

Keysight Spectrum Analyzer 1
Sweep SA

KEYSIGHT
R T → Input RF: 50 Ω, Coupling: DC, Align: Off
Input Z: 50 Ω, Attenuation: 0 dB, P1dB: Fast, Gate: Off, Avg Type: Power (RMS), Res: 3, 4, 5, 6
Freq Ref: Int (S), IF Cam: High, Sig Track: Off, Aref: 100/100, A W: W W W W W
Trig: Free Run, A N: N N N N N

1 Spectrum
Scale/Div: 10 dB, Log, 3.47, 3.43, 3.39, 3.35, 3.31, 3.27, 3.23, 3.19, 3.15, 3.11, 3.07, 3.03, 2.99, 2.95, 2.91, 2.87, 2.83, 2.79, 2.75, 2.71, 2.67, 2.63, 2.59, 2.55, 2.51, 2.47, 2.43, 2.39, 2.35, 2.31, 2.27, 2.23, 2.19, 2.15, 2.11, 2.07, 2.03, 1.99, 1.95, 1.91, 1.87, 1.83, 1.79, 1.75, 1.71, 1.67, 1.63, 1.59, 1.55, 1.51, 1.47, 1.43, 1.39, 1.35, 1.31, 1.27, 1.23, 1.19, 1.15, 1.11, 1.07, 1.03, 0.99, 0.95, 0.91, 0.87, 0.83, 0.79, 0.75, 0.71, 0.67, 0.63, 0.59, 0.55, 0.51, 0.47, 0.43, 0.39, 0.35, 0.31, 0.27, 0.23, 0.19, 0.15, 0.11, 0.07, 0.03, 0.00

Ref Lvl Offset: 23.47 dBm
Ref Level: 13.47 dBm

Mkr2: 3.846 GHz
-48.219 dBm

Start: 30 MHz
#Res: BW 1.0 MHz
Video BW: 3.0 MHz
Stop: 20.0 GHz
Sweep: 34.7 ms (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	f	3.616 GHz	22.25 dBm			
2	N	f	3.846 GHz	-48.21 dBm			
3							
4							
5							
6							

May 12, 2020 5:56:03 PM

The screenshot displays a Spectrum Analyzer interface with the following components:

- Top Panel:**
 - KEYSTONE** logo and **Sweep SA** mode.
 - Input:** RF, **Clipping:** DC, **Algs:** Off.
 - Input 2:** 50 Ω, **Corrections:** Off, **Freq Ref:** Int (S).
 - Attenuation:** Attenu (dB).
 - PN0 Fast Gate:** Off, **IF Gain:** High, **Sig Track:** Off.
 - Avg Type:** Power (RMS), **Amplitude:** 100/100, **Trig:** Free Run.
 - Frequency Markers:** 1, 2, 3, 4, 5, 6. **AWWWWW** and **ANNNNN** labels are present.
- Plot Area:**
 - Scale/Div:** 10 dB.
 - Log** scale.
 - Ref Lvl Offset:** 33.47 dB, **Ref Level:** 13.47 dBm.
 - Video BW:** 3.0 MHz.
 - Start:** 20.000 GHz, **Stop:** 37.000 GHz.
 - Res BW:** 1.0 MHz, **Sweep:** 29.3 ms (40001 pts).
 - Marker 1:** 35.183 550 GHz, **Level:** -46.790 dBm.
 - Cursor:** 35.17440 GHz.
- Marker Table:**

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N		35.183 550 GHz	-46.75 dBm			
2							
3							
4							
5							
6							
- Bottom Panel:**
 - Windows taskbar showing the date **May 12, 2023** and time **5:56:44 PM**.
 - System tray icons for network, volume, and other background processes.

Spectrum Analyzer 1
Sweep SA

KEYSTREAM
 Input RF: RF
 Coupling: DC
 Align: Off

Input Z: 50 Ω
 Connections: Off
 Freq Ref: Int (S)

AttN: 0 dB
 PNO: Fast
 Gate: Off
 IF Gain: High
 Sig Track: Off

Avg Type: Power (RMS)
 AvgHz: 100100
 Trig: Free Run

1 2 3 4 5 6
 A W W W W W
 A N N N N N

1 Spectrum
 Scale/Div 10 dB
 Log
 -105
-90
-75
-60
-45
-30
-15
0
15
30
45
60
75
90
105

Ref Lvl Offset: 33.47 dBm
 Ref Level: 13.47 dBm

Mkr2: 3.9117 GHz
 -46.631 dBm

Start 30 MHz
 #Res BW 1.0 MHz

Video BW 3.0 MHz

Stop 20.0 GHz
 Sweep 34.7 ms (40001 pt)

5 Marker Table

#	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	3.6810 GHz	14.44 dBm			
2	N	1	f	3.9117 GHz	-46.63 dBm			
3								
4								
5								
6								

May 12, 2023
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[illegible]

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF: **RF** | Creating DC: **Off** | Align: **Off** | Input Z: 50 Ohm | Connections: Off | Span: 33.43 dBm | PNO: Fast | Gate: Off | S: Gain: High | Sig: Track: Off | Avg Type: Power (RMS) | Amplitude: 100.100 | Trig: Free Run | **1 2 3 4 5 6** | **A W W W W W** | **A N N N N N**

1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 33.43 dB
Ref Level 13.43 dBm
Start 30 MHz
Stop 20.0 GHz
Sweep BW 1.0 MHz
Video BW 3.0 MHz*
Sweep 34.7 ms / 60001 pts

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	f	3.9519 GHz	13.93 dBm			
2	N	f	3.9117 GHz	-48.37 dBm			
3							
4							
5							
6							

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input: RF
Coupling: DC
Appl: Off

Input 2: 50.0
Corrections: Off
Freq Ref: Int (S)

Attenu: 0 dB

PNO: Fast
Gate: Off
R: Gain: High
Sig Track: Off

Avg Type: Power (RMS)
Avalch: 100/100
Trig: Free Run

2 3 4 5 6
A W W W W W
N N N N N N

1 Spectrum
Scale Div: 10 dB

Ref Lvl Offset: 33.43 dB
Ref Level: 13.43 dBm

35.280 GHz
-46.837 dBm

Start: 20.000 GHz
Res BW: 1.0 MHz

Video BW: 3.0 MHz

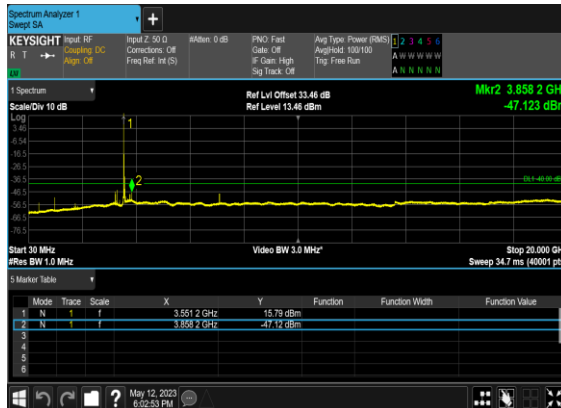
Stop: 37.000 GHz
Sweep: 29.3 ms (40001 pts)

Marker Table

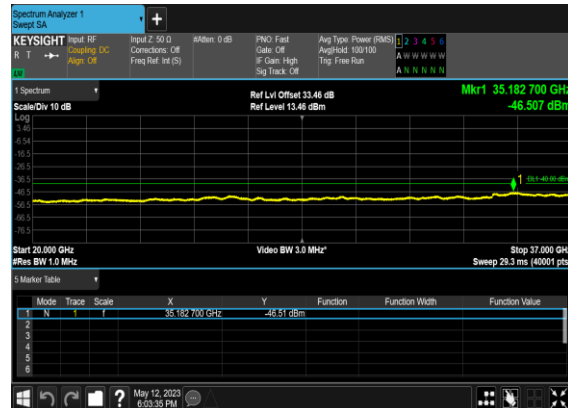
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	35.280 450 GHz	-46.84 dBm			
2							
3							
4							
5							
6							

May 15, 2023
6:31:00 PM

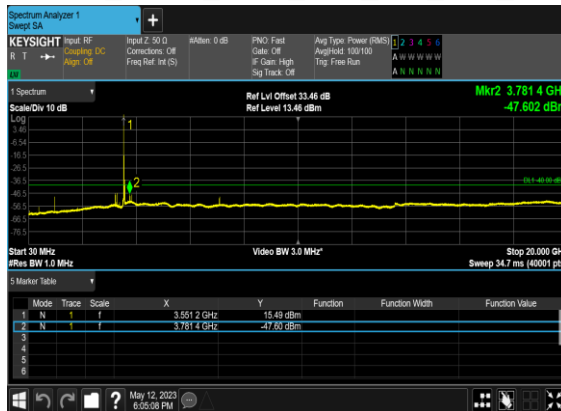
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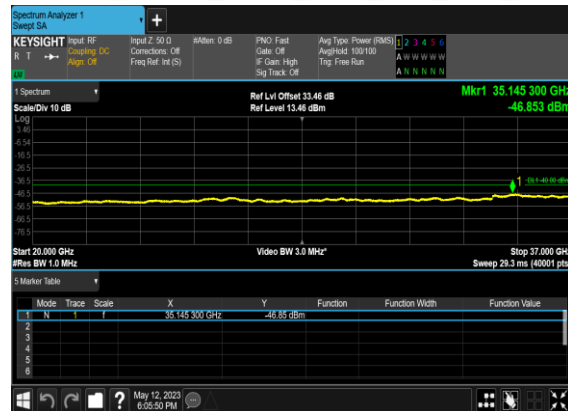
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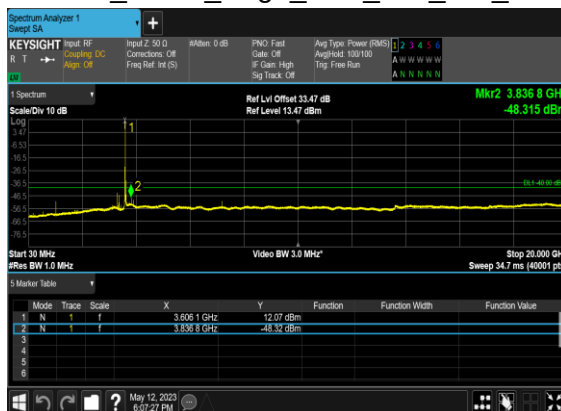
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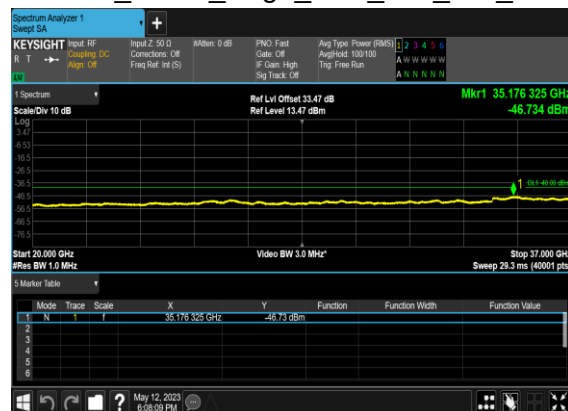
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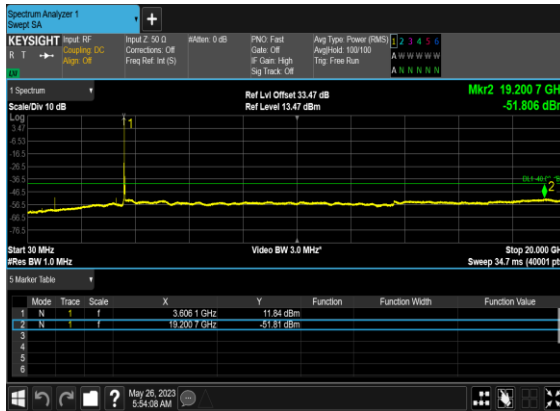
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OFDM_BPSK_Edge_1RB_Left_Mid_CH



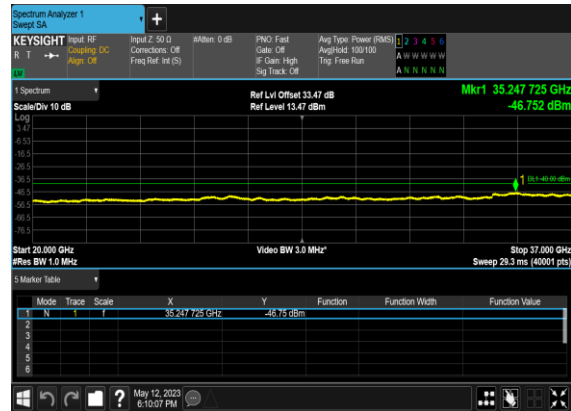
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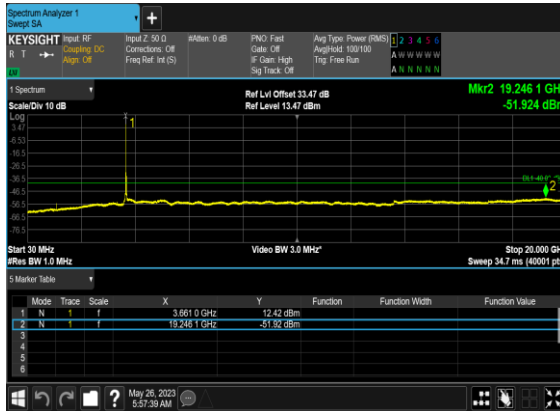
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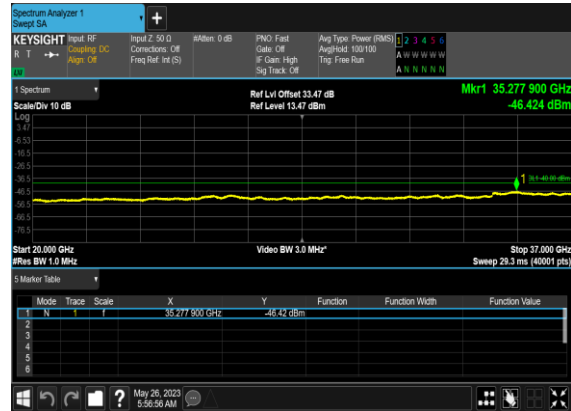
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



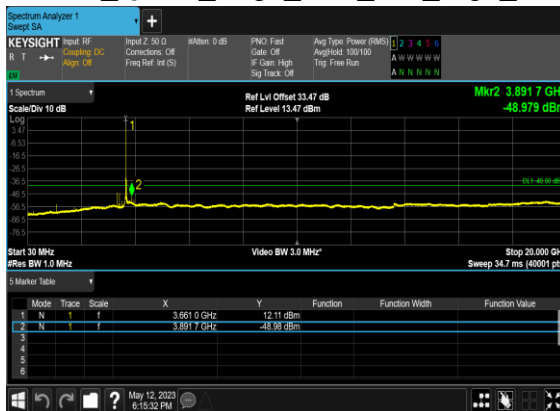
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OFDM_BPSK_Edge_1RB_Left_High_CH



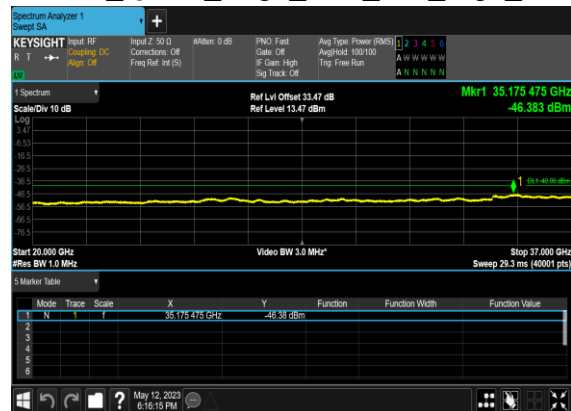
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OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

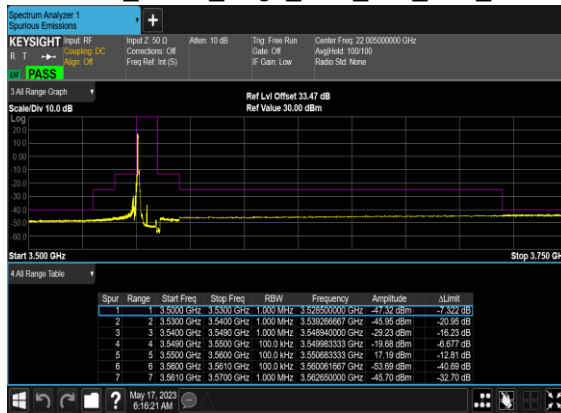


Conducted Band Edge

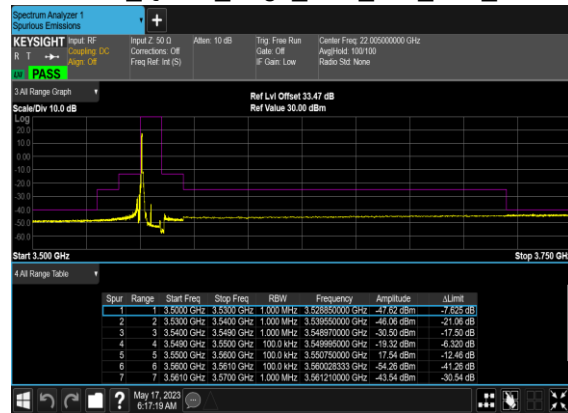
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	see graph	PASS

48	30	20	646000	3690.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	see graph	PASS

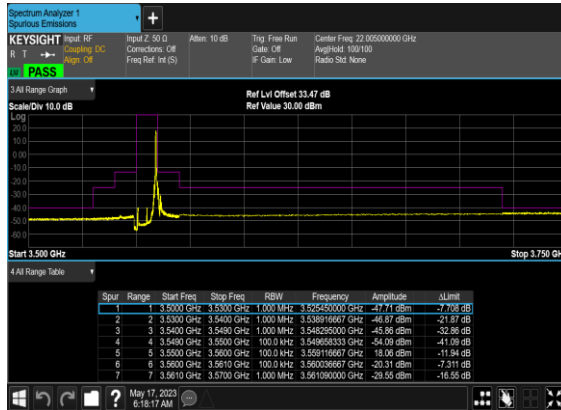
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OFDM_BPSK_Edge_1RB_Left_Low_CH



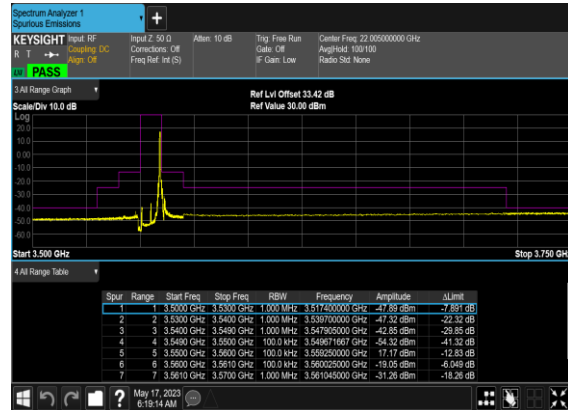
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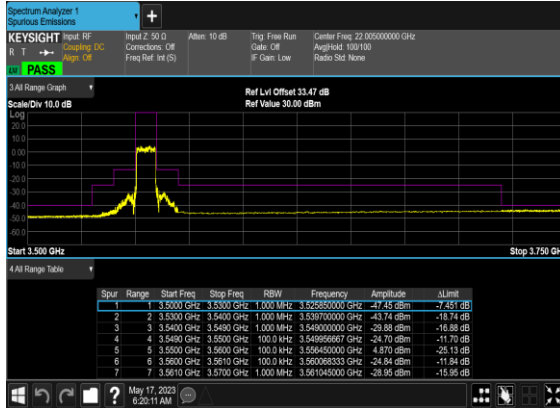
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OFDM_BPSK_Edge_1RB_Right_Low_CH



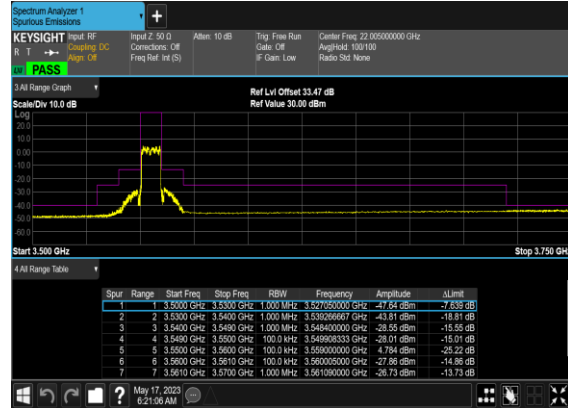
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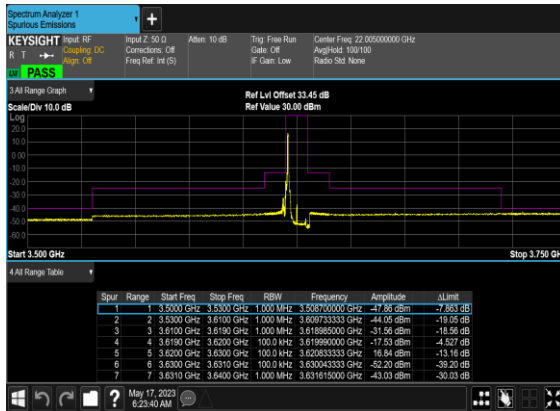
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OFDM_BPSK_Outer_Full_Low_CH



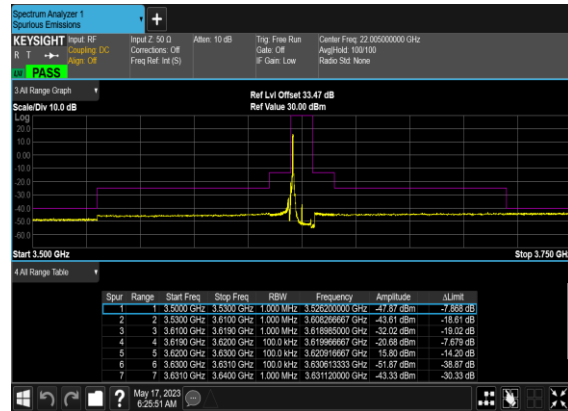
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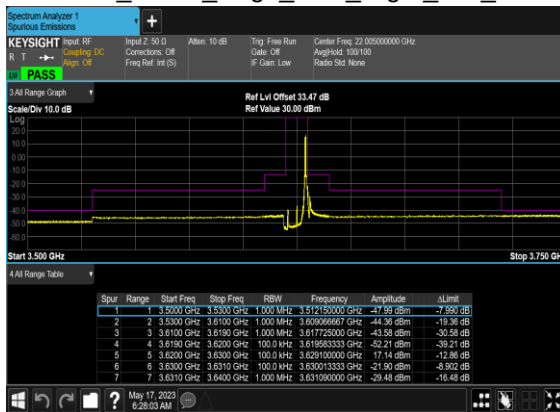
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OFDM_BPSK_Edge_1RB_Left_Mid_CH



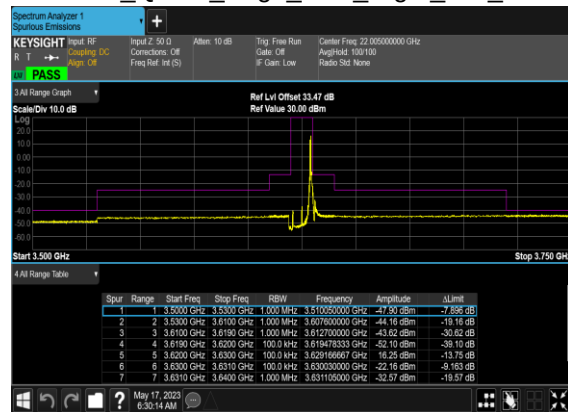
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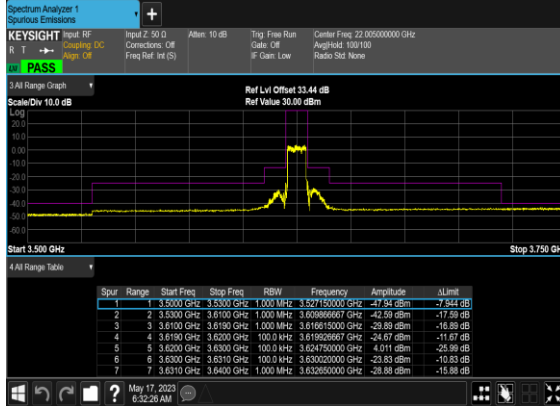
N48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH



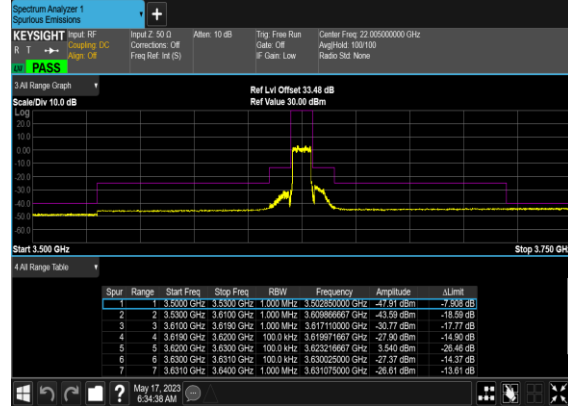
N48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



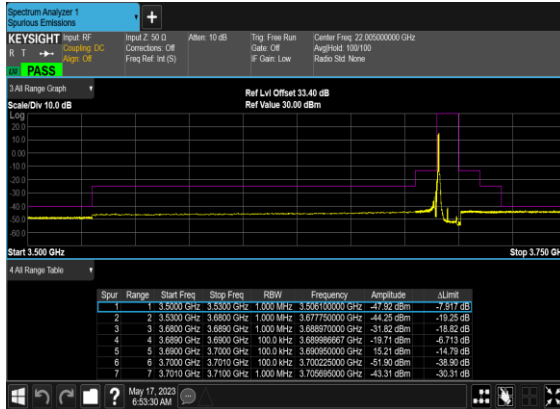
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



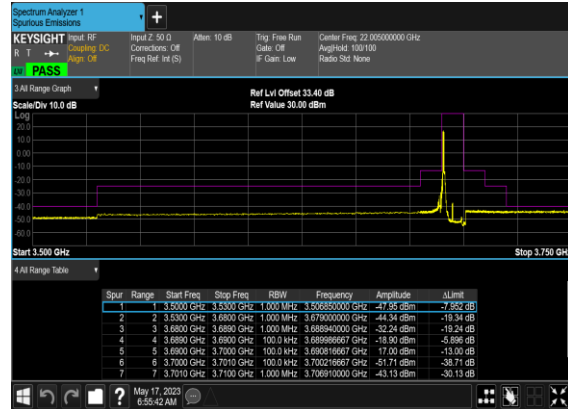
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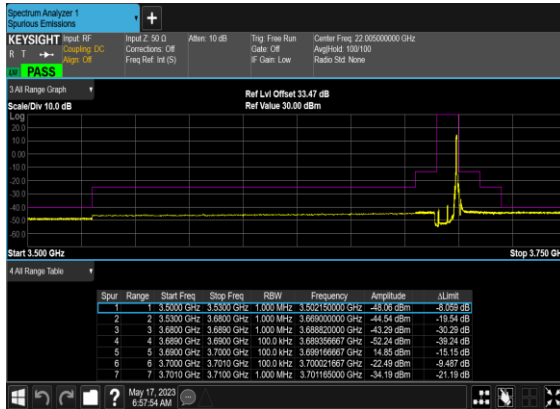
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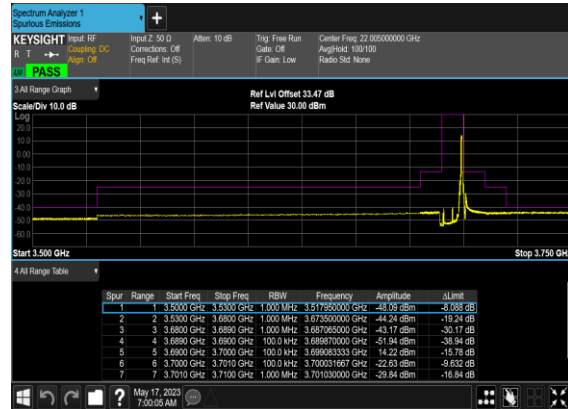
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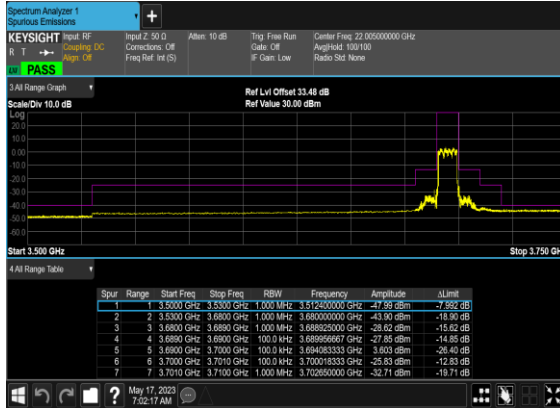
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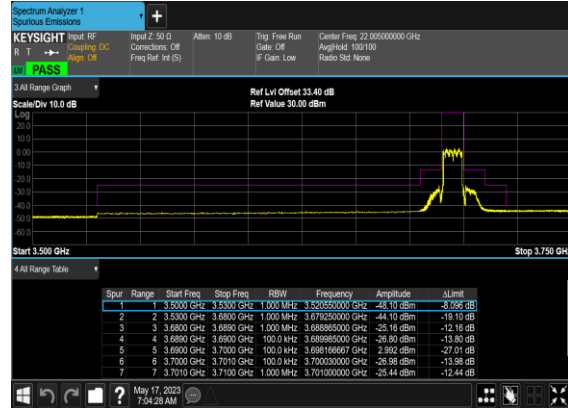
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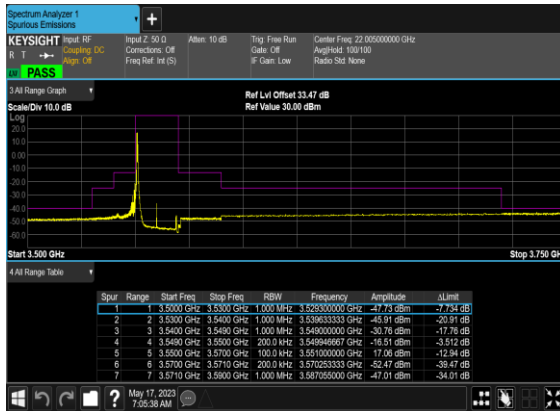
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OFDM_BPSK_Outer_Full_High_CH



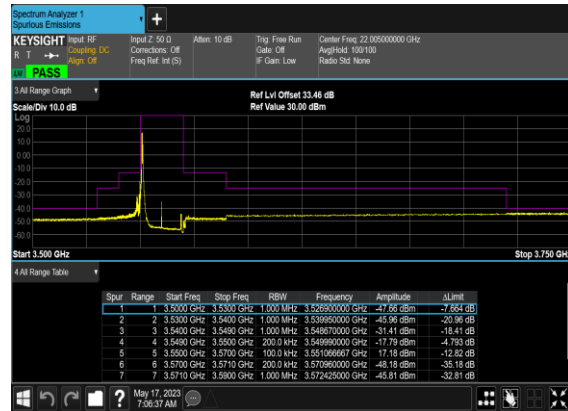
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OFDM_QPSK_Outer_Full_High_CH



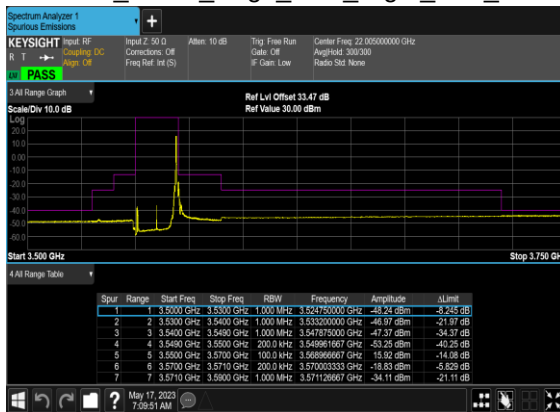
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



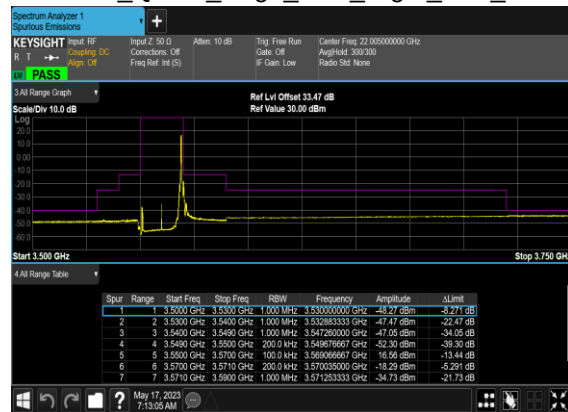
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OFDM_QPSK_Edge_1RB_Left_Low_CH



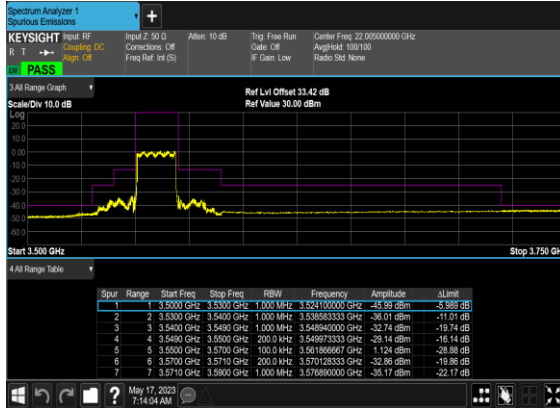
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Low_CH



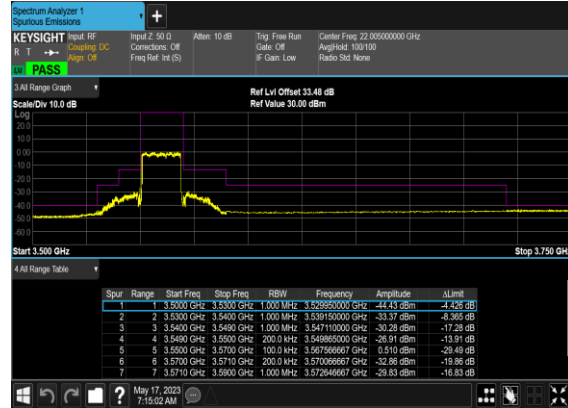
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Low_CH



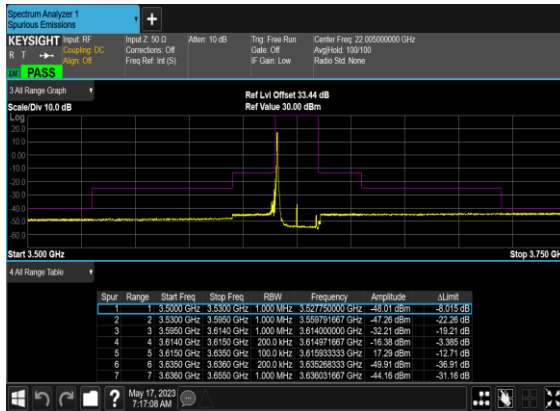
N48(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



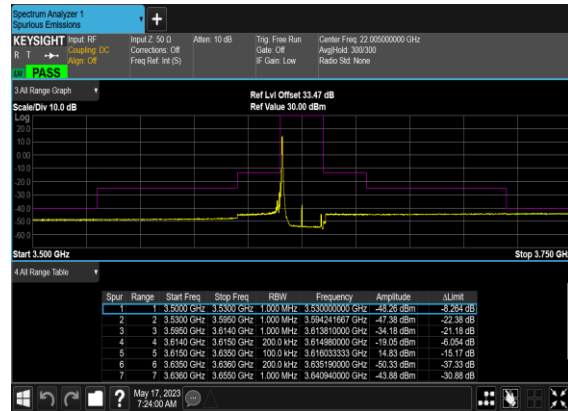
N48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



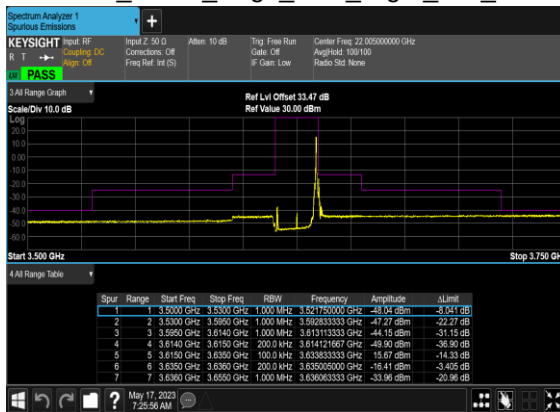
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



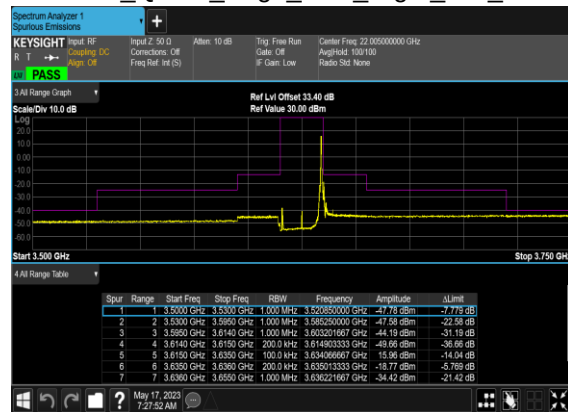
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



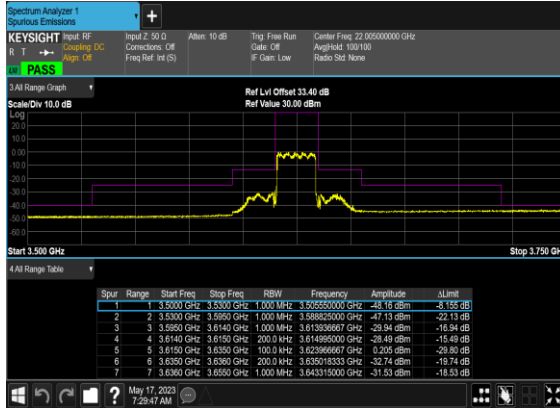
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH



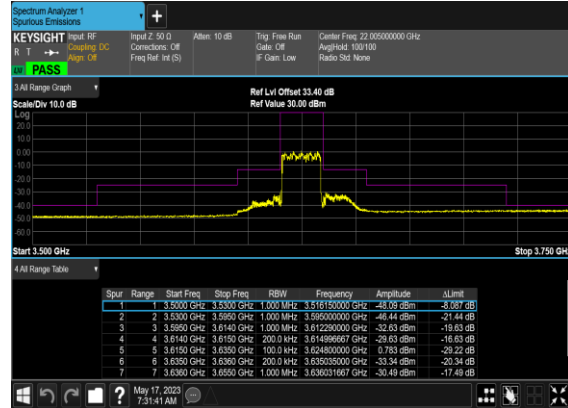
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OFDM_QPSK_Edge_1RB_Right_Mid_CH



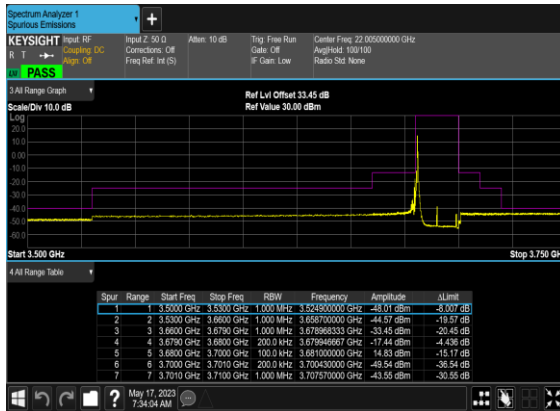
N48(20M)_DFT-s- OFDM_BPSK_Outer_Full_Mid_CH



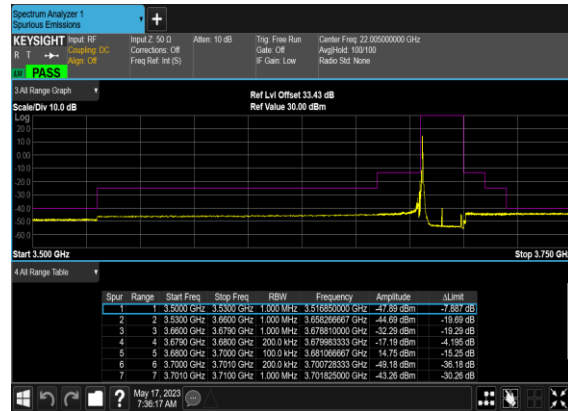
N48(20M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



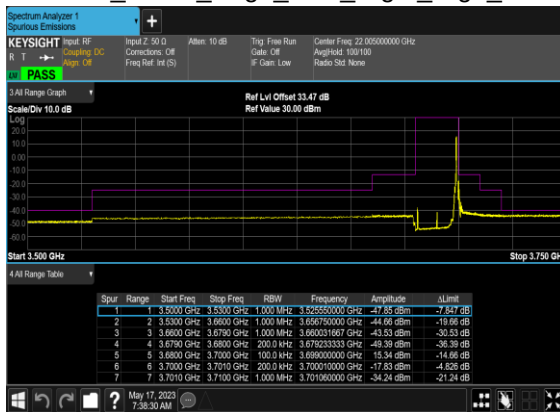
N48(20M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



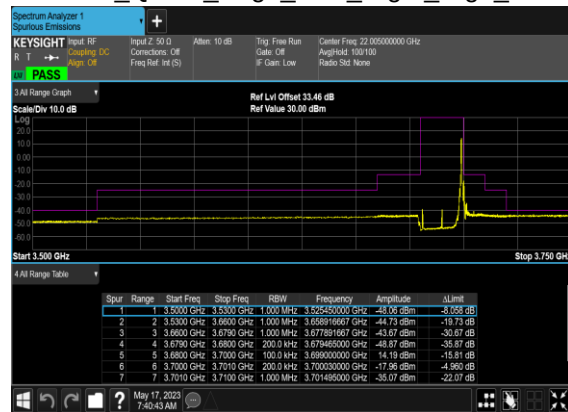
N48(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



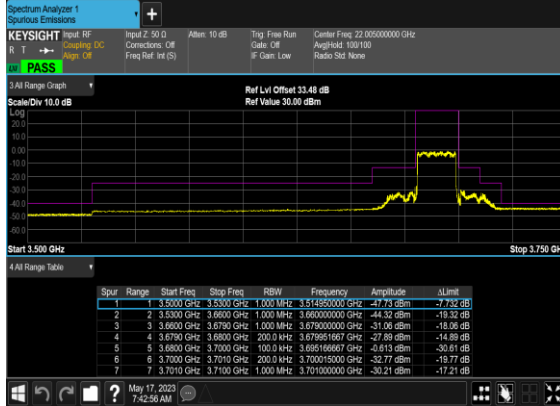
N48(20M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_High_CH



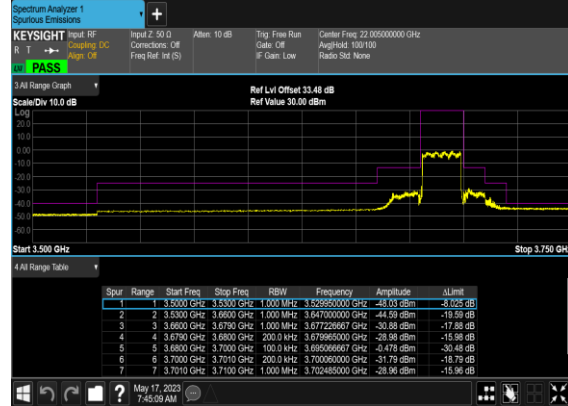
N48(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_High_CH



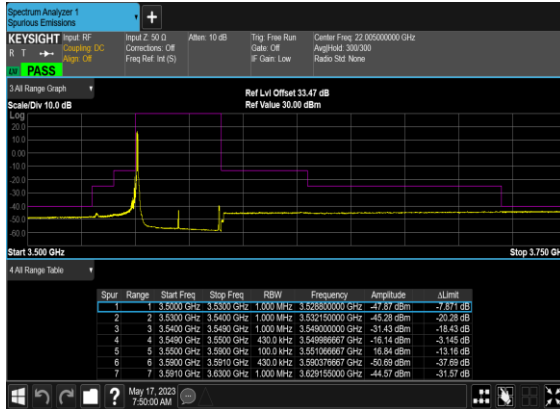
N48(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



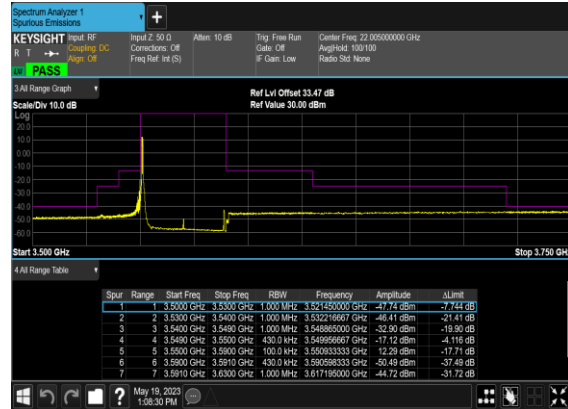
N48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



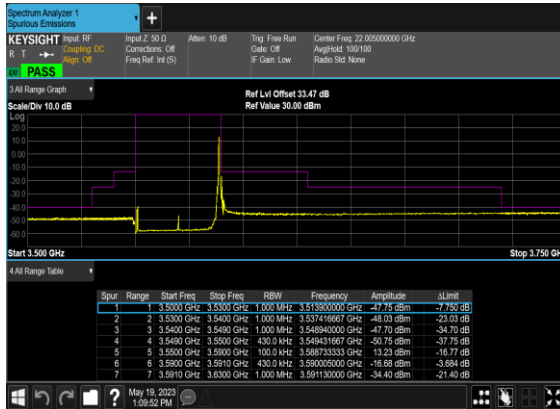
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



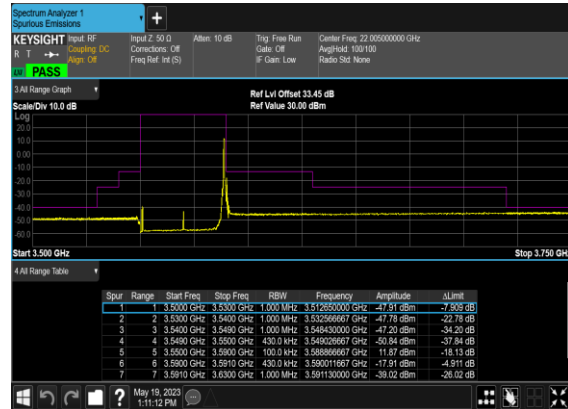
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



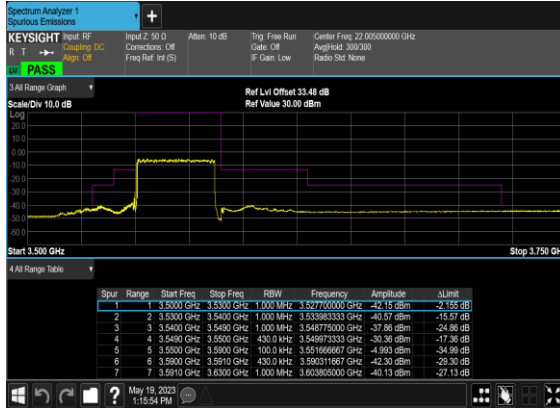
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Low_CH



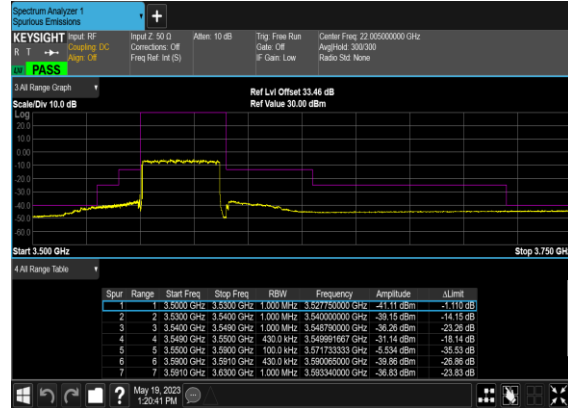
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Low_CH



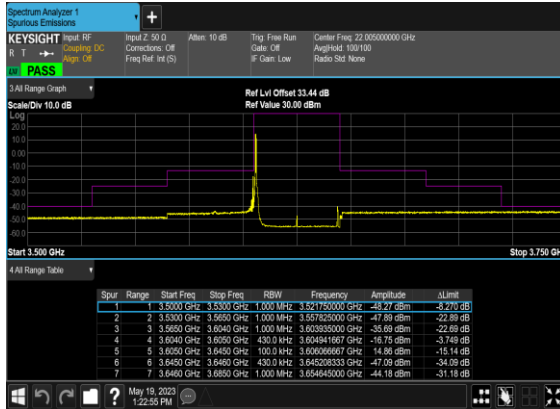
N48(40M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



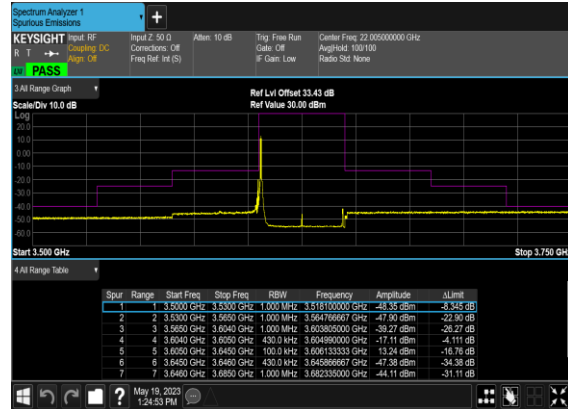
N48(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



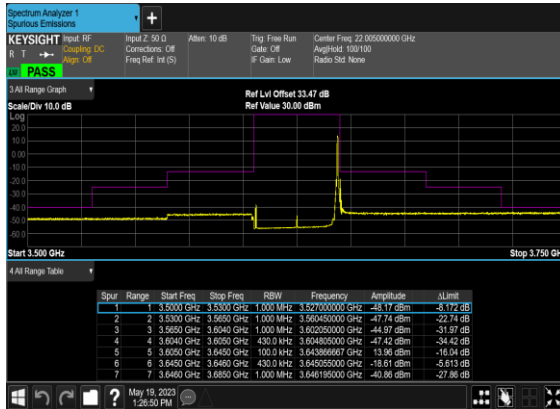
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



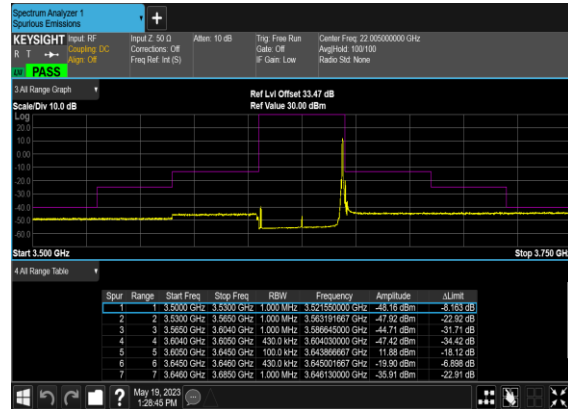
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



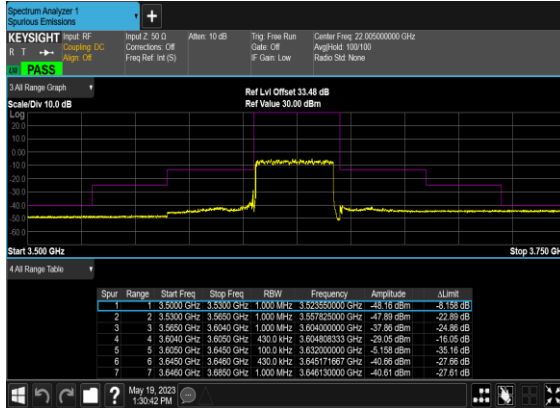
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH



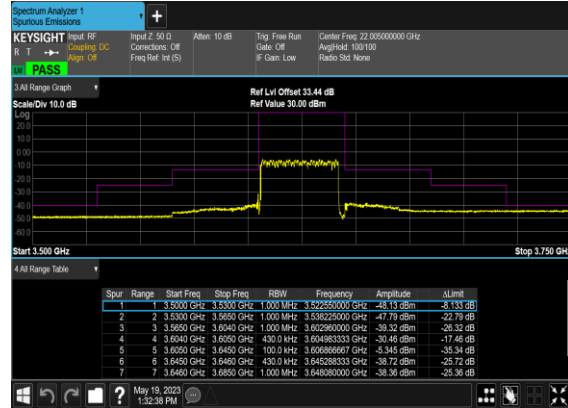
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



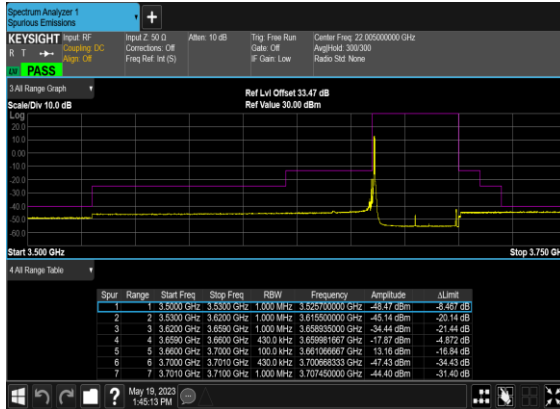
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



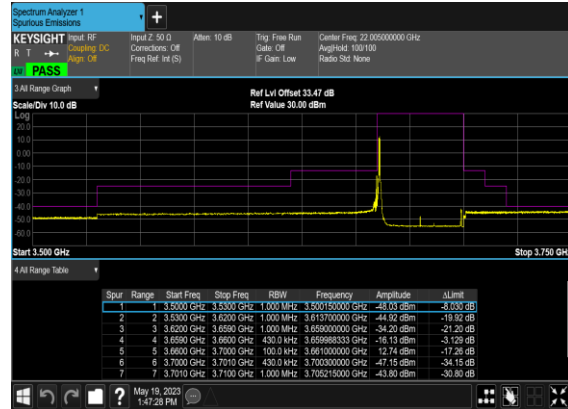
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



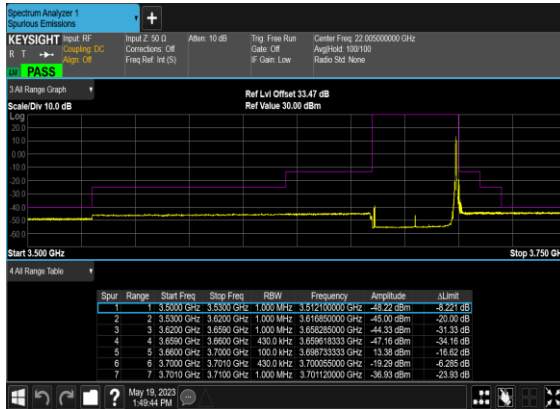
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



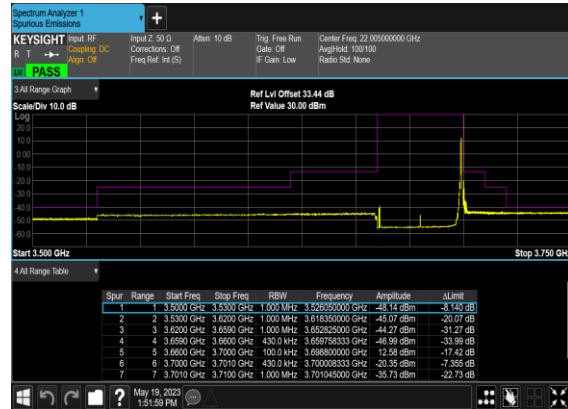
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



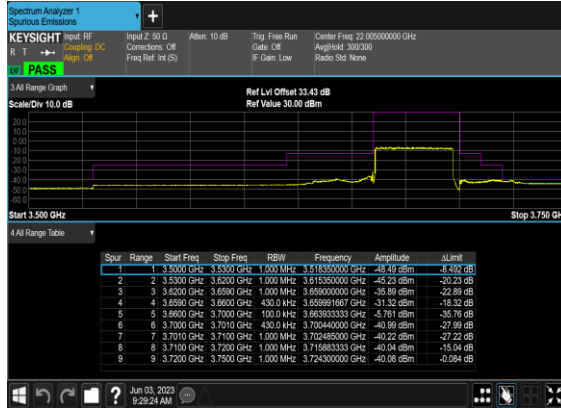
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



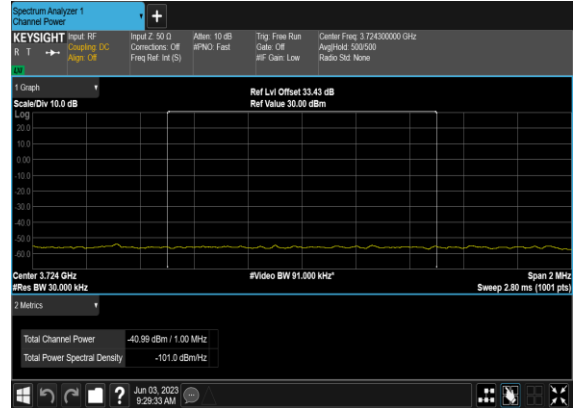
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



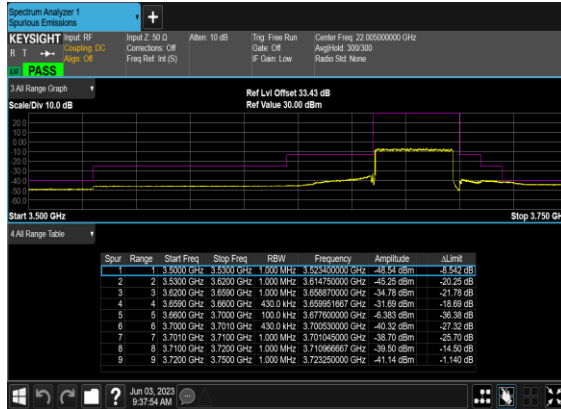
N48(40M)_DFT-s- OFDM_BPSK_Outer_Full_High_CH



N48(40M)_DFT-s- OFDM_BPSK_Outer_Full_High_CH_CHP_PASS



N48(40M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



FR1 N48 MIMO-ANT2

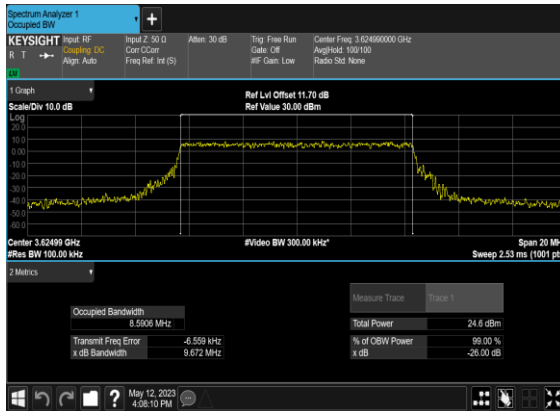
Frequency Stability

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	0.0061	PASS	NV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0066	PASS	LV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0054	PASS	HV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0042	PASS	-30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0038	PASS	-20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0031	PASS	-10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0069	PASS	0°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0062	PASS	10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0061	PASS	20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0034	PASS	30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0020	PASS	40°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0035	PASS	50°C

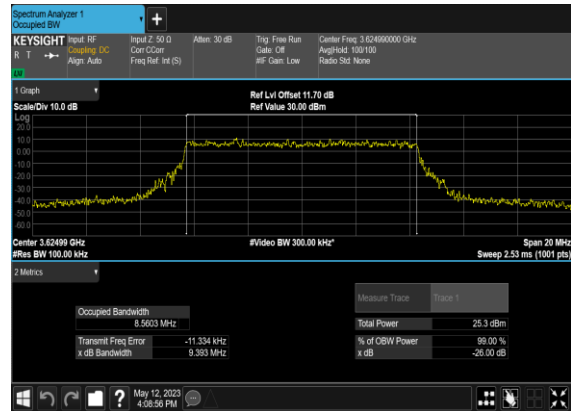
Occupied Bandwidth

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	8.5906	9.672
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5603	9.393
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5799	9.696
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5964	9.502
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.177	19.55
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.182	19.41
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.185	19.59
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.189	19.75
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.851	29.38
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.848	29.43
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.749	29.46
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.789	28.99
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.745	39.28
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.767	39.55
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.817	39.32
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.702	39.4

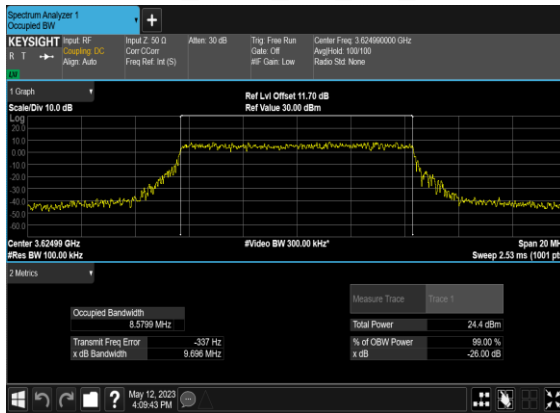
N48(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



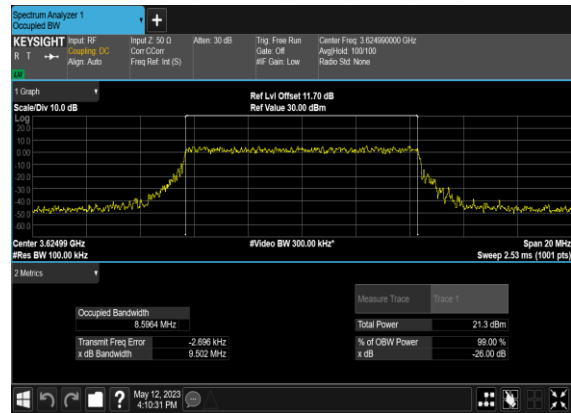
N48(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



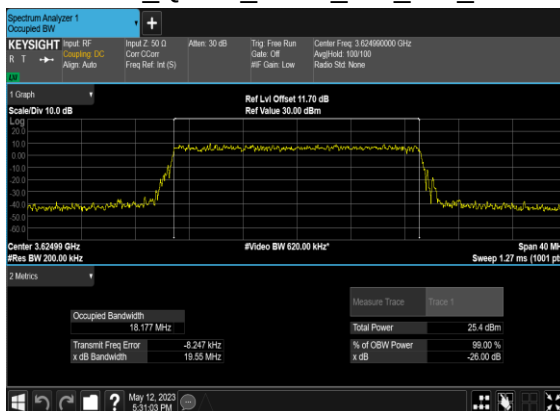
N48(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



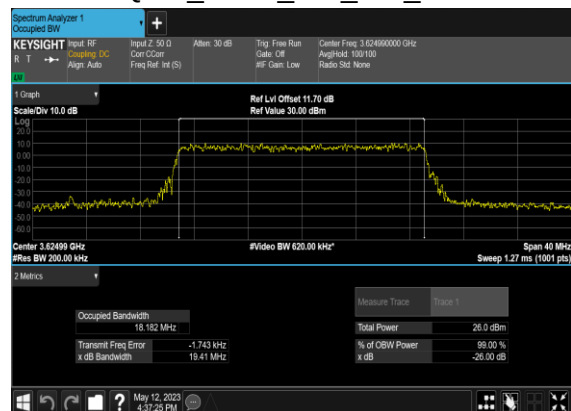
N48(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



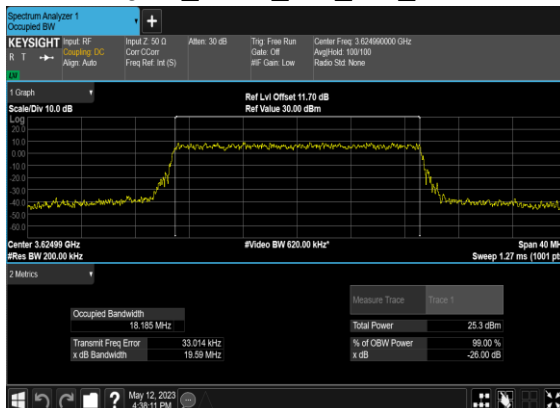
N48(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



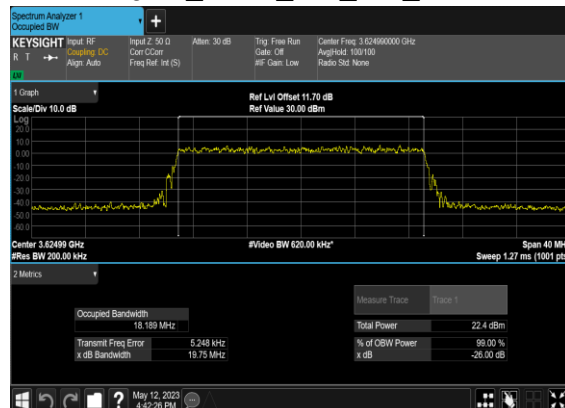
N48(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



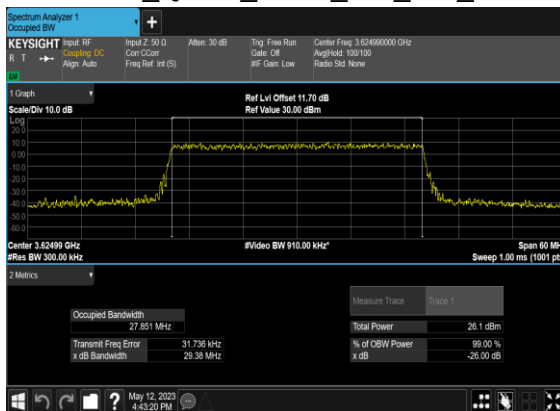
N48(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



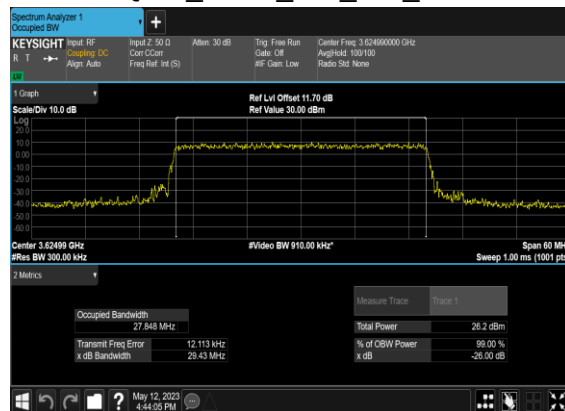
N48(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



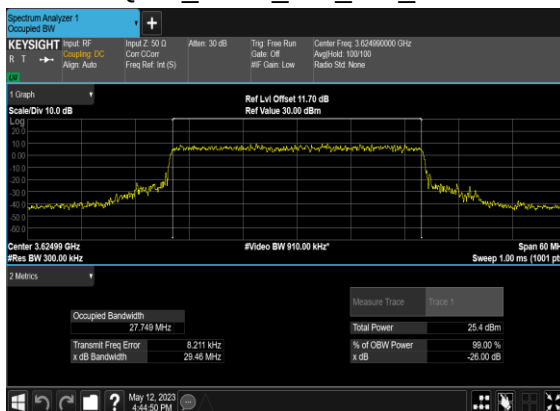
N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



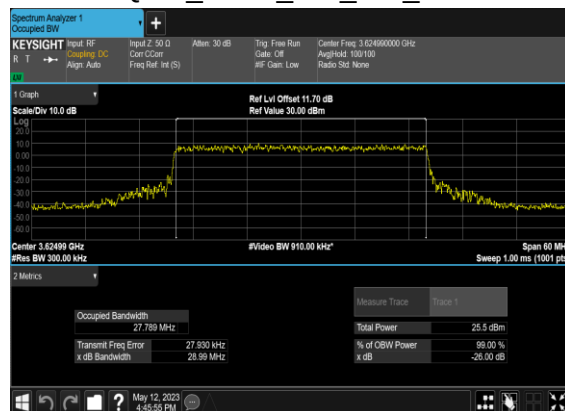
N48(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



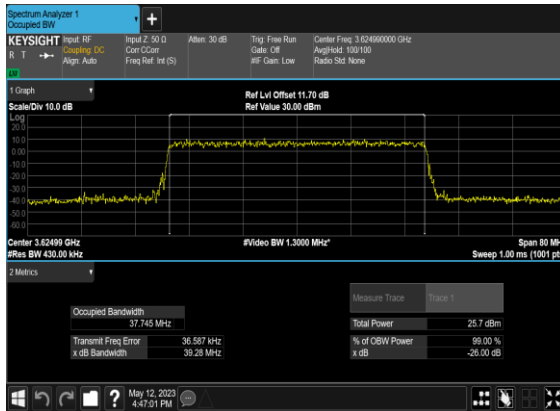
N48(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



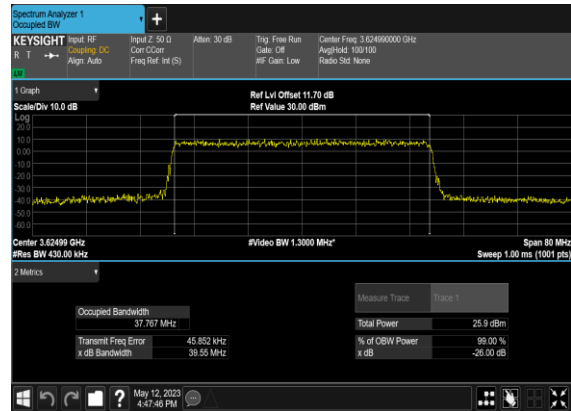
N48(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



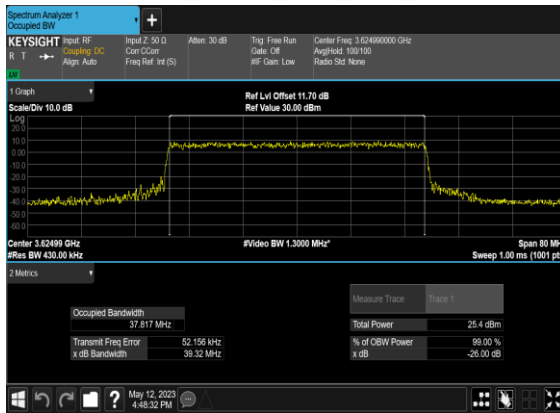
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



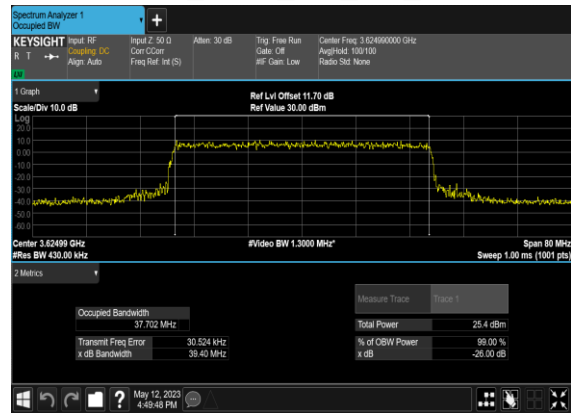
N48(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



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	10	637000	3555.0	CP-s-OFDM QPSK	24@0	-14.23	-14.38	see graph	PASS
48	30	10	637000	3555.0	CP-s-OFDM QPSK	1@0	-10.85	-21.76	see graph	PASS
48	30	10	637000	3555.0	CP-s-OFDM QPSK	1@23	-21.81	-12.78	see graph	PASS
48	30	10	641666	3624.99	CP-s-OFDM QPSK	24@0	-13.92	-15.08	see graph	PASS
48	30	10	641666	3624.99	CP-s-OFDM QPSK	1@0	-7.29	-16.32	see graph	PASS
48	30	10	641666	3624.99	CP-s-OFDM QPSK	1@23	-18.76	-11.38	see graph	PASS
48	30	10	646332	3694.98	CP-s-OFDM QPSK	24@0	-14.14	-14.76	see graph	PASS
48	30	10	646332	3694.98	CP-s-OFDM QPSK	1@0	-10.15	-18.41	see graph	PASS
48	30	10	646332	3694.98	CP-s-OFDM QPSK	1@23	-19.0	-12.67	see graph	PASS
48	30	20	637334	3560.01	CP-s-OFDM QPSK	51@0	-15.22	-15.73	see graph	PASS
48	30	20	637334	3560.01	CP-s-OFDM QPSK	1@0	-12.02	-19.25	see graph	PASS
48	30	20	637334	3560.01	CP-s-OFDM QPSK	1@50	-18.36	-12.73	see graph	PASS
48	30	20	641666	3624.99	CP-s-OFDM QPSK	51@0	-14.26	-14.37	see graph	PASS
48	30	20	641666	3624.99	CP-s-OFDM QPSK	1@0	-11.48	-16.91	see graph	PASS
48	30	20	641666	3624.99	CP-s-OFDM QPSK	1@50	-16.44	-12.1	see graph	PASS
48	30	20	646000	3690.0	CP-s-OFDM QPSK	51@0	-14.16	-14.14	see graph	PASS
48	30	20	646000	3690.0	CP-s-OFDM QPSK	1@0	-10.6	-16.2	see graph	PASS
48	30	20	646000	3690.0	CP-s-OFDM QPSK	1@50	-15.67	-11.61	see graph	PASS
48	30	40	638000	3570.0	CP-s-OFDM QPSK	106@0	-12.73	-12.26	see graph	PASS
48	30	40	638000	3570.0	CP-s-OFDM QPSK	1@0	-11.11	-13.57	see graph	PASS
48	30	40	638000	3570.0	CP-s-OFDM QPSK	1@105	-14.08	-11.79	see graph	PASS
48	30	40	641666	3624.99	CP-s-OFDM QPSK	106@0	-12.81	-12.38	see graph	PASS
48	30	40	641666	3624.99	CP-s-OFDM QPSK	1@0	-11.23	-12.75	see graph	PASS
48	30	40	641666	3624.99	CP-s-OFDM QPSK	1@105	-12.31	-10.11	see graph	PASS
48	30	40	645332	3679.98	CP-s-OFDM QPSK	106@0	-12.48	-11.84	see graph	PASS
48	30	40	645332	3679.98	CP-s-OFDM QPSK	1@0	-10.42	-12.34	see graph	PASS
48	30	40	645332	3679.98	CP-s-OFDM QPSK	1@105	-13.63	-11.46	see graph	PASS