

N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



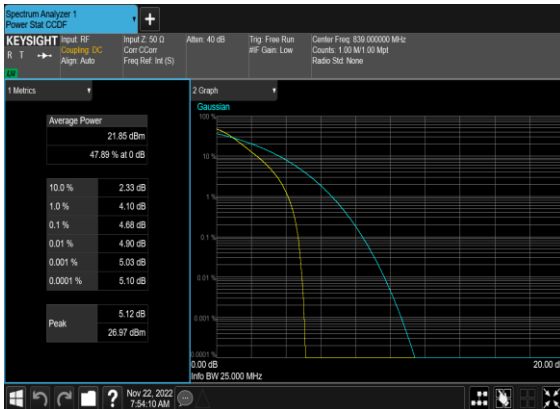
N5(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CH



N5(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_High_CH



N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



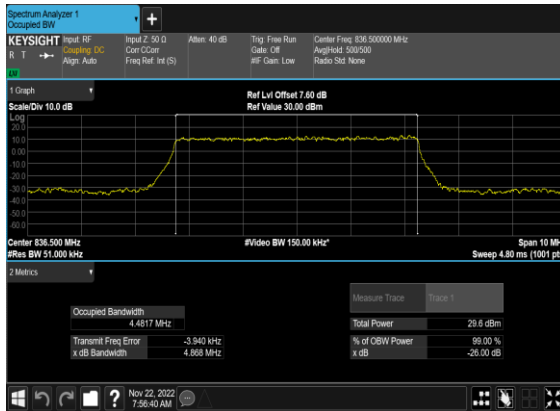
N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



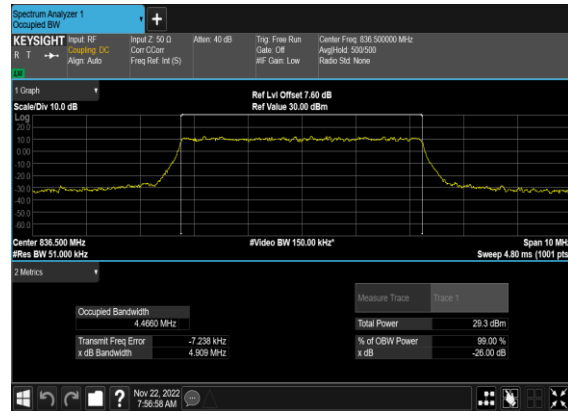
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
5	15	5	167300	836.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4817	4.868
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	4.466	4.909
5	15	5	167300	836.5	CP-OFDM QPSK	25@0	4.4649	4.88
5	15	5	167300	836.5	CP-OFDM 16 QAM	25@0	4.4916	4.954
5	15	5	167300	836.5	CP-OFDM 64 QAM	25@0	4.4584	4.884
5	15	5	167300	836.5	CP-OFDM 256 QAM	25@0	4.4747	4.9
5	15	10	167300	836.5	DFT-s-OFDM PI/2 BPSK	50@0	8.8969	9.454
5	15	10	167300	836.5	DFT-s-OFDM QPSK	50@0	8.9187	9.558
5	15	10	167300	836.5	CP-OFDM QPSK	52@0	9.2701	9.893
5	15	10	167300	836.5	CP-OFDM 16 QAM	52@0	9.2892	9.89
5	15	10	167300	836.5	CP-OFDM 64 QAM	52@0	9.2745	9.796
5	15	10	167300	836.5	CP-OFDM 256 QAM	52@0	9.2746	9.872
5	15	15	167300	836.5	DFT-s-OFDM PI/2 BPSK	75@0	13.387	14.12
5	15	15	167300	836.5	DFT-s-OFDM QPSK	75@0	13.423	14.22
5	15	15	167300	836.5	CP-OFDM QPSK	79@0	14.087	14.8
5	15	15	167300	836.5	CP-OFDM 16 QAM	79@0	14.095	14.82
5	15	15	167300	836.5	CP-OFDM 64 QAM	79@0	14.101	14.8
5	15	15	167300	836.5	CP-OFDM 256 QAM	79@0	14.081	14.83
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	17.897	18.67
5	15	20	167300	836.5	DFT-s-OFDM QPSK	100@0	17.841	18.73
5	15	20	167300	836.5	CP-OFDM QPSK	106@0	18.885	19.79
5	15	20	167300	836.5	CP-OFDM 16 QAM	106@0	18.914	19.81
5	15	20	167300	836.5	CP-OFDM 64 QAM	106@0	18.892	19.8
5	15	20	167300	836.5	CP-OFDM 256 QAM	106@0	18.914	19.68

N5(5M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



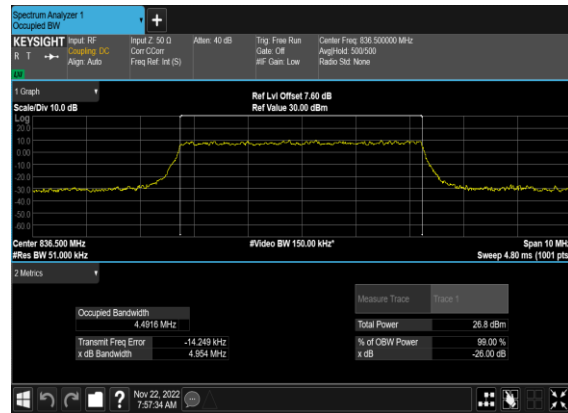
N5(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



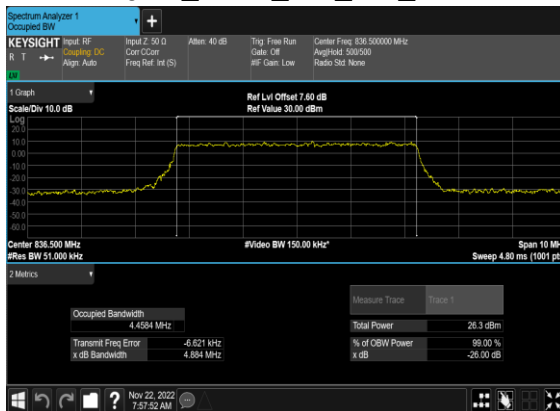
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OFDM_QPSK_Outer_Full_Mid_CH



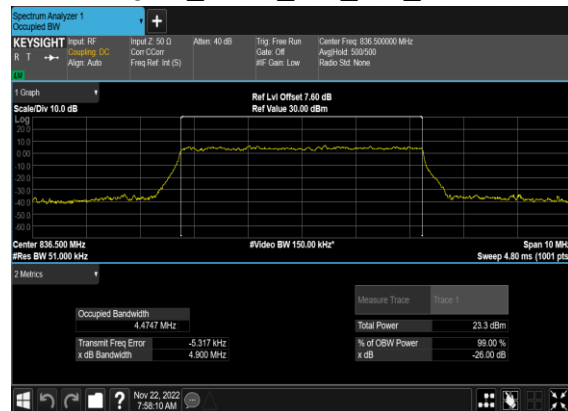
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QAM_Outer_Full_Mid_CH



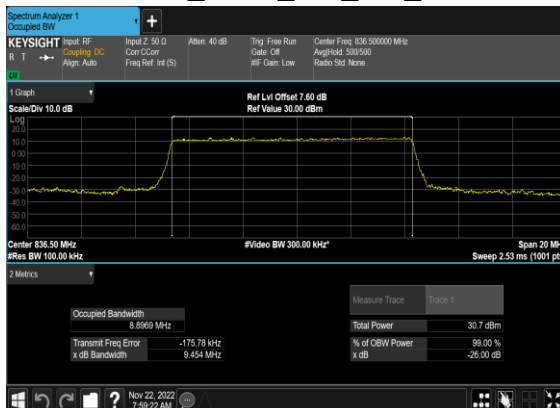
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QAM_Outer_Full_Mid_CH



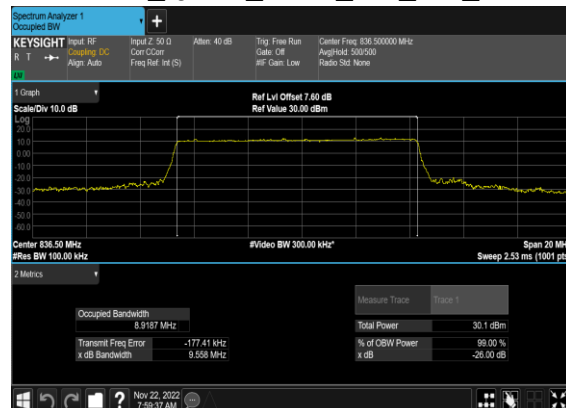
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QAM_Outer_Full_Mid_CH



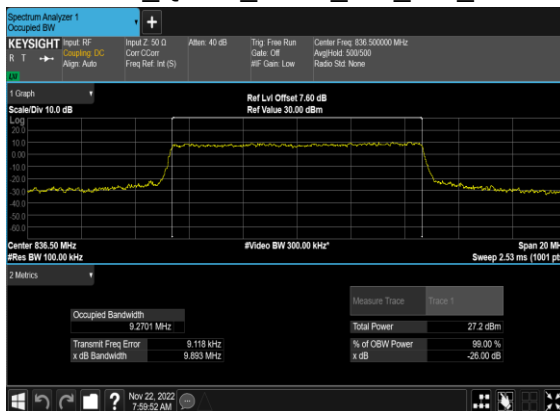
N5(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



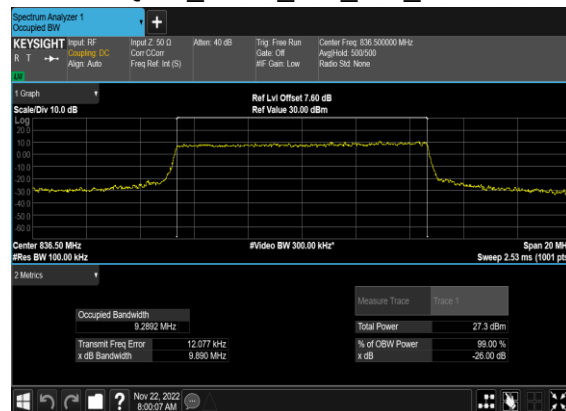
N5(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



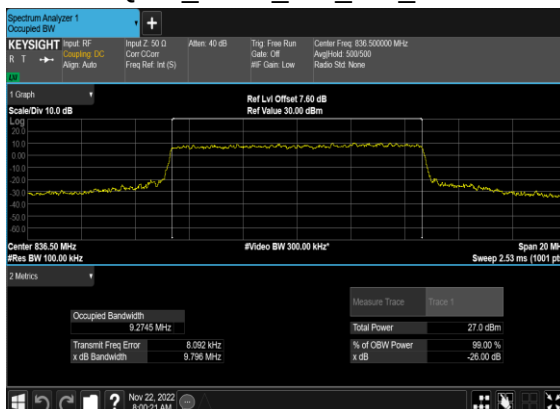
N5(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N5(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



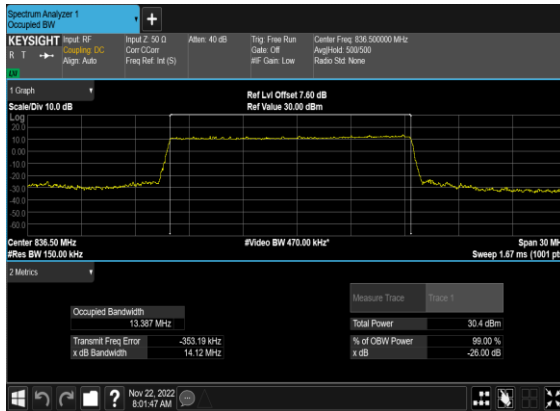
N5(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



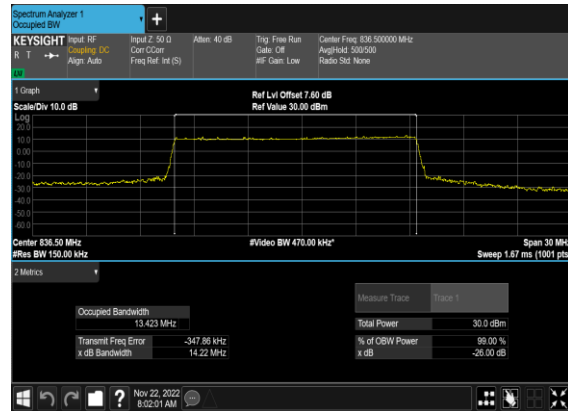
N5(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



N5(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



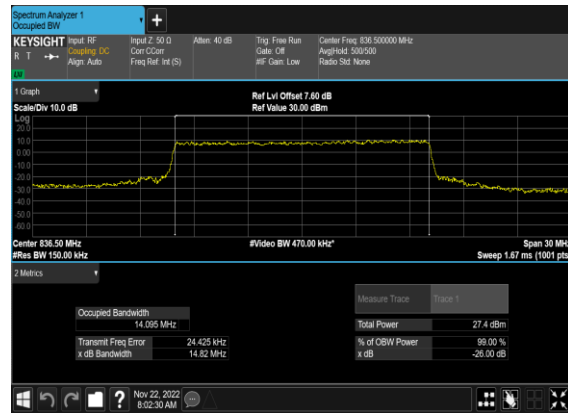
N5(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



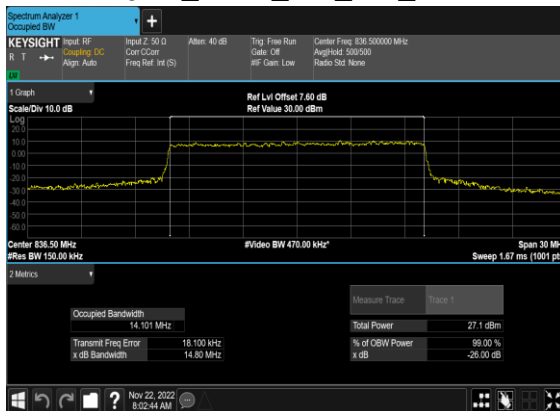
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OFDM_QPSK_Outer_Full_Mid_CH



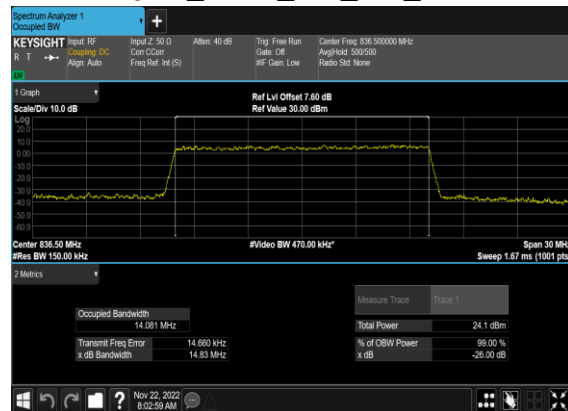
N5(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



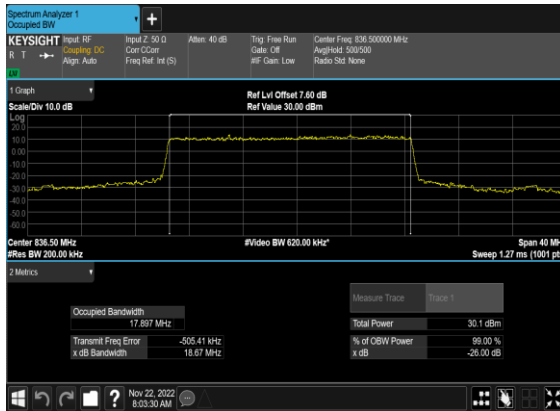
N5(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



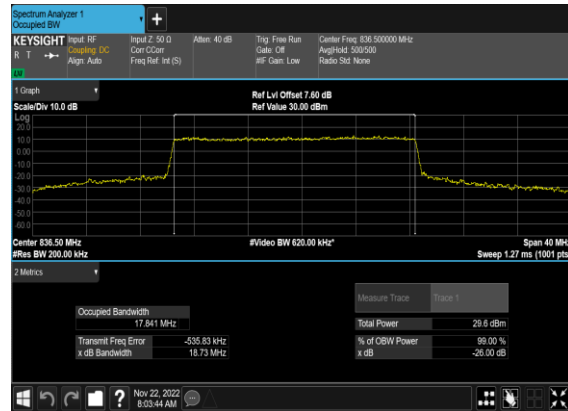
N5(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



N5(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



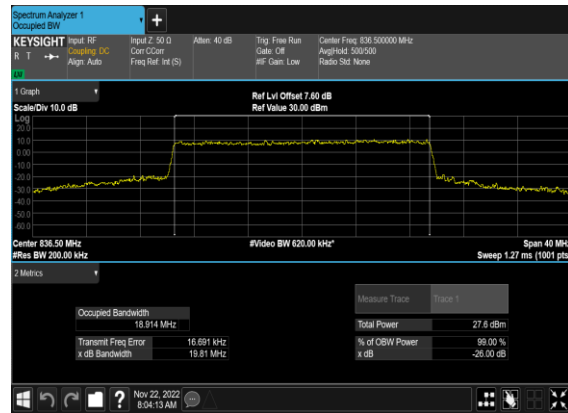
N5(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



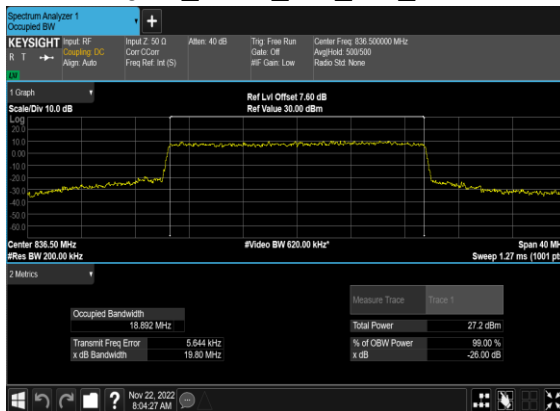
N5(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



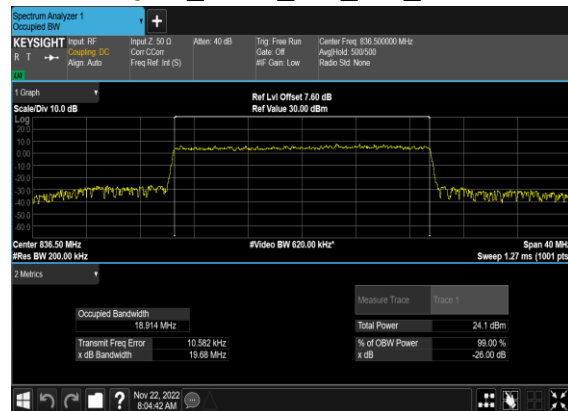
N5(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N5(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N5(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

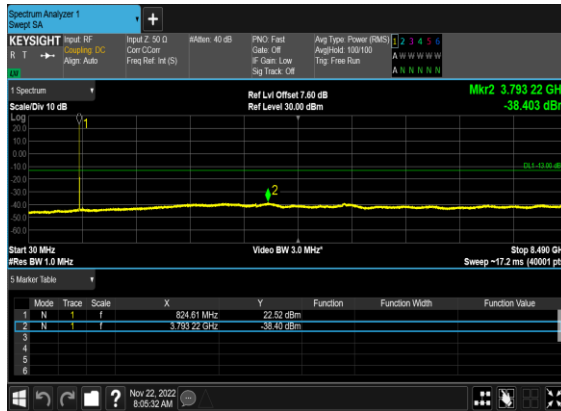


Conducted Spurious Emissions

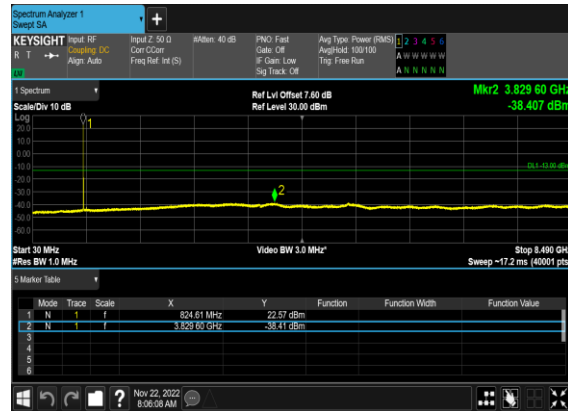
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
5	15	5	165300	826.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	165300	826.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	5	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	5	169300	846.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	169300	846.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	165800	829.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	165800	829.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	165800	829.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	10	165800	829.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	10	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	168800	844.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	168800	844.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

5	15	10	168800	844.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	10	168800	844.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	166800	834.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	166800	834.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	166800	834.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	166800	834.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	167800	839.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	167800	839.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	167800	839.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	167800	839.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

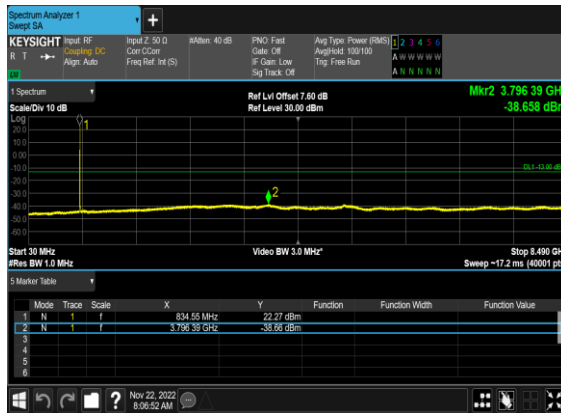
N5(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



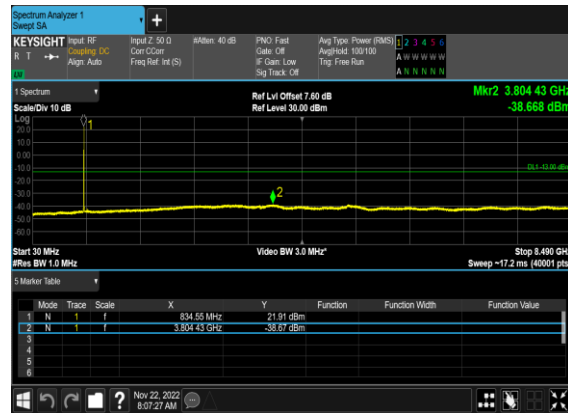
N5(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



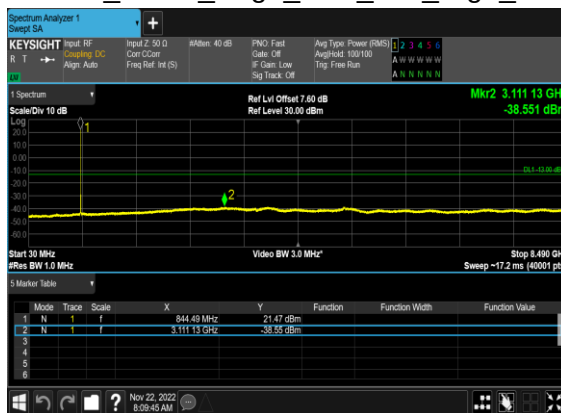
N5(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



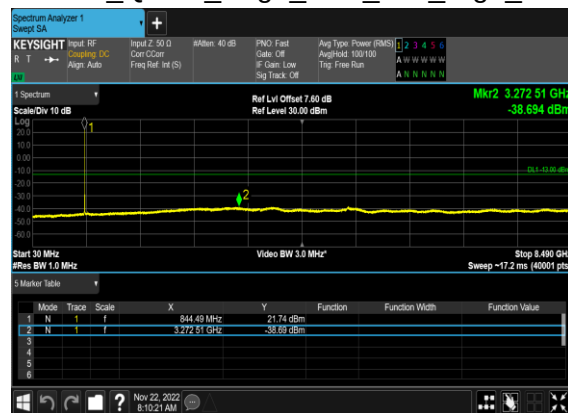
N5(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



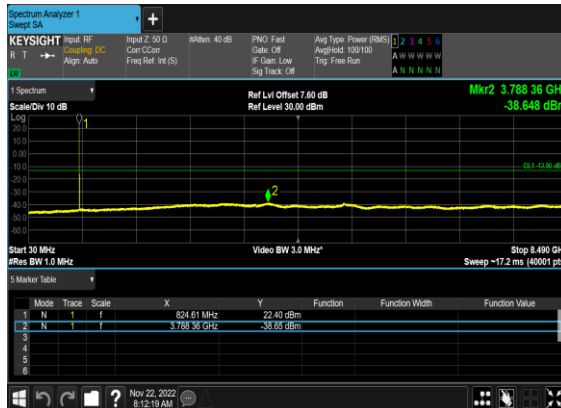
N5(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



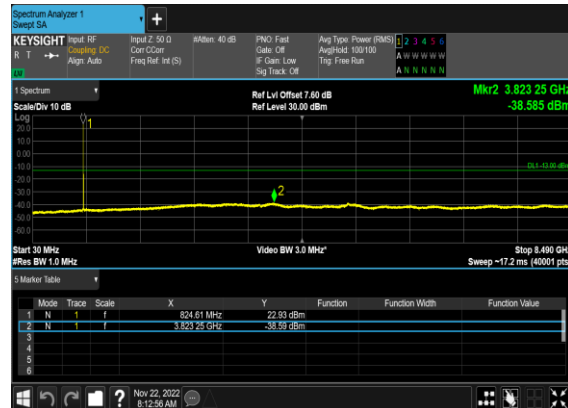
N5(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



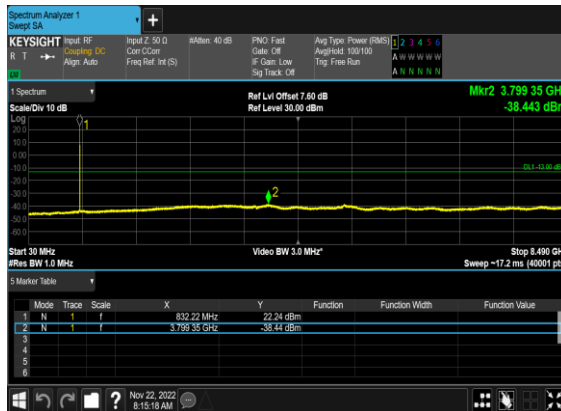
N5(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



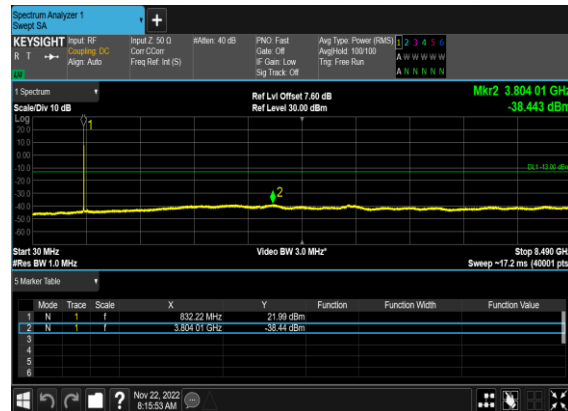
N5(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



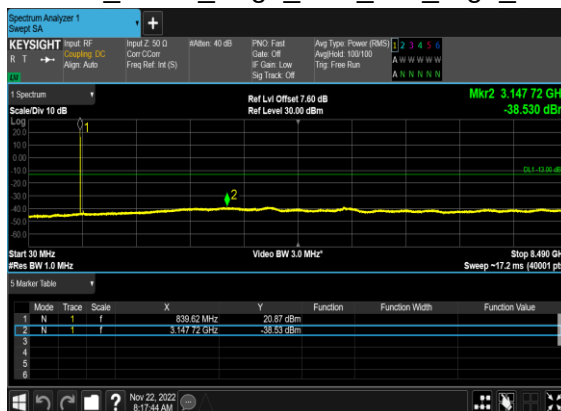
N5(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



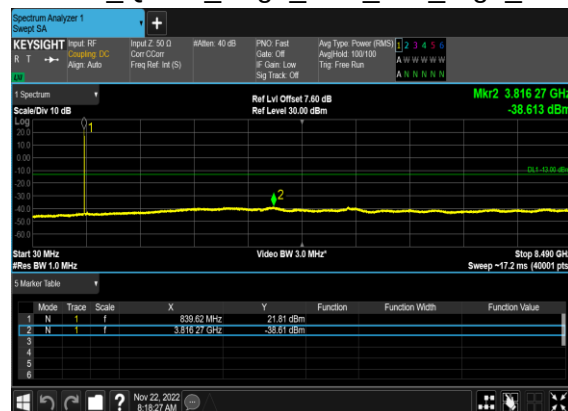
N5(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



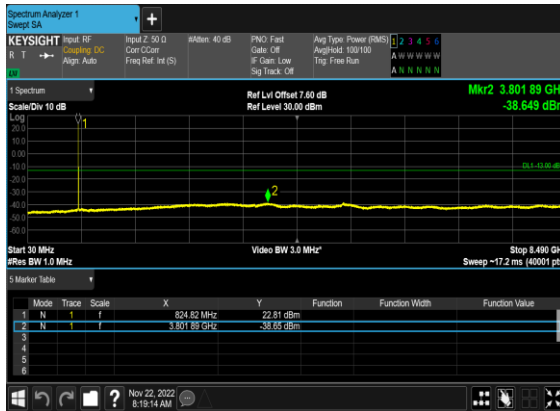
N5(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



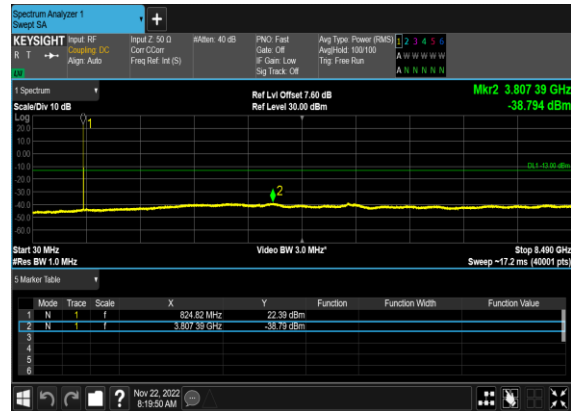
N5(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



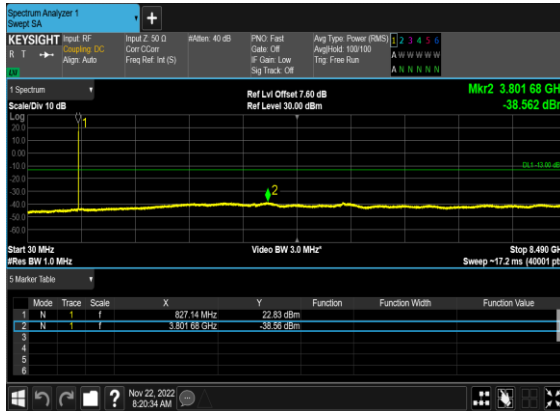
N5(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



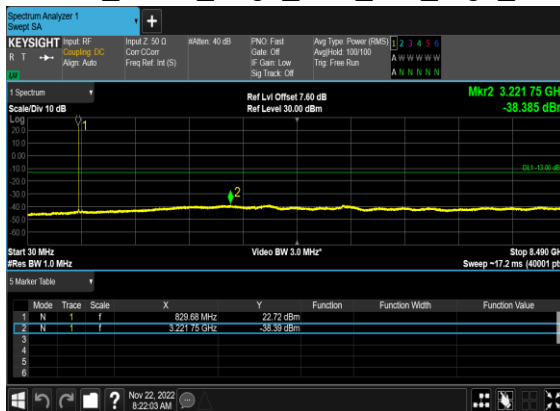
N5(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



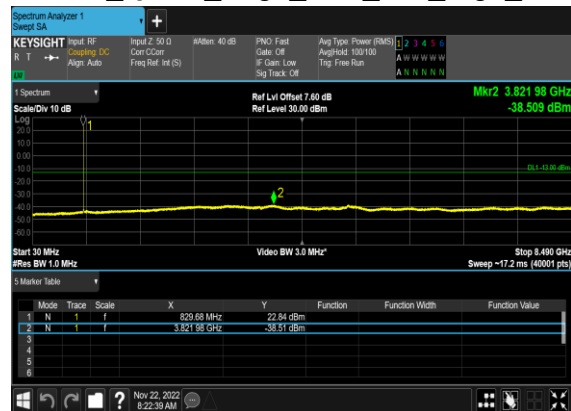
N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N5(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



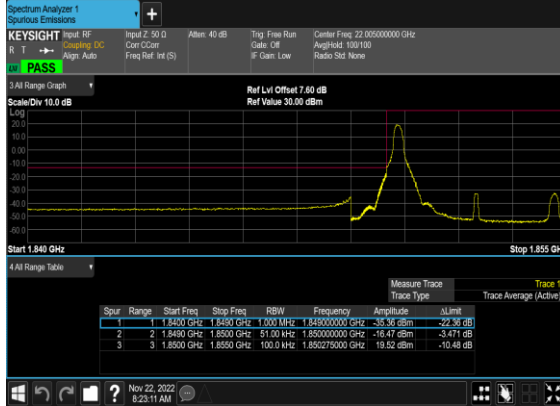
N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



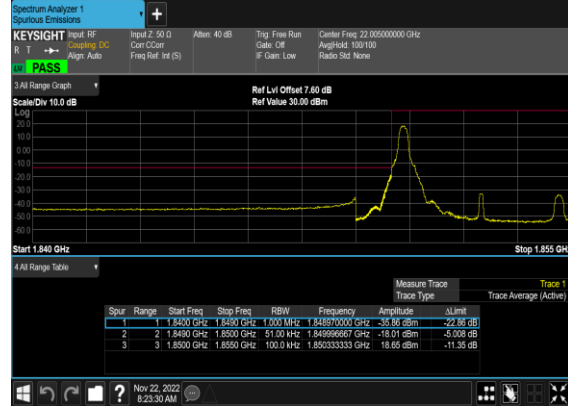
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	100@0	see graph	PASS

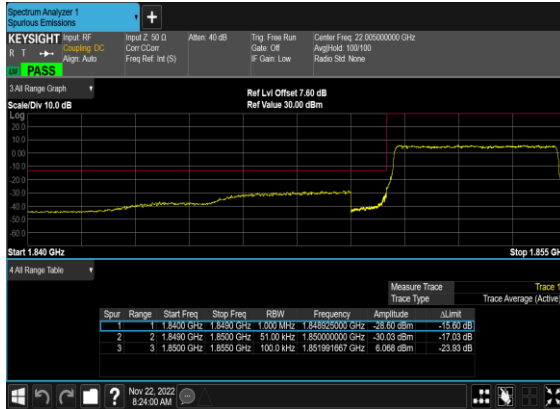
N2(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



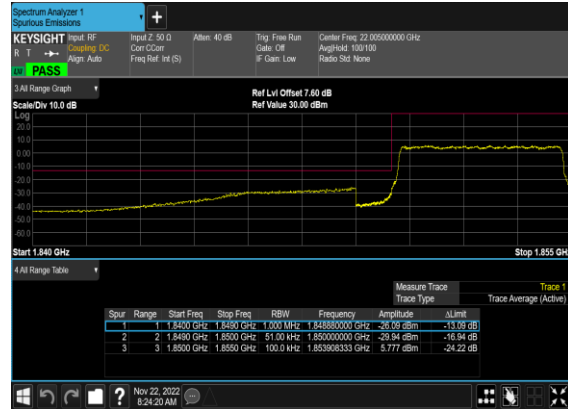
N2(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



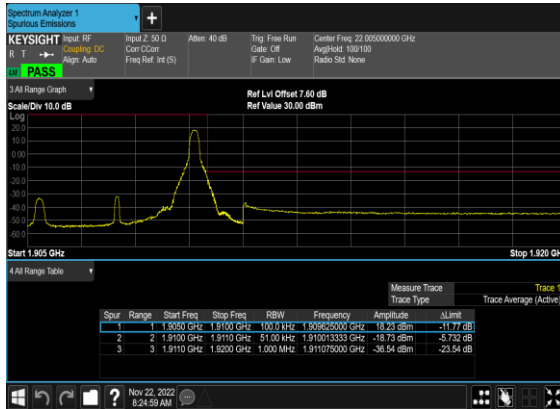
N2(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



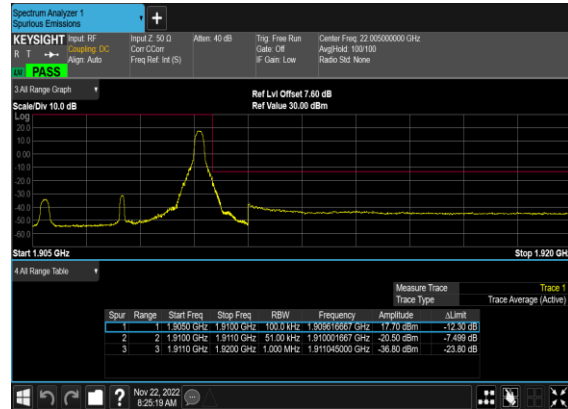
N2(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



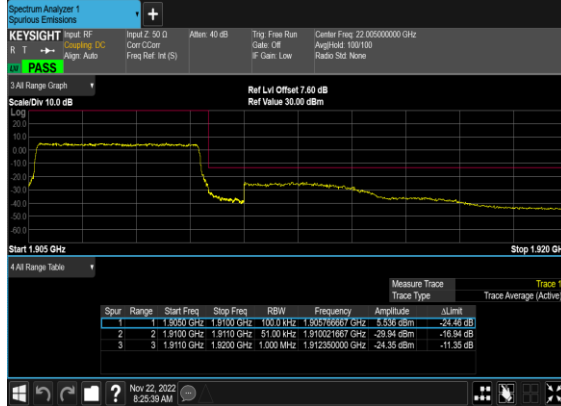
N2(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N2(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



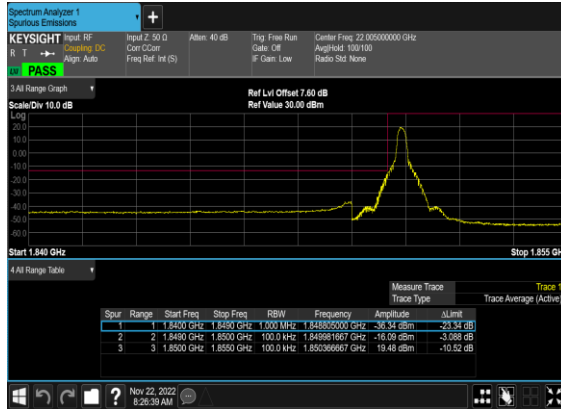
N2(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



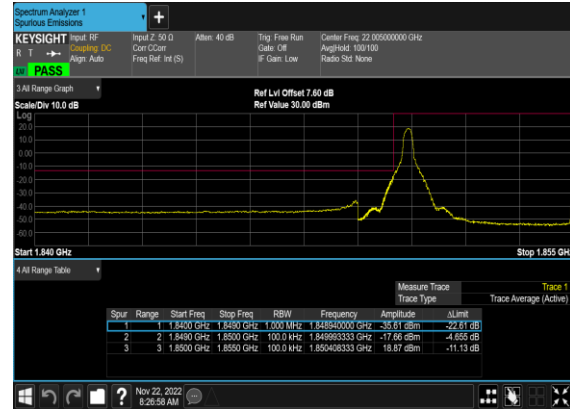
N2(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



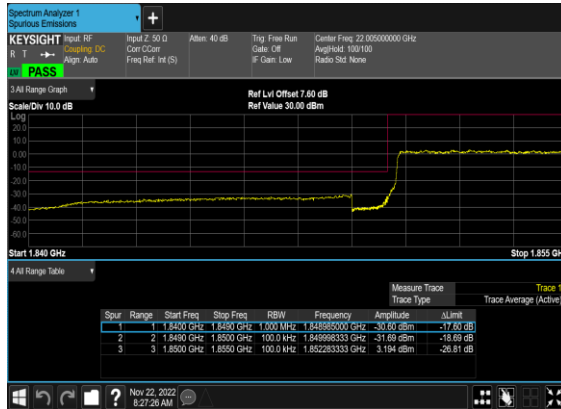
N2(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



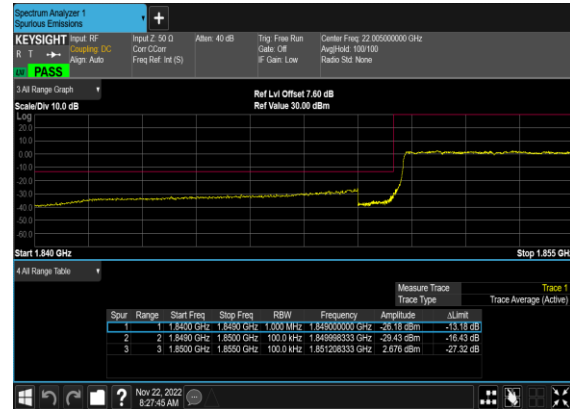
N2(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



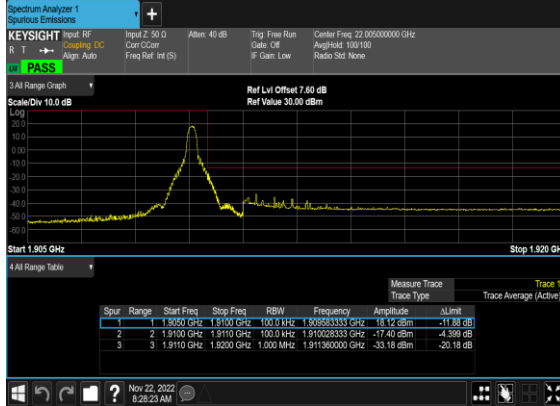
N2(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



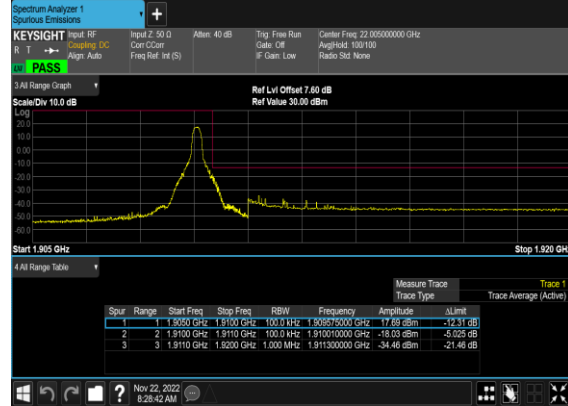
N2(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



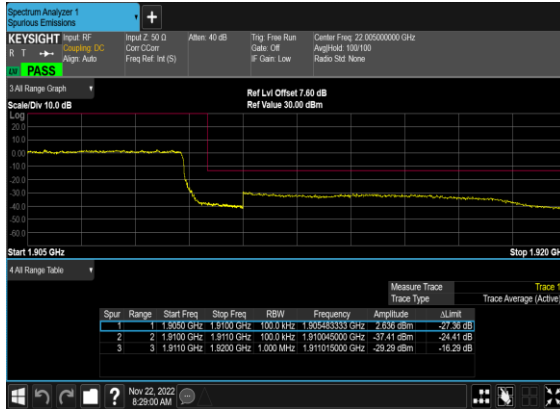
N2(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N2(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



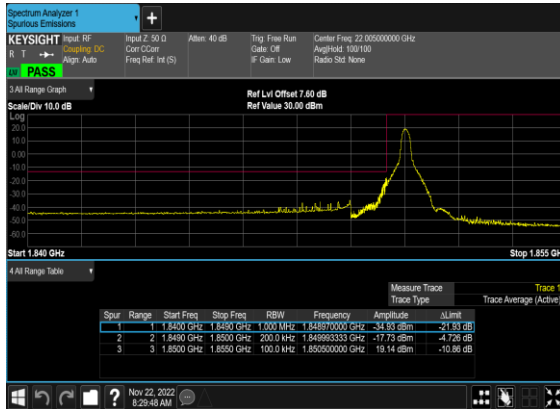
N2(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



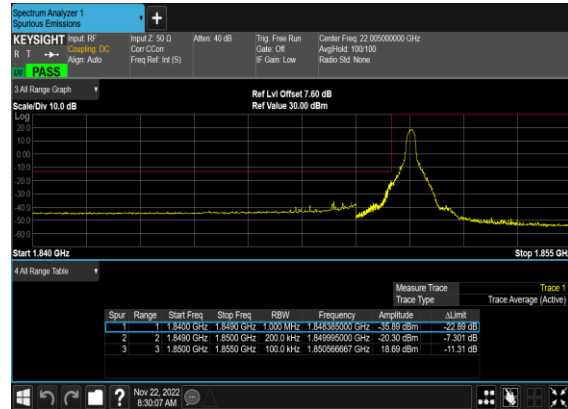
N2(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N2(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N2(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input RF
Resolving BW
Align Auto

R T →

Input Z: 50 Ω
Cort CCW
Freq Ref: Int (S)

Att: 40 dB

Trig: Free Run
Gate: Off
RF Gain: Low

Center Freq: 22.005600000 GHz
Amp: 44.100100
Ratio: Std None

OK PASS

3 All Range Graph

Scale/Div: 10.0 dB

Log

Ref Lvl Offset: 7.50 dB
Ref Value: 30.00 dBm

Start: 1.840 GHz

Stop: 1.855 GHz

4 All Range Table

Measure Trace
Trace Type

Trace Average (Active)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Level
1	1	1.84001 GHz	1.85000 GHz	1000 MHz	1.848900000 GHz	-31.64 dBm	-16.64 dB
2	2	1.8480 GHz	1.8500 GHz	200 MHz	1.849650000 GHz	-35.33 dBm	-22.33 dB
3	3	1.85000 GHz	1.85500 GHz	100.0 MHz	1.851708333 GHz	0.175 dBm	-29.83 dB

Nov 22, 2022
8:30:35 AM

[illegible]

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input Ref: R T →
Coupling: DC
Align: Auto

Input Z: 50 Ω
Att: 40 dB
Port Corr: Off
Freq Ref: Int (S)

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 22.00000000 GHz
AmpHzd: 100/100
Radio Std: None

PASS

3.6k Range Graph

Scale/Div: 10.0 dB
Log

Ref Lvl Offset: 7.60 dB
Ref Value: 30.00 dBm

Start: 1.905 GHz
Stop: 1.920 GHz

3.6k Range Table

Spur	Range	Start Freq	Stop Freq	PBW	Frequency	Amplitude	Offset
1	1	1.9050 GHz	1.9100 GHz	100.0 kHz	1.905200000 GHz	-18.95 dBm	-11.55 dB
2	2	1.9100 GHz	1.9110 GHz	200.0 kHz	1.91001667 GHz	-17.09 dBm	-4.986 dB
3	3	1.9110 GHz	1.9200 GHz	1.000 MHz	1.912320000 GHz	-34.47 dBm	-21.47 dB

Measure Trace
Trace Type
Trace Average (Active)

Nov 22, 2022
8:31:33 AM

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input RF
R T $\rightarrow$ **Calibrating DC**
Align: Auto

Input Z: 50 Ω
Cov C: Cst
Freq Ref: 1st (S)

Attain: 40 dB

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 22.00000000 GHz
Averaged: 100/100
Radio Std: None

Log PASS

3 All Range Graph

Scale Div: 10.0 dB

Ref List Offset: 7.60 dB
Ref Value: 30.00 dBm

Start: 1.905 GHz

Stop: 1.920 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Unit
1	1	1.9050 GHz	1.9101 GHz	100.0 kHz	1.90500000 GHz	-17.50 dBm	-17.14 dB
2	2	1.9101 GHz	1.9110 GHz	200.0 kHz	1.91015000 GHz	-21.81 dBm	-8.813 dB
3	3	1.9110 GHz	1.9200 GHz	1.000 MHz	1.911135000 GHz	-36.80 dBm	-23.80 dB

Measure Trace
Trace Type
Trace Average (Active)

Nov 22, 2022
8:31:52 AM

Keysight Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input RF
R T $\leftrightarrow$ Creating DC
Align Auto

Input Z: 50 Ω
Att: 40 dB
Corr CC: Off
Freq Ref: Int (S)

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 22.000000000 GHz
ArgHd: 100/100
Radio Std: None

3.84 Range Graph
Scale/Div: 10.0 dB
Log

Ref Lvl Offset: 7.60 dB
Ref Value: 30.39 dBm

Start 1.905 GHz
4 All Range Table

Measure Trace
Trace Type: Trace Average (Active)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	1.9050 GHz	1.9100 GHz	100.0 kHz	1.907190000 GHz	-30.39 dBm	-30.32 dB
2	2	1.9100 GHz	1.9110 GHz	100.0 kHz	1.910133333 GHz	-37.37 dBm	-40.37 dB
3	3	1.9110 GHz	1.9200 GHz	1.000 MHz	1.911525000 GHz	-32.00 dBm	-19.00 dB

Nov 22, 2022
8:32:11 AM

The screenshot shows a Keysight Spectrum Analyzer interface. The top panel displays the signal source as 'Spurious Emissions' and the measurement mode as 'Pass'. The center panel shows a frequency plot with a yellow trace that has a sharp drop at approximately 1.910 GHz. The bottom panel displays a table of measured traces.

Keysight Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input: RF
 R 1 → Coupling: DC
 A1: Auto
 Input 2: 50.0
 Core: C-Flat
 Freq Ref: 1st (S)
 Att: 40 dB
 Trig: Free Run
 Gate: Off
 IF: Gain: Low
 Center Freq: 22.000000000 GHz
 Arg/Hd: 100.100
 Radio Std: None

3.68 Range Graph
 Scale/Div: 10.0 dB
 Ref Lvl Offset: 7.60 dB
 Ref Value: 39.09 dBm

Start 1.905 GHz
Stop 1.920 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLvl
1	1.9050 GHz	1.9100 GHz	1.9100 GHz	100.71 Hz	1.90558333 GHz	-1.09 dBm	-24.106 dB
2	1.9100 GHz	1.9110 GHz	200.0 MHz	1.911018333 GHz	-34.13 dBm	-21.13 dB	
3	1.9110 GHz	1.9200 GHz	1.000 MHz	1.911015000 GHz	-28.17 dBm	-15.17 dB	

FR1 N12

Transmitter Conducted Output Power And ERP, ($G_T - L_C$)=-0.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@1	23.62	20.97	0.1250
12	15	5	140300	701.5	DFT-s-OFDM 16 QAM	1@1	22.64	19.99	0.0998
12	15	5	141500	707.5	DFT-s-OFDM QPSK	1@1	23.45	20.8	0.1202
12	15	5	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.54	19.89	0.0975
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@1	23.11	20.46	0.1112
12	15	5	142700	713.5	DFT-s-OFDM 16 QAM	1@1	22.23	19.58	0.0908
12	15	10	140800	704.0	DFT-s-OFDM QPSK	1@1	23.7	21.05	0.1274
12	15	10	140800	704.0	DFT-s-OFDM 16 QAM	1@1	22.74	20.09	0.1021
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@1	23.7	21.05	0.1274
12	15	10	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.62	19.97	0.0993
12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@1	23.5	20.85	0.1216
12	15	10	142200	711.0	DFT-s-OFDM 16 QAM	1@1	22.51	19.86	0.0968
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	36@18	23.4	20.75	0.1189
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	1@1	23.55	20.9	0.1230
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	1@77	23.01	20.36	0.1086
12	15	15	141300	706.5	DFT-s-OFDM QPSK	36@18	23.31	20.66	0.1164
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@1	23.59	20.94	0.1242
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@77	23.07	20.42	0.1102
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	36@18	22.32	19.67	0.0927
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	1@1	22.62	19.97	0.0993
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	1@77	22.09	19.44	0.0879
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	36@18	20.87	18.22	0.0664

12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	1@1	21.29	18.64	0.0731
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	1@77	20.66	18.01	0.0632
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	36@18	18.73	16.08	0.0406
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	1@1	18.81	16.16	0.0413
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	1@77	18.36	15.71	0.0372
12	15	15	141300	706.5	CP-OFDM QPSK	39@19	21.83	19.18	0.0828
12	15	15	141300	706.5	CP-OFDM QPSK	1@1	22.23	19.58	0.0908
12	15	15	141300	706.5	CP-OFDM QPSK	1@77	21.57	18.92	0.0780
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	36@18	23.33	20.68	0.1169
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.49	20.84	0.1213
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@77	22.96	20.31	0.1074
12	15	15	141500	707.5	DFT-s-OFDM QPSK	36@18	23.31	20.66	0.1164
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@1	23.53	20.88	0.1225
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@77	23	20.35	0.1084
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	36@18	22.32	19.67	0.0927
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.59	19.94	0.0986
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	1@77	22.07	19.42	0.0875
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	36@18	20.87	18.22	0.0664
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	1@1	21.19	18.54	0.0714
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	1@77	20.61	17.96	0.0625
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	36@18	18.51	15.86	0.0385
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	1@1	18.77	16.12	0.0409
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	1@77	18.31	15.66	0.0368
12	15	15	141500	707.5	CP-OFDM QPSK	39@19	21.79	19.14	0.0820
12	15	15	141500	707.5	CP-OFDM QPSK	1@1	22.1	19.45	0.0881
12	15	15	141500	707.5	CP-OFDM QPSK	1@77	21.37	18.72	0.0745
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	36@18	23.27	20.62	0.1153

12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	1@1	23.39	20.74	0.1186
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	1@77	22.88	20.23	0.1054
12	15	15	141700	708.5	DFT-s-OFDM QPSK	36@18	23.24	20.59	0.1146
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@1	23.72	21.07	0.1279
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@77	23.08	20.43	0.1104
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	36@18	22.27	19.62	0.0916
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	1@1	22.55	19.9	0.0977
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	1@77	22.08	19.43	0.0877
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	36@18	20.82	18.17	0.0656
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	1@1	21.16	18.51	0.0710
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	1@77	20.63	17.98	0.0628
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	36@18	18.59	15.94	0.0393
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	1@1	18.78	16.13	0.0410
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	1@77	18.26	15.61	0.0364
12	15	15	141700	708.5	CP-OFDM QPSK	39@19	21.74	19.09	0.0811
12	15	15	141700	708.5	CP-OFDM QPSK	1@1	22.07	19.42	0.0875
12	15	15	141700	708.5	CP-OFDM QPSK	1@77	21.36	18.71	0.0743

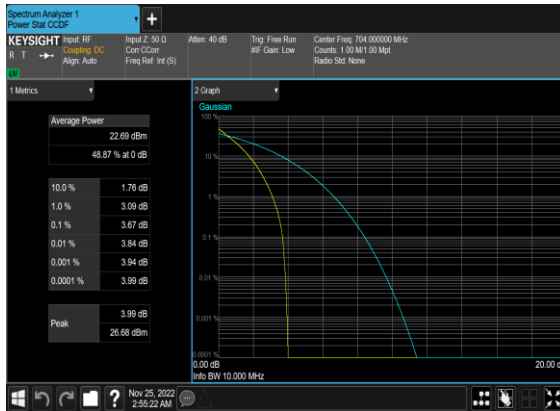
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0000	PASS	NV
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0038	PASS	LV
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0014	PASS	HV
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0031	PASS	-30°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0017	PASS	-20°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0025	PASS	-10°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0014	PASS	0°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0000	PASS	10°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0000	PASS	20°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0041	PASS	30°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0007	PASS	40°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	0.0018	PASS	50°C

Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	15	10	140800	704.0	DFT-s-OFDM PI/2 BPSK	50@0	3.67	13	PASS
12	15	10	140800	704.0	DFT-s-OFDM PI/2 BPSK	1@0	4.5	13	PASS
12	15	10	140800	704.0	DFT-s-OFDM QPSK	50@0	4.4	13	PASS
12	15	10	140800	704.0	DFT-s-OFDM QPSK	1@0	4.49	13	PASS
12	15	10	141500	707.5	DFT-s-OFDM PI/2 BPSK	50@0	4.29	13	PASS
12	15	10	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@0	4.02	13	PASS
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	5.29	13	PASS
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@0	4.3	13	PASS
12	15	10	142200	711.0	DFT-s-OFDM PI/2 BPSK	50@0	4.49	13	PASS
12	15	10	142200	711.0	DFT-s-OFDM PI/2 BPSK	1@0	3.74	13	PASS
12	15	10	142200	711.0	DFT-s-OFDM QPSK	50@0	5.24	13	PASS
12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@0	4.21	13	PASS

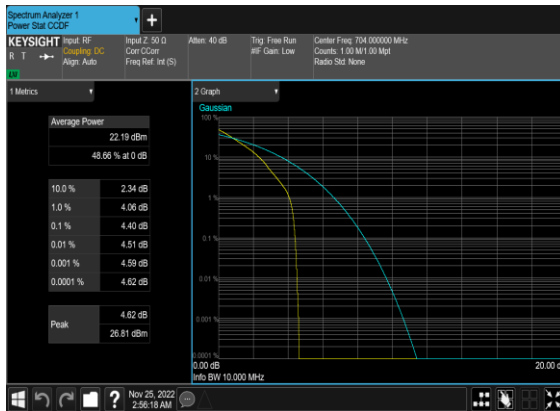
N12(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



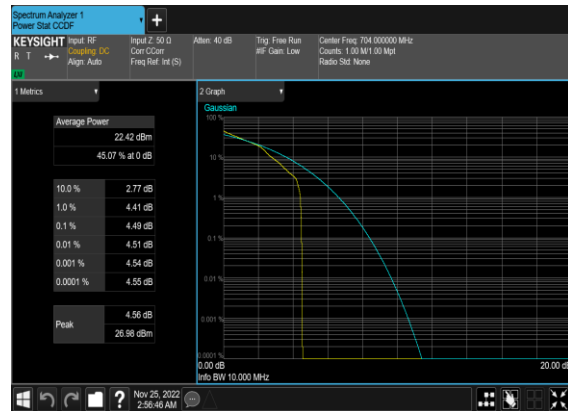
N12(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Low_CH



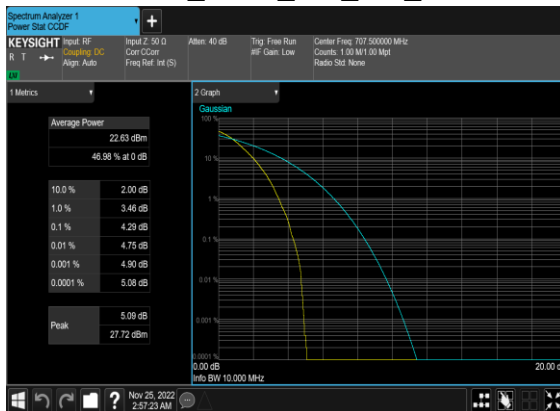
N12(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



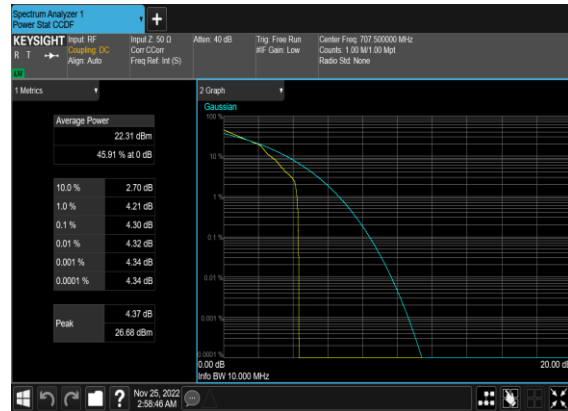
N12(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



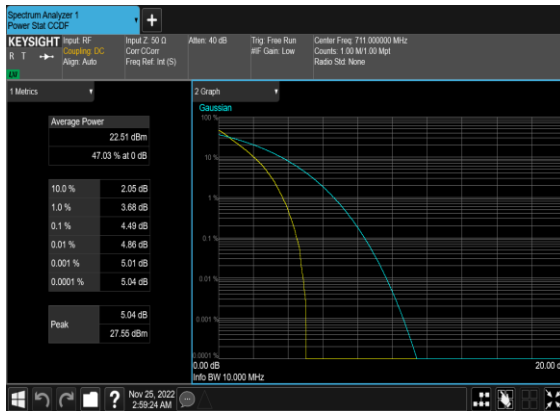
N12(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



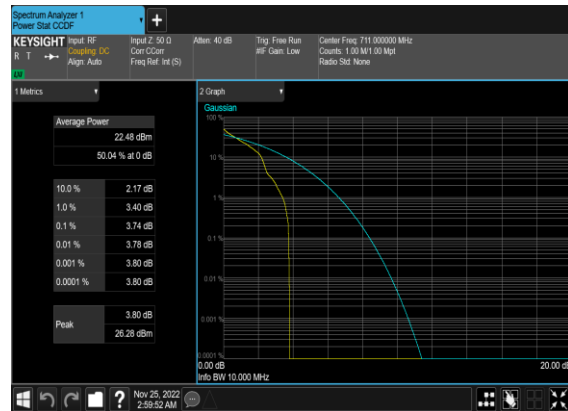
N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N12(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CH



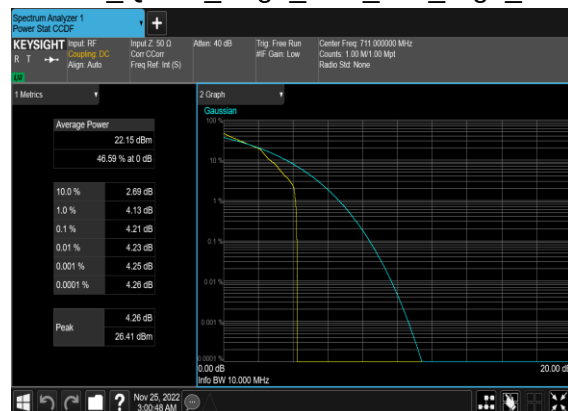
N12(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_High_CH



N12(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



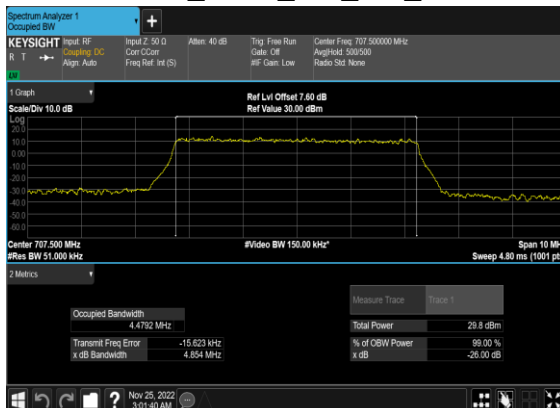
N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



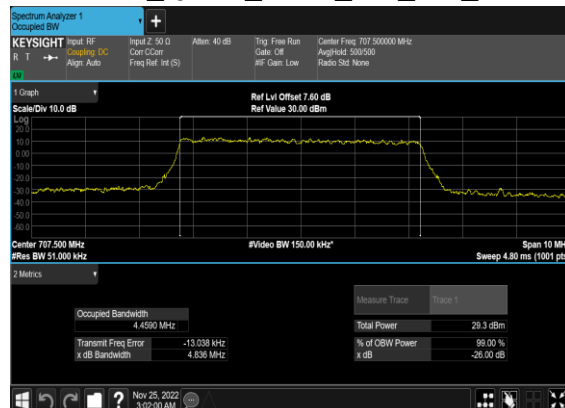
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
12	15	5	141500	707.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4792	4.854
12	15	5	141500	707.5	DFT-s-OFDM QPSK	25@0	4.459	4.836
12	15	5	141500	707.5	CP-OFDM QPSK	25@0	4.4715	4.952
12	15	5	141500	707.5	CP-OFDM 16 QAM	25@0	4.474	4.932
12	15	5	141500	707.5	CP-OFDM 64 QAM	25@0	4.4609	4.902
12	15	5	141500	707.5	CP-OFDM 256 QAM	25@0	4.4705	4.89
12	15	10	141500	707.5	DFT-s-OFDM PI/2 BPSK	50@0	8.8721	9.401
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	8.8942	9.492
12	15	10	141500	707.5	CP-OFDM QPSK	52@0	9.2497	9.869
12	15	10	141500	707.5	CP-OFDM 16 QAM	52@0	9.2683	9.875
12	15	10	141500	707.5	CP-OFDM 64 QAM	52@0	9.2433	9.826
12	15	10	141500	707.5	CP-OFDM 256 QAM	52@0	9.2564	9.848
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	75@0	13.349	14.07
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	13.392	14.17
12	15	15	141500	707.5	CP-OFDM QPSK	79@0	14.059	14.8
12	15	15	141500	707.5	CP-OFDM 16 QAM	79@0	14.061	14.77
12	15	15	141500	707.5	CP-OFDM 64 QAM	79@0	14.08	14.78
12	15	15	141500	707.5	CP-OFDM 256 QAM	79@0	14.037	14.77

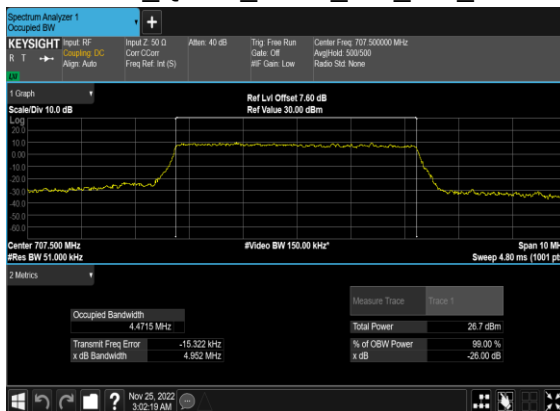
N12(5M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



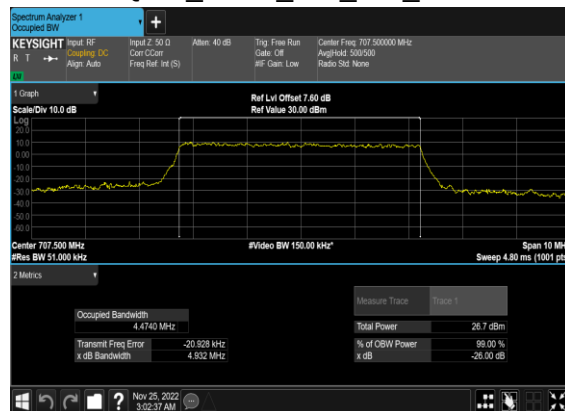
N12(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



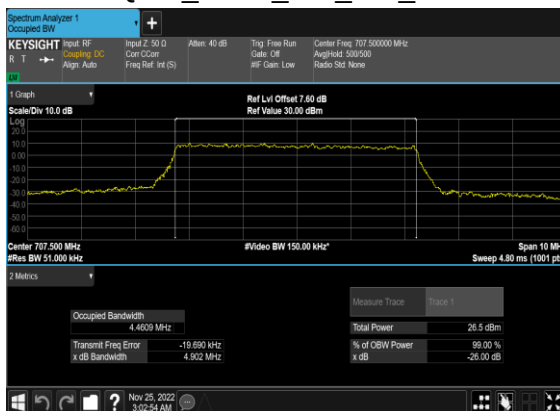
N12(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



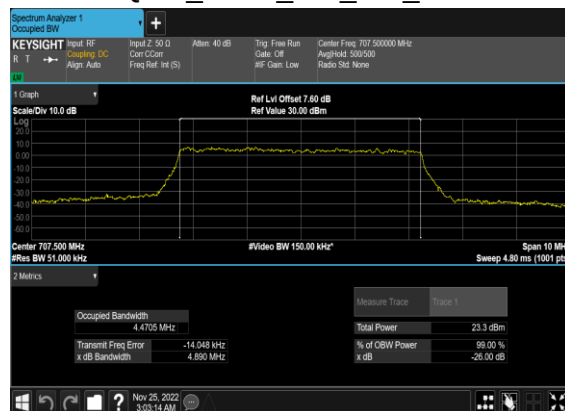
N12(5M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



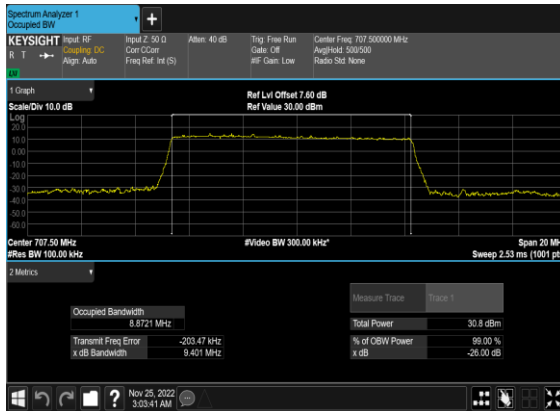
N12(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



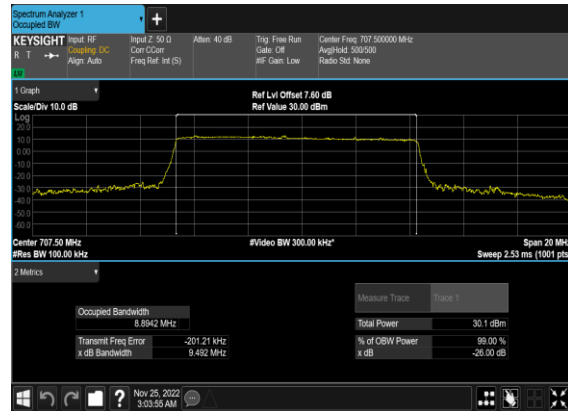
N12(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



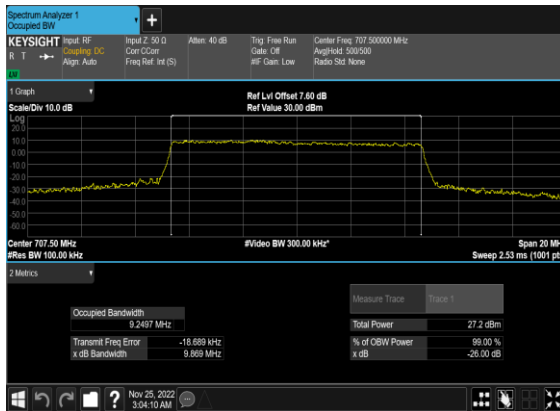
N12(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



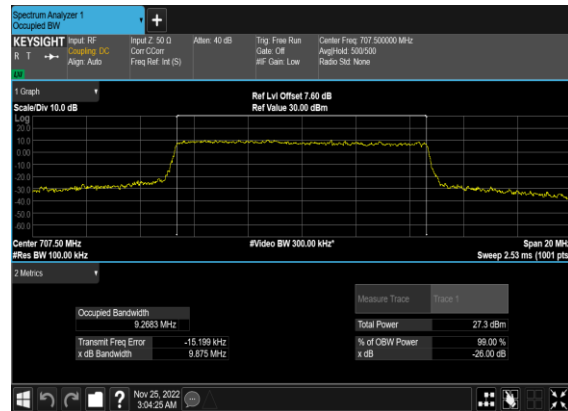
N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



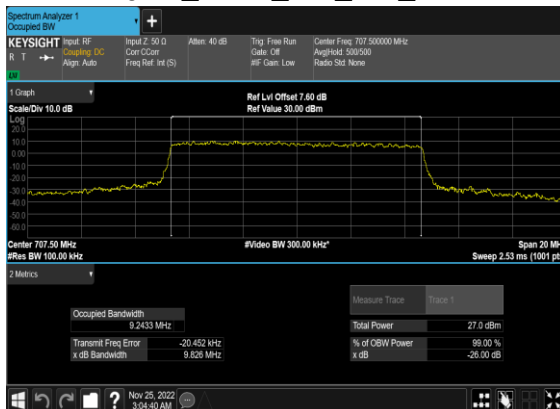
N12(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



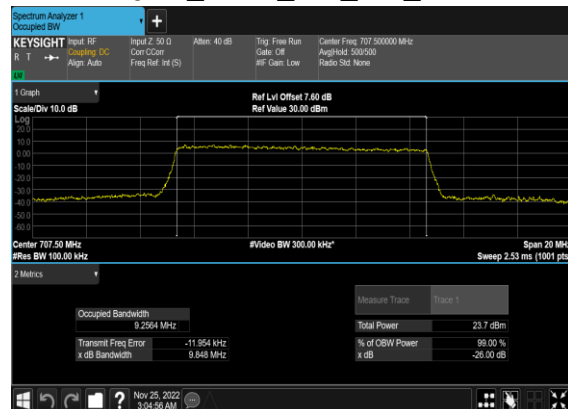
N12(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



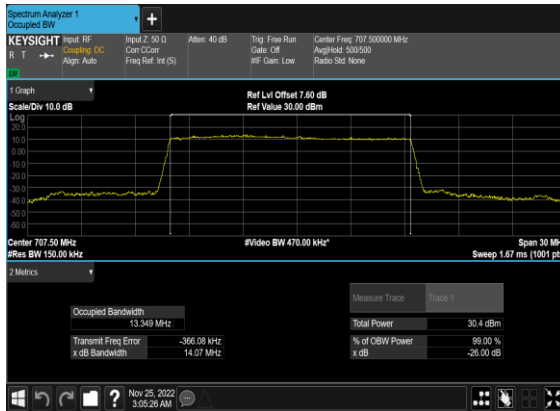
N12(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



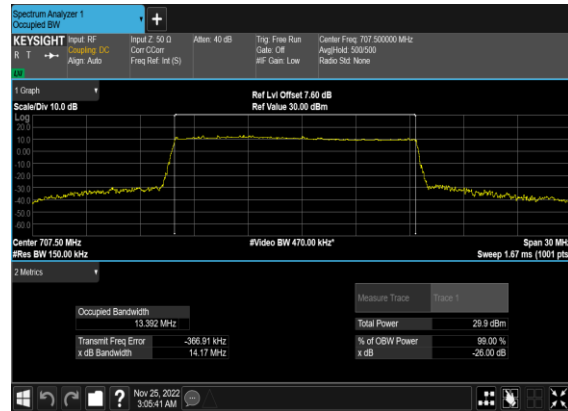
N12(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



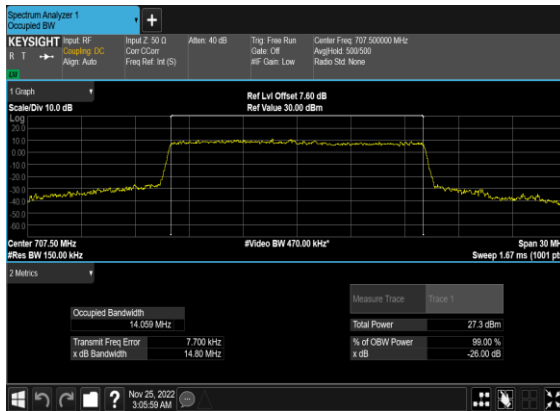
N12(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



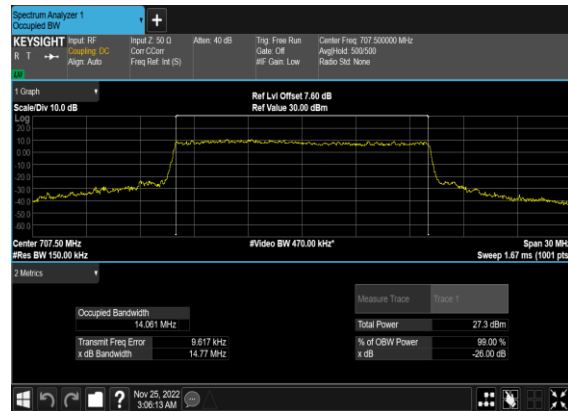
N12(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



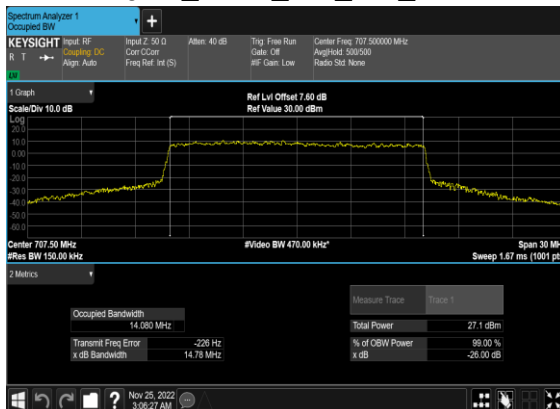
N12(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



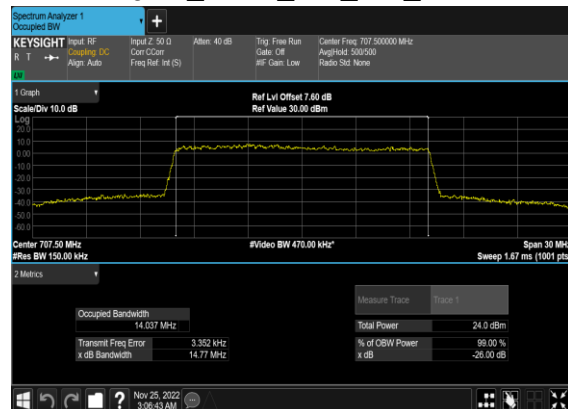
N12(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	140300	701.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	5	140300	701.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	5	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	142700	713.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	5	142700	713.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	140800	704.0	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	10	140800	704.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	10	140800	704.0	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	140800	704.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	10	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	142200	711.0	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	10	142200	711.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	15	141300	706.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	15	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	15	141700	708.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@0	see graph	PASS