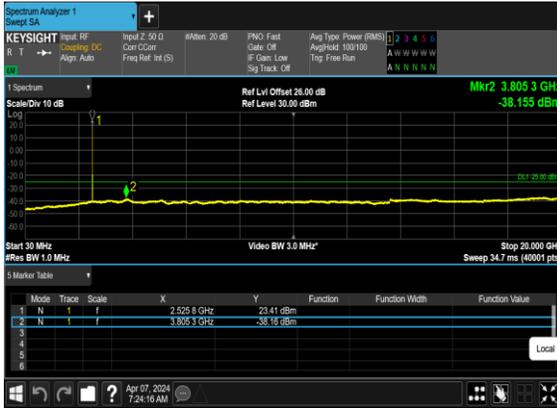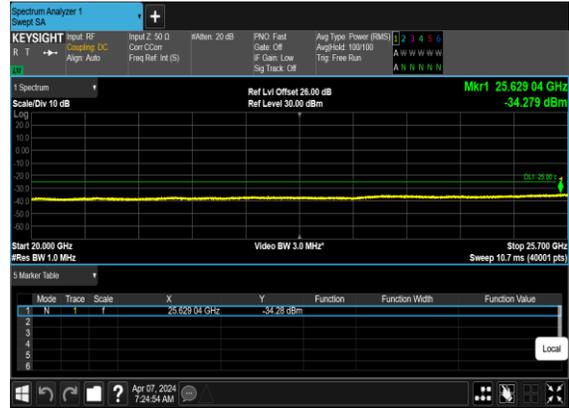## B4_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

B4_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

B4_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

B4_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

B4_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

B4_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH
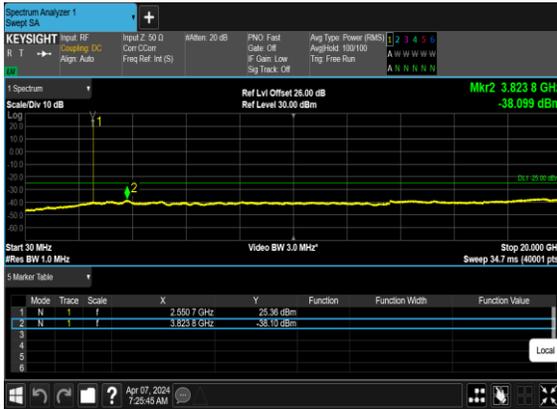

B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH
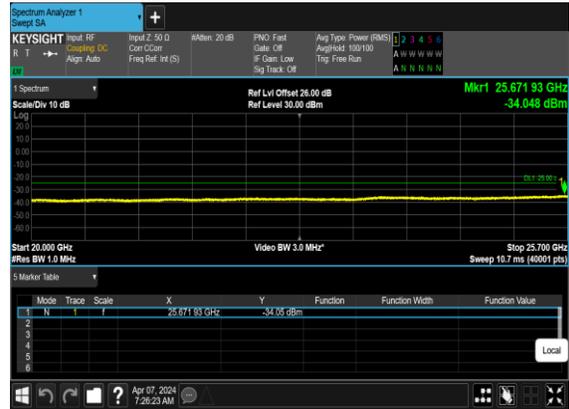

B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH
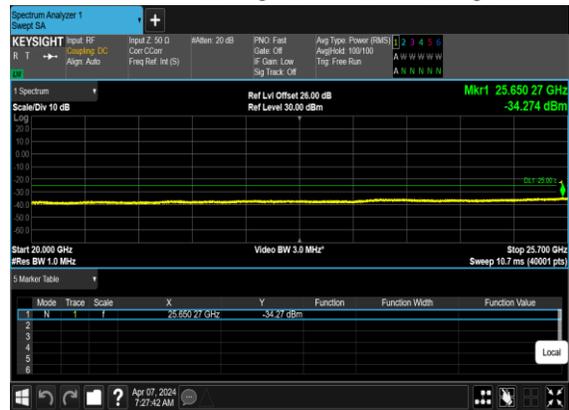

B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

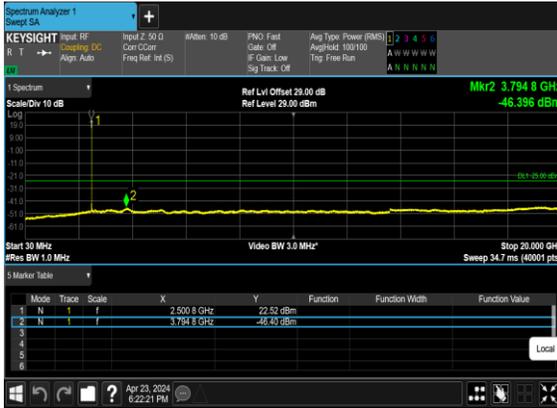## B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

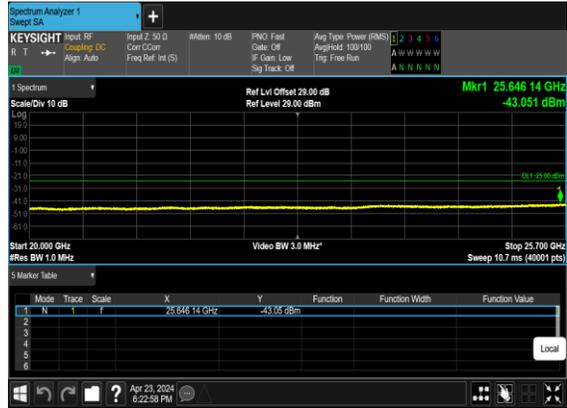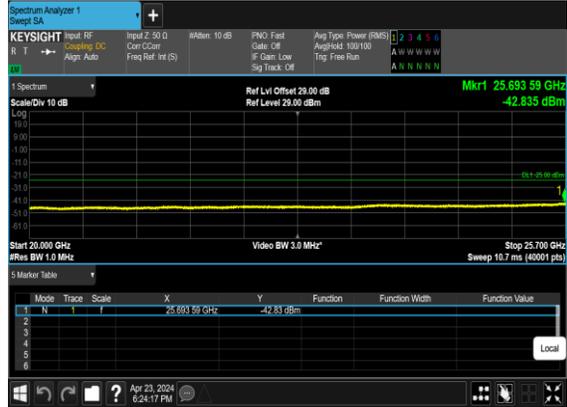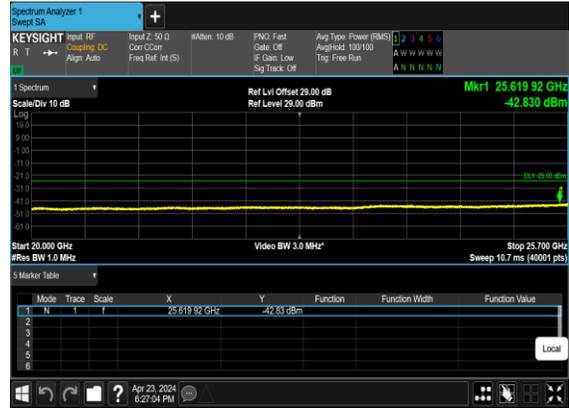## B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

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**

B4_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH
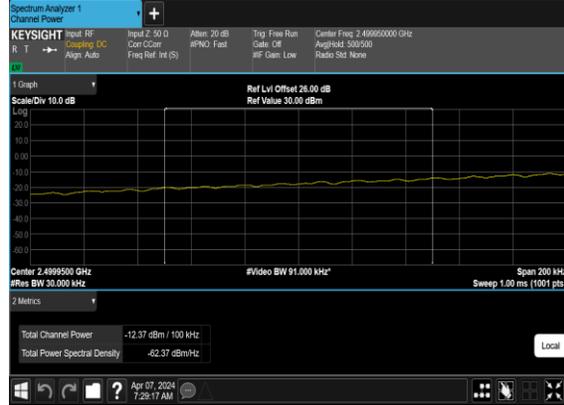
B4_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS

B4_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B4_N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

B4_N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

B4_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

B4_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5200 GHz	2.5700 GHz	100.0 kHz	2.569660667 GHz	19.02 dBm	-10.98 dB
2	2	2.5700 GHz	2.5710 GHz	100.0 kHz	2.570500000 GHz	-14.00 dBm	-4.004 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571586667 GHz	-18.65 dBm	-8.650 dB
4	4	2.5750 GHz	2.5760 GHz	1.000 MHz	2.575816333 GHz	-38.05 dBm	-25.05 dB
5	5	2.5760 GHz	2.6300 GHz	1.000 MHz	2.578610000 GHz	-42.99 dBm	-17.99 dB

B4_N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5200 GHz	2.5700 GHz	100.0 kHz	2.565083333 GHz	6.075 dBm	-23.93 dB
2	2	2.5700 GHz	2.5710 GHz	100.0 kHz	2.570003333 GHz	-18.56 dBm	-8.565 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571060000 GHz	-23.77 dBm	-13.77 dB
4	4	2.5750 GHz	2.5760 GHz	1.000 MHz	2.575106667 GHz	-37.38 dBm	-24.38 dB
5	5	2.5760 GHz	2.6300 GHz	1.000 MHz	2.576270000 GHz	-39.25 dBm	-14.25 dB

B4_N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5200 GHz	2.5700 GHz	100.0 kHz	2.565833333 GHz	4.804 dBm	-25.20 dB
2	2	2.5700 GHz	2.5710 GHz	100.0 kHz	2.570011667 GHz	-21.20 dBm	-11.20 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571213333 GHz	-26.10 dBm	-16.10 dB
4	4	2.5750 GHz	2.5760 GHz	1.000 MHz	2.575148333 GHz	-35.99 dBm	-22.99 dB
5	5	2.5760 GHz	2.6300 GHz	1.000 MHz	2.576360000 GHz	-37.55 dBm	-12.55 dB

B4_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.4400 GHz	2.4905 GHz	1.000 MHz	2.488921667 GHz	-43.89 dBm	-18.89 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.495080000 GHz	-38.32 dBm	-25.32 dB
3	3	2.4960 GHz	2.4990 GHz	1.000 MHz	2.499000000 GHz	-24.19 dBm	-14.19 dB
4	4	2.4990 GHz	2.5000 GHz	430.0 kHz	2.499995000 GHz	-7.069 dBm	2.931 dB
5	5	2.5000 GHz	2.5100 GHz	100.0 kHz	2.500533333 GHz	-22.19 dBm	-7.810 dB

B4_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS

Total Channel Power	-20.35 dBm / 430 kHz
Total Power Spectral Density	-76.69 dBm/Hz

B4_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B4_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS
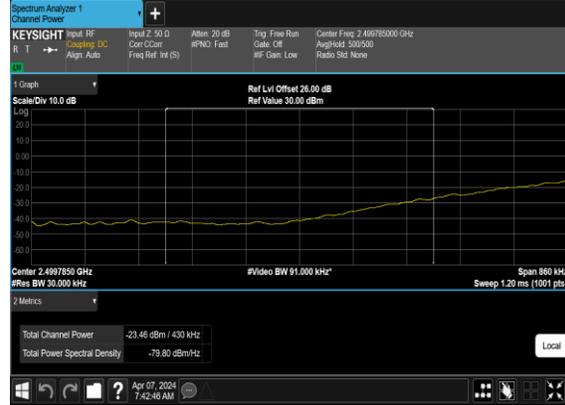
B4_N7(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

B4_N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

B4_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

B4_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

B4_N7(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

B4_N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PAS

B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH
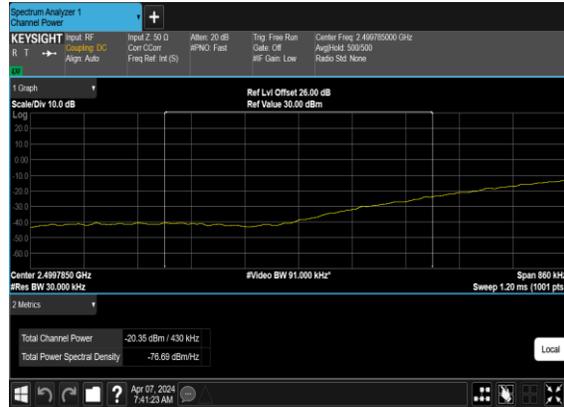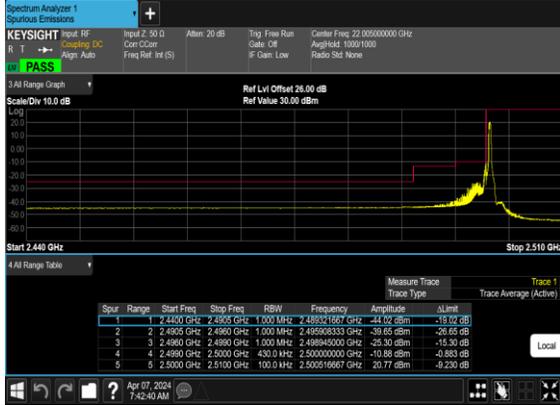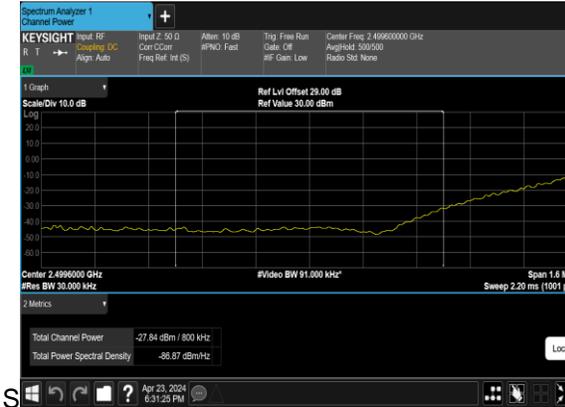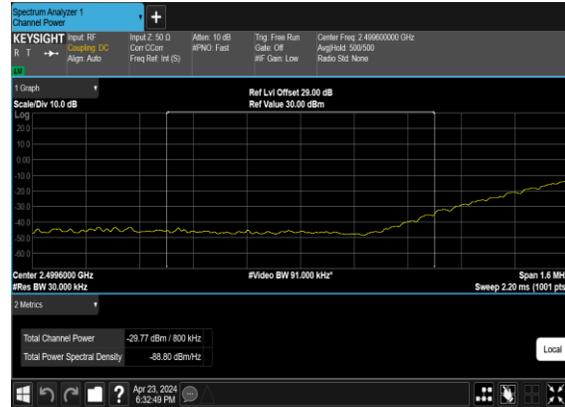

B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS
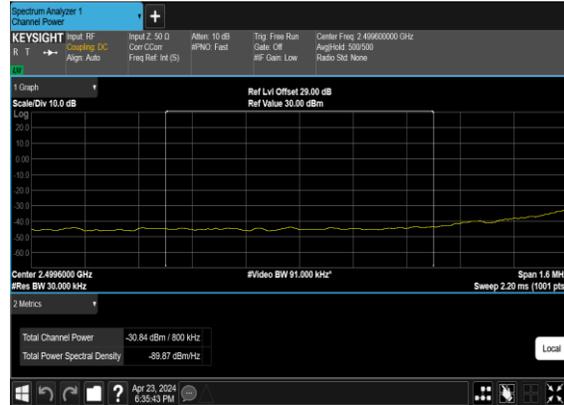
B4_N7(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

Spectrum Analyzer 1 — Spurious Emissions

KEYSIGHT — Input: RF, Coupling: DC, Align: Auto, Corr CCorr, Freq Ref: Int (S), Atten: 10 dB, Trig: Free Run, Gate: Off, IF Gain: Low, Center Freq 22.005000000 GHz, AvgHold: 1000/1000, Radio Std: None

FAIL

3 All Range Graph — Scale/Div 10.0 dB — Ref Lvl Offset 29.00 dB — Ref Value 30.00 dBm

Start 2.440 GHz — Stop 2.510 GHz

4 All Range Table — Measure Trace / Trace Type — Trace 1 — 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	-34.17 dBm	-9.170 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.491902500 GHz	-31.91 dBm	-18.91 dB
3	3	2.4960 GHz	2.4990 GHz	1.000 MHz	2.498995000 GHz	-30.30 dBm	-20.30 dB
4	4	2.4990 GHz	2.5000 GHz	820.0 kHz	2.500000000 GHz	-7.854 dBm F	2.146 dB
5	5	2.5000 GHz	2.5100 GHz	100.0 kHz	2.504183333 GHz	-2.959 dBm	-32.96 dB

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B4_N7(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH_CHP_PASS

Spectrum Analyzer 1 — Channel Power

KEYSIGHT — Input: RF, Coupling: DC, Align: Auto, Corr CCorr, Freq Ref: Int (S), Atten: 10 dB, #PNO: Fast, Trig: Free Run, Gate: Off, IF Gain: Low, Center Freq 2.499600000 GHz, AvgHold: 500/500, Radio Std: None

1 Graph — Scale/Div 10.0 dB — Ref Lvl Offset 29.00 dB — Ref Value 30.00 dBm

Center 2.4996000 GHz — #Res BW 30.000 kHz — #Video BW 91.000 kHz* — Span 1.6 MHz — Sweep 2.20 ms (1001 pts)

2 Metrics

Total Channel Power	-29.95 dBm / 800 kHz
Total Power Spectral Density	-88.99 dBm/Hz

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B4_N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

Spectrum Analyzer 1 — Spurious Emissions

KEYSIGHT — Input: RF, Coupling: DC, Align: Auto, Corr CCorr, Freq Ref: Int (S), Atten: 10 dB, Trig: Free Run, Gate: Off, IF Gain: Low, Center Freq 22.005000000 GHz, AvgHold: 1000/1000, Radio Std: None

FAIL

3 All Range Graph — Scale/Div 10.0 dB — Ref Lvl Offset 29.00 dB — Ref Value 30.00 dBm

Start 2.440 GHz — Stop 2.510 GHz

4 All Range Table — Measure Trace / Trace Type — Trace 1 — 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	-32.51 dBm	-7.515 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.491820000 GHz	-30.84 dBm	-17.84 dB
3	3	2.4960 GHz	2.4990 GHz	1.000 MHz	2.498845000 GHz	-31.08 dBm	-21.08 dB
4	4	2.4990 GHz	2.5000 GHz	820.0 kHz	2.500000000 GHz	-8.128 dBm F	1.872 dB
5	5	2.5000 GHz	2.5100 GHz	100.0 kHz	2.506650000 GHz	-3.739 dBm	-33.74 dB

Apr 23, 2024 6:35:36 PM

B4_N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS

Spectrum Analyzer 1 — Channel Power

KEYSIGHT — Input: RF, Coupling: DC, Align: Auto, Corr CCorr, Freq Ref: Int (S), Atten: 10 dB, #PNO: Fast, Trig: Free Run, Gate: Off, IF Gain: Low, Center Freq 2.499600000 GHz, AvgHold: 500/500, Radio Std: None

1 Graph — Scale/Div 10.0 dB — Ref Lvl Offset 29.00 dB — Ref Value 30.00 dBm

Center 2.4996000 GHz — #Res BW 30.000 kHz — #Video BW 91.000 kHz* — Span 1.6 MHz — Sweep 2.20 ms (1001 pts)

2 Metrics

Total Channel Power	-30.84 dBm / 800 kHz
Total Power Spectral Density	-89.87 dBm/Hz

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B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

Spectrum Analyzer 1 — Spurious Emissions

KEYSIGHT — Input: RF, Coupling: DC, Align: Auto, Corr CCorr, Freq Ref: Int (S), Atten: 10 dB, Trig: Free Run, Gate: Off, IF Gain: Low, Center Freq 22.005000000 GHz, AvgHold: 1000/1000, Radio Std: None

FAIL

3 All Range Graph — Scale/Div 10.0 dB — Ref Lvl Offset 29.00 dB — Ref Value 30.00 dBm

Start 2.520 GHz — Stop 2.630 GHz

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

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5200 GHz	2.5700 GHz	100.0 kHz	2.569333333 GHz	18.39 dBm	-11.61 dB
2	2	2.5700 GHz	2.5710 GHz	820.0 kHz	2.570000000 GHz	13.21 dBm F	23.21 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571040000 GHz	-27.46 dBm	-17.46 dB
4	4	2.5750 GHz	2.6100 GHz	1.000 MHz	2.576225000 GHz	-47.97 dBm	-34.97 dB
5	5	2.6100 GHz	2.6300 GHz	1.000 MHz	2.622600000 GHz	-53.07 dBm	-28.07 dB

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B4_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS

Spectrum Analyzer 1 — Channel Power

KEYSIGHT — Input: RF, Coupling: DC, Align: Auto, Corr CCorr, Freq Ref: Int (S), Atten: 10 dB, #PNO: Fast, Trig: Free Run, Gate: Off, IF Gain: Low, Center Freq 2.570400000 GHz, AvgHold: 500/500, Radio Std: None

1 Graph — Scale/Div 10.0 dB — Ref Lvl Offset 29.00 dB — Ref Value 30.00 dBm

Center 2.5704000 GHz — #Res BW 30.000 kHz — #Video BW 91.000 kHz* — Span 1.6 MHz — Sweep 2.20 ms (1001 pts)

2 Metrics

Total Channel Power	-30.62 dBm / 800 kHz
Total Power Spectral Density	-89.65 dBm/Hz

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B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

B4_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH CHP_PASS

B4_N7(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

B4_N7(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH_CHP_PASS

B4_N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

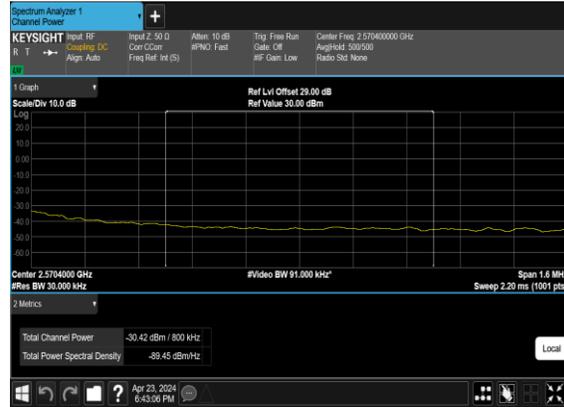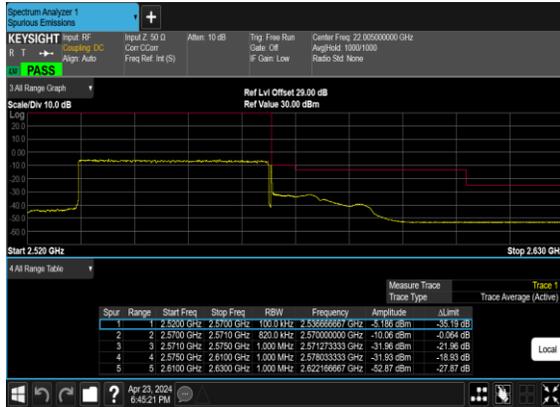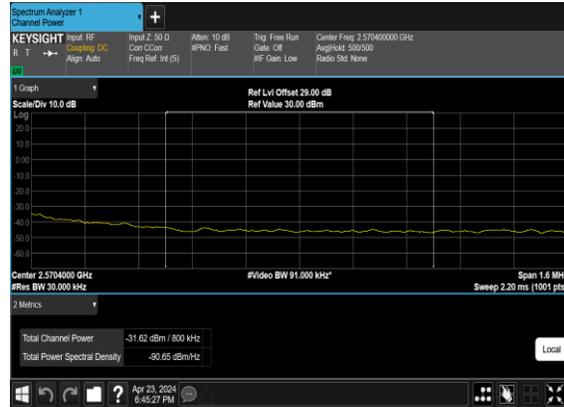## B4_N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH_CHP_PASS

FR1 N7(Ant.0) - Other PA

LTE Band: 66(Ant.6), LTE BW: 10M, LTE ARFCN: Mid

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	507000	2535.0	DFT-s-OFDM QPS	100@0	0.00014	PASS	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00140	**PASS**	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00412	**PASS**	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00322	**PASS**	-30℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00213	**PASS**	-20℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00125	**PASS**	-10℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00134	**PASS**	0℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00214	**PASS**	10℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00241	**PASS**	20℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00350	**PASS**	30℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00412	**PASS**	40℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.00390	**PASS**	50℃

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	3.73	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	1@0	3.77	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	4.86	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	4.79	13	**PASS**

B66_N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

B66_N7(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

B66_N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4778	5.105
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4793	5.116
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4808	5.081
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.465	5.007
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2615	9.891
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2885	9.959
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2584	9.937
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.2913	10.18
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.111	14.94
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.12	14.92
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.087	14.94
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.084	14.81
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.902	19.91
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.93	19.73
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.901	19.76
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.956	19.82
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.701	24.7
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.803	24.79
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.79	24.75
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.78	24.7
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.6	29.72
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.59	30.15
7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.544	29.71
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.608	29.67
7	15	35	507000	2535.0	CP-OFDM QPSK	188@0	33.518	34.77
7	15	35	507000	2535.0	CP-OFDM 16 QAM	188@0	33.554	35.32

7	15	35	507000	2535.0	CP-OFDM 64 QAM	188@0	33.503	34.67
7	15	35	507000	2535.0	CP-OFDM 256 QAM	188@0	33.623	34.66
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.562	39.95
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.572	40.0
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.582	39.87
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.578	39.87

B66_N7(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

B66_N7(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH
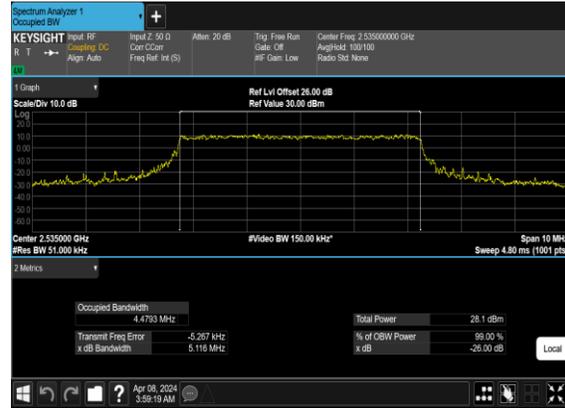
B66_N7(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

B66_N7(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

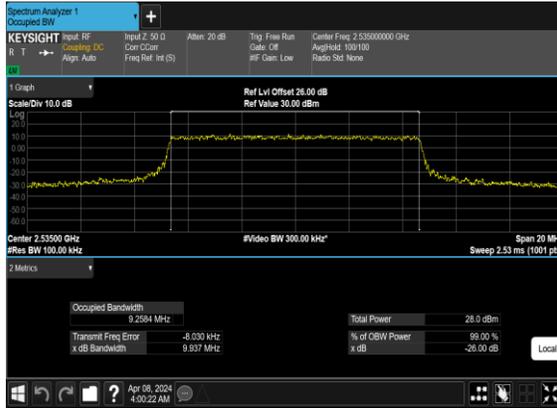## B66_N7(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

B66_N7(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

B66_N7(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 20 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 100/100
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB Ref Lvl Offset 26.00 dB
Log Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 300.00 kHz* Span 20 MHz
#Res BW 100.00 kHz Sweep 2.53 ms (1001 pts)

2 Metrics

Occupied Bandwidth	9.2584 MHz	Total Power	28.0 dBm
Transmit Freq Error	-8.030 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.937 MHz	x dB	-26.00 dB

Apr 08, 2024 4:00:22 AM

B66_N7(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 20 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 100/100
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB Ref Lvl Offset 26.00 dB
Log Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 300.00 kHz* Span 20 MHz
#Res BW 100.00 kHz Sweep 2.53 ms (1001 pts)

2 Metrics

Occupied Bandwidth	9.2913 MHz	Total Power	24.9 dBm
Transmit Freq Error	-14.143 kHz	% of OBW Power	99.00 %
x dB Bandwidth	10.18 MHz	x dB	-26.00 dB

Apr 08, 2024 4:00:33 AM

B66_N7(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 20 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 100/100
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB Ref Lvl Offset 26.00 dB
Log Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 470.00 kHz* Span 30 MHz
#Res BW 150.00 kHz Sweep 1.67 ms (1001 pts)

2 Metrics

Occupied Bandwidth	14.111 MHz	Total Power	28.7 dBm
Transmit Freq Error	-1.611 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.94 MHz	x dB	-26.00 dB

Apr 08, 2024 4:00:55 AM

B66_N7(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 20 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 100/100
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB Ref Lvl Offset 26.00 dB
Log Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 470.00 kHz* Span 30 MHz
#Res BW 150.00 kHz Sweep 1.67 ms (1001 pts)

2 Metrics

Occupied Bandwidth	14.120 MHz	Total Power	28.5 dBm
Transmit Freq Error	18.473 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.92 MHz	x dB	-26.00 dB

Apr 08, 2024 4:01:05 AM

B66_N7(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 20 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 100/100
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB Ref Lvl Offset 26.00 dB
Log Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 470.00 kHz* Span 30 MHz
#Res BW 150.00 kHz Sweep 1.67 ms (1001 pts)

2 Metrics

Occupied Bandwidth	14.087 MHz	Total Power	28.0 dBm
Transmit Freq Error	2.874 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.94 MHz	x dB	-26.00 dB

Apr 08, 2024 4:01:14 AM

B66_N7(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 20 dB Trig: Free Run Center Freq: 2.535000000 GHz
R T Coupling: DC Corr CCorr Gate: Off Avg|Hold: 100/100
Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
Scale/Div 10.0 dB Ref Lvl Offset 26.00 dB
Log Ref Value 30.00 dBm

Center 2.53500 GHz #Video BW 470.00 kHz* Span 30 MHz
#Res BW 150.00 kHz Sweep 1.67 ms (1001 pts)

2 Metrics

Occupied Bandwidth	14.084 MHz	Total Power	25.0 dBm
Transmit Freq Error	-2.133 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.81 MHz	x dB	-26.00 dB

Apr 08, 2024 4:01:25 AM

B66_N7(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

B66_N7(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

B66_N7(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH
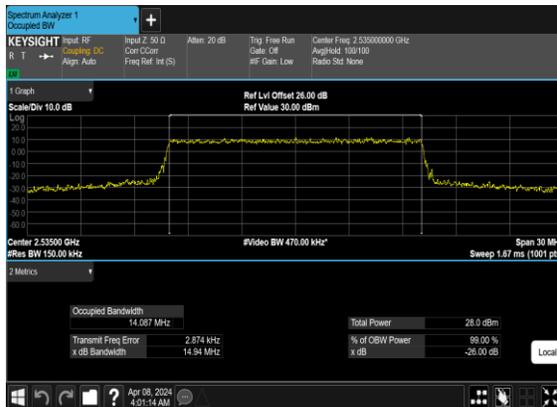

B66_N7(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH
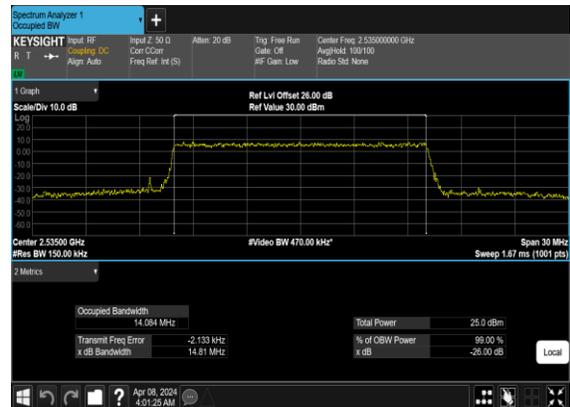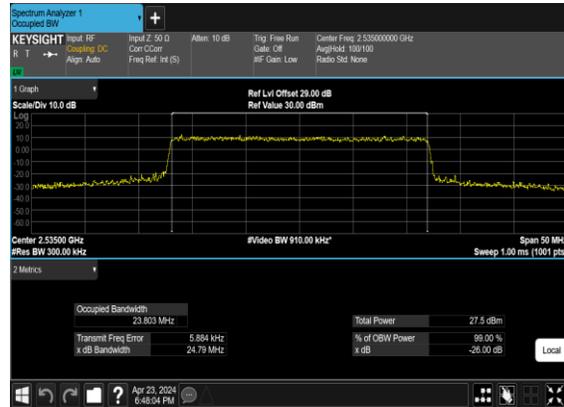

B66_N7(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

B66_N7(25M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

B66_N7(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

B66_N7(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

B66_N7(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

B66_N7(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

B66_N7(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

B66_N7(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH
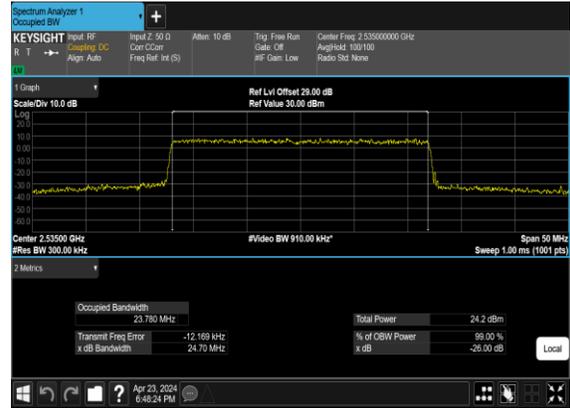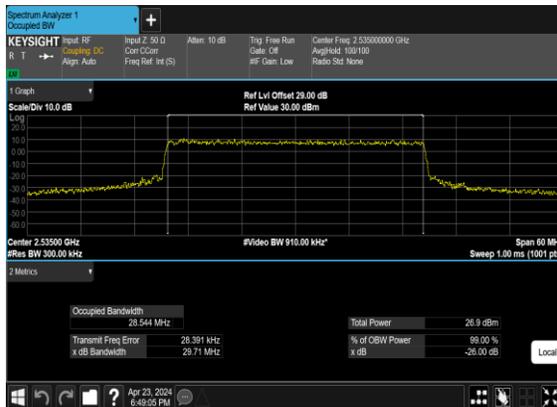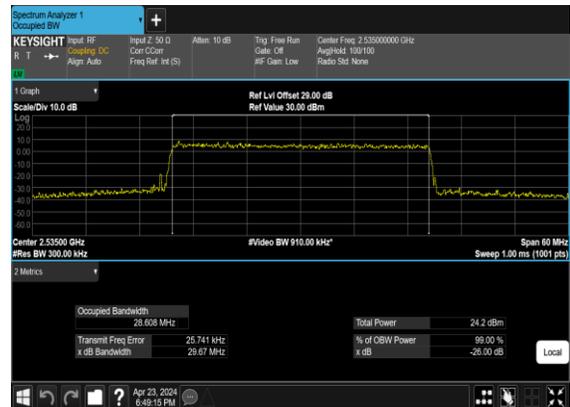
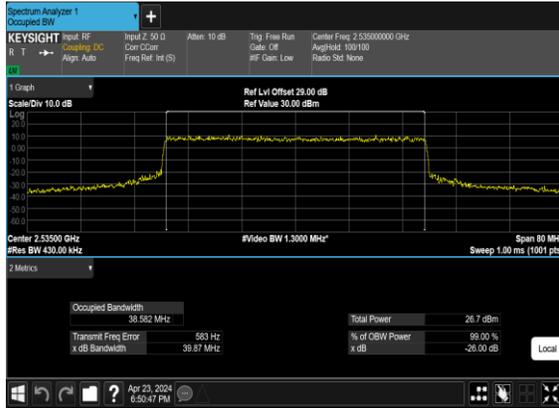## B66_N7(35M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 10 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100
                Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 29.00 dB
Log   Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 1.1000 MHz*   Span 70 MHz
#Res BW 360.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth
33.518 MHz   Total Power   27.5 dBm
Transmit Freq Error   12.309 kHz   % of OBW Power   99.00 %
x dB Bandwidth   34.77 MHz   x dB   -26.00 dB   Local

Apr 23, 2024
6:49:37 PM

B66_N7(35M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 10 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100
                Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 29.00 dB
Log   Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 1.1000 MHz*   Span 70 MHz
#Res BW 360.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth
33.554 MHz   Total Power   27.5 dBm
Transmit Freq Error   9.561 kHz   % of OBW Power   99.00 %
x dB Bandwidth   35.32 MHz   x dB   -26.00 dB   Local

Apr 23, 2024
6:49:47 PM

B66_N7(35M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 10 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100
                Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 29.00 dB
Log   Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 1.1000 MHz*   Span 70 MHz
#Res BW 360.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth
33.503 MHz   Total Power   26.8 dBm
Transmit Freq Error   -12.152 kHz   % of OBW Power   99.00 %
x dB Bandwidth   34.67 MHz   x dB   -26.00 dB   Local

Apr 23, 2024
6:49:56 PM

B66_N7(35M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 10 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100
                Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 29.00 dB
Log   Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 1.1000 MHz*   Span 70 MHz
#Res BW 360.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth
33.623 MHz   Total Power   24.3 dBm
Transmit Freq Error   32.608 kHz   % of OBW Power   99.00 %
x dB Bandwidth   34.66 MHz   x dB   -26.00 dB   Local

Apr 23, 2024
6:50:06 PM

B66_N7(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 10 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100
                Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 29.00 dB
Log   Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 1.3000 MHz*   Span 80 MHz
#Res BW 430.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth
38.562 MHz   Total Power   27.4 dBm
Transmit Freq Error   -8.704 kHz   % of OBW Power   99.00 %
x dB Bandwidth   39.95 MHz   x dB   -26.00 dB   Local

Apr 23, 2024
6:50:28 PM

B66_N7(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 10 dB   Trig: Free Run   Center Freq: 2.535000000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100
                Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 29.00 dB
Log   Ref Value 30.00 dBm

Center 2.53500 GHz   #Video BW 1.3000 MHz*   Span 80 MHz
#Res BW 430.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth
38.572 MHz   Total Power   27.4 dBm
Transmit Freq Error   -16.729 kHz   % of OBW Power   99.00 %
x dB Bandwidth   40.00 MHz   x dB   -26.00 dB   Local

Apr 23, 2024
6:50:37 PM

B66_N7(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

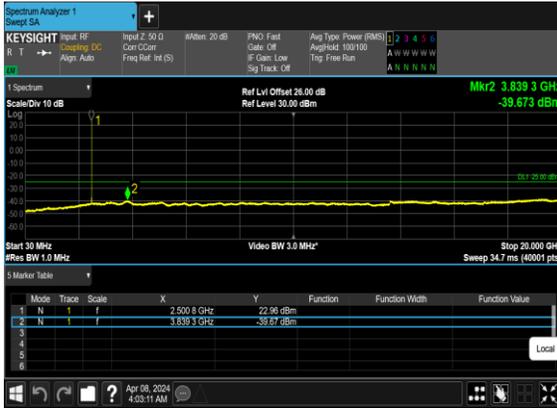## B66_N7(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

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**

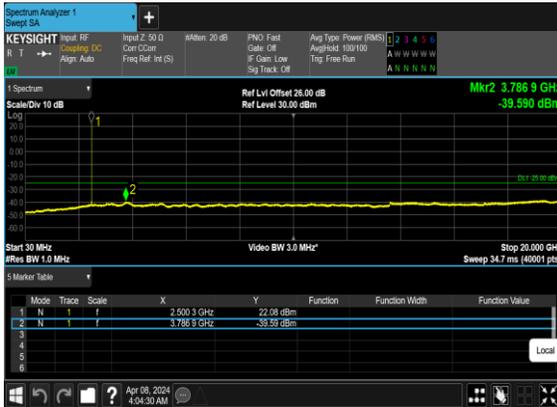|								
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
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**

B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH
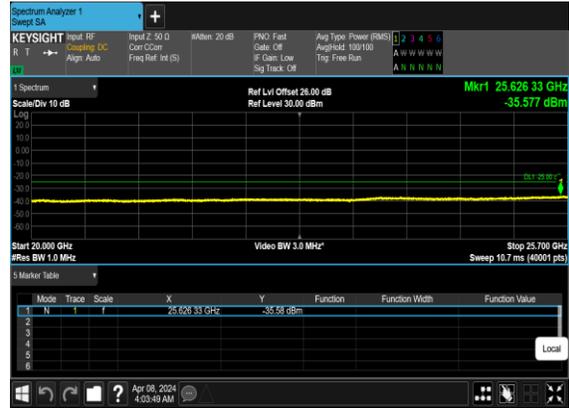
B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH
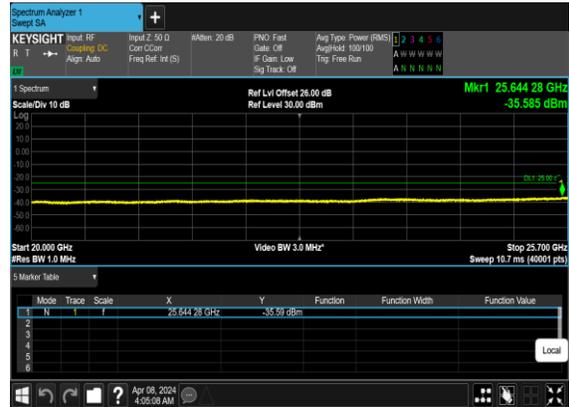
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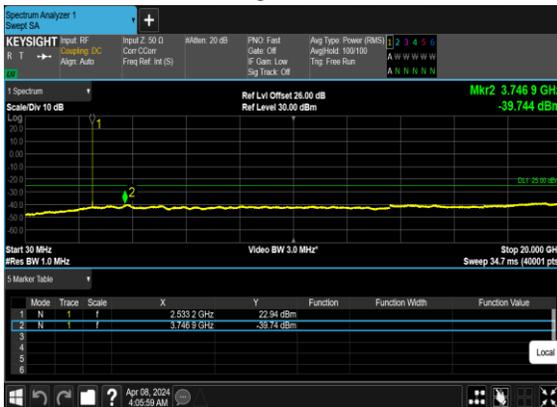
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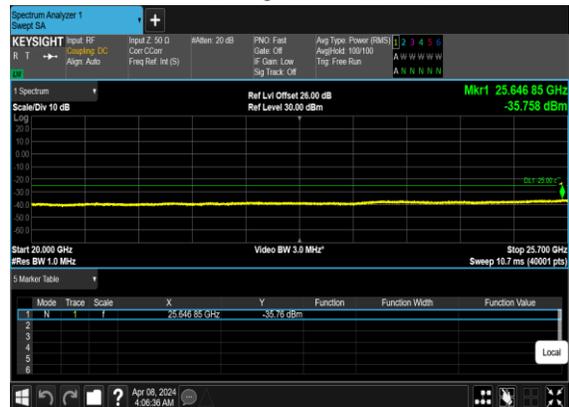
B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH
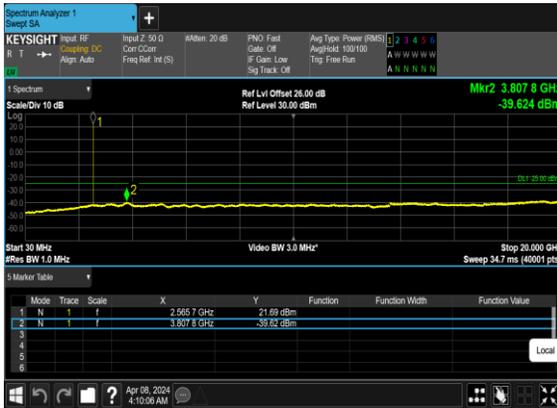

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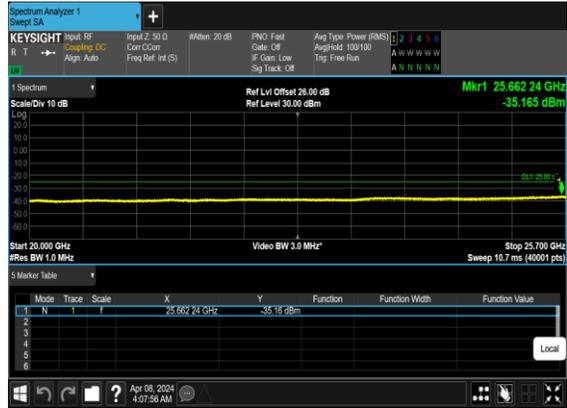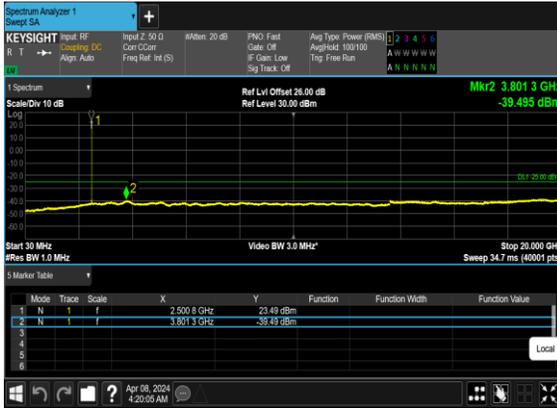

B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH
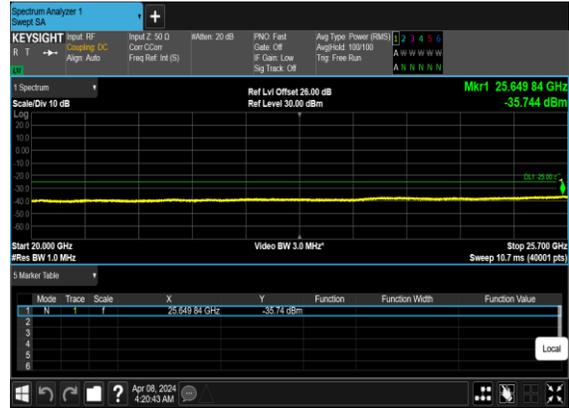

B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

B66_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

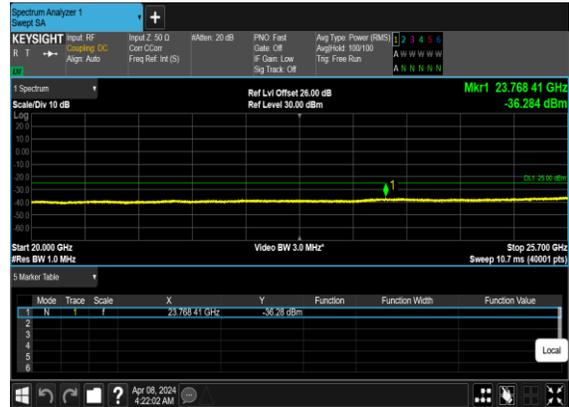## B66_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B66_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

B66_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH