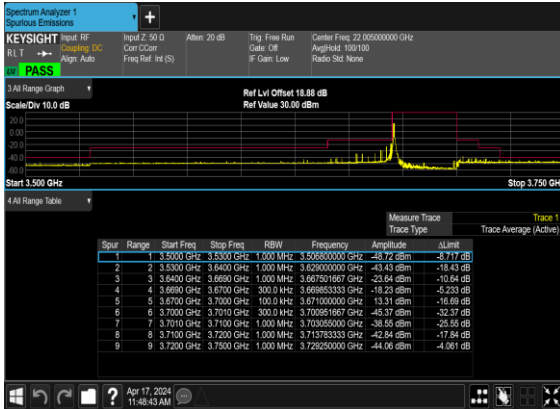
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



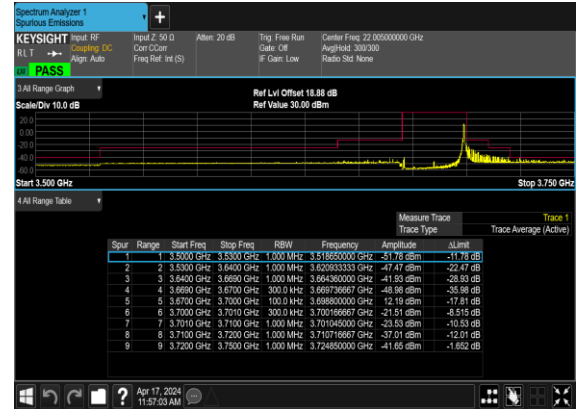
N48(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



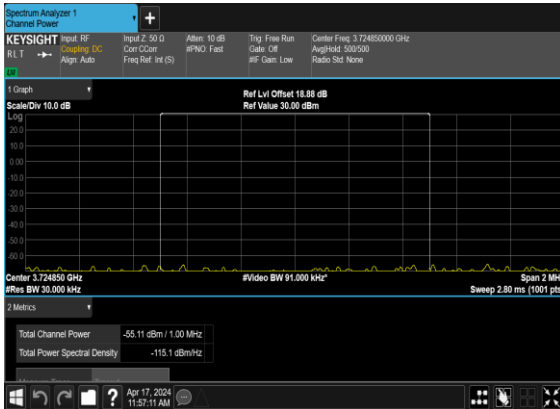
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



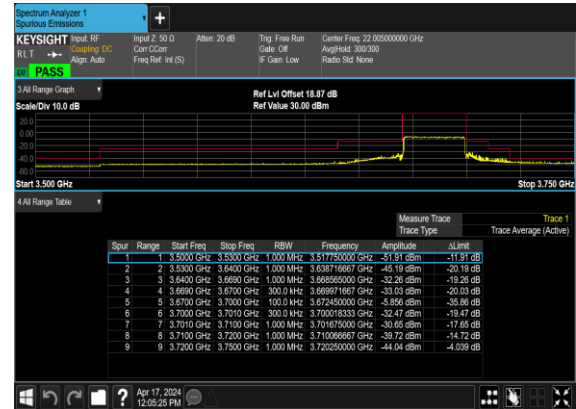
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



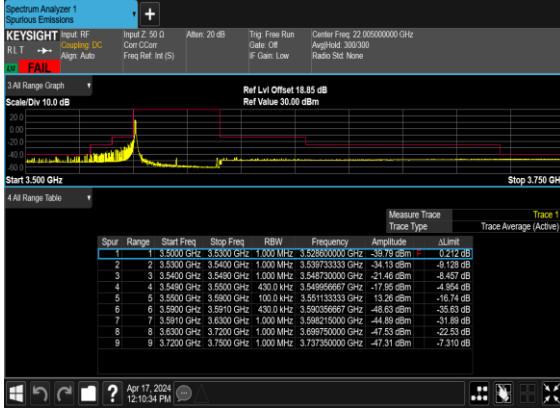
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_PASS



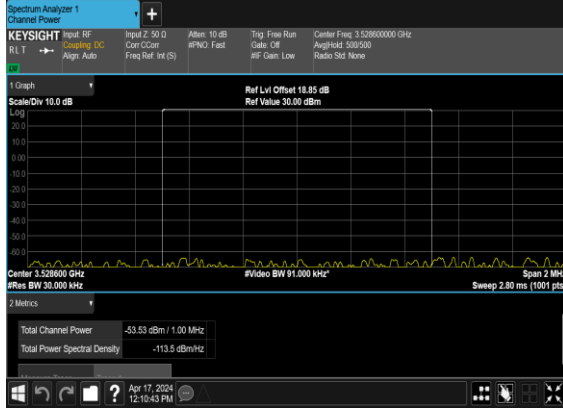
N48(30M)_CP-OFDM_QPSK_Outer_Full_High_CH



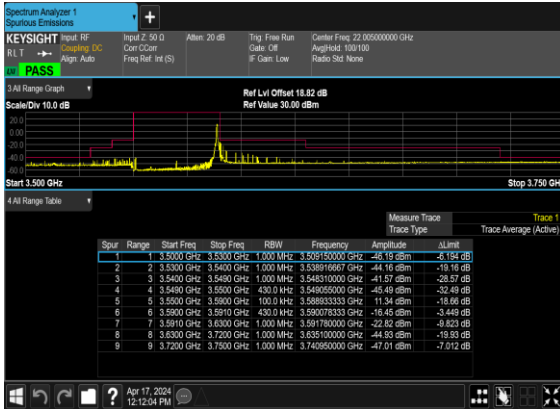
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



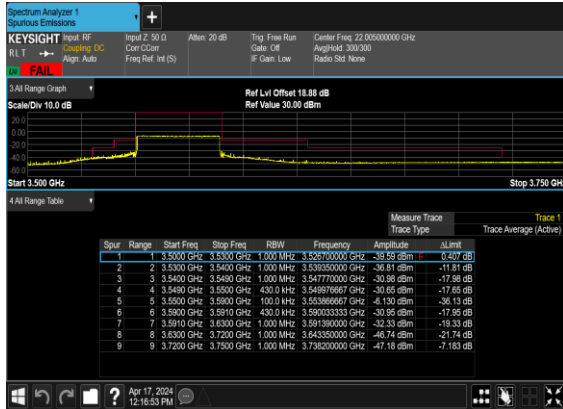
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH_chp_pass



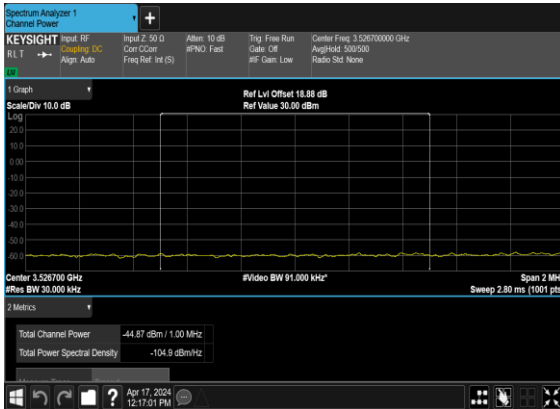
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



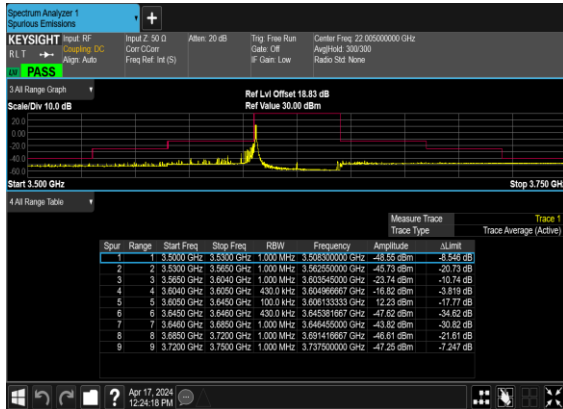
N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH



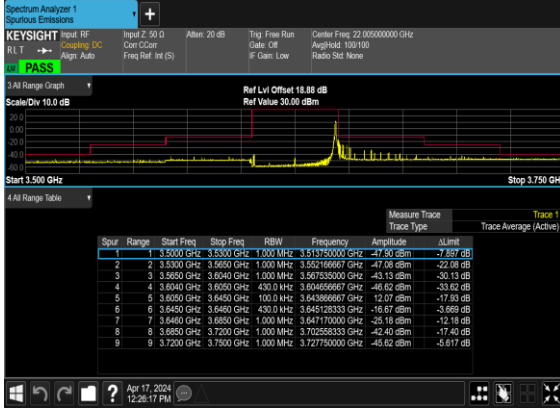
N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH_chp_pass



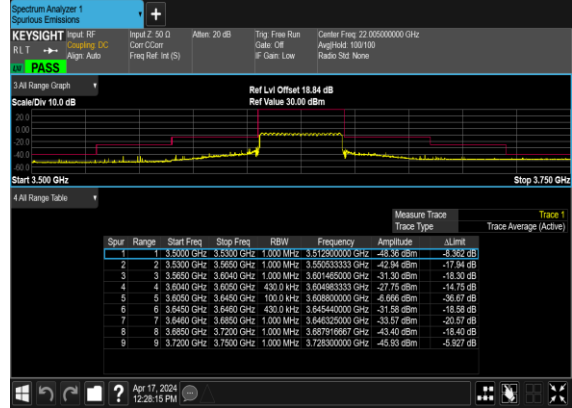
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



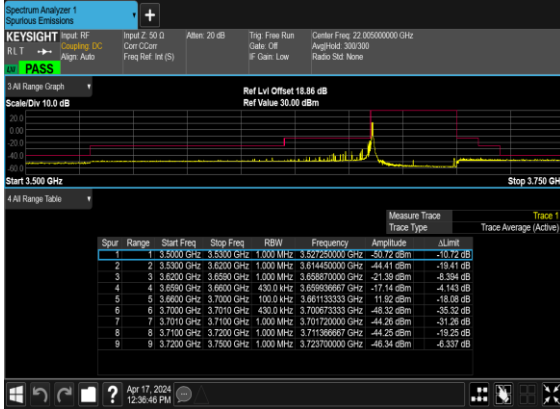
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



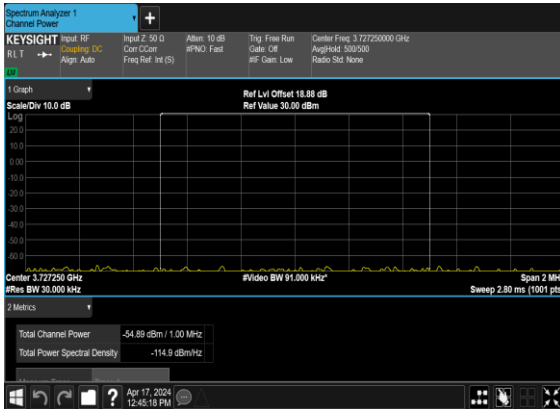
N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



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



N48(40M)_CP- OFDM_QPSK_Outer_Full_High_CH_CHP_PASS





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	23~25°C
		Relative Humidity :	41~42%

Sample 1:

SA n48 / 40MHz / QPSK / Ant.1								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7209	-61.23	-40	-21.23	-72.69	2.84	14.30	H
	10817	-60.74	-40	-20.74	-70.68	3.49	13.43	H
	14425	-60.20	-40	-20.20	-70.44	3.85	14.09	H
	7209	-61.01	-40	-21.01	-72.47	2.84	14.30	V
	10817	-58.45	-40	-18.45	-68.39	3.49	13.43	V
	14425	-60.57	-40	-20.57	-70.81	3.85	14.09	V

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

UL MIMO N48 / 40MHz+40MHz / QPSK / Ant(1+0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7209	-57.49	-40	-17.49	-68.95	2.84	14.30	H
	10817	-61.02	-40	-21.02	-70.96	3.49	13.43	H
	14425	-59.67	-40	-19.67	-69.91	3.85	14.09	H
	7209	-61.08	-40	-21.08	-72.54	2.84	14.30	V
	10817	-60.54	-40	-20.54	-70.48	3.49	13.43	V
	14425	-59.33	-40	-19.33	-69.57	3.85	14.09	V

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



Sample 2:

UL MIMO N48 / 40MHz+40MHz / QPSK / Ant(1+0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7209	-44.68	-40	-4.68	-56.14	2.84	14.30	H
	10817	-50.83	-40	-10.83	-60.77	3.49	13.43	H
	14425	-60.12	-40	-20.12	-70.36	3.85	14.09	H
	7209	-49.70	-40	-9.70	-61.16	2.84	14.30	V
	10817	-56.29	-40	-16.29	-66.23	3.49	13.43	V
	14425	-60.27	-40	-20.27	-70.51	3.85	14.09	V

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

Sample 3:

UL MIMO N48 / 40MHz+40MHz / QPSK / Ant(1+0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7209	-62.23	-40	-22.23	-73.69	2.84	14.30	H
	10817	-51.39	-40	-11.39	-61.33	3.49	13.43	H
	14425	-57.95	-40	-17.95	-68.19	3.85	14.09	H
	7209	-59.36	-40	-19.36	-70.82	2.84	14.30	V
	10817	-54.94	-40	-14.94	-64.88	3.49	13.43	V
	14425	-59.22	-40	-19.22	-69.46	3.85	14.09	V

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