N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

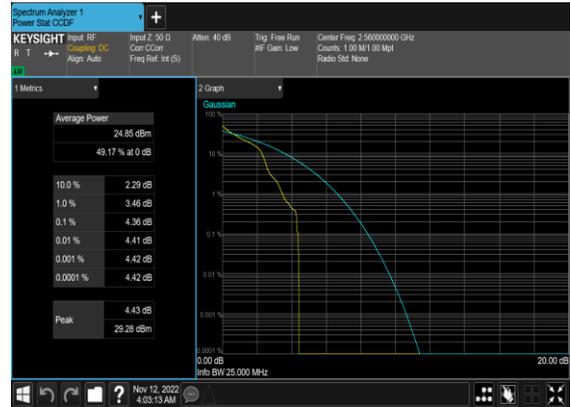## N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

N7(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH

N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N7(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)
7	15	5	507000	2535.0	DFT-s-OFDM PI/2 BPSK	25@0	4.485	4.991
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	25@0	4.4737	5.166
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4697	5.011
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.5011	5.178
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4647	4.981
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4885	5.116
7	15	10	507000	2535.0	DFT-s-OFDM PI/2 BPSK	50@0	8.905	9.602
7	15	10	507000	2535.0	DFT-s-OFDM QPSK	50@0	8.9206	9.68
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2743	10.05
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2888	10.07
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2797	10.09
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.2861	10.02
7	15	15	507000	2535.0	DFT-s-OFDM PI/2 BPSK	75@0	13.4	14.41
7	15	15	507000	2535.0	DFT-s-OFDM QPSK	75@0	13.418	14.33
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.104	15.04
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.108	15.07
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.119	14.95
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.088	15.04
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	17.926	18.84
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	17.873	18.86
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.93	20.03
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.927	19.85

7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.934	19.85
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.972	20.04
7	15	25	507000	2535.0	DFT-s-OFDM PI/2 BPSK	128@0	22.866	24.03
7	15	25	507000	2535.0	DFT-s-OFDM QPSK	128@0	22.884	23.89
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.703	24.92
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.723	24.91
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.783	24.84
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.755	24.83
7	15	30	507000	2535.0	DFT-s-OFDM PI/2 BPSK	160@0	28.608	29.76
7	15	30	507000	2535.0	DFT-s-OFDM QPSK	160@0	28.544	29.68
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.564	29.84
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.574	29.68
7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.6	29.68
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.573	29.63
7	15	40	507000	2535.0	DFT-s-OFDM PI/2 BPSK	216@0	38.609	40.12
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	216@0	38.533	40.02
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.551	40.03
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.588	40.1
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.621	39.95
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.553	39.99

N7(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N7(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N7(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N7(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N7(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N7(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N7(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N7(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

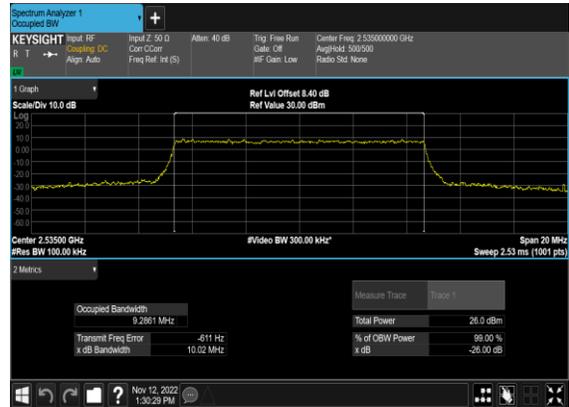## N7(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N7(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
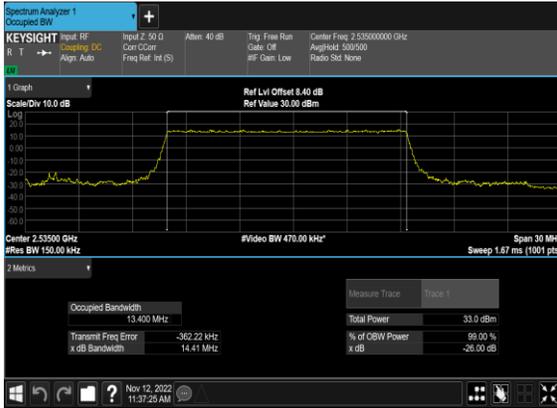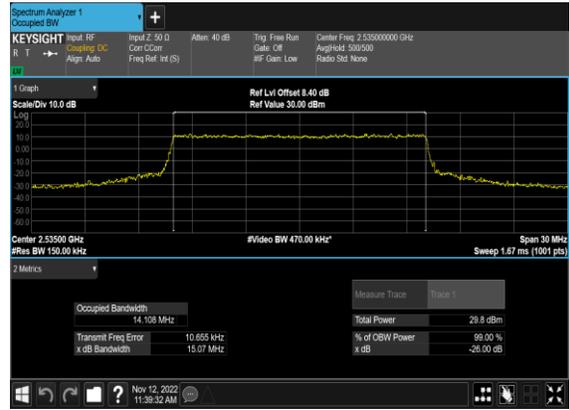

N7(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N7(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 500/500
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 620.00 kHz* Span 40 MHz
#Res BW 200.00 kHz Sweep 1.27 ms (1001 pts)

2 Metrics Measure Trace Trace 1
Occupied Bandwidth 17.926 MHz Total Power 32.6 dBm
Transmit Freq Error -506.78 kHz % of OBW Power 99.00 %
x dB Bandwidth 18.84 MHz x dB -26.00 dB

Nov 12, 2022 11:43:35 AM

N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 500/500
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 620.00 kHz* Span 40 MHz
#Res BW 200.00 kHz Sweep 1.27 ms (1001 pts)

2 Metrics Measure Trace Trace 1
Occupied Bandwidth 17.873 MHz Total Power 32.1 dBm
Transmit Freq Error -537.92 kHz % of OBW Power 99.00 %
x dB Bandwidth 18.86 MHz x dB -26.00 dB

Nov 12, 2022 11:43:50 AM

N7(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 500/500
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 620.00 kHz* Span 40 MHz
#Res BW 200.00 kHz Sweep 1.27 ms (1001 pts)

2 Metrics Measure Trace Trace 1
Occupied Bandwidth 18.930 MHz Total Power 29.9 dBm
Transmit Freq Error 7.781 kHz % of OBW Power 99.00 %
x dB Bandwidth 20.03 MHz x dB -26.00 dB

Nov 12, 2022 1:24:25 PM

N7(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 500/500
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 620.00 kHz* Span 40 MHz
#Res BW 200.00 kHz Sweep 1.27 ms (1001 pts)

2 Metrics Measure Trace Trace 1
Occupied Bandwidth 18.927 MHz Total Power 30.1 dBm
Transmit Freq Error 20.023 kHz % of OBW Power 99.00 %
x dB Bandwidth 19.85 MHz x dB -26.00 dB

Nov 12, 2022 11:45:05 AM

N7(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 500/500
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 620.00 kHz* Span 40 MHz
#Res BW 200.00 kHz Sweep 1.27 ms (1001 pts)

2 Metrics Measure Trace Trace 1
Occupied Bandwidth 18.934 MHz Total Power 29.7 dBm
Transmit Freq Error 11.498 kHz % of OBW Power 99.00 %
x dB Bandwidth 19.85 MHz x dB -26.00 dB

Nov 12, 2022 11:45:17 AM

N7(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 500/500
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 620.00 kHz* Span 40 MHz
#Res BW 200.00 kHz Sweep 1.27 ms (1001 pts)

2 Metrics Measure Trace Trace 1
Occupied Bandwidth 18.972 MHz Total Power 26.5 dBm
Transmit Freq Error 10.269 kHz % of OBW Power 99.00 %
x dB Bandwidth 20.04 MHz x dB -26.00 dB

Nov 12, 2022 1:31:47 PM

N7(25M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH
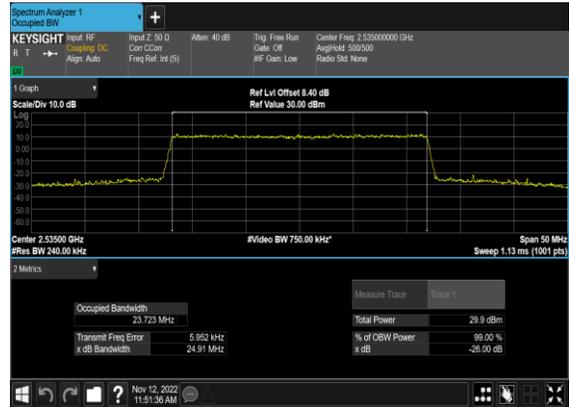

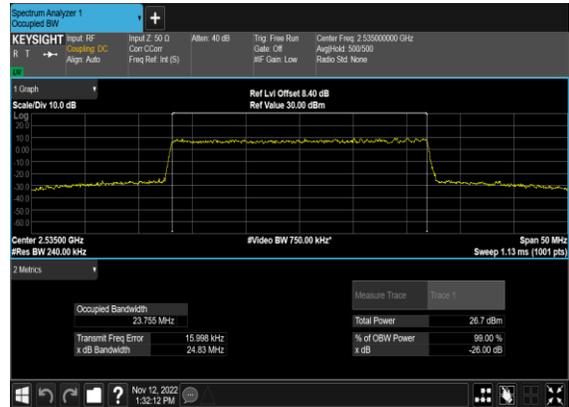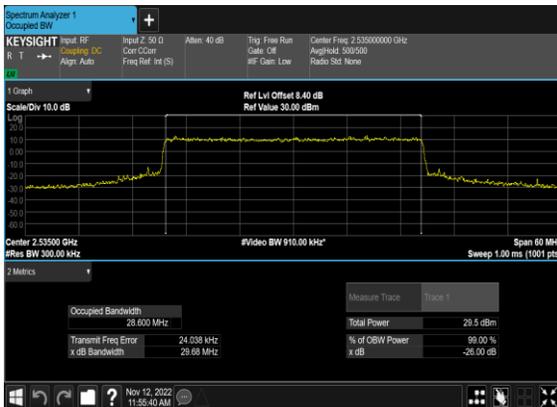## N7(25M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH
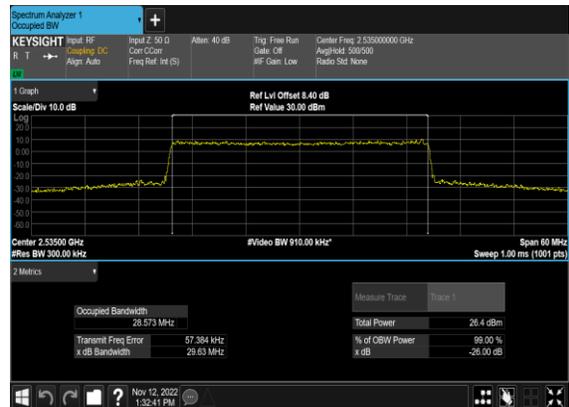

N7(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N7(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

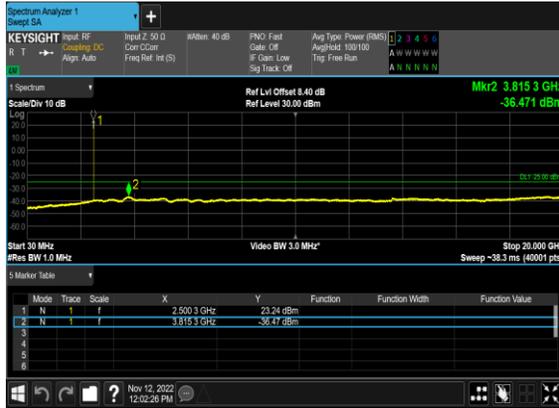## N7(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 500/500
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 910.00 kHz*   Span 60 MHz
#Res BW 300.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
Occupied Bandwidth   28.608 MHz
Transmit Freq Error   19.962 kHz
x dB Bandwidth   29.76 MHz
Measure Trace   Trace 1
Total Power   32.5 dBm
% of OBW Power   99.00 %
x dB   -26.00 dB
Nov 12, 2022 11:53:43 AM

N7(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 500/500
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 910.00 kHz*   Span 60 MHz
#Res BW 300.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
Occupied Bandwidth   28.544 MHz
Transmit Freq Error   36.929 kHz
x dB Bandwidth   29.68 MHz
Measure Trace   Trace 1
Total Power   32.1 dBm
% of OBW Power   99.00 %
x dB   -26.00 dB
Nov 12, 2022 11:53:56 AM

N7(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 500/500
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 910.00 kHz*   Span 60 MHz
#Res BW 300.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
Occupied Bandwidth   28.564 MHz
Transmit Freq Error   7.554 kHz
x dB Bandwidth   29.84 MHz
Measure Trace   Trace 1
Total Power   30.0 dBm
% of OBW Power   99.00 %
x dB   -26.00 dB
Nov 12, 2022 1:28:32 PM

N7(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 500/500
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 910.00 kHz*   Span 60 MHz
#Res BW 300.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
Occupied Bandwidth   28.574 MHz
Transmit Freq Error   43.579 kHz
x dB Bandwidth   29.68 MHz
Measure Trace   Trace 1
Total Power   30.1 dBm
% of OBW Power   99.00 %
x dB   -26.00 dB
Nov 12, 2022 11:55:27 AM

N7(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 500/500
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 910.00 kHz*   Span 60 MHz
#Res BW 300.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
Occupied Bandwidth   28.600 MHz
Transmit Freq Error   24.038 kHz
x dB Bandwidth   29.68 MHz
Measure Trace   Trace 1
Total Power   29.5 dBm
% of OBW Power   99.00 %
x dB   -26.00 dB
Nov 12, 2022 11:55:40 AM

N7(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 500/500
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 8.40 dB
Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 910.00 kHz*   Span 60 MHz
#Res BW 300.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
Occupied Bandwidth   28.573 MHz
Transmit Freq Error   57.384 kHz
x dB Bandwidth   29.63 MHz
Measure Trace   Trace 1
Total Power   26.4 dBm
% of OBW Power   99.00 %
x dB   -26.00 dB
Nov 12, 2022 1:32:41 PM

N7(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N7(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N7(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	---

7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**

7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH
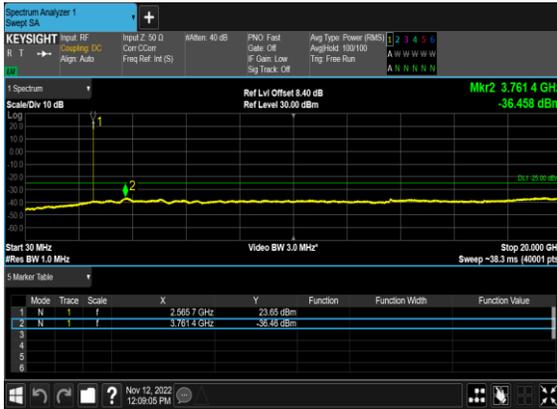

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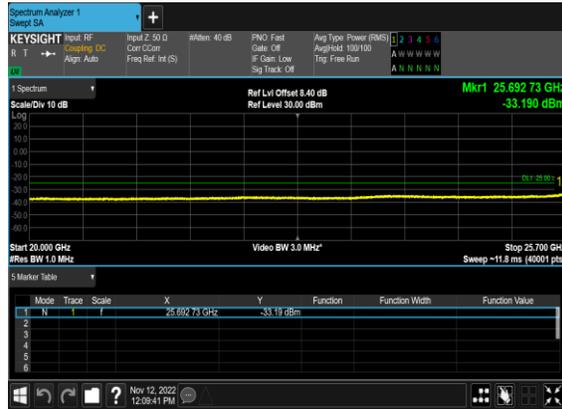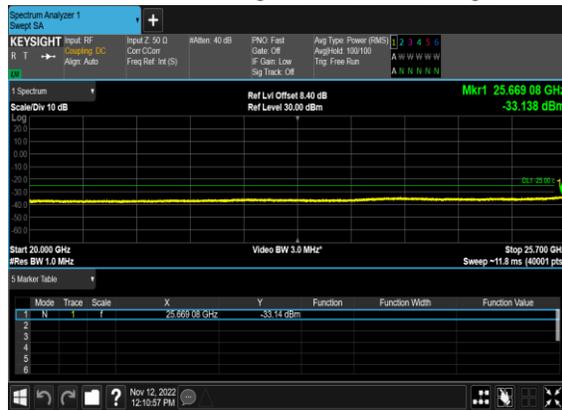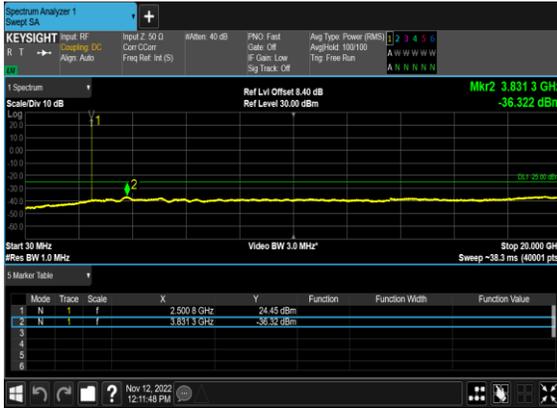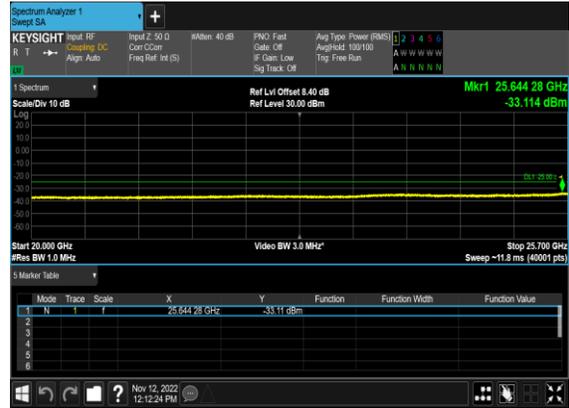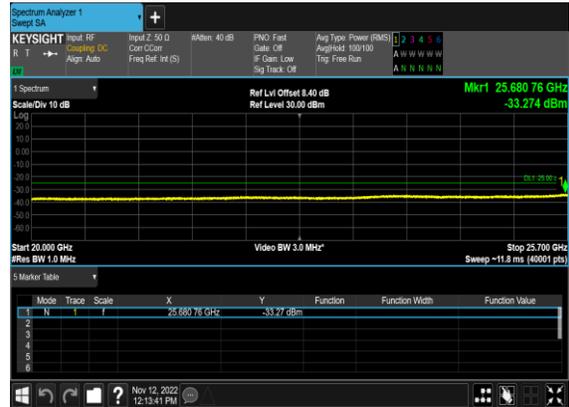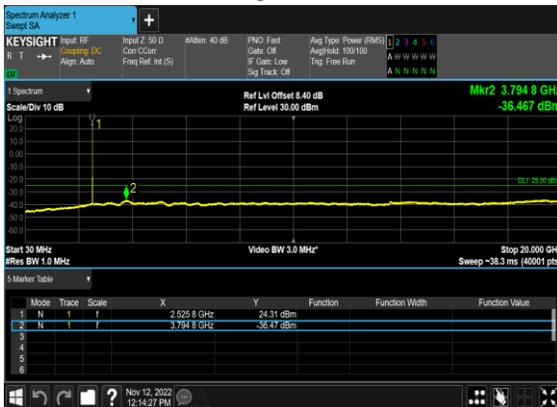
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 40 dB   PNO: Fast   Avg Type: Power (RMS) 1 2 3 4 5 6
R T →→   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
           Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
                                                           Sig Track: Off
1 Spectrum   Ref Lvl Offset 8.40 dB   Mkr2 3.785 9 GHz
Scale/Div 10 dB   Ref Level 30.00 dBm   -36.438 dBm

Start 30 MHz   Video BW 3.0 MHz*   Stop 20.000 GHz
#Res BW 1.0 MHz   Sweep ~38.3 ms (40001 pts)
5 Marker Table
       Mode Trace Scale   X   Y   Function   Function Width   Function Value
   1   N   1   f   2.533 2 GHz   22.73 dBm
   2   N   1   f   3.785 9 GHz   -36.44 dBm
Nov 12, 2022 12:07:36 PM

N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 40 dB   PNO: Fast   Avg Type: Power (RMS) 1 2 3 4 5 6
R T →→   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
           Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
                                                           Sig Track: Off
1 Spectrum   Ref Lvl Offset 8.40 dB   Mkr1 25.667 23 GHz
Scale/Div 10 dB   Ref Level 30.00 dBm   -33.408 dBm

Start 20.000 GHz   Video BW 3.0 MHz*   Stop 25.700
#Res BW 1.0 MHz   Sweep ~11.8 ms (40001 pts)
5 Marker Table
       Mode Trace Scale   X   Y   Function   Function Width   Function Value
   1   N   1   f   25.667 23 GHz   -33.41 dBm
Nov 12, 2022 12:08:12 PM

N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 40 dB   PNO: Fast   Avg Type: Power (RMS) 1 2 3 4 5 6
R T →→   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
           Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
                                                           Sig Track: Off
1 Spectrum   Ref Lvl Offset 8.40 dB   Mkr2 3.761 4 GHz
Scale/Div 10 dB   Ref Level 30.00 dBm   -36.458 dBm

Start 30 MHz   Video BW 3.0 MHz*   Stop 20.000 GHz
#Res BW 1.0 MHz   Sweep ~38.3 ms (40001 pts)
5 Marker Table
       Mode Trace Scale   X   Y   Function   Function Width   Function Value
   1   N   1   f   2.565 7 GHz   23.65 dBm
   2   N   1   f   3.761 4 GHz   -36.46 dBm
Nov 12, 2022 12:09:05 PM

N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 40 dB   PNO: Fast   Avg Type: Power (RMS) 1 2 3 4 5 6
R T →→   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
           Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
                                                           Sig Track: Off
1 Spectrum   Ref Lvl Offset 8.40 dB   Mkr1 25.692 73 GHz
Scale/Div 10 dB   Ref Level 30.00 dBm   -33.190 dBm

Start 20.000 GHz   Video BW 3.0 MHz*   Stop 25.700
#Res BW 1.0 MHz   Sweep ~11.8 ms (40001 pts)
5 Marker Table
       Mode Trace Scale   X   Y   Function   Function Width   Function Value
   1   N   1   f   25.692 73 GHz   -33.19 dBm
Nov 12, 2022 12:09:41 PM

N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 40 dB   PNO: Fast   Avg Type: Power (RMS) 1 2 3 4 5 6
R T →→   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
           Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
                                                           Sig Track: Off
1 Spectrum   Ref Lvl Offset 8.40 dB   Mkr2 3.821 8 GHz
Scale/Div 10 dB   Ref Level 30.00 dBm   -36.415 dBm

Start 30 MHz   Video BW 3.0 MHz*   Stop 20.000 GHz
#Res BW 1.0 MHz   Sweep ~38.3 ms (40001 pts)
5 Marker Table
       Mode Trace Scale   X   Y   Function   Function Width   Function Value
   1   N   1   f   2.565 7 GHz   23.07 dBm
   2   N   1   f   3.821 8 GHz   -36.41 dBm
Nov 12, 2022 12:10:21 PM

N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 40 dB   PNO: Fast   Avg Type: Power (RMS) 1 2 3 4 5 6
R T →→   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
           Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
                                                           Sig Track: Off
1 Spectrum   Ref Lvl Offset 8.40 dB   Mkr1 25.669 08 GHz
Scale/Div 10 dB   Ref Level 30.00 dBm   -33.138 dBm

Start 20.000 GHz   Video BW 3.0 MHz*   Stop 25.700
#Res BW 1.0 MHz   Sweep ~11.8 ms (40001 pts)
5 Marker Table
       Mode Trace Scale   X   Y   Function   Function Width   Function Value
   1   N   1   f   25.669 08 GHz   -33.14 dBm
Nov 12, 2022 12:10:57 PM

N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH
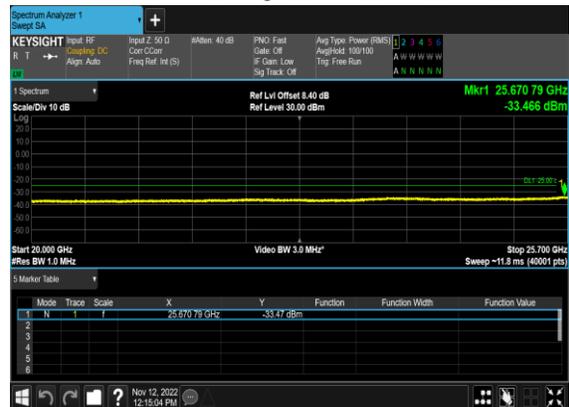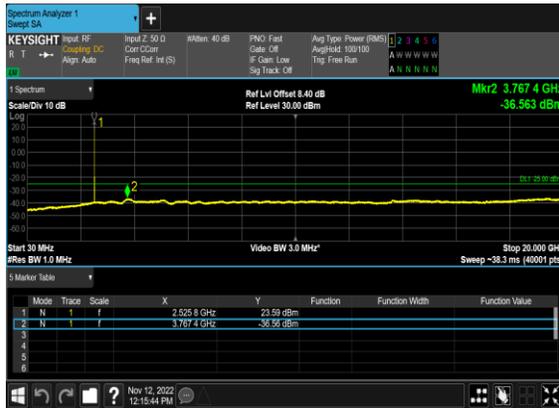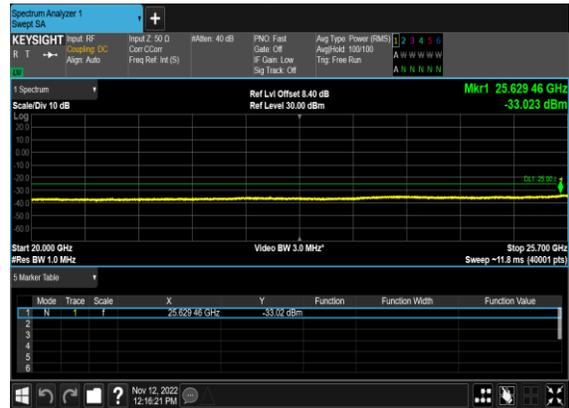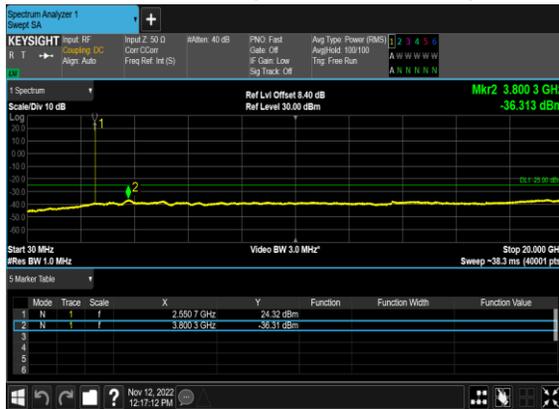

N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

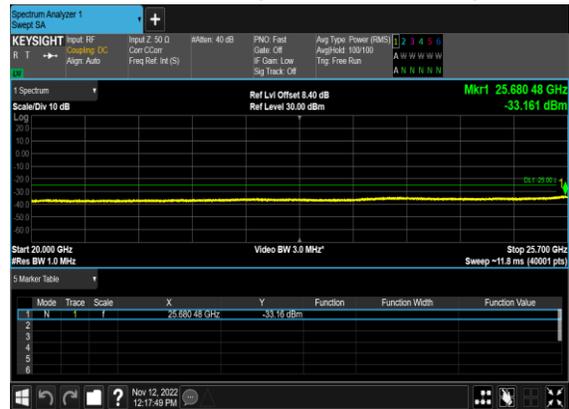## N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH
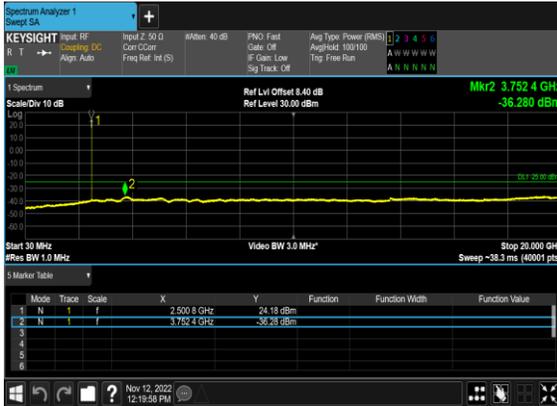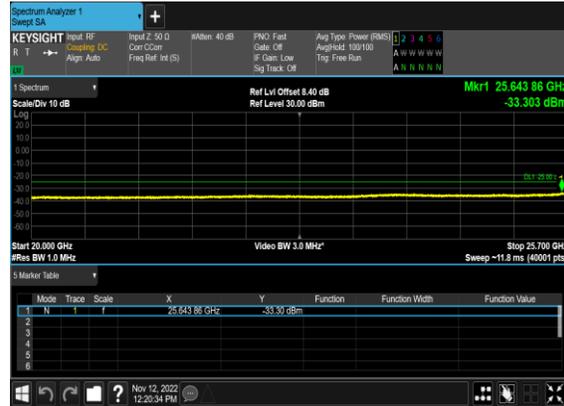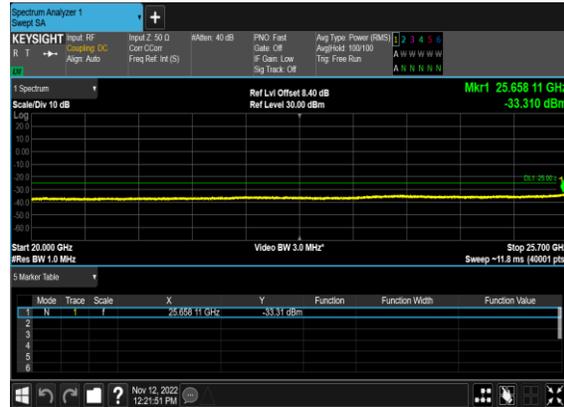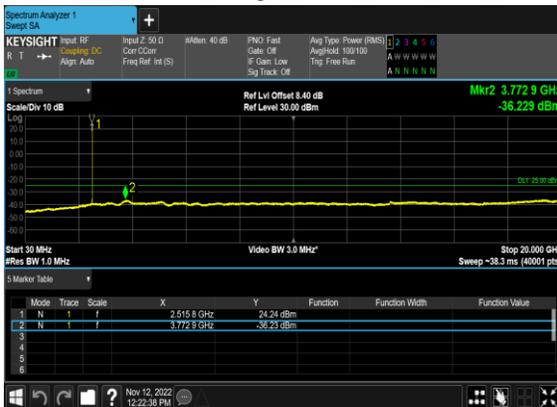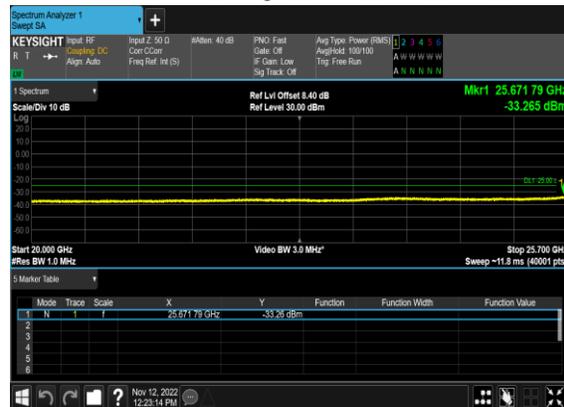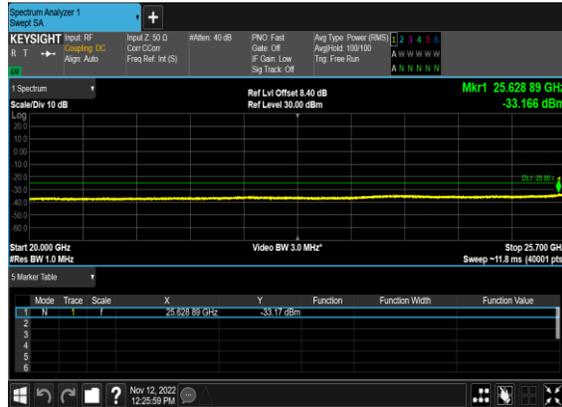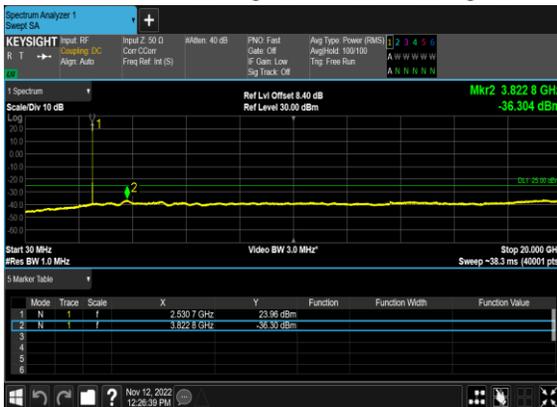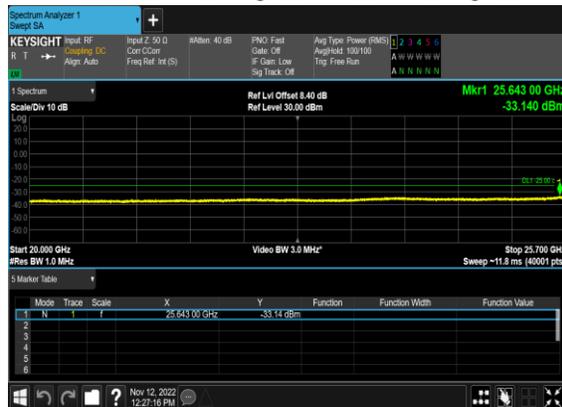

N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH
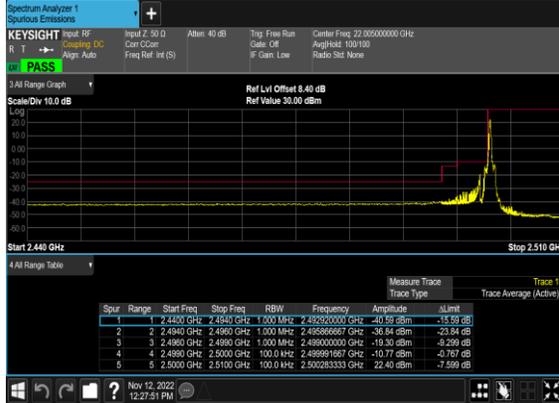

N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

N7(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
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	216@0	see graph	**PASS**

N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH
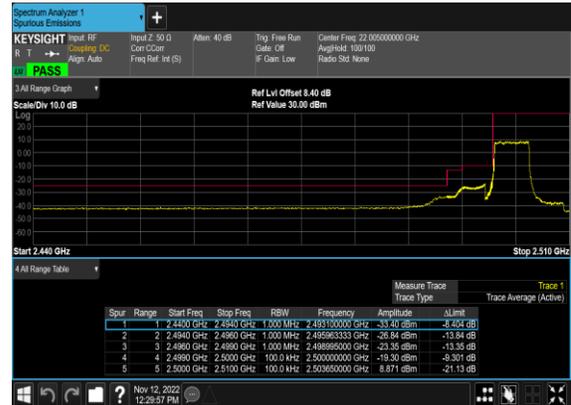
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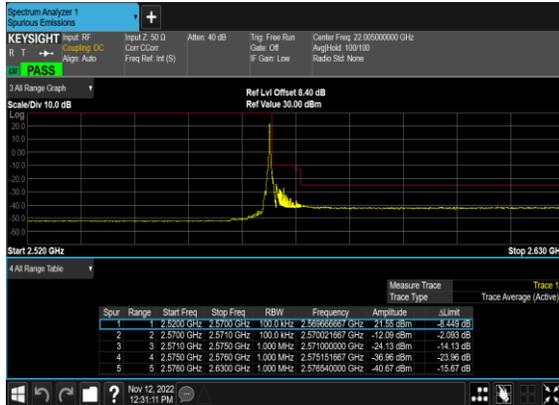
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS

N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS

N7(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

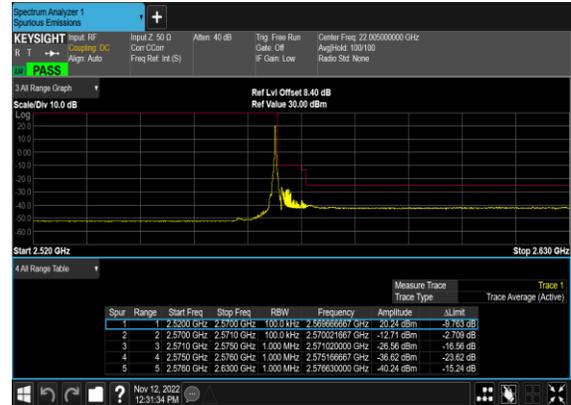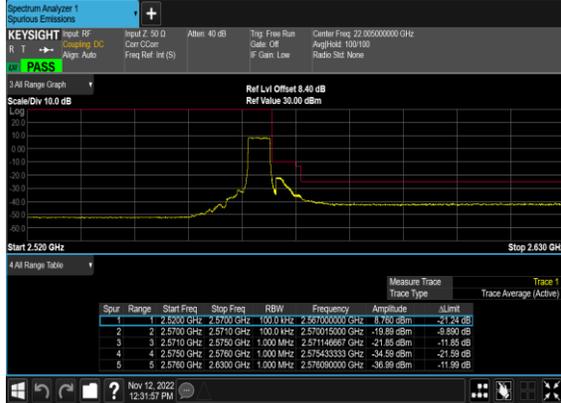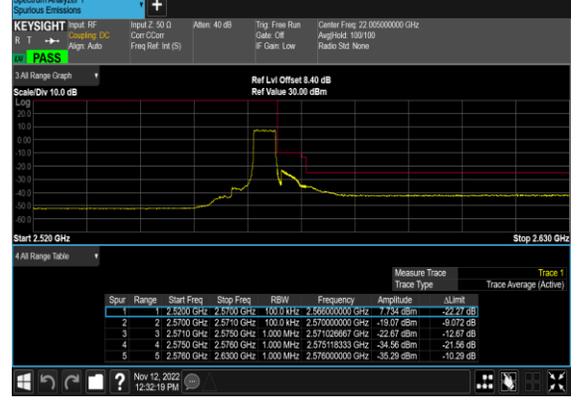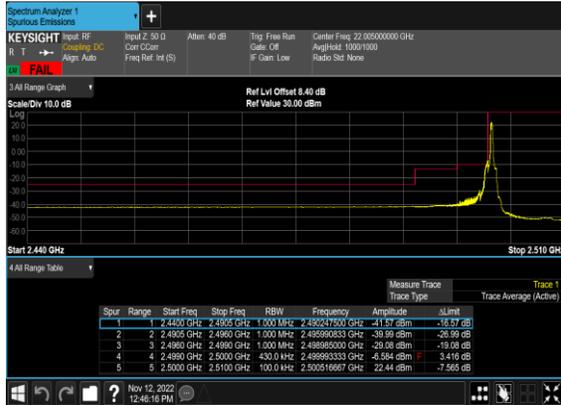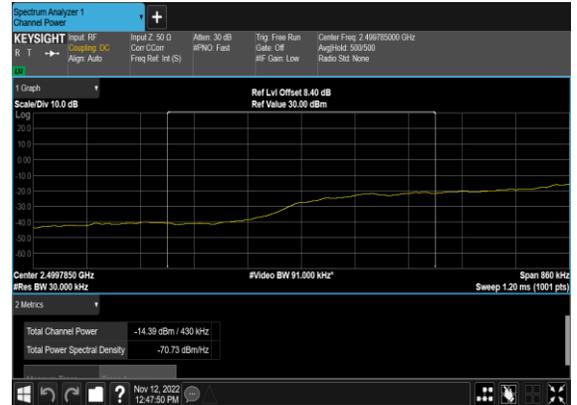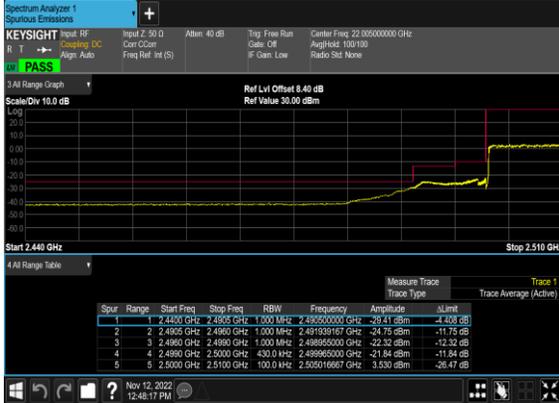Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT R T PASS
Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 22.005000000 GHz
Coupling: DC Corr CCorr Gate: Off AvgHold: 100/100
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 8.40 dB Ref Value 30.00 dBm
Start 2.440 GHz   Stop 2.510 GHz

4 All Range Table
Measure Trace — Trace 1
Trace Type — Trace Average (Active)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.4400 GHz	2.4905 GHz	1.000 MHz	2.490500000 GHz	-29.41 dBm	-4.408 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.491939167 GHz	-24.75 dBm	-11.75 dB
3	3	2.4960 GHz	2.4990 GHz	1.000 MHz	2.498955000 GHz	-22.32 dBm	-12.32 dB
4	4	2.4990 GHz	2.5000 GHz	430.0 kHz	2.499965000 GHz	-21.84 dBm	-11.84 dB
5	5	2.5000 GHz	2.5100 GHz	100.0 kHz	2.505016667 GHz	3.530 dBm	-26.47 dB

Nov 12, 2022 12:48:17 PM

N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT R T PASS
Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 22.005000000 GHz
Coupling: DC Corr CCorr Gate: Off AvgHold: 100/100
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 8.40 dB Ref Value 30.00 dBm
Start 2.440 GHz   Stop 2.510 GHz

4 All Range Table
Measure Trace — Trace 1
Trace Type — Trace Average (Active)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.4400 GHz	2.4905 GHz	1.000 MHz	2.490500000 GHz	-31.60 dBm	-6.596 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.495945000 GHz	-26.21 dBm	-13.21 dB
3	3	2.4960 GHz	2.4990 GHz	1.000 MHz	2.498955000 GHz	-22.82 dBm	-12.82 dB
4	4	2.4990 GHz	2.5000 GHz	430.0 kHz	2.498986667 GHz	-22.42 dBm	-12.42 dB
5	5	2.5000 GHz	2.5100 GHz	100.0 kHz	2.505600000 GHz	2.681 dBm	-27.32 dB

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N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT R T FAIL
Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 22.005000000 GHz
Coupling: DC Corr CCorr Gate: Off AvgHold: 1000/1000
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 8.40 dB Ref Value 30.00 dBm
Start 2.520 GHz   Stop 2.630 GHz

4 All Range Table
Measure Trace — Trace 1
Trace Type — Trace Average (Active)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5200 GHz	2.5700 GHz	100.0 kHz	2.569416667 GHz	22.17 dBm	-7.834 dB
2	2	2.5700 GHz	2.5710 GHz	430.0 kHz	2.570003333 GHz	-8.700 dBm	1.300 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571000000 GHz	-29.81 dBm	-19.81 dB
4	4	2.5750 GHz	2.5900 GHz	1.000 MHz	2.575825000 GHz	-40.77 dBm	-27.77 dB
5	5	2.5900 GHz	2.6300 GHz	1.000 MHz	2.628933333 GHz	-41.97 dBm	-16.97 dB

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N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS

Spectrum Analyzer 1 — Channel Power
KEYSIGHT R T
Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 2.570215000 GHz
Coupling: DC Corr CCorr #PNO: Fast Gate: Off AvgHold: 500/500
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB Ref Lvl Offset 8.40 dB Ref Value 30.00 dBm
Center 2.5702150 GHz #Video BW 91.000 kHz* Span 860 kHz
#Res BW 30.000 kHz Sweep 1.20 ms (1001 pts)

2 Metrics

Total Channel Power	-16.91 dBm / 430 kHz
Total Power Spectral Density	-73.24 dBm/Hz

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N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT R T PASS
Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 22.005000000 GHz
Coupling: DC Corr CCorr Gate: Off AvgHold: 1000/1000
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 8.40 dB Ref Value 30.00 dBm
Start 2.520 GHz   Stop 2.630 GHz

4 All Range Table
Measure Trace — Trace 1
Trace Type — Trace Average (Active)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5200 GHz	2.5700 GHz	100.0 kHz	2.569416667 GHz	20.65 dBm	-9.352 dB
2	2	2.5700 GHz	2.5710 GHz	430.0 kHz	2.570001667 GHz	-11.19 dBm	-1.185 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571053333 GHz	-30.22 dBm	-20.22 dB
4	4	2.5750 GHz	2.5900 GHz	1.000 MHz	2.576925000 GHz	-40.42 dBm	-27.42 dB
5	5	2.5900 GHz	2.6300 GHz	1.000 MHz	2.626933333 GHz	-42.06 dBm	-17.06 dB

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N7(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS

N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

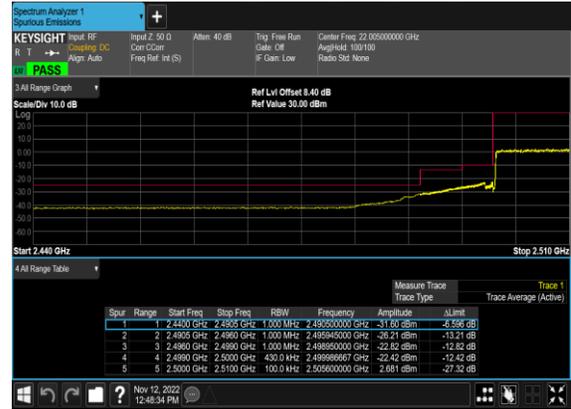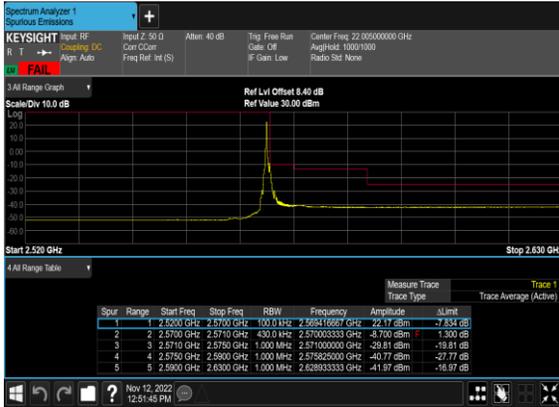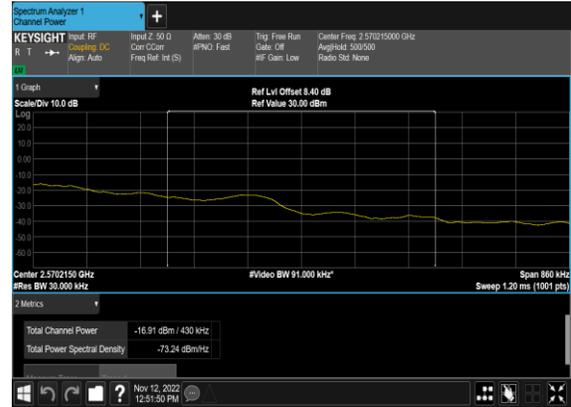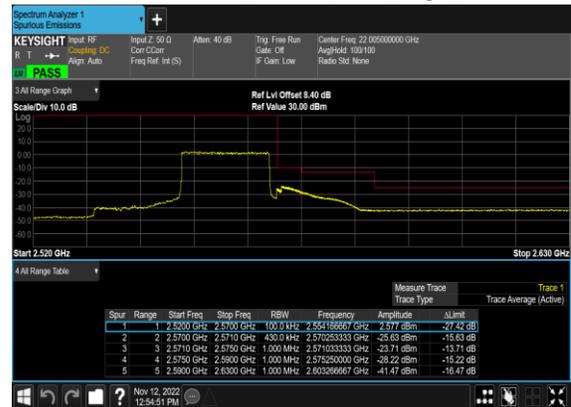## N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS