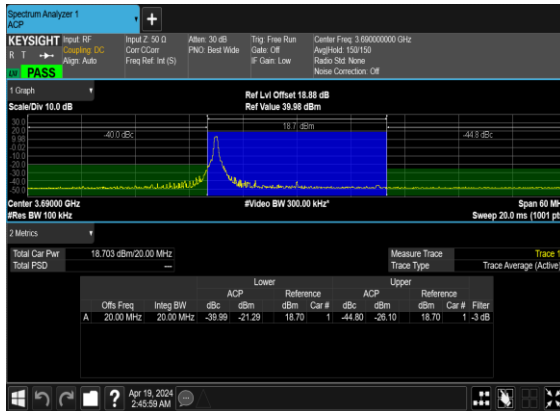
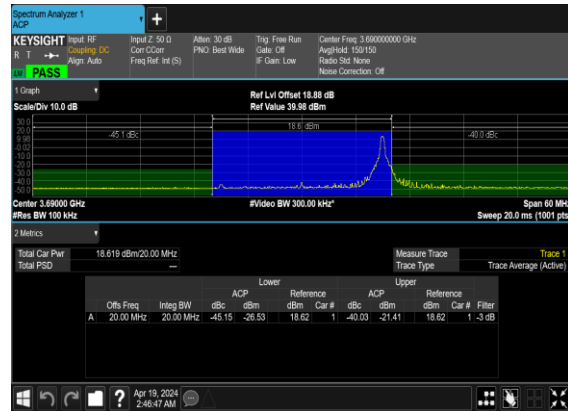


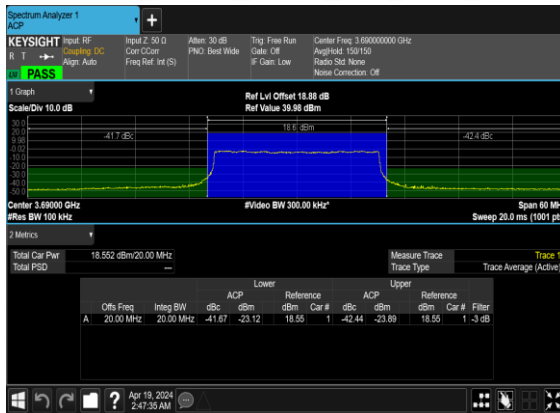
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



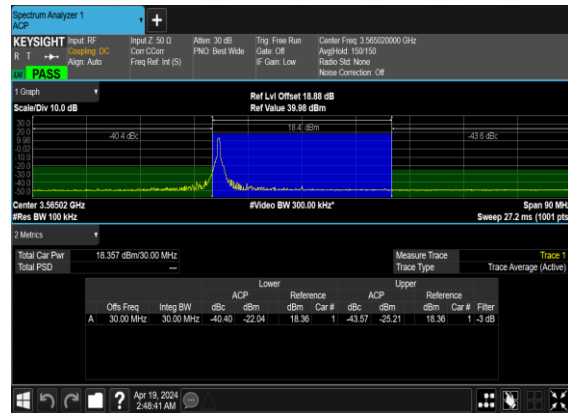
N48(20M)_CP-OFDM_QPSK_
Edge_1RB_Right_High_CH



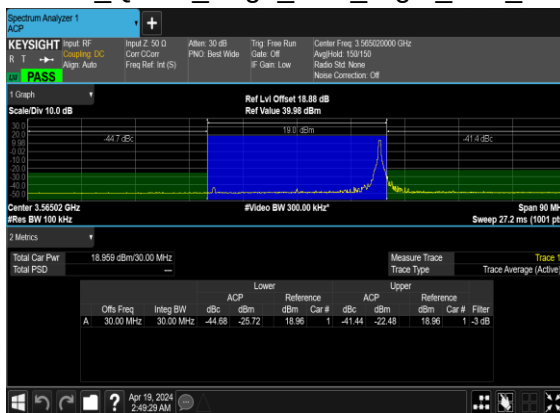
N48(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH



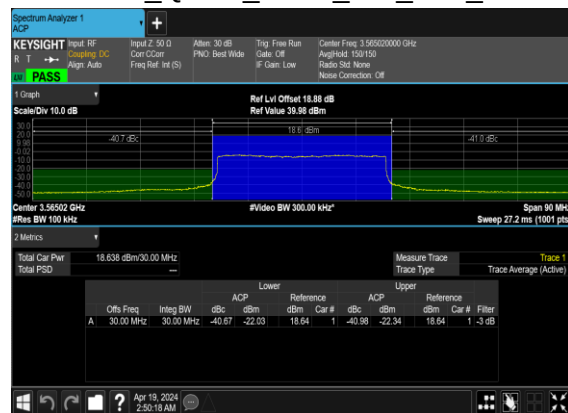
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



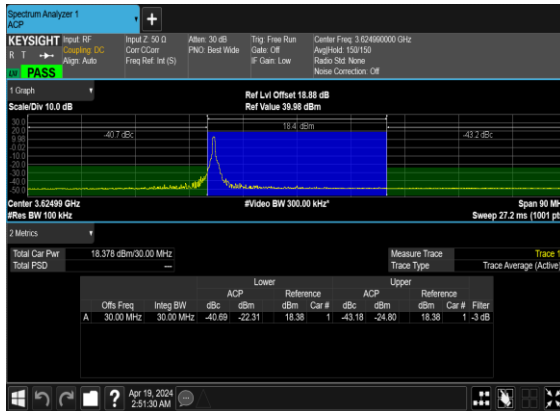
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(30M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



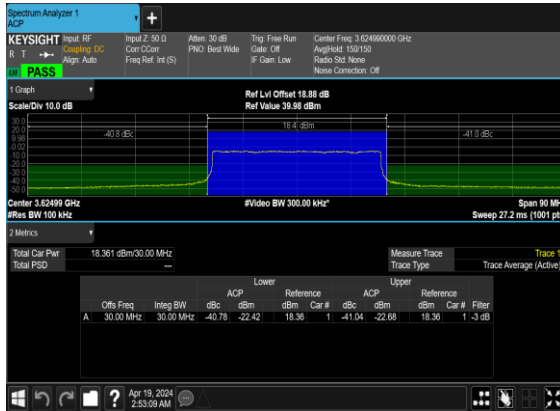
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



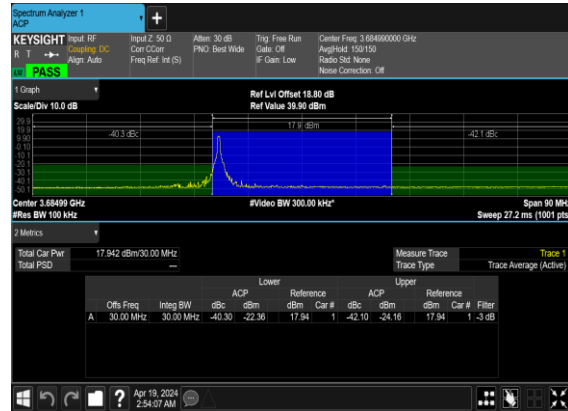
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



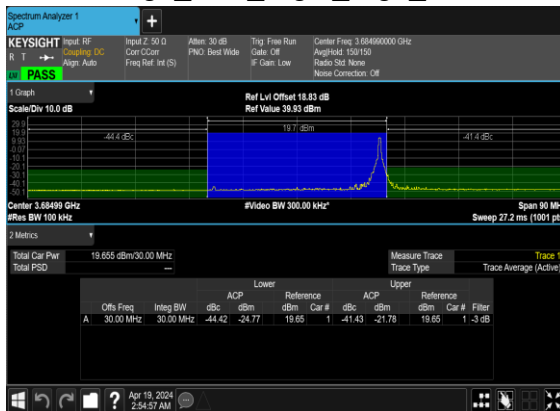
N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



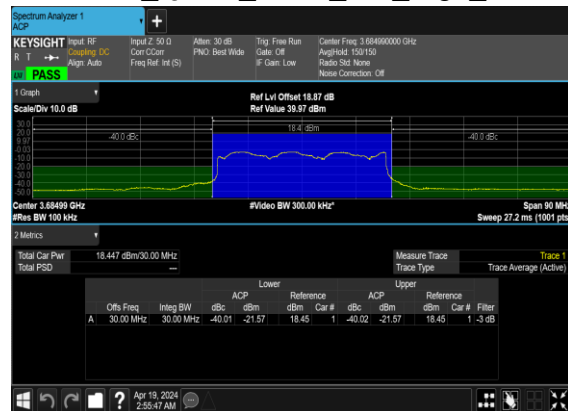
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



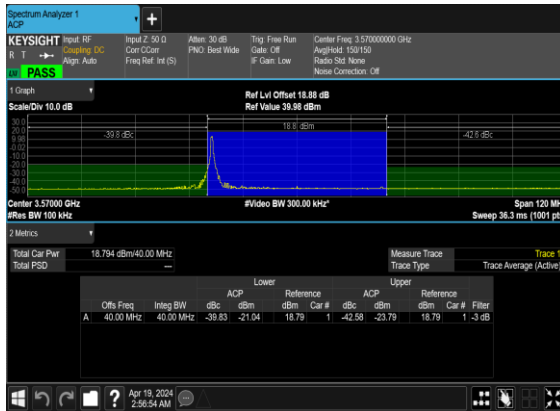
N48(30M)_CP-OFDM_QPSK_
Edge_1RB_Right_High_CH



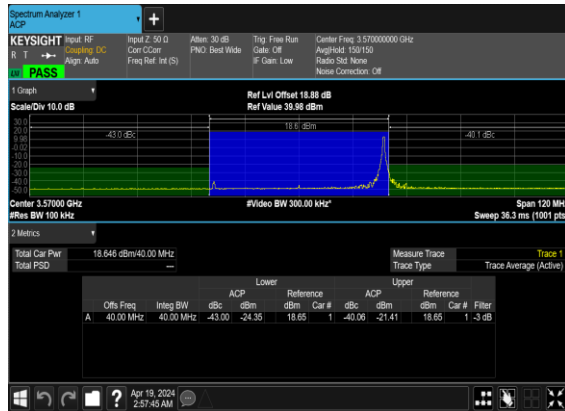
N48(30M)_CP-
OFDM_QPSK_Outer_Full_High_CH



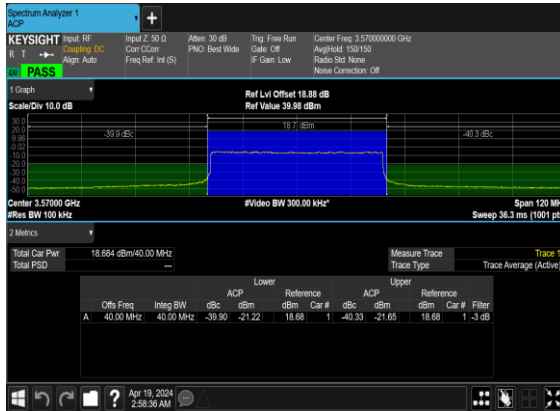
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



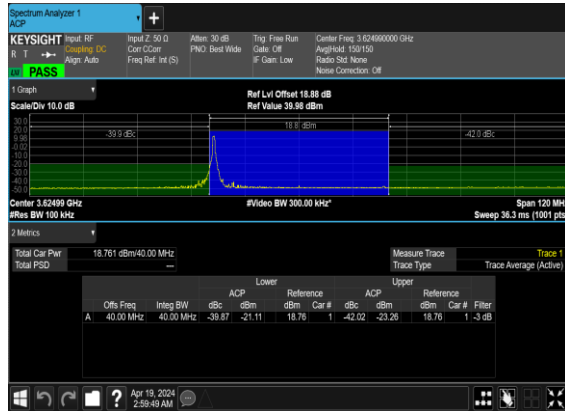
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH



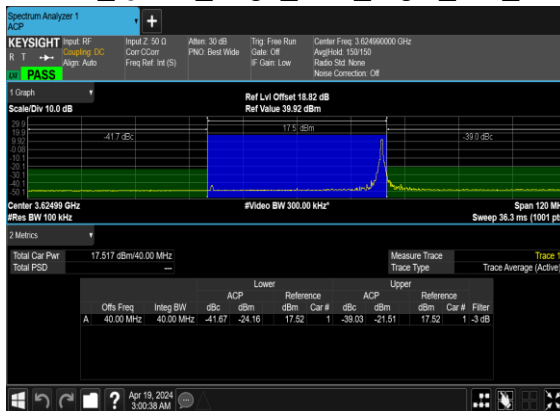
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



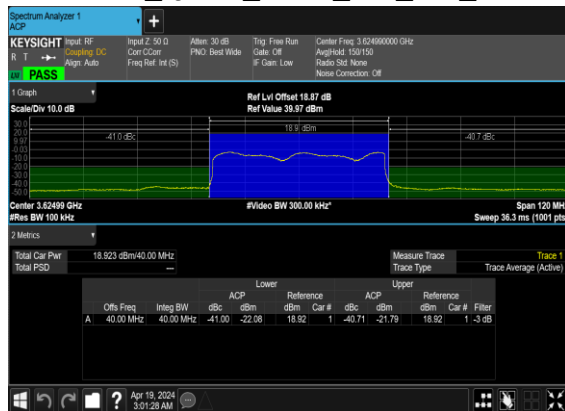
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



Spectrum Analyzer 1 ACP

KEYSTRT Input RF: Center Freq: 3.57989000 GHz
 R T → Align Auto Corr Corr: Auto ArgHold: 100150
 BW PASS PWD Best View IF Gain Low Noise Correction: Off

1 Graph
 Scale/Div 10.0 dB
 Ref Lvl Offset: 18.85 dB
 Ref Value 39.95 dBm

Center: 3.57989 MHz
 #Res BW 100 kHz
 #Video BW 300.00 kHz*
 Span 120 MHz
 Sweep 36.3 ms (1001 pts)

2 Metrics
 Total Car Power: 18.629 dBm/40.00 MHz
 Measure Trace Trace Type Trace Average (Active)

Lower				Upper			
Offs Freq	Integ BW	ACP	Reference	ACP	Reference	Car #	Filter
dBm	dBm	dBm	dBm	dBm	dBm		
40.00 MHz	40.00 MHz	-39.74	-20.91	18.83	1	-41.50	-22.68
						18.63	1 -3 dB

Spectrum Analyzer 1
AC/PC

KEYSIGHT Input Ref: 2.50 G
R T → Align Auto
Align Auto

Input 2: 50 G
Cov: C-Card
Freq Ref: Int (S)

Attain: 30 dB
PNO: Best Wide

Trig: Free Run
Gate: Off
F: Scan Low

Center Freq: 3.67960000 GHz
AvgMode: 100150
Radio Std: None
Noise Correction: Off

IN PASS

1 Graph
Scale/Div: 10.0 dB

Ref Lvl Offset: 18.88 dB
Ref Value: 39.96 dBm

Center: 3.67969 GHz
#Res BW 100 kHz
#Video BW 300.00 kHz*

Span: 120 MHz
Sweep: 36.3 ms (1001 pts)

2 Metrics

Total Cal Per: 18.402 dBm±40.00 MHz
Total PSD: —

Measure Trace: Trace 1
Trace Type: Trace Average (Active)

Lower				Upper			
Offs Freq	Integ BW	ACP	Reference	ACP	Reference	Car #	Filter
cBm	cBm	cBm	cBm	cBm	cBm		
40.00 MHz	40.00 MHz	-42.00	-23.50	18.40	-39.16	-20.78	1 -3 dB

Apr 19, 2024
3:03:53 AM

Spectrum Analyzer 1
ACP

KEYSIGHT Input RF
R T → DC
Align Auto

Input Z: 50 Ω
Cov: COV
Freq Ref: Int (S)

Att: 30 dB
PNO: Best Wide

Trig: Free Run
Gate: Off
IF: Clean Low

Center Freq: 3.57998000 GHz
Amp: 44.1301150
Ratio: Set None
Noise Correction: Off

1 Graph
Scale/Div 10.0 dB

Ref Lvl Offset: 18.81 dB
Ref Value: 39.91 dBm

Span 120 MHz
Sweep 38.3 ms (1001 pts)

Center: 3.57998 GHz
#Res BW 100 kHz
#Video BW 300.00 kHz

2 Metrics

Total Car Power	18.593 dBm/40.00 MHz	Measure Trace	Trace Type	Trace Average (Active)					
Lower	Reference								
Offs Freq	Integ BW	dBc	dBm	Car #	ACP	Reference	dBm	Car #	Filter
A 40.00 MHz	40.00 MHz	-39.92	-21.33	18.59	1	-39.98	-21.39	18.59	1 -3 dB

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



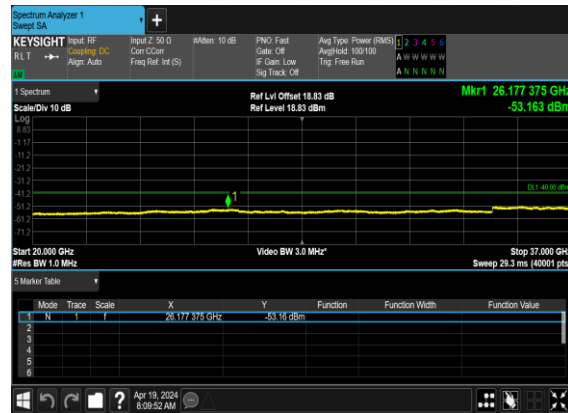
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



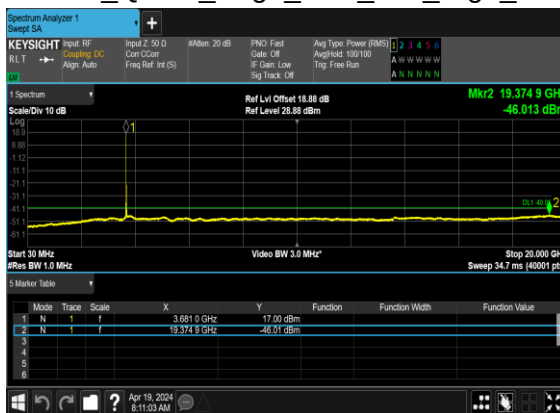
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



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



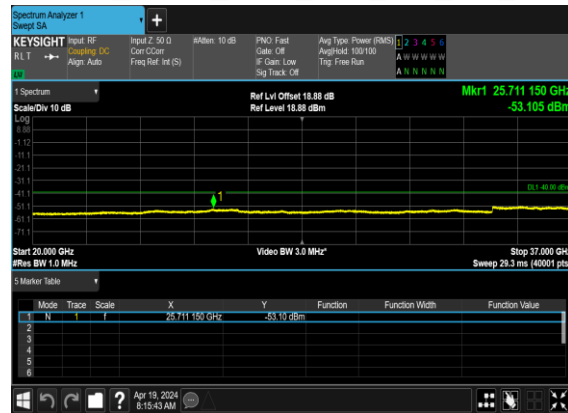
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



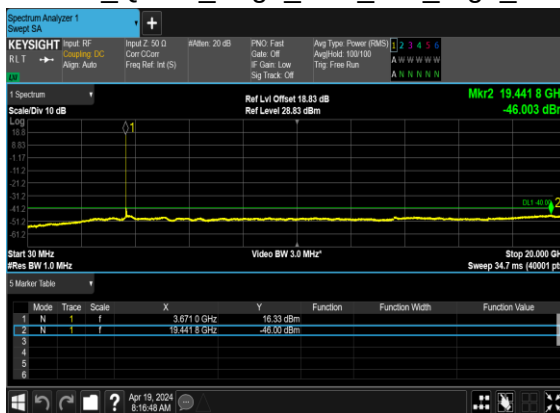
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



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



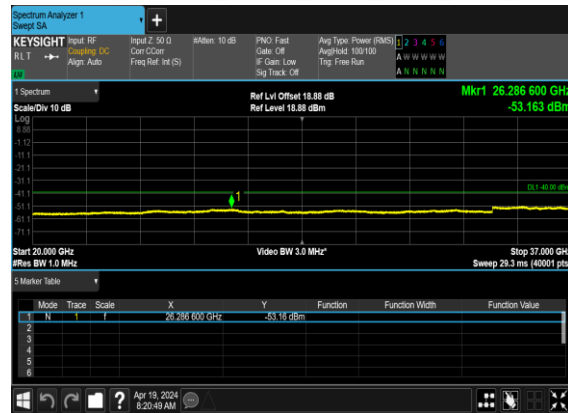
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



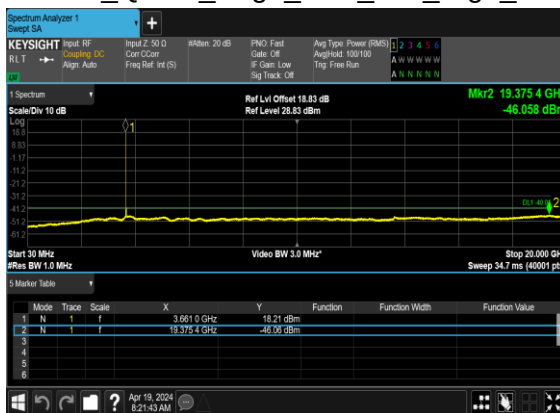
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



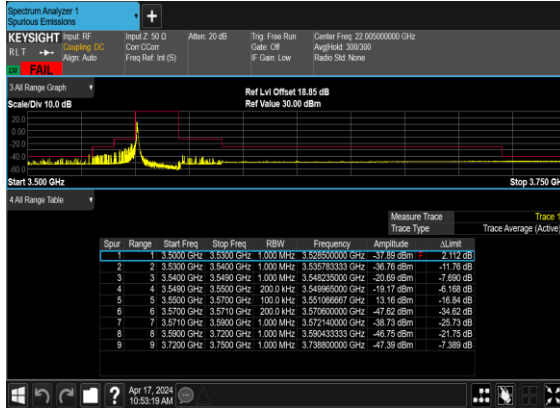
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



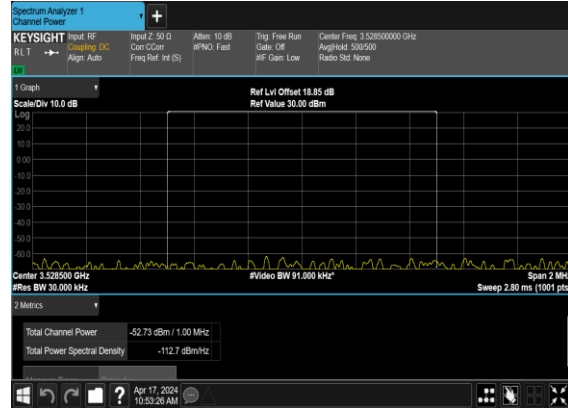
Conducted Band Edge

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

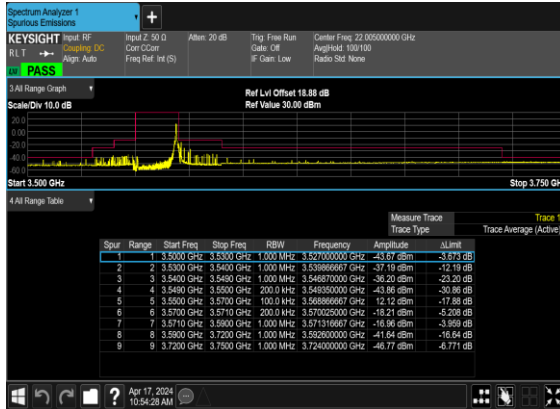
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



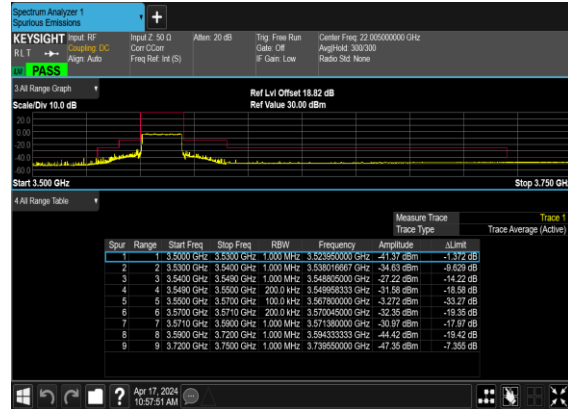
N48(20M)_CP-OFDM_QPSK Edge_1RB_Left_Low_CH_chp_pass



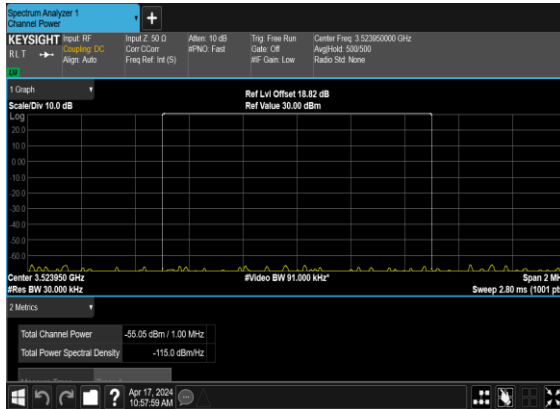
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Right_Low_CH



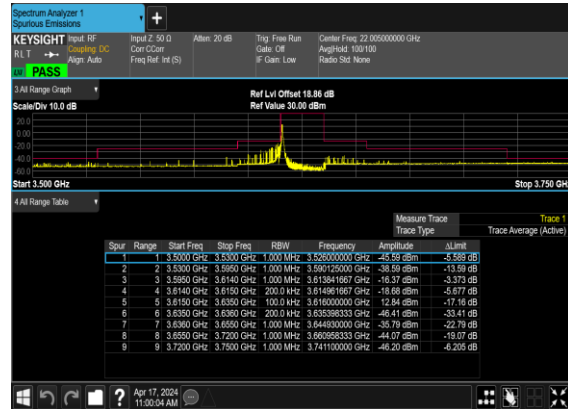
N48(20M)_CP- OFDM_QPSK_Outer_Full_Low_CH



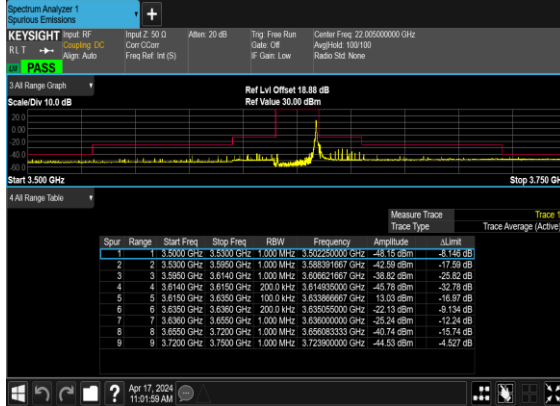
N48(20M)_CP- OFDM_QPSK_Outer_Full_Low_CH_chp_pass



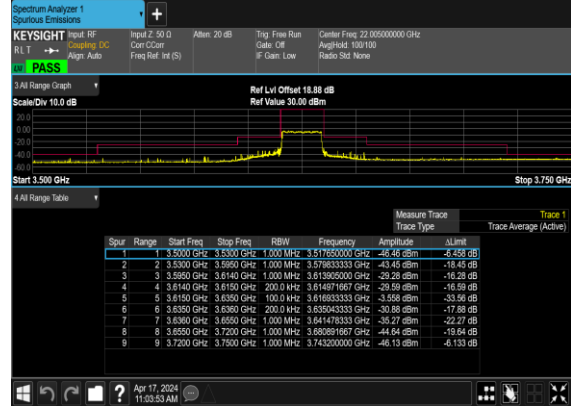
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



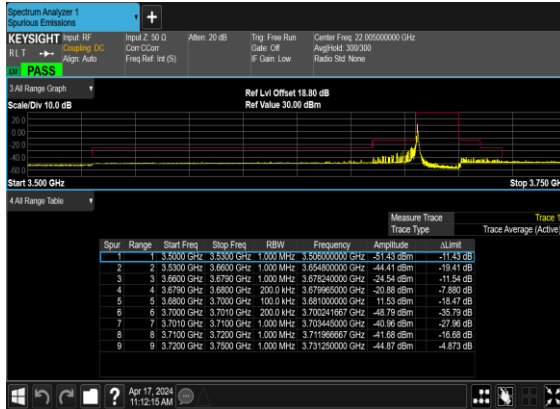
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Right_Mid_CH



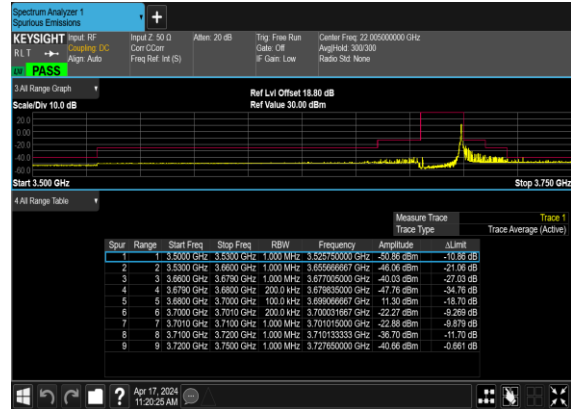
N48(20M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



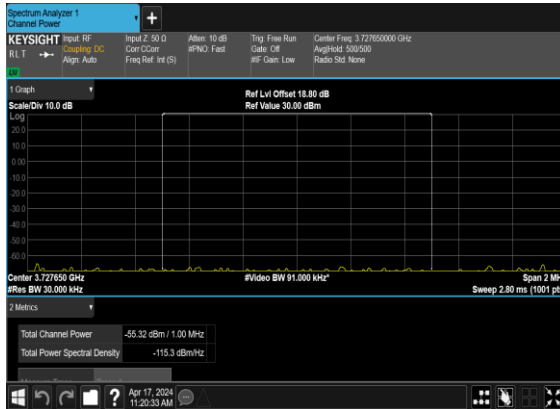
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



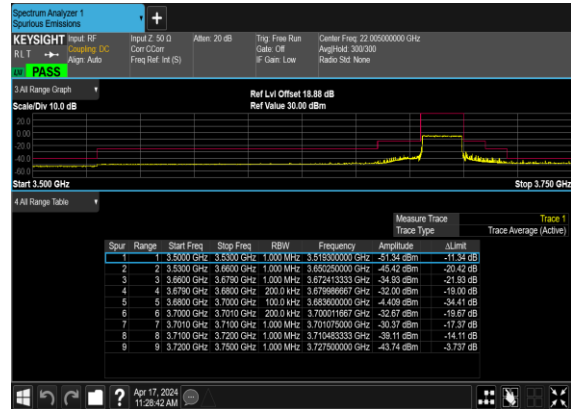
N48(20M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



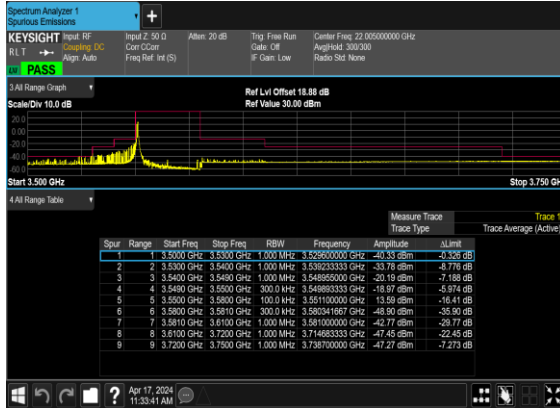
N48(20M)_CP-OFDM_QPSK_ Edge_1RB_Right_High_CH_CHP_PASS



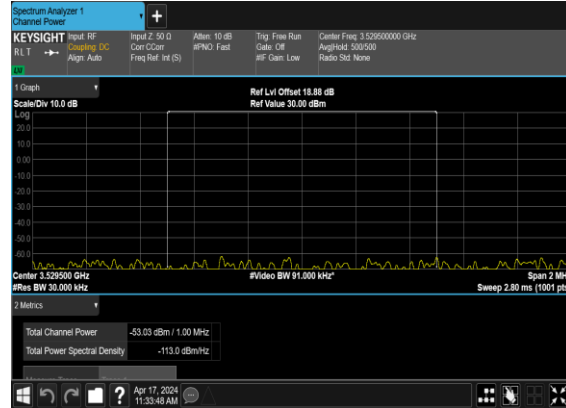
N48(20M)_CP- OFDM_QPSK_Outer_Full_High_CH



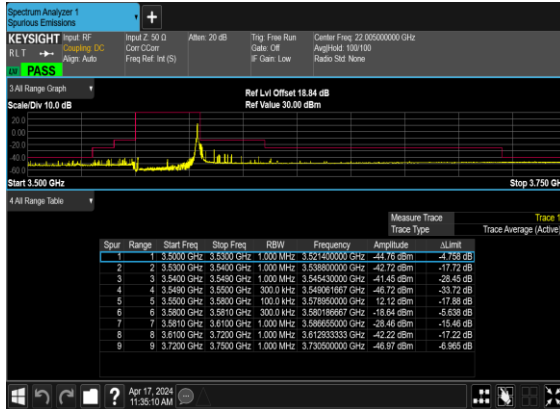
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



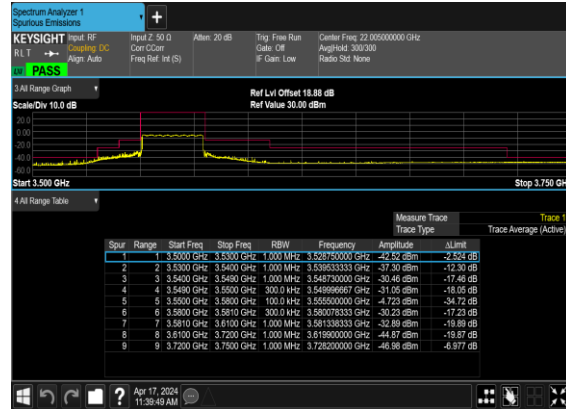
N48(30M)_CP-OFDM_QPSK Edge_1RB_Left_Low_CH_chp_pass



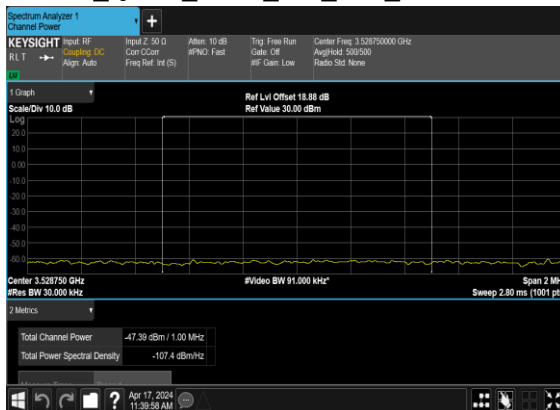
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Right_Low_CH



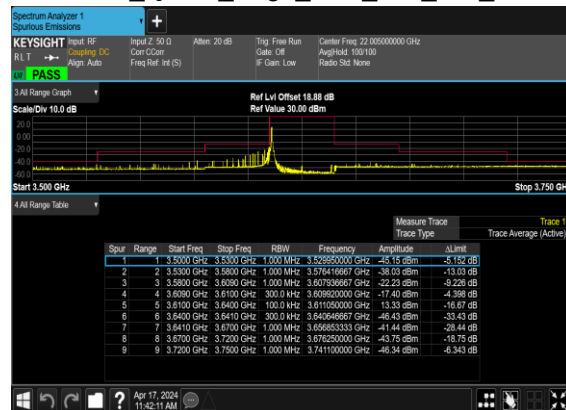
N48(30M)_CP- OFDM_QPSK_Outer_Full_Low_CH



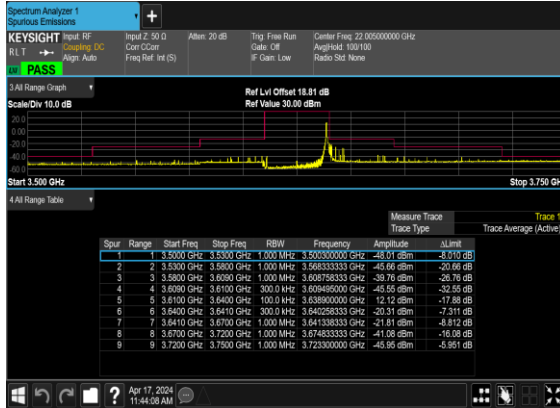
N48(30M)_CP- OFDM_QPSK_Outer_Full_Low_CH_chp_pass



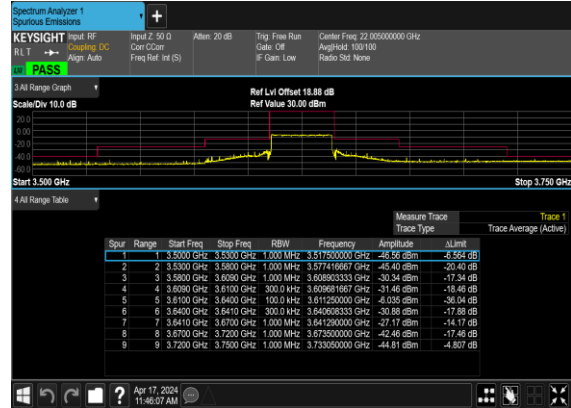
N48(30M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



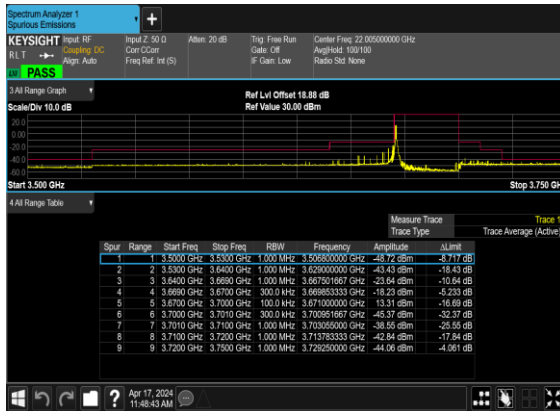
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



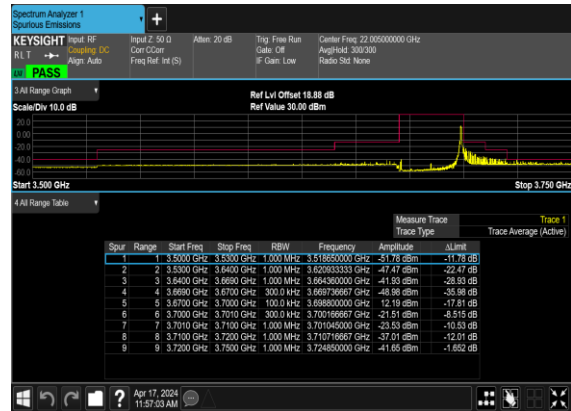
N48(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



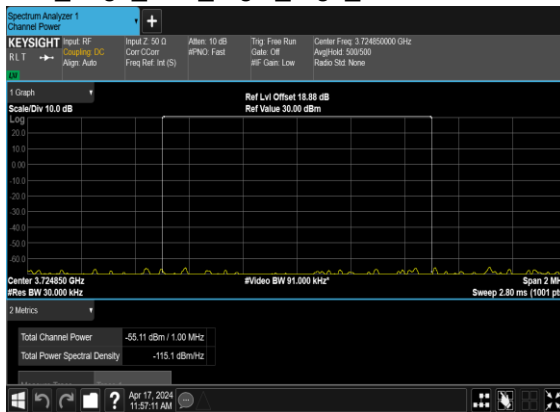
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



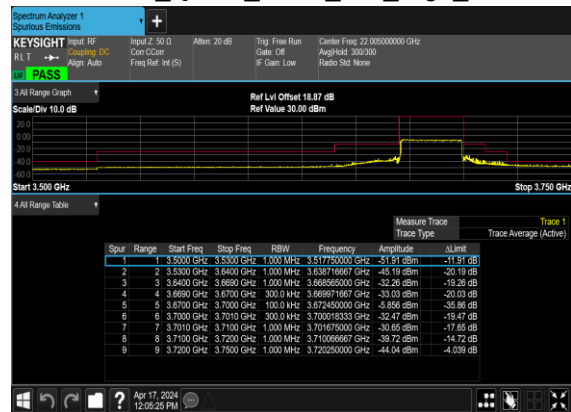
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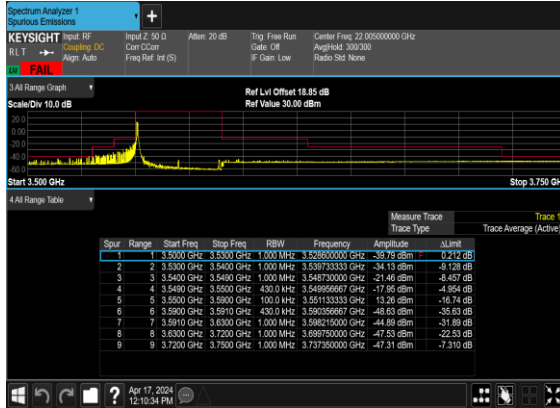
N48(30M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH_chp_PASS



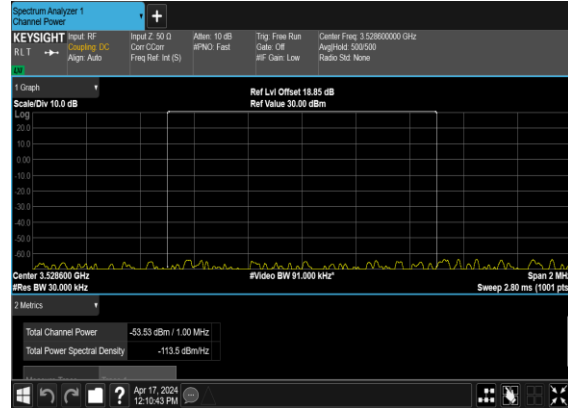
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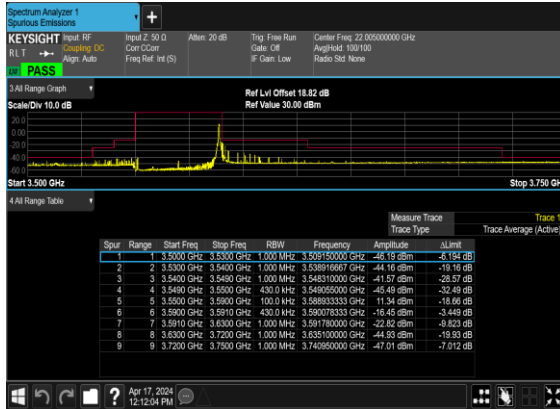
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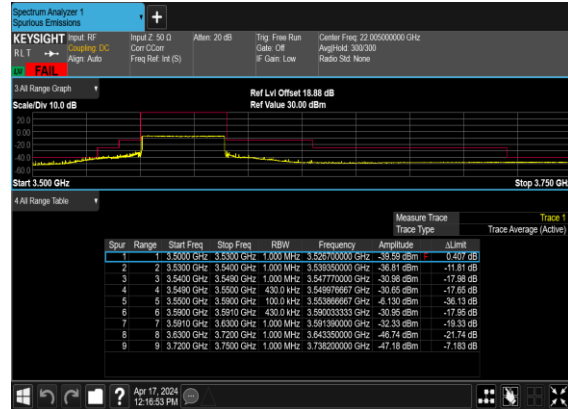
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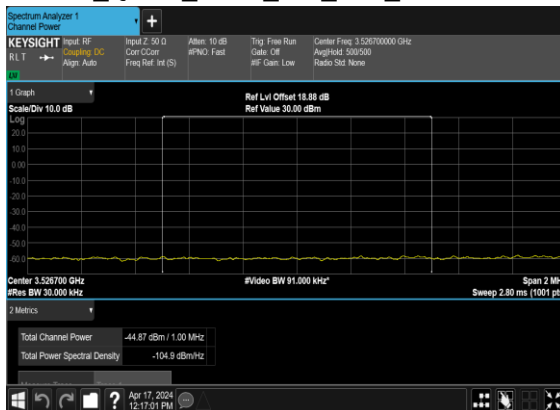
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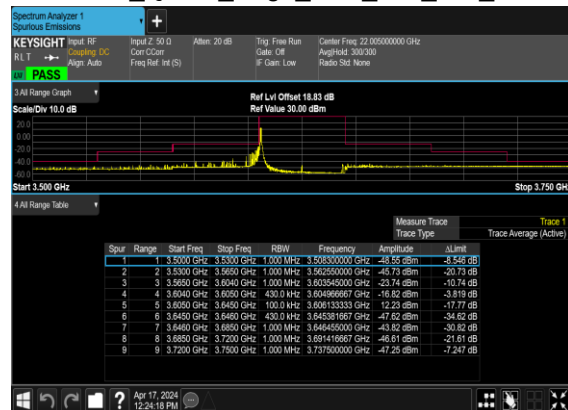
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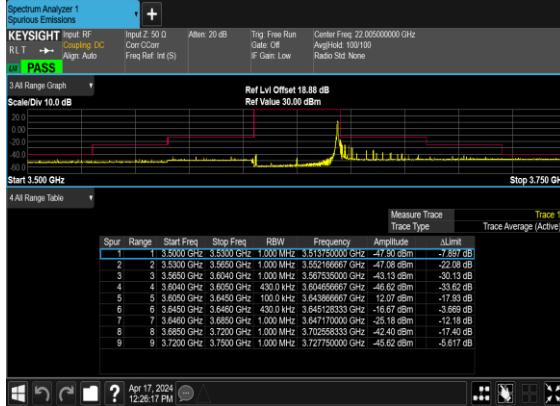
N48(40M)_CP- OFDM_QPSK_Outer_Full_Low_CH_chp_PASS



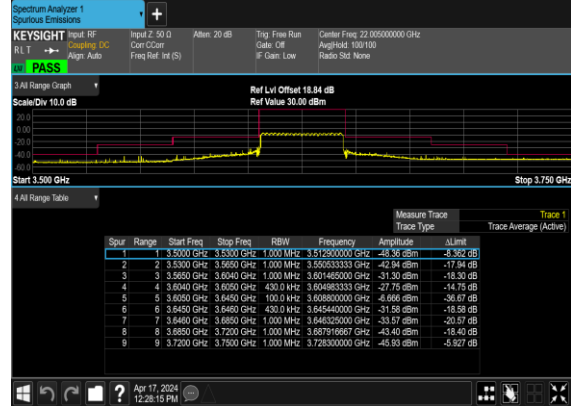
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



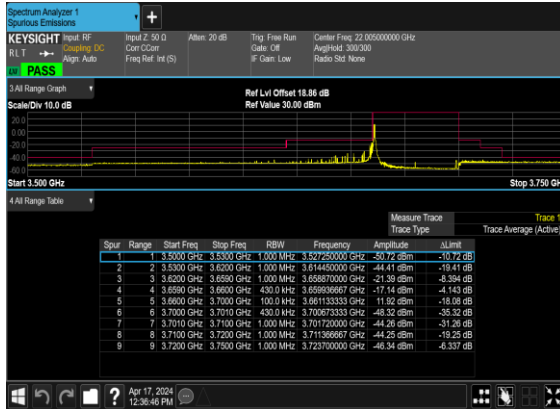
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Right_Mid_CH



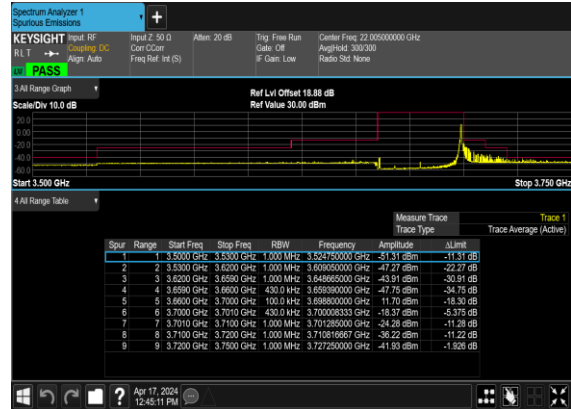
N48(40M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



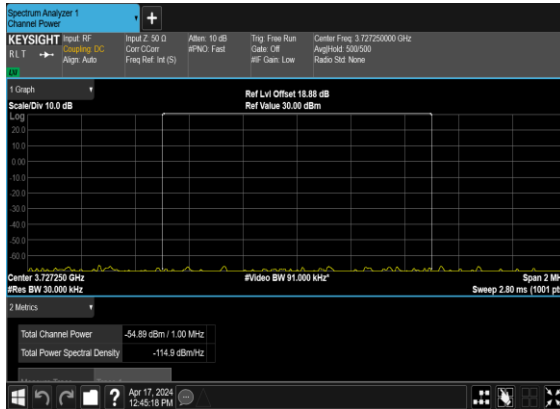
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



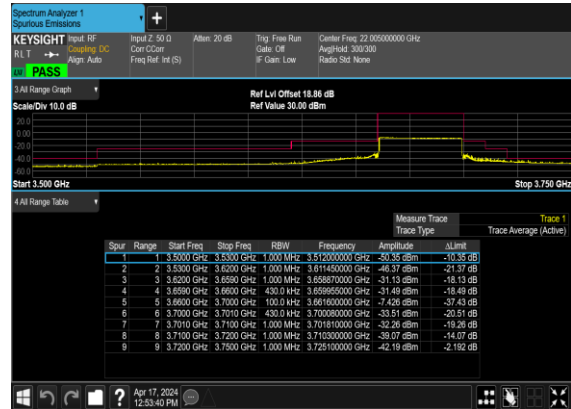
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



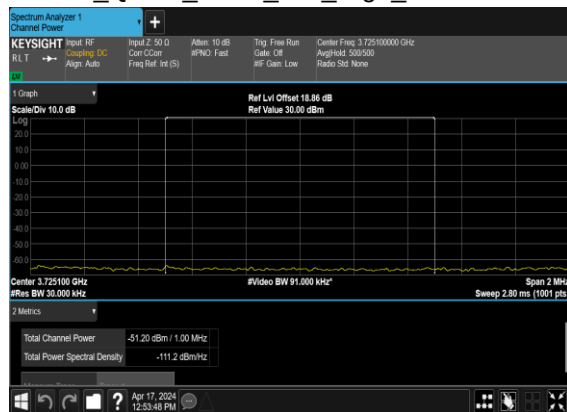
N48(40M)_CP-OFDM_QPSK_ Edge_1RB_Right_High_CH_CHP_PASS



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.