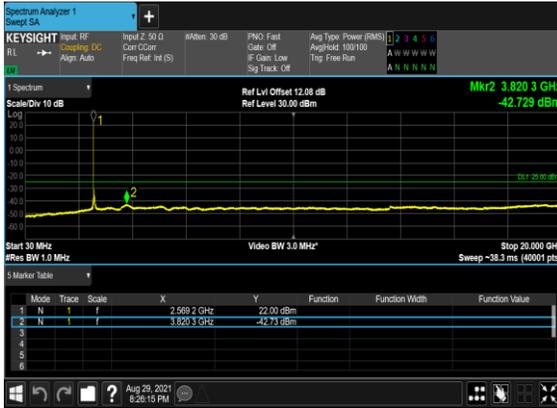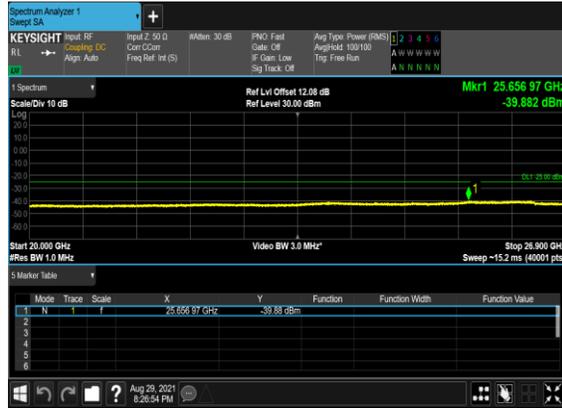## N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH
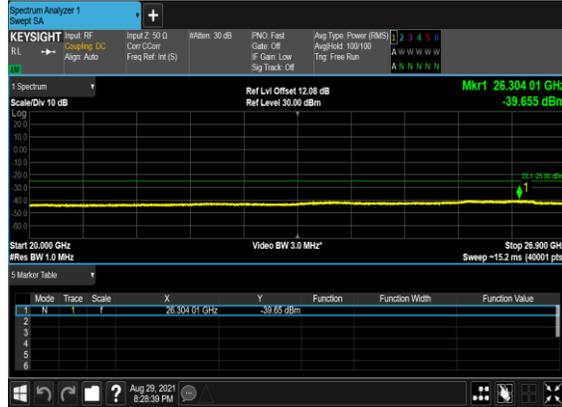

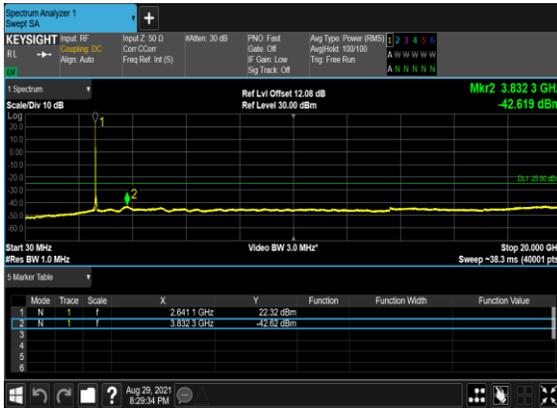## N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

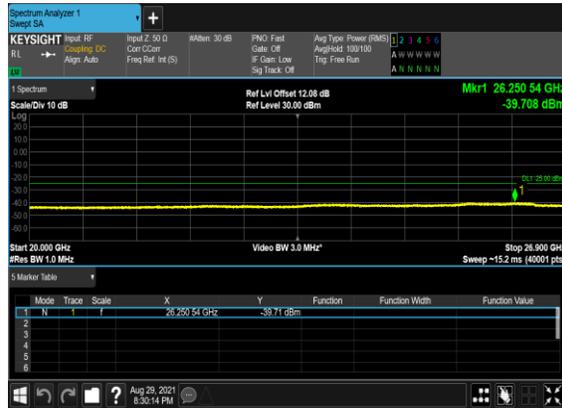## N41(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N41(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

N41(50M)_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
41	15	10	500202	2501.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	15	10	500202	2501.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	15	10	500202	2501.01	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
41	15	10	500202	2501.01	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
41	15	10	537000	2685.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
41	15	10	537000	2685.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
41	15	10	537000	2685.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
41	15	10	537000	2685.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
41	15	30	502200	2511.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	15	30	502200	2511.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	15	30	502200	2511.0	DFT-s-OFDM BPSK	160@0	see graph	**PASS**
41	15	30	502200	2511.0	DFT-s-OFDM QPSK	160@0	see graph	**PASS**
41	15	30	534999	2674.995	DFT-s-OFDM BPSK	1@159	see graph	**PASS**
41	15	30	534999	2674.995	DFT-s-OFDM QPSK	1@159	see graph	**PASS**
41	15	30	534999	2674.995	DFT-s-OFDM BPSK	160@0	see graph	**PASS**
41	15	30	534999	2674.995	DFT-s-OFDM QPSK	160@0	see graph	**PASS**
41	15	50	504201	2521.005	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	15	50	504201	2521.005	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	15	50	504201	2521.005	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
41	15	50	504201	2521.005	DFT-s-OFDM QPSK	270@0	see graph	**PASS**
41	15	50	532998	2664.99	DFT-s-OFDM BPSK	1@269	see graph	**PASS**
41	15	50	532998	2664.99	DFT-s-OFDM QPSK	1@269	see graph	**PASS**

41	15	50	532998	2664.99	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
41	15	50	532998	2664.99	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

N41(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 22.005000000 GHz
R L Coupling: DC Corr CCorr Gate: Off AvgHold: 1000/1000
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None
PASS

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 12.01 dB Ref Value 30.00 dBm
Start 2.391 GHz Stop 2.596 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	2.3910 GHz	2.4900 GHz	1.000 MHz	2.488845000 GHz	-36.70 dBm	-10.70 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.493091667 GHz	-18.73 dBm	-5.726 dB
3	3	2.4950 GHz	2.4960 GHz	100.0 kHz	2.496000000 GHz	-17.23 dBm	-4.235 dB
4	4	2.4960 GHz	2.5960 GHz	1.000 MHz	2.496166667 GHz	22.47 dBm	-7.530 dB

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N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 22.005000000 GHz
R L Coupling: DC Corr CCorr Gate: Off AvgHold: 1000/1000
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None
PASS

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 12.03 dB Ref Value 30.00 dBm
Start 2.391 GHz Stop 2.596 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	2.3910 GHz	2.4900 GHz	1.000 MHz	2.490000000 GHz	-34.85 dBm	-8.848 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.494083333 GHz	-18.01 dBm	-5.012 dB
3	3	2.4950 GHz	2.4960 GHz	100.0 kHz	2.495991667 GHz	-17.94 dBm	-4.945 dB
4	4	2.4960 GHz	2.5960 GHz	1.000 MHz	2.496166667 GHz	22.09 dBm	-7.910 dB

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N41(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 22.005000000 GHz
R L Coupling: DC Corr CCorr Gate: Off AvgHold: 1000/1000
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None
PASS

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 12.08 dB Ref Value 30.00 dBm
Start 2.391 GHz Stop 2.596 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	2.3910 GHz	2.4900 GHz	1.000 MHz	2.488845000 GHz	-26.18 dBm	-1.179 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.493041667 GHz	-20.91 dBm	-7.914 dB
3	3	2.4950 GHz	2.4960 GHz	100.0 kHz	2.495918333 GHz	-27.81 dBm	-14.81 dB
4	4	2.4960 GHz	2.5960 GHz	1.000 MHz	2.503166667 GHz	17.73 dBm	-12.27 dB

Sep 06, 2021 6:52:57 PM

N41(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 22.005000000 GHz
R L Coupling: DC Corr CCorr Gate: Off AvgHold: 1000/1000
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None
PASS

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 12.08 dB Ref Value 30.00 dBm
Start 2.391 GHz Stop 2.596 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	2.3910 GHz	2.4900 GHz	1.000 MHz	2.494366667 GHz	-26.07 dBm	-1.069 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.494366667 GHz	-21.12 dBm	-8.122 dB
3	3	2.4950 GHz	2.4960 GHz	100.0 kHz	2.495990000 GHz	-29.41 dBm	-16.41 dB
4	4	2.4960 GHz	2.5960 GHz	1.000 MHz	2.500166667 GHz	16.56 dBm	-13.44 dB

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N41(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

Spectrum Analyzer 1 — Spurious Emissions
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 22.005000000 GHz
R L Coupling: DC Corr CCorr Gate: Off AvgHold: 1000/1000
Align: Auto Freq Ref: Int (S) IF Gain: Low Radio Std: None
PASS

3 All Range Graph
Scale/Div 10.0 dB Ref Lvl Offset 12.06 dB Ref Value 30.00 dBm
Start 2.590 GHz Stop 2.795 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	2.5900 GHz	2.6900 GHz	1.000 MHz	2.688333333 GHz	22.38 dBm	-7.613 dB
2	2	2.6900 GHz	2.6910 GHz	200.0 kHz	2.690000000 GHz	-11.57 dBm	-1.571 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691046667 GHz	-19.31 dBm	-9.314 dB
4	4	2.6950 GHz	2.7100 GHz	1.000 MHz	2.695725000 GHz	-30.66 dBm	-17.66 dB
5	5	2.7100 GHz	2.7950 GHz	1.000 MHz	2.710566667 GHz	-43.34 dBm	-18.34 dB

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N41(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS

Spectrum Analyzer 1 — Channel Power
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 50 dB Trig: Free Run Center Freq: 2.690100000 GHz
R L 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 12.06 dB Ref Value 30.00 dBm

Center 2.6901000 GHz #Video BW 91.000 kHz* Span 400 kHz
#Res BW 30.000 kHz Sweep 1.00 ms (1001 pts)

2 Metrics

Total Channel Power	-18.29 dBm / 200 kHz
Total Power Spectral Density	-71.30 dBm/Hz

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N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_PASS

N41(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

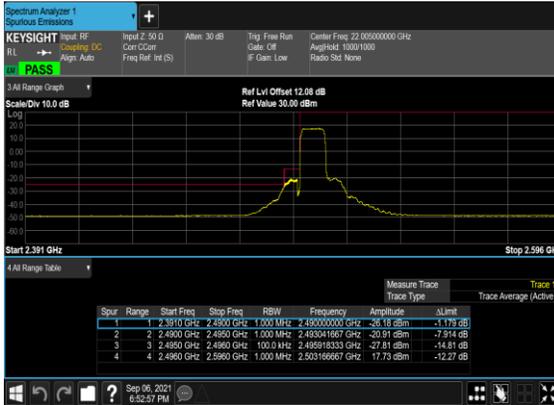## N41(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N41(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH
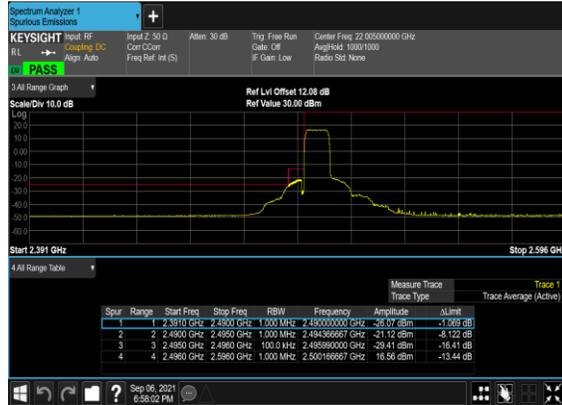
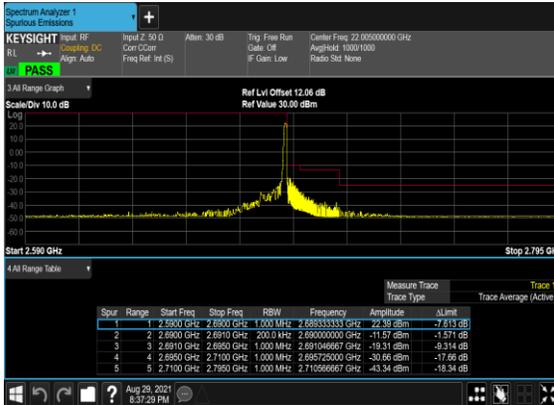## N41(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N41(30M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

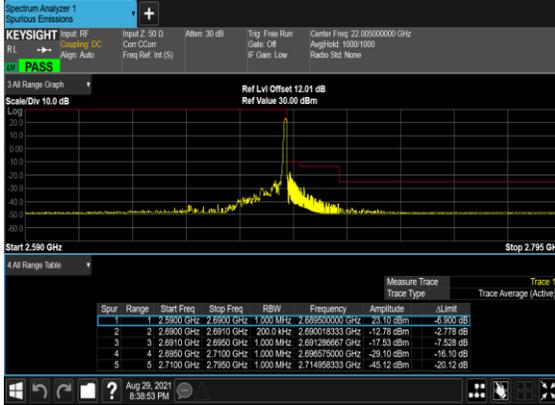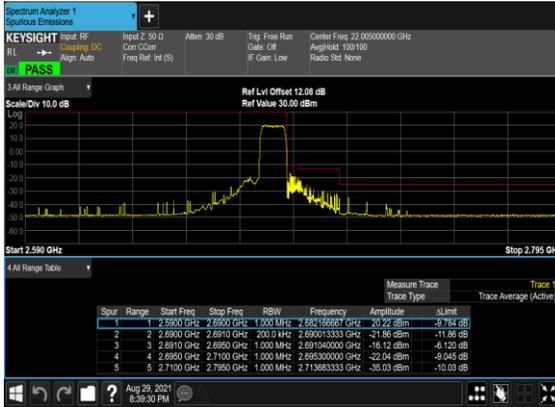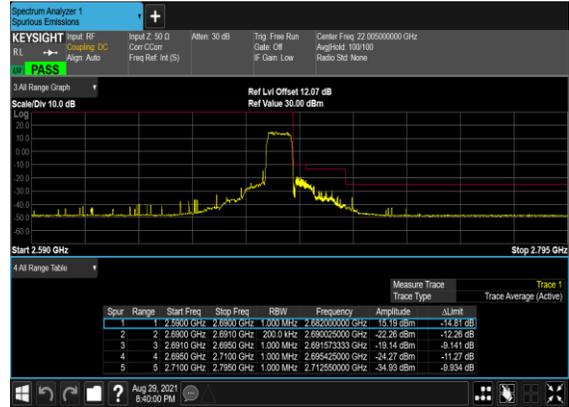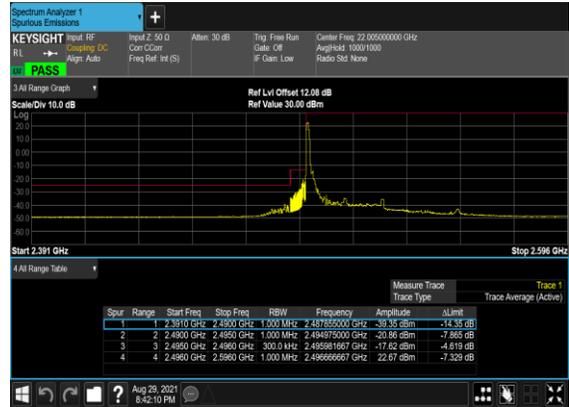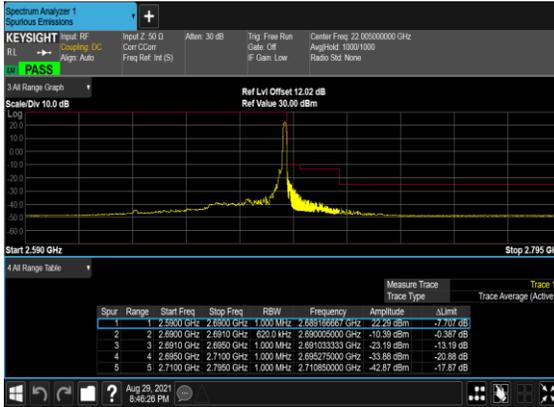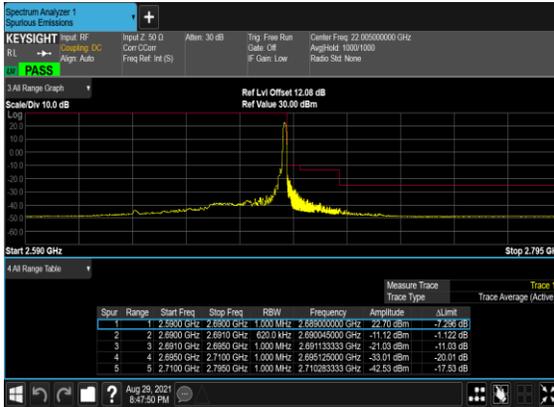## N41(30M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N41(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

N41(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS

N41(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH
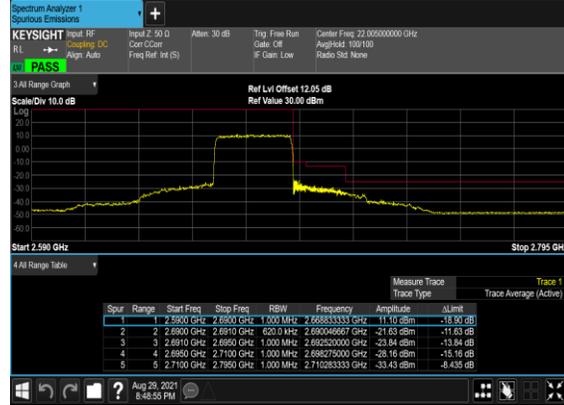

N41(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_PASS

N41(30M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

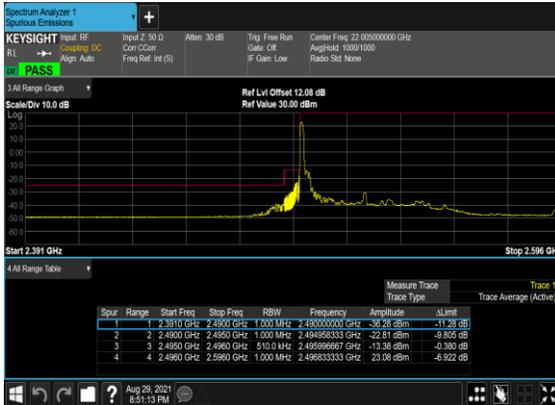## N41(30M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N41(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N41(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PAS

N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

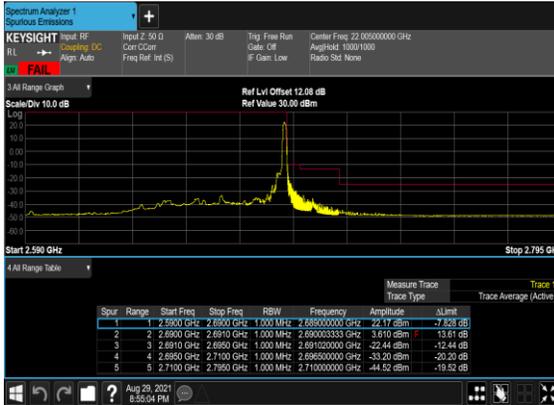## N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PAS
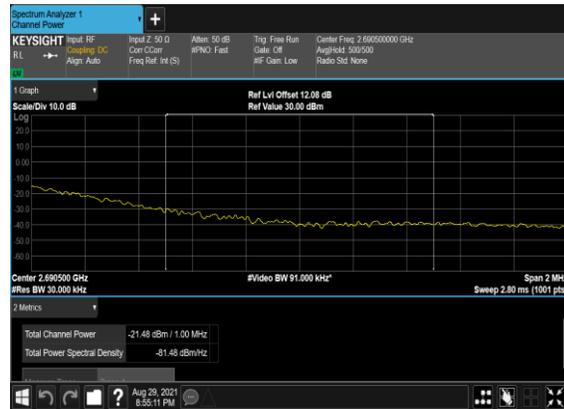
N41(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

Spectrum Analyzer 1 — Spurious Emissions

KEYSIGHT PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.3910 GHz	2.4900 GHz	1.000 MHz	2.486680000 GHz	-29.48 dBm	-4.486 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.494916667 GHz	-24.57 dBm	-11.57 dB
3	3	2.4950 GHz	2.4960 GHz	510.0 kHz	2.496000000 GHz	-26.21 dBm	-13.21 dB
4	4	2.4960 GHz	2.5960 GHz	1.000 MHz	2.538833333 GHz	10.34 dBm	-19.66 dB

Start 2.391 GHz Stop 2.596 GHz

N41(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

Spectrum Analyzer 1 — Spurious Emissions

KEYSIGHT PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.3910 GHz	2.4900 GHz	1.000 MHz	2.486865000 GHz	-30.82 dBm	-5.822 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.494858333 GHz	-25.41 dBm	-12.41 dB
3	3	2.4950 GHz	2.4960 GHz	510.0 kHz	2.495985000 GHz	-25.12 dBm	-12.12 dB
4	4	2.4960 GHz	2.5960 GHz	1.000 MHz	2.527000000 GHz	8.893 dBm	-21.11 dB

Start 2.391 GHz Stop 2.596 GHz

N41(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

Spectrum Analyzer 1 — Spurious Emissions

KEYSIGHT FAIL

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5900 GHz	2.6900 GHz	1.000 MHz	2.688000000 GHz	22.17 dBm	-7.828 dB
2	2	2.6900 GHz	2.6910 GHz	1.000 MHz	2.690003333 GHz	3.610 dBm	13.61 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691020000 GHz	-22.44 dBm	-12.44 dB
4	4	2.6950 GHz	2.7100 GHz	1.000 MHz	2.696500000 GHz	-33.20 dBm	-20.20 dB
5	5	2.7100 GHz	2.7950 GHz	1.000 MHz	2.710000000 GHz	-44.52 dBm	-19.52 dB

Start 2.590 GHz Stop 2.795 GHz

N41(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS

Spectrum Analyzer 1 — Channel Power

KEYSIGHT

Center 2.690500 GHz Span 2 MHz

Metrics	
Total Channel Power	-21.48 dBm / 1.00 MHz
Total Power Spectral Density	-81.48 dBm/Hz

N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

Spectrum Analyzer 1 — Spurious Emissions

KEYSIGHT FAIL

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5900 GHz	2.6900 GHz	1.000 MHz	2.688833333 GHz	22.66 dBm	-7.343 dB
2	2	2.6900 GHz	2.6910 GHz	1.000 MHz	2.690000000 GHz	3.732 dBm	13.73 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691193333 GHz	-22.57 dBm	-12.57 dB
4	4	2.6950 GHz	2.7100 GHz	1.000 MHz	2.695050000 GHz	-34.01 dBm	-21.01 dB
5	5	2.7100 GHz	2.7950 GHz	1.000 MHz	2.710283333 GHz	-44.54 dBm	-19.54 dB

Start 2.590 GHz Stop 2.795 GHz

N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_PASS

Spectrum Analyzer 1 — Channel Power

KEYSIGHT

Center 2.690500 GHz Span 2 MHz

Metrics	
Total Channel Power	-21.10 dBm / 1.00 MHz
Total Power Spectral Density	-81.10 dBm/Hz

N41(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5900 GHz	2.6900 GHz	1.000 MHz	2.651000000 GHz	9.701 dBm	-20.30 dB
2	2	2.6900 GHz	2.6910 GHz	1.000 MHz	2.690000000 GHz	-14.55 dBm	-4.551 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691913333 GHz	-24.01 dBm	-14.01 dB
4	4	2.6950 GHz	2.7100 GHz	1.000 MHz	2.695000000 GHz	-29.03 dBm	-16.03 dB
5	5	2.7100 GHz	2.7950 GHz	1.000 MHz	2.711558333 GHz	-32.92 dBm	-7.921 dB

N41(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5900 GHz	2.6900 GHz	1.000 MHz	2.650333333 GHz	10.98 dBm	-19.02 dB
2	2	2.6900 GHz	2.6910 GHz	1.000 MHz	2.690061667 GHz	-16.59 dBm	-6.586 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691660000 GHz	-23.97 dBm	-13.97 dB
4	4	2.6950 GHz	2.7100 GHz	1.000 MHz	2.697125000 GHz	-28.26 dBm	-15.26 dB
5	5	2.7100 GHz	2.7950 GHz	1.000 MHz	2.711983333 GHz	-30.09 dBm	-5.091 dB

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00086	**PASS**	NV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00072	**PASS**	LV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00136	**PASS**	HV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00152	**PASS**	-30℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00423	**PASS**	-20℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00225	**PASS**	-10℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00135	**PASS**	0℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00153	**PASS**	10℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00427	**PASS**	20℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00183	**PASS**	30℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00148	**PASS**	40℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.00235	**PASS**	50℃

Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	50@0	6.79	13	**PASS**
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	1@0	6.93	13	**PASS**
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	50@0	7.9	13	**PASS**
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	8.41	13	**PASS**
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	50@0	6.87	13	**PASS**
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@0	7.05	13	**PASS**
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	7.97	13	**PASS**
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@0	8.51	13	**PASS**
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	50@0	6.83	13	**PASS**
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@0	7.11	13	**PASS**
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	50@0	7.84	13	**PASS**
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	8.52	13	**PASS**

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH

Spectrum Analyzer 1	
Power Stat CCDF	

KEYSIGHT — Input: RF | Input Z: 50 Ω | Atten: 40 dB | Trig: RF Burst | Center Freq: 2.500020000 GHz
RL — Coupling: DC | Corr CCorr | | Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto | Freq Ref: Int (S) | | IF Gain: Low | Radio Std: None

1 Metrics

Average Power
22.58 dBm
45.35 % at 0 dB

10.0 %	4.05 dB
1.0 %	5.78 dB
0.1 %	6.79 dB
0.01 %	7.33 dB
0.001 %	7.58 dB
0.0001 %	7.63 dB

| Peak | 7.68 dB |
| | 30.26 dBm |

2 Graph — Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz

Aug 29, 2021 10:38:38 PM

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH

Spectrum Analyzer 1	
Power Stat CCDF	

KEYSIGHT — Input: RF | Input Z: 50 Ω | Atten: 40 dB | Trig: RF Burst | Center Freq: 2.500020000 GHz
RL — Coupling: DC | Corr CCorr | | Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto | Freq Ref: Int (S) | | IF Gain: Low | Radio Std: None

1 Metrics

Average Power
19.46 dBm
43.67 % at 0 dB

10.0 %	4.31 dB
1.0 %	5.77 dB
0.1 %	6.93 dB
0.01 %	7.09 dB
0.001 %	7.14 dB
0.0001 %	7.16 dB

| Peak | 7.22 dB |
| | 26.68 dBm |

2 Graph — Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz

Aug 29, 2021 10:39:06 PM

N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

Spectrum Analyzer 1	
Power Stat CCDF	

KEYSIGHT — Input: RF | Input Z: 50 Ω | Atten: 40 dB | Trig: RF Burst | Center Freq: 2.500020000 GHz
RL — Coupling: DC | Corr CCorr | | Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto | Freq Ref: Int (S) | | IF Gain: Low | Radio Std: None

1 Metrics

Average Power
22.10 dBm
41.60 % at 0 dB

10.0 %	4.35 dB
1.0 %	6.64 dB
0.1 %	7.90 dB
0.01 %	8.53 dB
0.001 %	8.85 dB
0.0001 %	9.08 dB

| Peak | 9.16 dB |
| | 31.26 dBm |

2 Graph — Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz

Aug 29, 2021 10:39:44 PM

N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

Spectrum Analyzer 1	
Power Stat CCDF	

KEYSIGHT — Input: RF | Input Z: 50 Ω | Atten: 40 dB | Trig: RF Burst | Center Freq: 2.500020000 GHz
RL — Coupling: DC | Corr CCorr | | Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto | Freq Ref: Int (S) | | IF Gain: Low | Radio Std: None

1 Metrics

Average Power
19.36 dBm
38.58 % at 0 dB

10.0 %	4.76 dB
1.0 %	7.10 dB
0.1 %	8.41 dB
0.01 %	8.67 dB
0.001 %	8.73 dB
0.0001 %	8.75 dB

| Peak | 8.79 dB |
| | 28.15 dBm |

2 Graph — Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz

Aug 29, 2021 10:40:12 PM

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1	
Power Stat CCDF	

KEYSIGHT — Input: RF | Input Z: 50 Ω | Atten: 40 dB | Trig: RF Burst | Center Freq: 2.592960000 GHz
RL — Coupling: DC | Corr CCorr | | Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto | Freq Ref: Int (S) | | IF Gain: Low | Radio Std: None

1 Metrics

Average Power
22.88 dBm
45.22 % at 0 dB

10.0 %	4.06 dB
1.0 %	5.85 dB
0.1 %	6.87 dB
0.01 %	7.39 dB
0.001 %	7.65 dB
0.0001 %	7.70 dB

| Peak | 7.77 dB |
| | 30.65 dBm |

2 Graph — Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz

Aug 29, 2021 10:40:48 PM

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

Spectrum Analyzer 1	
Power Stat CCDF	

KEYSIGHT — Input: RF | Input Z: 50 Ω | Atten: 40 dB | Trig: RF Burst | Center Freq: 2.592960000 GHz
RL — Coupling: DC | Corr CCorr | | Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto | Freq Ref: Int (S) | | IF Gain: Low | Radio Std: None

1 Metrics

Average Power
19.95 dBm
43.42 % at 0 dB

10.0 %	4.32 dB
1.0 %	5.89 dB
0.1 %	7.05 dB
0.01 %	7.21 dB
0.001 %	7.26 dB
0.0001 %	7.30 dB

| Peak | 7.37 dB |
| | 27.32 dBm |

2 Graph — Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz

Aug 29, 2021 10:41:16 PM

N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT · Input: RF · Input Z: 50 Ω · Atten: 40 dB · Trig: RF Burst · Center Freq: 2.592960000 GHz
RL · Coupling: DC · Corr CCorr · Trig Delay: 500.0 µs · Counts: 1.00 M/1.00 Mpt
Align: Auto · Freq Ref: Int (S) · #IF Gain: Low · Radio Std: None

1 Metrics

Average Power
22.38 dBm
41.54 % at 0 dB

10.0 %	4.36 dB
1.0 %	6.68 dB
0.1 %	7.97 dB
0.01 %	8.69 dB
0.001 %	8.96 dB
0.0001 %	9.13 dB
Peak	9.17 dB
	31.55 dBm

2 Graph
Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz
Aug 29, 2021 10:41:58 PM

N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT · Input: RF · Input Z: 50 Ω · Atten: 40 dB · Trig: RF Burst · Center Freq: 2.592960000 GHz
RL · Coupling: DC · Corr CCorr · Trig Delay: 500.0 µs · Counts: 1.00 M/1.00 Mpt
Align: Auto · Freq Ref: Int (S) · #IF Gain: Low · Radio Std: None

1 Metrics

Average Power
19.86 dBm
38.47 % at 0 dB

10.0 %	4.77 dB
1.0 %	7.15 dB
0.1 %	8.51 dB
0.01 %	8.75 dB
0.001 %	8.80 dB
0.0001 %	8.82 dB
Peak	8.87 dB
	28.73 dBm

2 Graph
Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz
Aug 29, 2021 10:42:24 PM

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT · Input: RF · Input Z: 50 Ω · Atten: 40 dB · Trig: RF Burst · Center Freq: 2.679960000 GHz
RL · Coupling: DC · Corr CCorr · Trig Delay: 500.0 µs · Counts: 1.00 M/1.00 Mpt
Align: Auto · Freq Ref: Int (S) · #IF Gain: Low · Radio Std: None

1 Metrics

Average Power
22.56 dBm
45.25 % at 0 dB

10.0 %	4.06 dB
1.0 %	5.83 dB
0.1 %	6.83 dB
0.01 %	7.32 dB
0.001 %	7.56 dB
0.0001 %	7.63 dB
Peak	7.67 dB
	30.23 dBm

2 Graph
Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz
Aug 29, 2021 10:43:02 PM

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT · Input: RF · Input Z: 50 Ω · Atten: 40 dB · Trig: RF Burst · Center Freq: 2.679960000 GHz
RL · Coupling: DC · Corr CCorr · Trig Delay: 500.0 µs · Counts: 1.00 M/1.00 Mpt
Align: Auto · Freq Ref: Int (S) · #IF Gain: Low · Radio Std: None

1 Metrics

Average Power
19.30 dBm
43.44 % at 0 dB

10.0 %	4.33 dB
1.0 %	5.99 dB
0.1 %	7.11 dB
0.01 %	7.23 dB
0.001 %	7.29 dB
0.0001 %	7.31 dB
Peak	7.35 dB
	26.65 dBm

2 Graph
Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz
Aug 29, 2021 10:43:29 PM

N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT · Input: RF · Input Z: 50 Ω · Atten: 40 dB · Trig: RF Burst · Center Freq: 2.679960000 GHz
RL · Coupling: DC · Corr CCorr · Trig Delay: 500.0 µs · Counts: 1.00 M/1.00 Mpt
Align: Auto · Freq Ref: Int (S) · #IF Gain: Low · Radio Std: None

1 Metrics

Average Power
22.08 dBm
41.51 % at 0 dB

10.0 %	4.37 dB
1.0 %	6.64 dB
0.1 %	7.84 dB
0.01 %	8.60 dB
0.001 %	9.09 dB
0.0001 %	9.18 dB
Peak	9.24 dB
	31.32 dBm

2 Graph
Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz
Aug 29, 2021 10:44:08 PM

N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT · Input: RF · Input Z: 50 Ω · Atten: 40 dB · Trig: RF Burst · Center Freq: 2.679960000 GHz
RL · Coupling: DC · Corr CCorr · Trig Delay: 500.0 µs · Counts: 1.00 M/1.00 Mpt
Align: Auto · Freq Ref: Int (S) · #IF Gain: Low · Radio Std: None

1 Metrics

Average Power
19.21 dBm
38.40 % at 0 dB

10.0 %	4.77 dB
1.0 %	7.21 dB
0.1 %	8.52 dB
0.01 %	8.77 dB
0.001 %	8.82 dB
0.0001 %	8.84 dB
Peak	8.89 dB
	28.10 dBm

2 Graph
Gaussian
0.00 dB — 20.00 dB
Info BW 25.000 MHz
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Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
41	30	10	518598	2592.99	DFT-s-OFDM PI/2 BPSK	24@0	8.587	9.343
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	24@0	8.5746	9.31
41	30	10	518598	2592.99	CP-OFDM QPSK	24@0	8.5823	9.465
41	30	10	518598	2592.99	CP-OFDM 16 QAM	24@0	8.5547	9.246
41	30	10	518598	2592.99	CP-OFDM 64 QAM	24@0	8.5847	9.348
41	30	10	518598	2592.99	CP-OFDM 256 QAM	24@0	8.603	9.291
41	30	15	518598	2592.99	DFT-s-OFDM PI/2 BPSK	36@0	12.851	13.92
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	36@0	12.852	13.76
41	30	15	518598	2592.99	CP-OFDM QPSK	38@0	13.568	14.45
41	30	15	518598	2592.99	CP-OFDM 16 QAM	38@0	13.571	14.49
41	30	15	518598	2592.99	CP-OFDM 64 QAM	38@0	13.575	14.42
41	30	15	518598	2592.99	CP-OFDM 256 QAM	38@0	13.564	14.46
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	50@0	17.797	18.9
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	17.776	18.8
41	30	20	518598	2592.99	CP-OFDM QPSK	51@0	18.171	19.31
41	30	20	518598	2592.99	CP-OFDM 16 QAM	51@0	18.2	19.39
41	30	20	518598	2592.99	CP-OFDM 64 QAM	51@0	18.193	19.2
41	30	20	518598	2592.99	CP-OFDM 256 QAM	51@0	18.21	19.36
41	30	30	518598	2592.99	DFT-s-OFDM PI/2 BPSK	75@0	26.746	28.33
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	75@0	26.732	28.33
41	30	30	518598	2592.99	CP-OFDM QPSK	78@0	27.856	29.39
41	30	30	518598	2592.99	CP-OFDM 16 QAM	78@0	27.809	29.73
41	30	30	518598	2592.99	CP-OFDM 64 QAM	78@0	27.889	29.5
41	30	30	518598	2592.99	CP-OFDM 256 QAM	78@0	27.849	29.25

41	30	40	518598	2592.99	DFT-s-OFDM PI/2 BPSK	100@0	35.715	37.21
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	100@0	35.725	37.36
41	30	40	518598	2592.99	CP-OFDM QPSK	106@0	37.8	39.24
41	30	40	518598	2592.99	CP-OFDM 16 QAM	106@0	37.74	39.4
41	30	40	518598	2592.99	CP-OFDM 64 QAM	106@0	37.781	39.49
41	30	40	518598	2592.99	CP-OFDM 256 QAM	106@0	37.759	39.79
41	30	50	518598	2592.99	DFT-s-OFDM PI/2 BPSK	128@0	45.729	47.48
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	128@0	45.744	47.91
41	30	50	518598	2592.99	CP-OFDM QPSK	133@0	47.454	49.34
41	30	50	518598	2592.99	CP-OFDM 16 QAM	133@0	47.472	49.41
41	30	50	518598	2592.99	CP-OFDM 64 QAM	133@0	47.456	49.48
41	30	50	518598	2592.99	CP-OFDM 256 QAM	133@0	47.498	49.6
41	30	60	518598	2592.99	DFT-s-OFDM PI/2 BPSK	162@0	57.865	59.83
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	162@0	57.877	60.01
41	30	60	518598	2592.99	CP-OFDM QPSK	162@0	57.818	60.23
41	30	60	518598	2592.99	CP-OFDM 16 QAM	162@0	57.683	59.9
41	30	60	518598	2592.99	CP-OFDM 64 QAM	162@0	57.946	60.1
41	30	60	518598	2592.99	CP-OFDM 256 QAM	162@0	57.731	59.76
41	30	80	518598	2592.99	DFT-s-OFDM PI/2 BPSK	216@0	77.175	79.88
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	216@0	77.125	79.73
41	30	80	518598	2592.99	CP-OFDM QPSK	217@0	77.38	80.18
41	30	80	518598	2592.99	CP-OFDM 16 QAM	217@0	77.515	80.11
41	30	80	518598	2592.99	CP-OFDM 64 QAM	217@0	77.497	80.12
41	30	80	518598	2592.99	CP-OFDM 256 QAM	217@0	77.649	80.21
41	30	90	518598	2592.99	DFT-s-OFDM PI/2 BPSK	240@0	85.651	88.81
41	30	90	518598	2592.99	DFT-s-OFDM	240@0	85.78	88.63

					QPSK			
41	30	90	518598	2592.99	CP-OFDM QPSK	245@0	87.449	90.29
41	30	90	518598	2592.99	CP-OFDM 16 QAM	245@0	87.398	90.44
41	30	90	518598	2592.99	CP-OFDM 64 QAM	245@0	87.538	90.6
41	30	90	518598	2592.99	CP-OFDM 256 QAM	245@0	87.395	90.35
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	270@0	96.445	99.67
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	270@0	96.256	99.63
41	30	100	518598	2592.99	CP-OFDM QPSK	273@0	97.463	100.5
41	30	100	518598	2592.99	CP-OFDM 16 QAM	273@0	97.407	100.5
41	30	100	518598	2592.99	CP-OFDM 64 QAM	273@0	97.396	100.6
41	30	100	518598	2592.99	CP-OFDM 256 QAM	273@0	97.136	100.6

N41(10M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 300.00 kHz*   Span 20 MHz
#Res BW 100.00 kHz   Sweep 2.53 ms (1001 pts)

2 Metrics

Occupied Bandwidth		
8.5670 MHz	Total Power	32.4 dBm
Transmit Freq Error -9.429 kHz	% of OBW Power	99.00 %
x dB Bandwidth 9.343 MHz	x dB	-26.00 dB

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10:45:24 PM

N41(10M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 300.00 kHz*   Span 20 MHz
#Res BW 100.00 kHz   Sweep 2.53 ms (1001 pts)

2 Metrics

Occupied Bandwidth		
8.5746 MHz	Total Power	31.9 dBm
Transmit Freq Error -15.171 kHz	% of OBW Power	99.00 %
x dB Bandwidth 9.310 MHz	x dB	-26.00 dB

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N41(10M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 300.00 kHz*   Span 20 MHz
#Res BW 100.00 kHz   Sweep 2.53 ms (1001 pts)

2 Metrics

Occupied Bandwidth		
8.5823 MHz	Total Power	29.3 dBm
Transmit Freq Error -15.418 kHz	% of OBW Power	99.00 %
x dB Bandwidth 9.465 MHz	x dB	-26.00 dB

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10:46:05 PM

N41(10M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 300.00 kHz*   Span 20 MHz
#Res BW 100.00 kHz   Sweep 2.53 ms (1001 pts)

2 Metrics

Occupied Bandwidth		
8.5547 MHz	Total Power	29.7 dBm
Transmit Freq Error -11.625 kHz	% of OBW Power	99.00 %
x dB Bandwidth 9.246 MHz	x dB	-26.00 dB

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10:46:19 PM

N41(10M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 300.00 kHz*   Span 20 MHz
#Res BW 100.00 kHz   Sweep 2.53 ms (1001 pts)

2 Metrics

Occupied Bandwidth		
8.5847 MHz	Total Power	29.1 dBm
Transmit Freq Error -15.080 kHz	% of OBW Power	99.00 %
x dB Bandwidth 9.348 MHz	x dB	-26.00 dB

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10:46:33 PM

N41(10M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 300.00 kHz*   Span 20 MHz
#Res BW 100.00 kHz   Sweep 2.53 ms (1001 pts)

2 Metrics

Occupied Bandwidth		
8.6030 MHz	Total Power	26.1 dBm
Transmit Freq Error -20.687 kHz	% of OBW Power	99.00 %
x dB Bandwidth 9.291 MHz	x dB	-26.00 dB

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10:46:50 PM

N41(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N41(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N41(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N41(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N41(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH
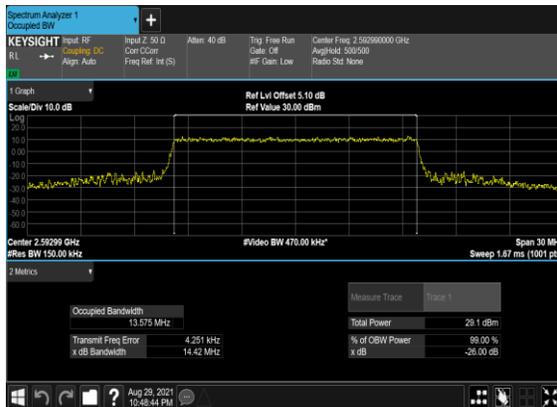
N41(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH
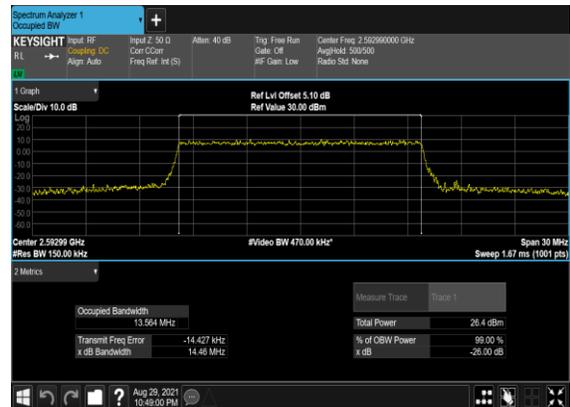
N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH
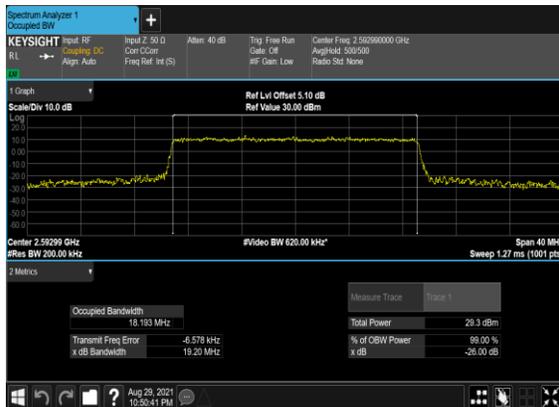

N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

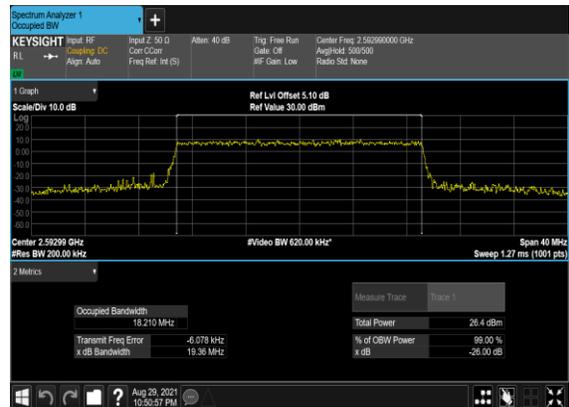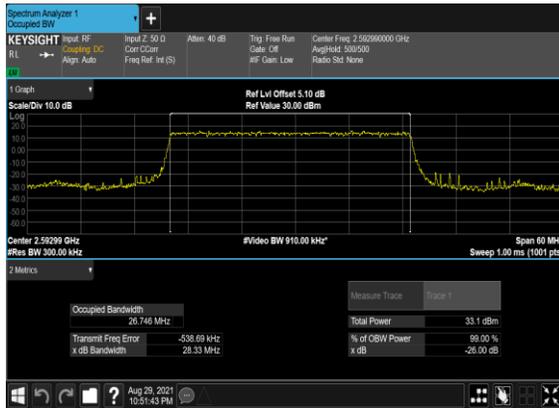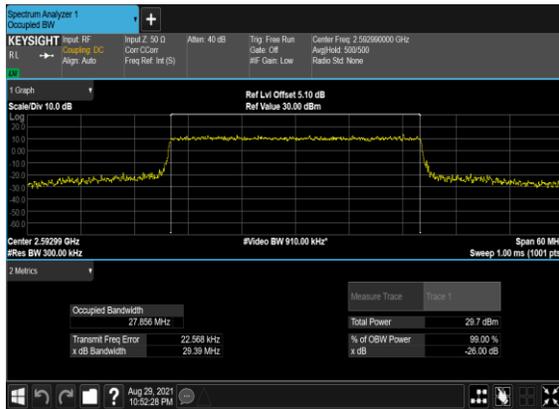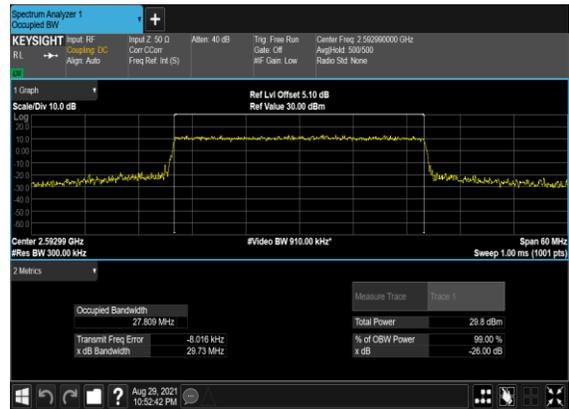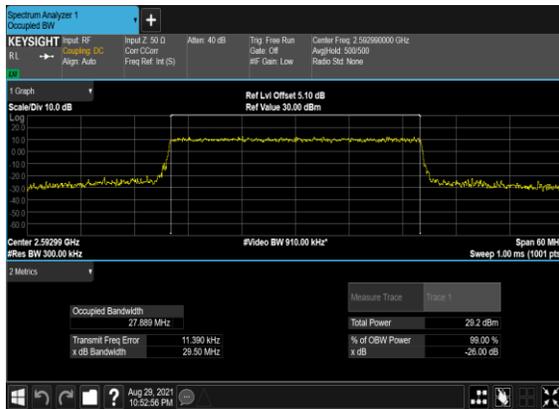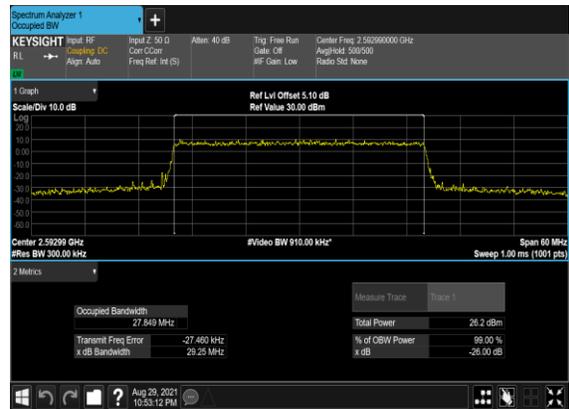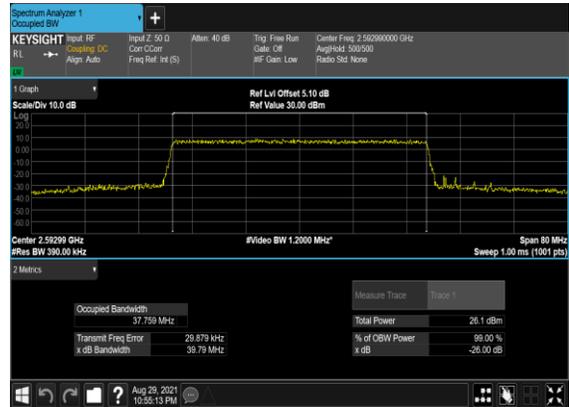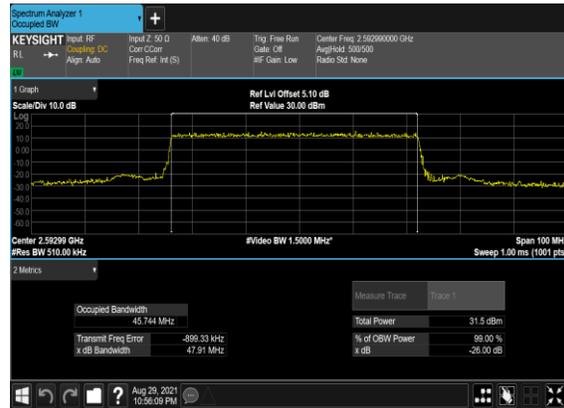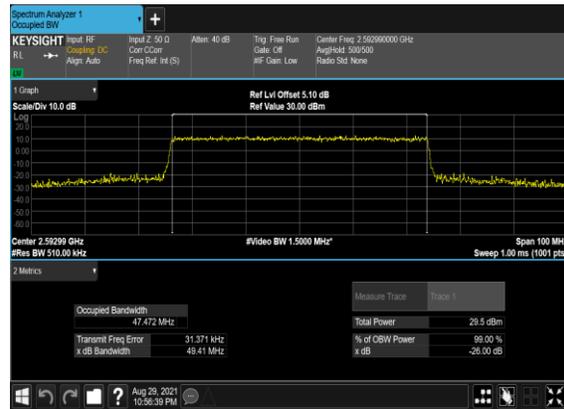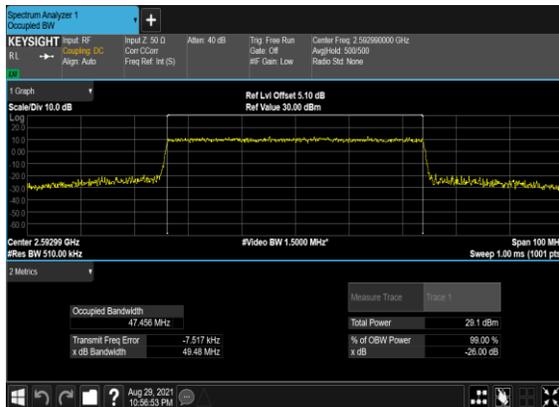
N41(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
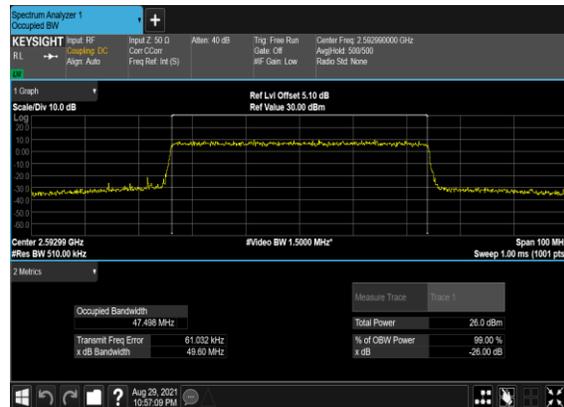

N41(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N41(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N41(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N41(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

Occupied Bandwidth: 26.746 MHz
Total Power: 33.1 dBm
Transmit Freq Error: -538.69 kHz
x dB Bandwidth: 28.33 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

N41(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Occupied Bandwidth: 26.732 MHz
Total Power: 32.5 dBm
Transmit Freq Error: -544.43 kHz
x dB Bandwidth: 28.33 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

N41(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Occupied Bandwidth: 27.856 MHz
Total Power: 29.7 dBm
Transmit Freq Error: 22.568 kHz
x dB Bandwidth: 29.39 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

N41(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Occupied Bandwidth: 27.809 MHz
Total Power: 29.8 dBm
Transmit Freq Error: -8.016 kHz
x dB Bandwidth: 29.73 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

N41(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Occupied Bandwidth: 27.889 MHz
Total Power: 29.2 dBm
Transmit Freq Error: 11.390 kHz
x dB Bandwidth: 29.50 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

N41(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Occupied Bandwidth: 27.849 MHz
Total Power: 26.2 dBm
Transmit Freq Error: -27.460 kHz
x dB Bandwidth: 29.25 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

N41(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N41(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

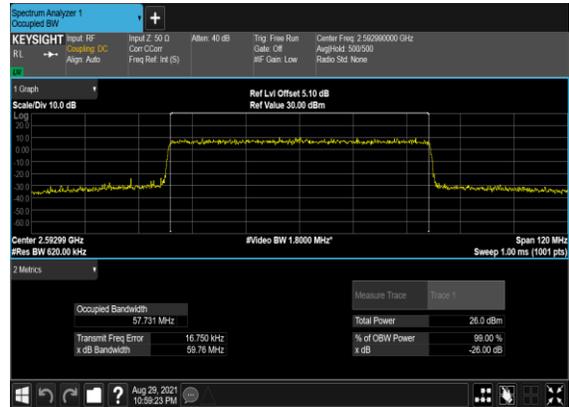## N41(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N41(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N41(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N41(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N41(50M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

Occupied Bandwidth 45.729 MHz — Total Power 32.2 dBm
Transmit Freq Error -900.33 kHz — % of OBW Power 99.00 %
x dB Bandwidth 47.48 MHz — x dB -26.00 dB

N41(50M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Occupied Bandwidth 45.744 MHz — Total Power 31.5 dBm
Transmit Freq Error -899.33 kHz — % of OBW Power 99.00 %
x dB Bandwidth 47.91 MHz — x dB -26.00 dB

N41(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Occupied Bandwidth 47.454 MHz — Total Power 29.5 dBm
Transmit Freq Error -28.064 kHz — % of OBW Power 99.00 %
x dB Bandwidth 49.34 MHz — x dB -26.00 dB

N41(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Occupied Bandwidth 47.472 MHz — Total Power 29.5 dBm
Transmit Freq Error 31.371 kHz — % of OBW Power 99.00 %
x dB Bandwidth 49.41 MHz — x dB -26.00 dB

N41(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Occupied Bandwidth 47.456 MHz — Total Power 29.1 dBm
Transmit Freq Error -7.517 kHz — % of OBW Power 99.00 %
x dB Bandwidth 49.48 MHz — x dB -26.00 dB

N41(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Occupied Bandwidth 47.498 MHz — Total Power 26.0 dBm
Transmit Freq Error 61.032 kHz — % of OBW Power 99.00 %
x dB Bandwidth 49.60 MHz — x dB -26.00 dB

N41(60M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N41(60M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N41(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N41(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N41(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH
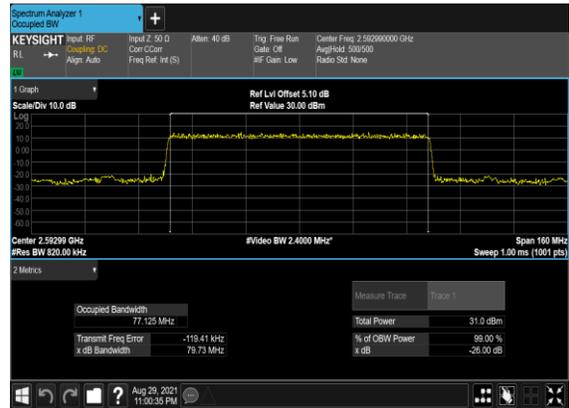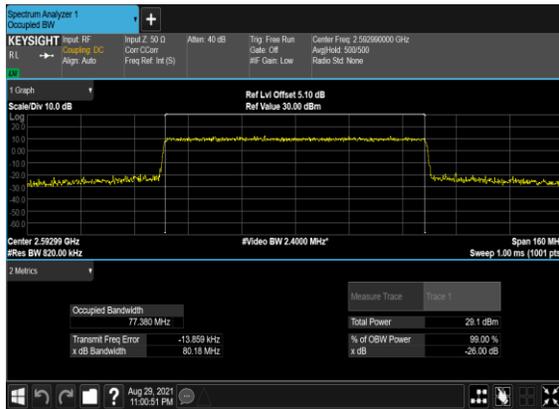

N41(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N41(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

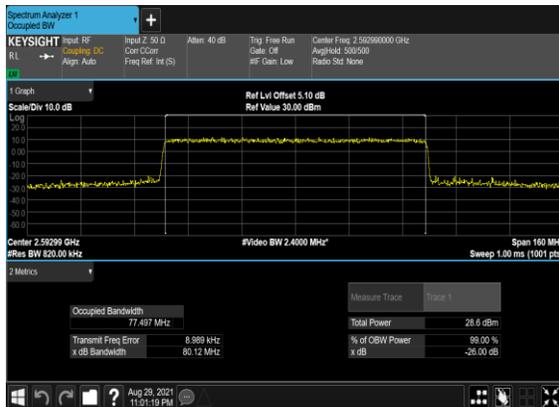## N41(80M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N41(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N41(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N41(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N41(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N41(90M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N41(90M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH
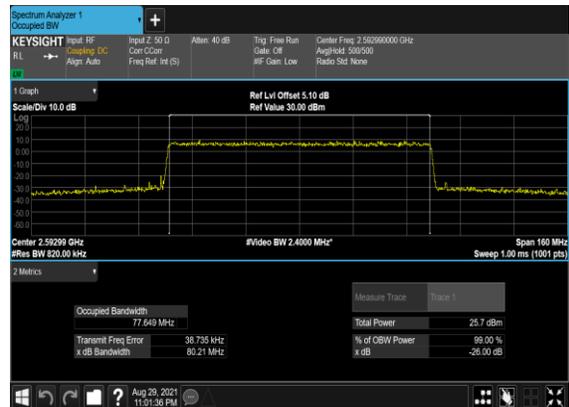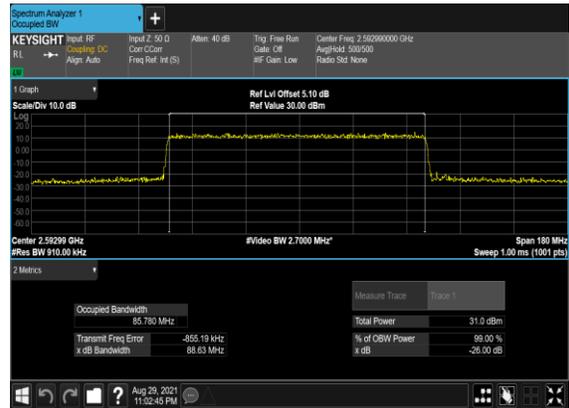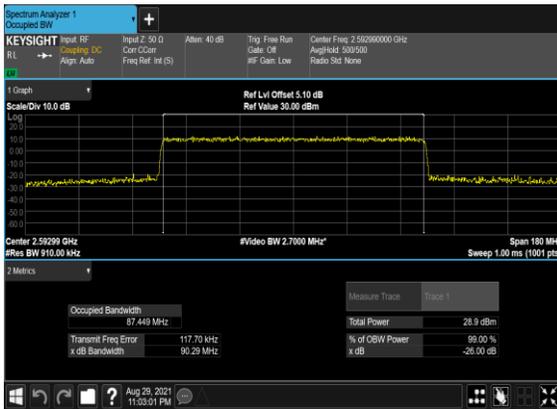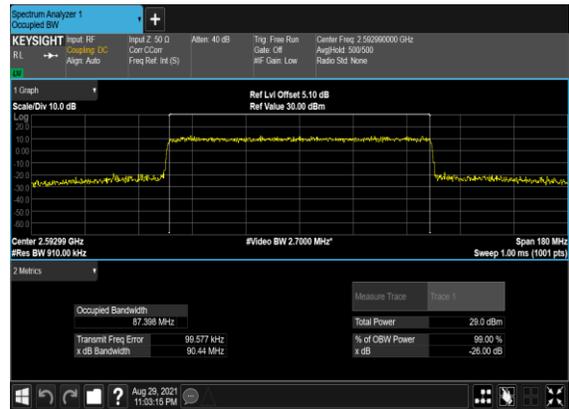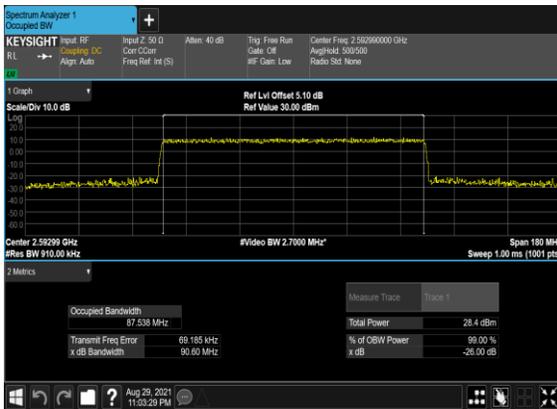

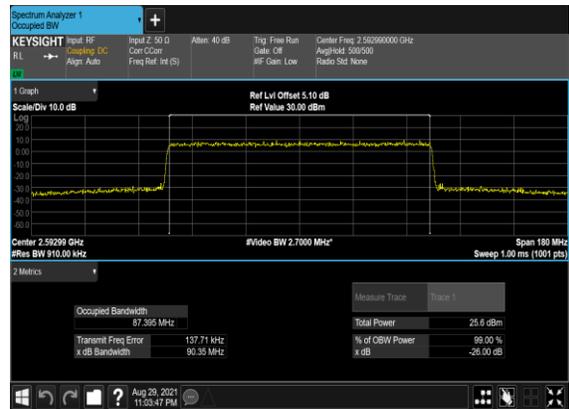## N41(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
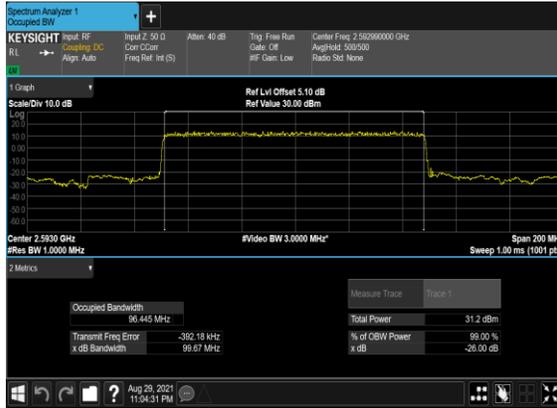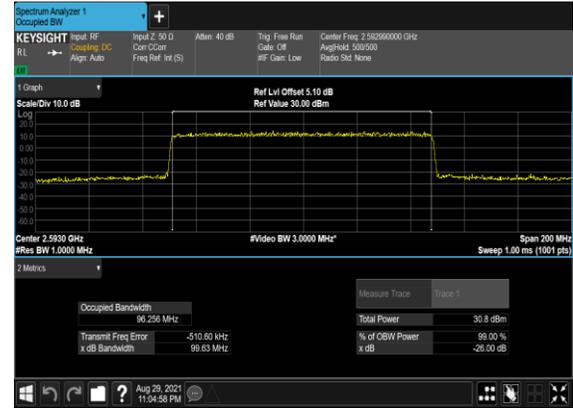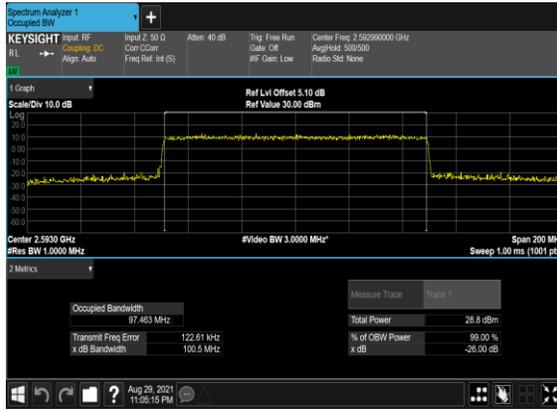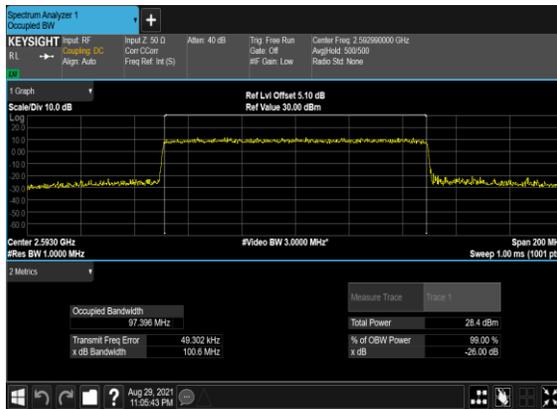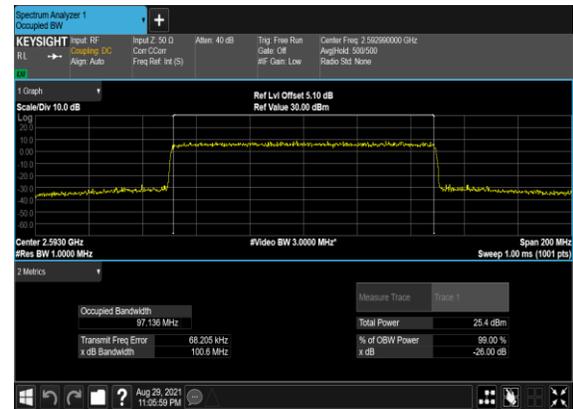

N41(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N41(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N41(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N41(100M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.5930 GHz   #Video BW 3.0000 MHz*   Span 200 MHz
#Res BW 1.0000 MHz   Sweep 1.00 ms (1001 pts)

2 Metrics   Measure Trace   Trace 1

Occupied Bandwidth
96.445 MHz   Total Power   31.2 dBm
Transmit Freq Error   -392.18 kHz % of OBW Power   99.00 %
x dB Bandwidth   99.67 MHz   x dB   -26.00 dB

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11:04:31 PM

N41(100M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.5930 GHz   #Video BW 3.0000 MHz*   Span 200 MHz
#Res BW 1.0000 MHz   Sweep 1.00 ms (1001 pts)

2 Metrics   Measure Trace   Trace 1

Occupied Bandwidth
96.256 MHz   Total Power   30.8 dBm
Transmit Freq Error   -510.60 kHz % of OBW Power   99.00 %
x dB Bandwidth   99.63 MHz   x dB   -26.00 dB

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N41(100M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.5930 GHz   #Video BW 3.0000 MHz*   Span 200 MHz
#Res BW 1.0000 MHz   Sweep 1.00 ms (1001 pts)

2 Metrics   Measure Trace   Trace 1

Occupied Bandwidth
97.463 MHz   Total Power   28.8 dBm
Transmit Freq Error   122.61 kHz   % of OBW Power   99.00 %
x dB Bandwidth   100.5 MHz   x dB   -26.00 dB

Aug 29, 2021
11:05:15 PM

N41(100M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.5930 GHz   #Video BW 3.0000 MHz*   Span 200 MHz
#Res BW 1.0000 MHz   Sweep 1.00 ms (1001 pts)

2 Metrics   Measure Trace   Trace 1

Occupied Bandwidth
97.407 MHz   Total Power   28.8 dBm
Transmit Freq Error   123.95 kHz   % of OBW Power   99.00 %
x dB Bandwidth   100.5 MHz   x dB   -26.00 dB

Aug 29, 2021
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N41(100M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.5930 GHz   #Video BW 3.0000 MHz*   Span 200 MHz
#Res BW 1.0000 MHz   Sweep 1.00 ms (1001 pts)

2 Metrics   Measure Trace   Trace 1

Occupied Bandwidth
97.396 MHz   Total Power   28.4 dBm
Transmit Freq Error   49.302 kHz   % of OBW Power   99.00 %
x dB Bandwidth   100.6 MHz   x dB   -26.00 dB

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11:05:43 PM

N41(100M)_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: 2.592960000 GHz
RL   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   Ref Lvl Offset 5.10 dB
Log   Ref Value 30.00 dBm

Center 2.5930 GHz   #Video BW 3.0000 MHz*   Span 200 MHz
#Res BW 1.0000 MHz   Sweep 1.00 ms (1001 pts)

2 Metrics   Measure Trace   Trace 1

Occupied Bandwidth
97.136 MHz   Total Power   25.4 dBm
Transmit Freq Error   68.205 kHz   % of OBW Power   99.00 %
x dB Bandwidth   100.6 MHz   x dB   -26.00 dB

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Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
41	30	10	500202	2501.01	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	10	500202	2501.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	10	500202	2501.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	10	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	10	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	10	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	10	537000	2685.0	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	10	537000	2685.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	10	537000	2685.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	10	537000	2685.0	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	10	537000	2685.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	10	537000	2685.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	50	504204	2521.02	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	50	504204	2521.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	50	504204	2521.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@0	see graph	---

41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	50	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	50	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	50	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	50	532998	2664.99	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	50	532998	2664.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	50	532998	2664.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	100	509202	2546.01	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	100	509202	2546.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	100	509202	2546.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	100	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	100	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	100	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---

41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	100	528000	2640.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
41	30	100	528000	2640.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	100	528000	2640.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**