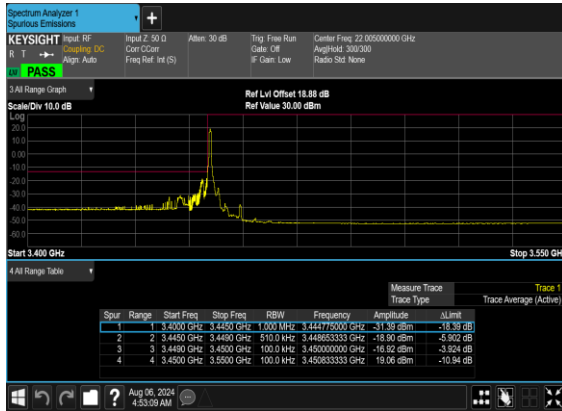
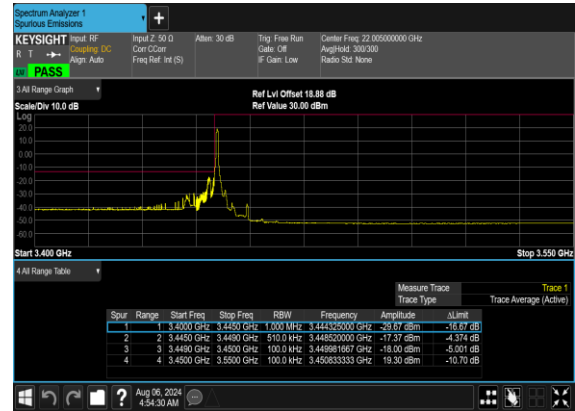




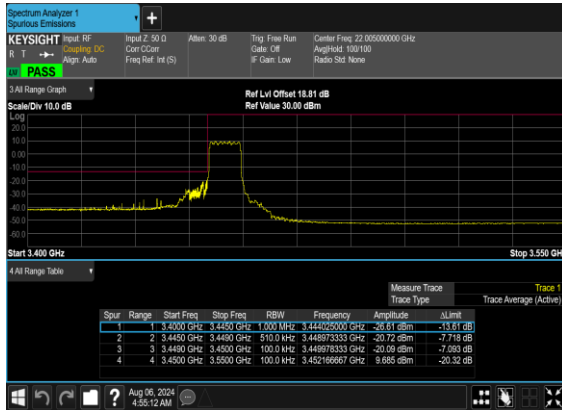
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



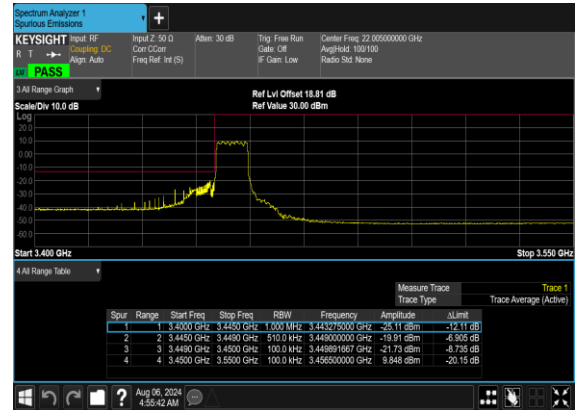
N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH

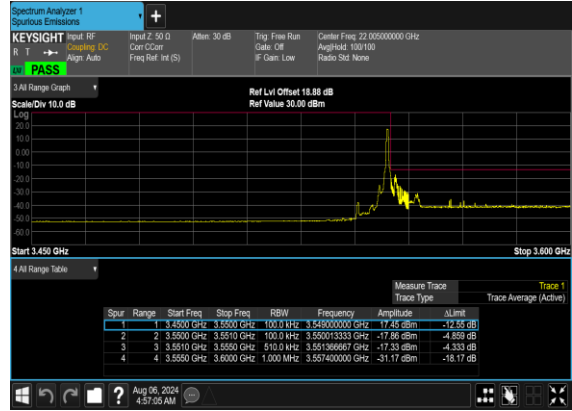




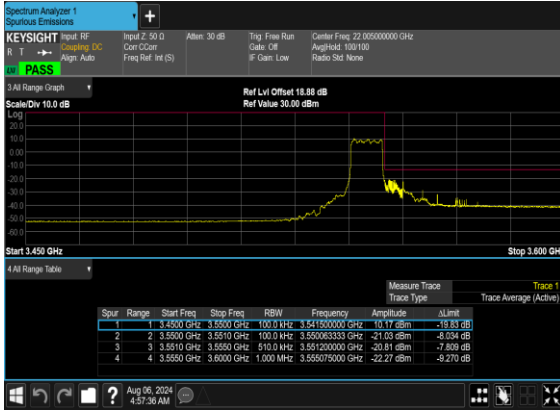
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH

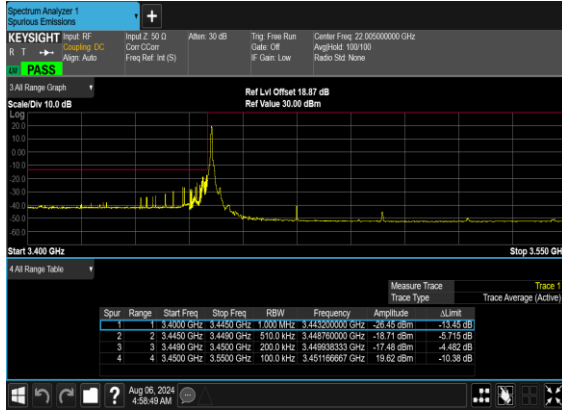


N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH





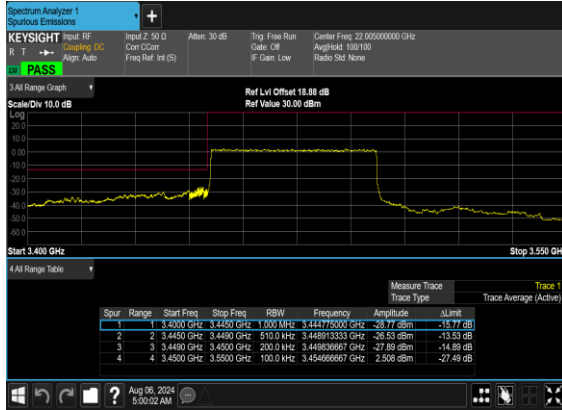
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



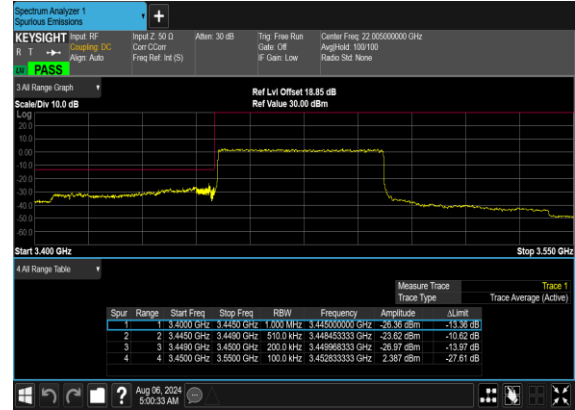
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH

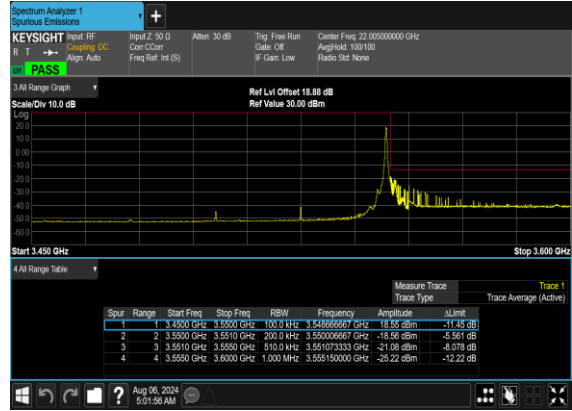




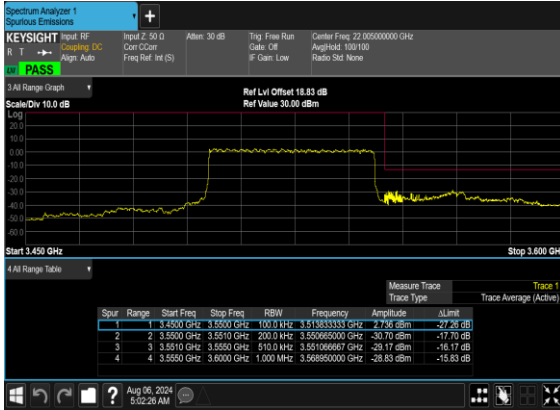
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



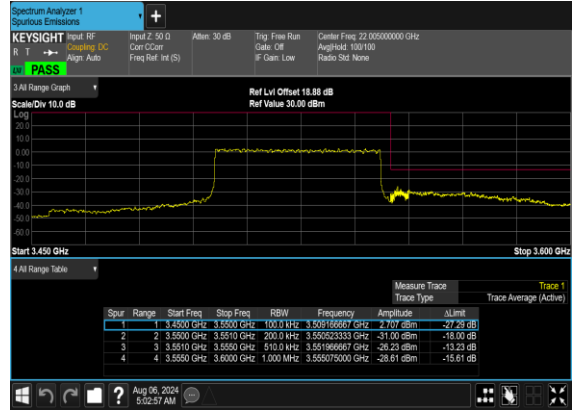
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH

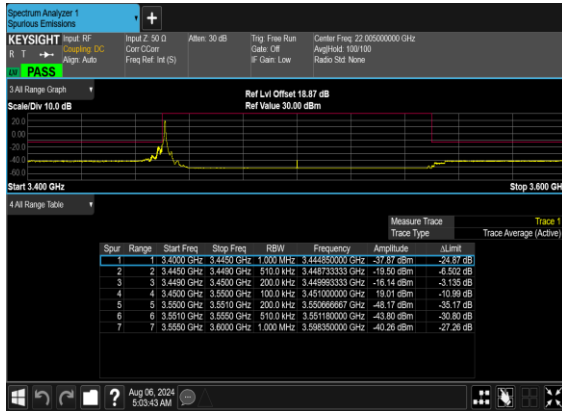


N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH

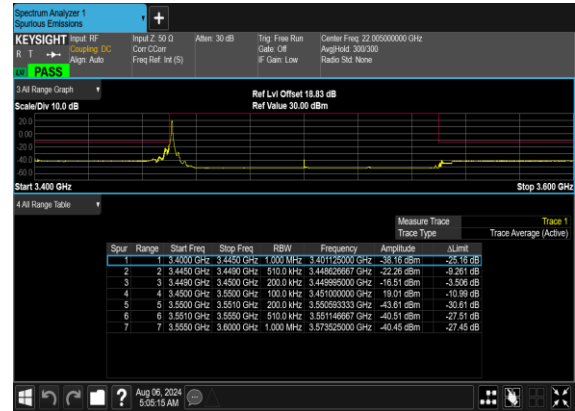




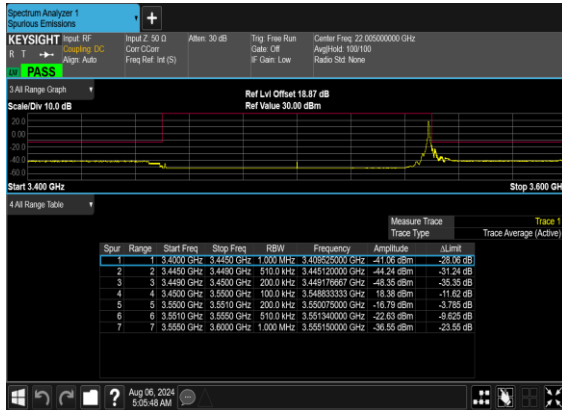
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



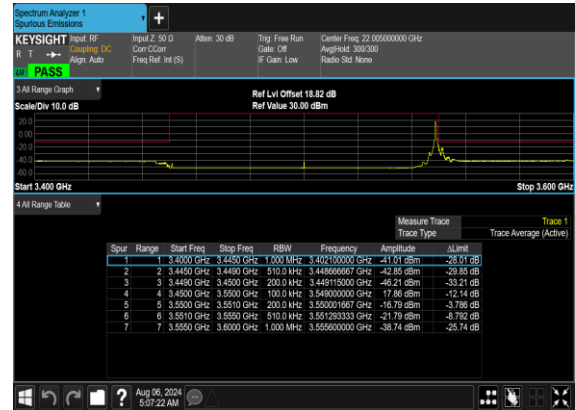
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_Mid\_CH

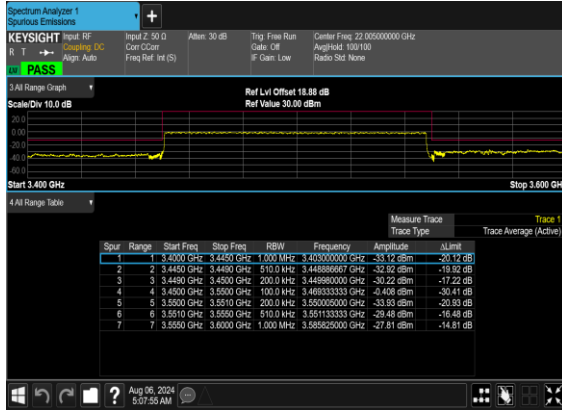


N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH

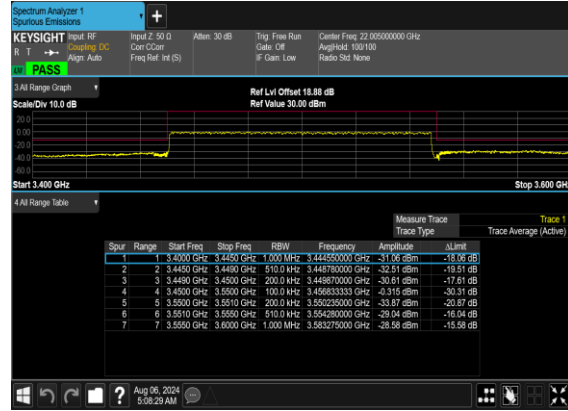




N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Mid\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH





# FR1 N77 MIMO-ANT7

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0040	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0027	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0037	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0034	PASS	-30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0061	PASS	-20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0029	PASS	-10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0025	PASS	0°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0052	PASS	10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0040	PASS	20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0067	PASS	30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0056	PASS	40°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0064	PASS	50°C



### Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.06	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	4.96	13	PASS

N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH







### Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5712	9.862
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5832	9.543
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5418	9.839
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5921	9.479
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.579	14.69
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.603	14.94
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.585	14.53
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.579	14.7
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.223	19.3
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.222	19.28
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.189	19.27
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.203	19.3
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.199	24.7
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.207	24.49
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.232	25.85
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.29	25.19
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.817	29.21
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.903	29.38
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.9	29.67
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.867	28.95
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.808	39.46
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.862	39.37
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.797	39.49
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.792	39.25
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.574	49.09
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.611	49.31
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.538	49.08
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.56	49.4
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.871	59.85



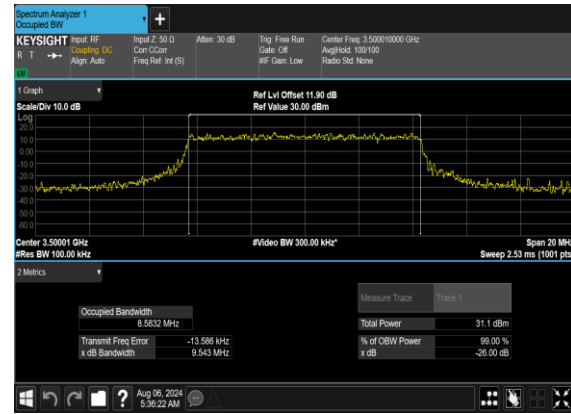
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.816	59.93
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.761	60.27
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.825	59.94
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.664	69.82
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.483	69.73
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.536	69.87
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.516	69.71
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.524	79.87
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.581	80.08
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.473	80.1
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.413	80.0
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.48	90.28
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.454	90.21
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.335	90.22
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.324	90.38
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.801	100.8
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.476	100.6
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.511	100.3
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.618	100.6



N77(10M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



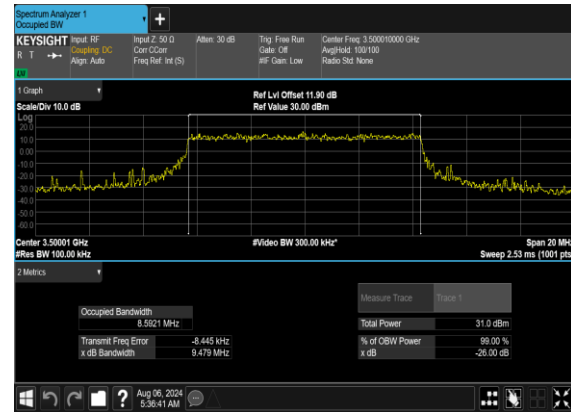
N77(10M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(10M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N77(10M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH





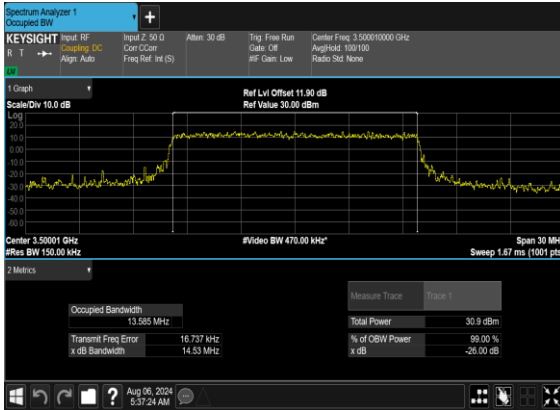
N77(15M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



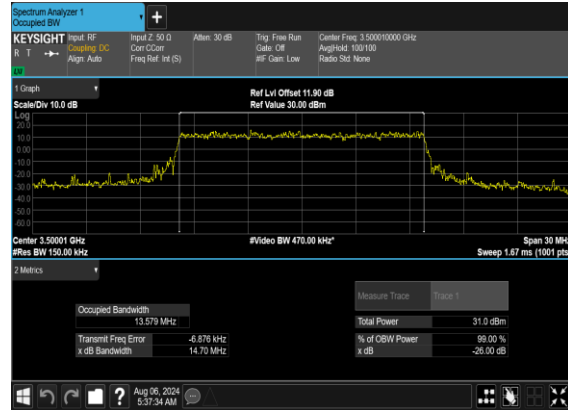
N77(15M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(15M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

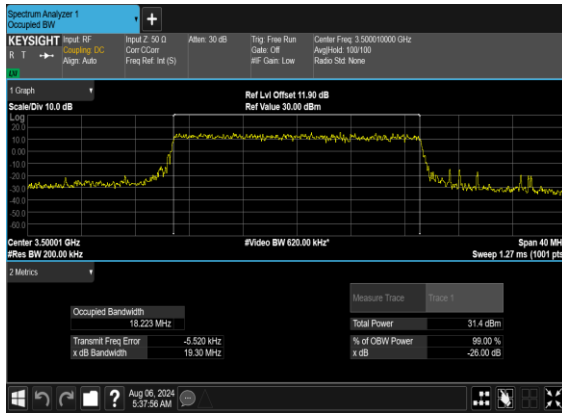


N77(15M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH





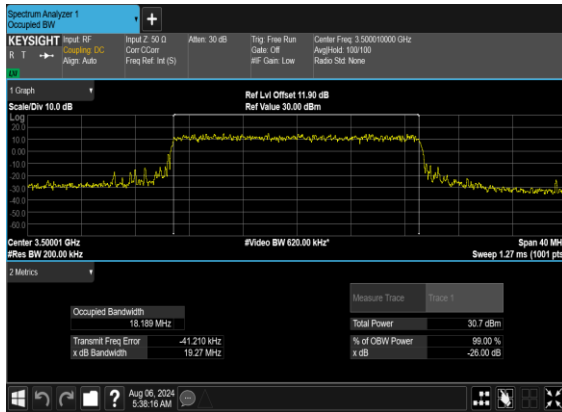
N77(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



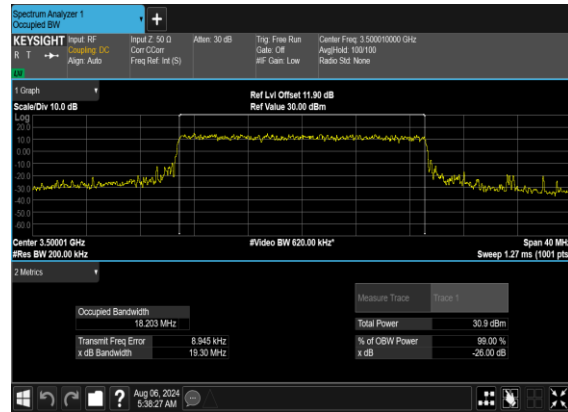
N77(20M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH

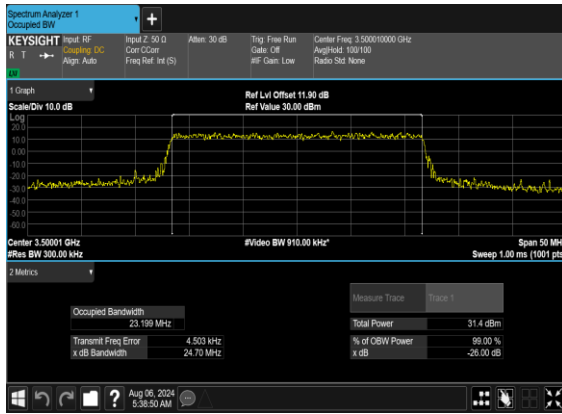


N77(20M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH





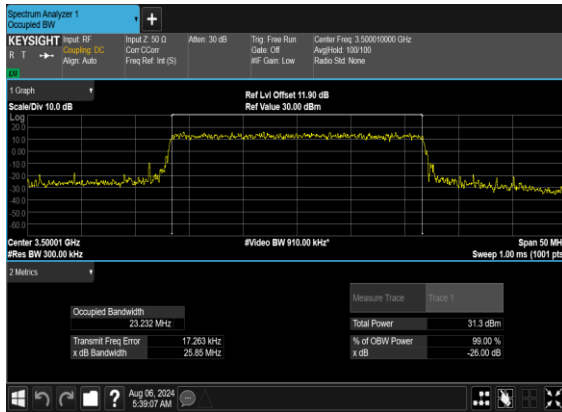
N77(25M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



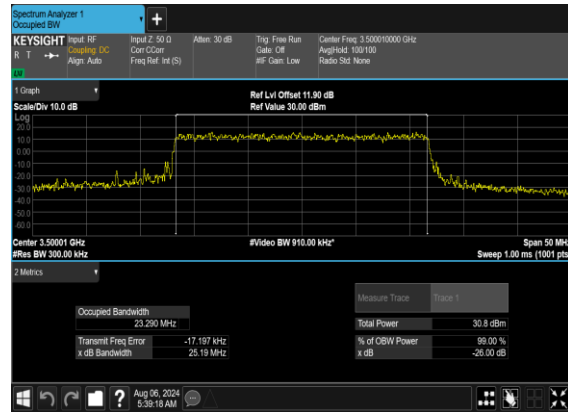
N77(25M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(25M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N77(25M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

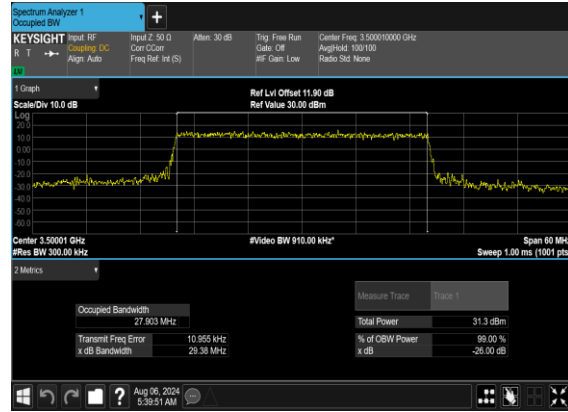




N77(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



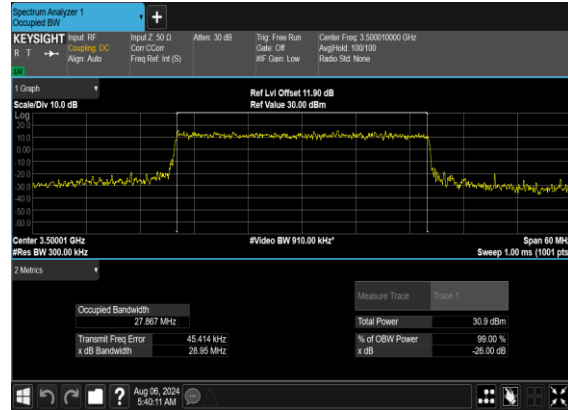
N77(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

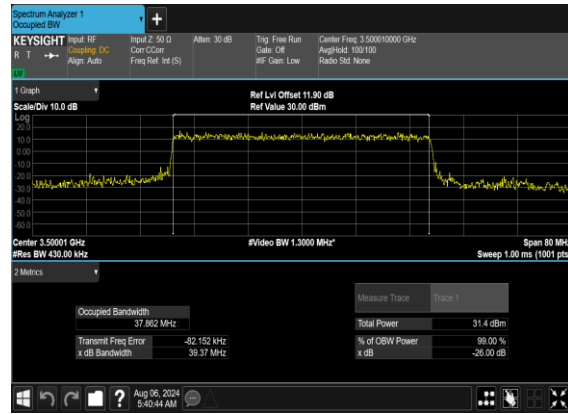




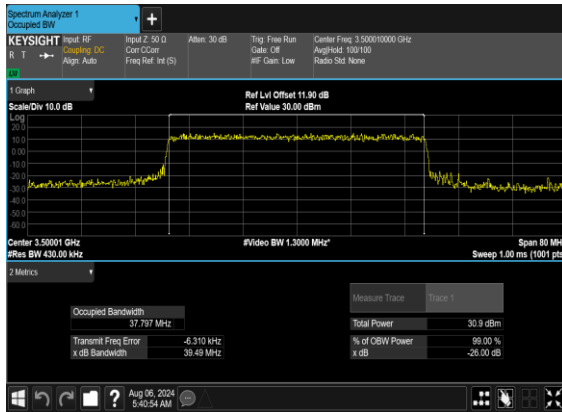
N77(40M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



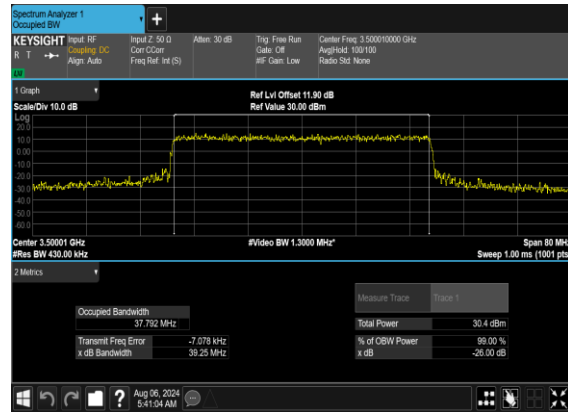
N77(40M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(40M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N77(40M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



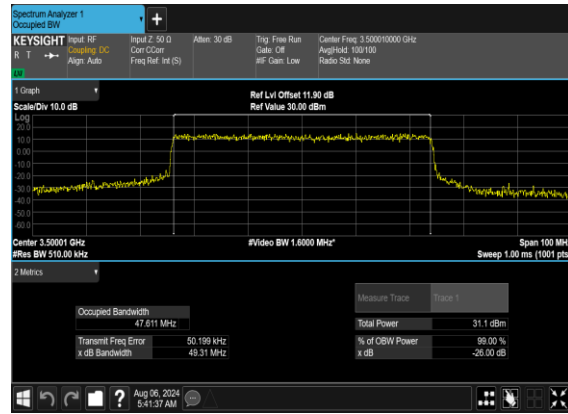




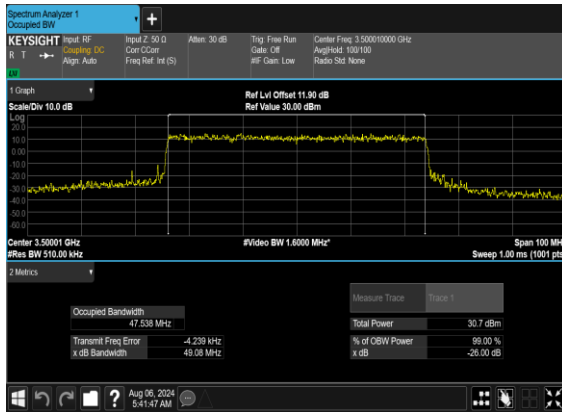
N77(50M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



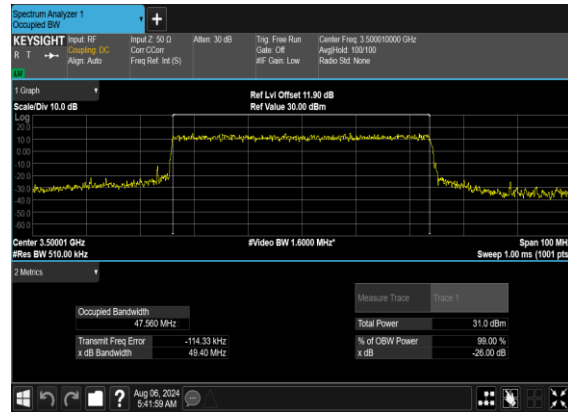
N77(50M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(50M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

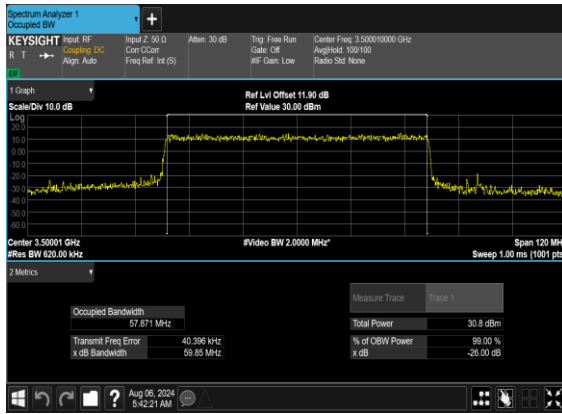


N77(50M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

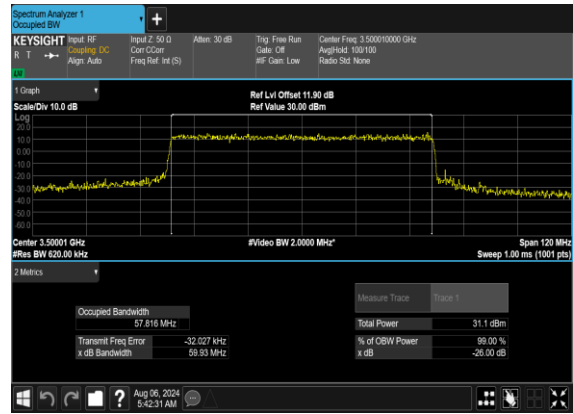




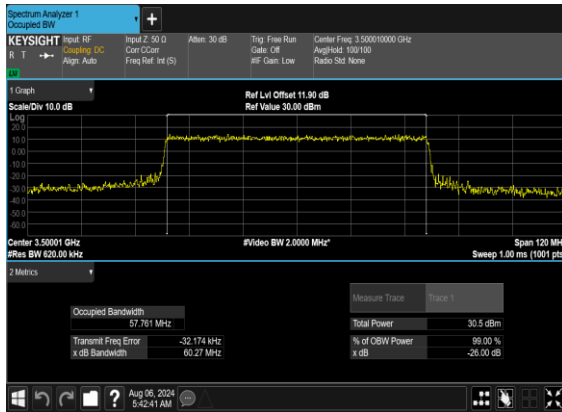
N77(60M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(60M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(60M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N77(60M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

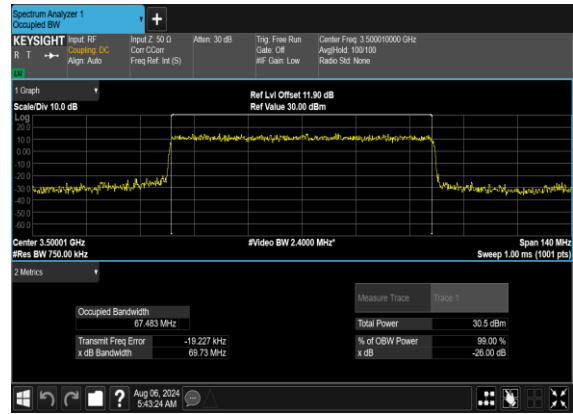




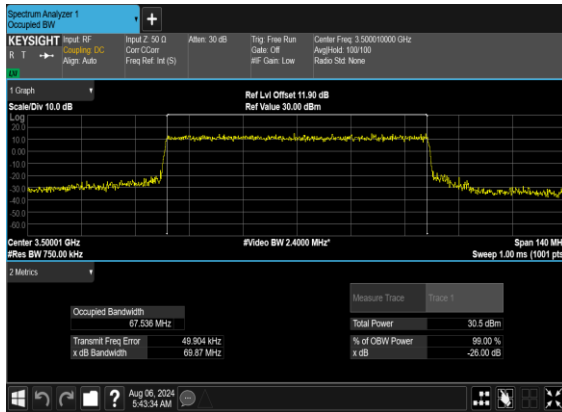
N77(70M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(70M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(70M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

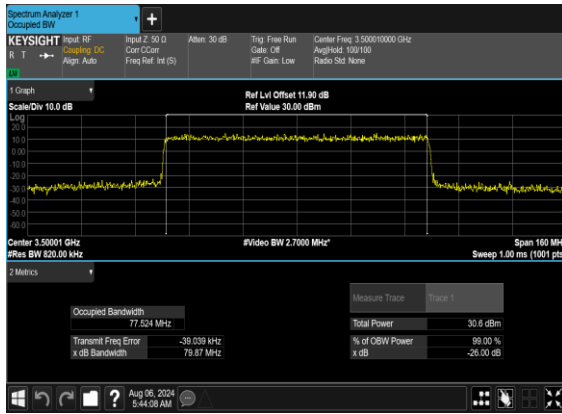


N77(70M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

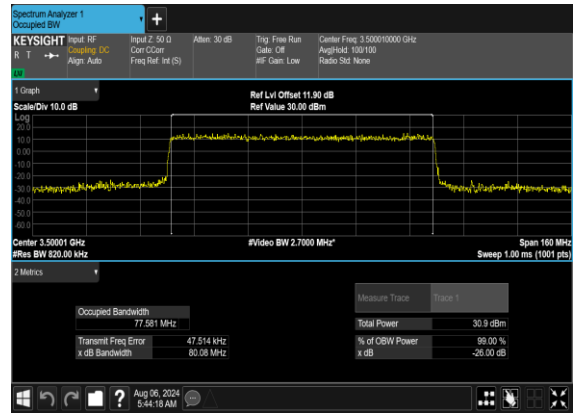




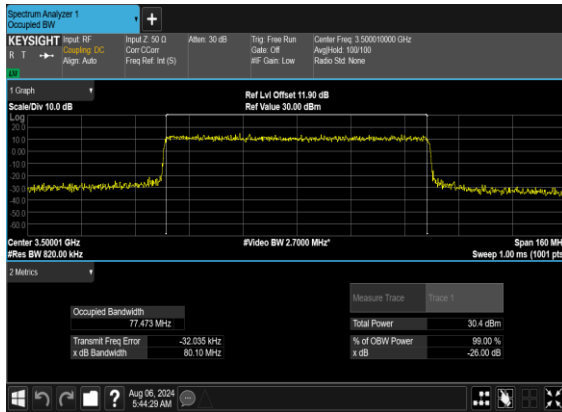
N77(80M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(80M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(80M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

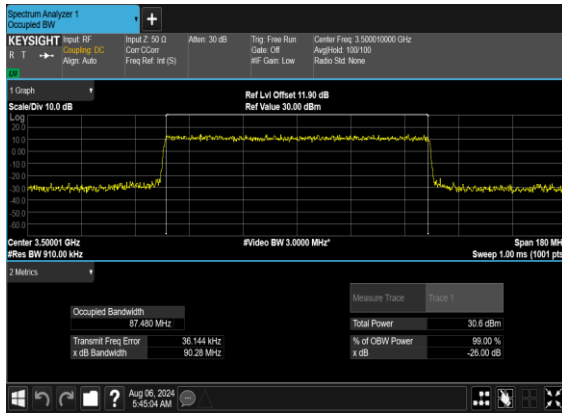


N77(80M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

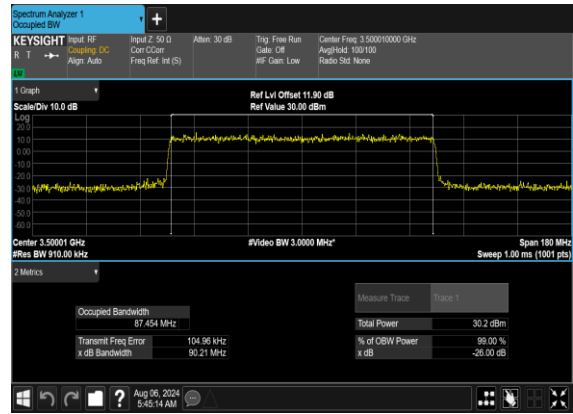




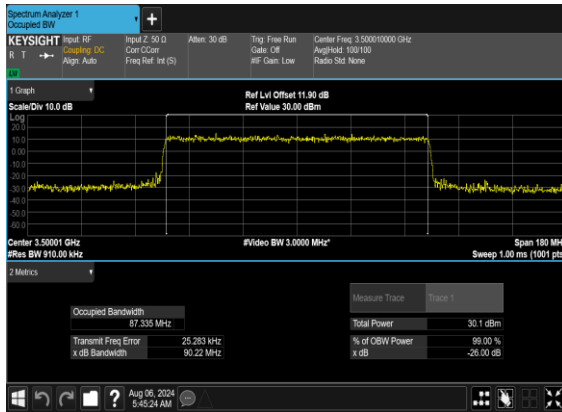
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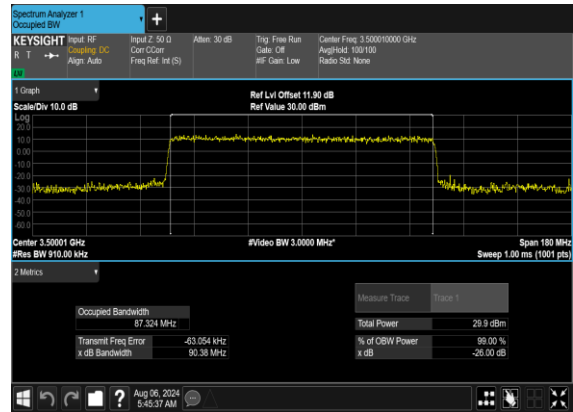
N77(90M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(90M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

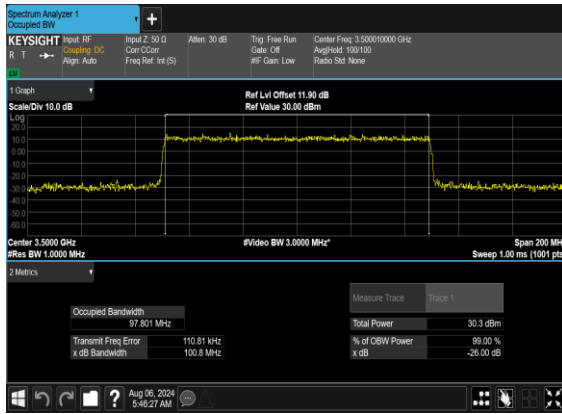


N77(90M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

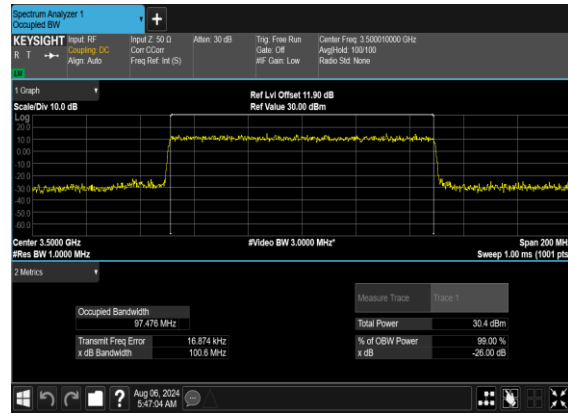




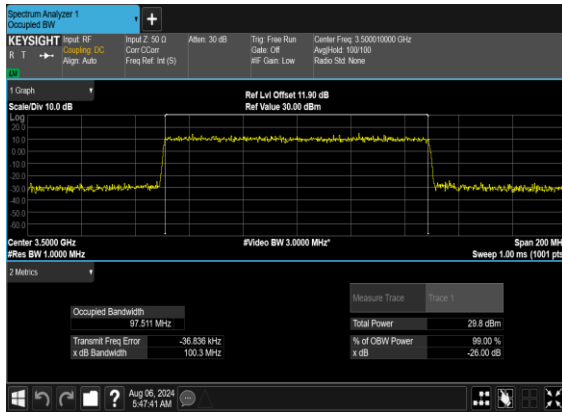
N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



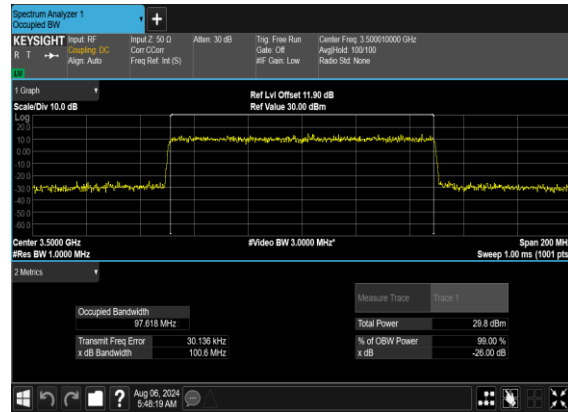
N77(100M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(100M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N77(100M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH





Conducted Spurious Emissions

Table with 9 columns: NR Band, SCS (kHz), Bandwidth (MHz), Arfcn, Freq (MHz), Modulation, RB, Result, Verdict. It contains 28 rows of test data for various frequencies and bandwidths.



77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

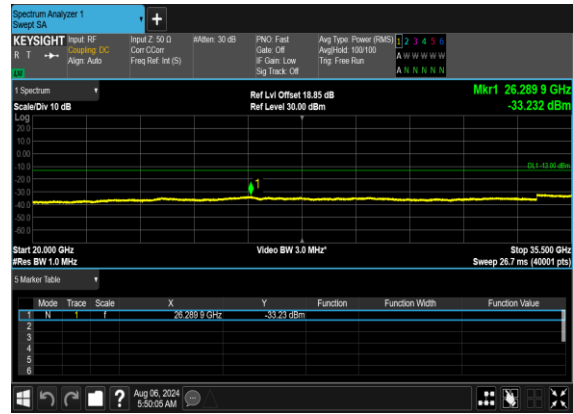




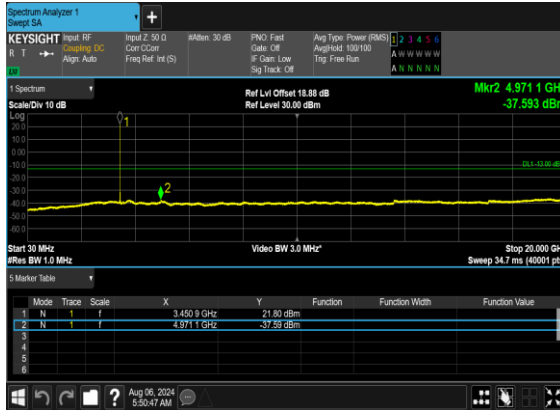
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



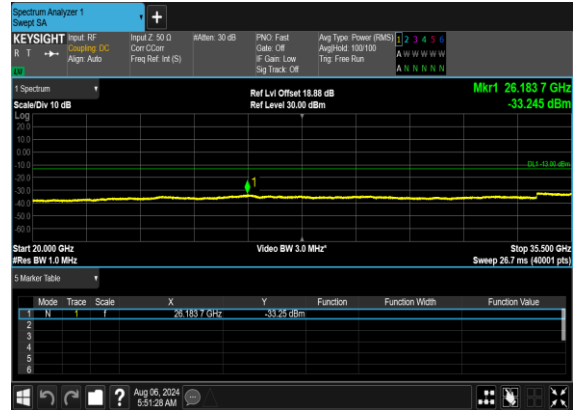
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

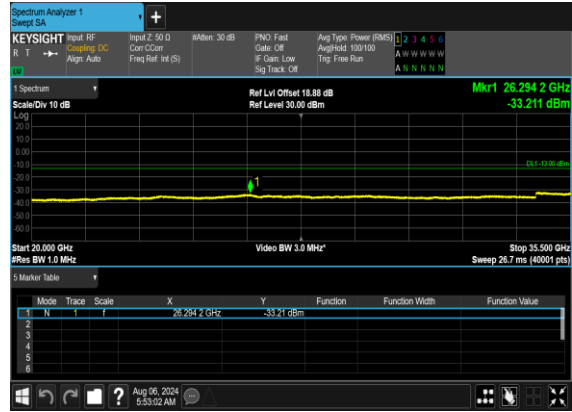




N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



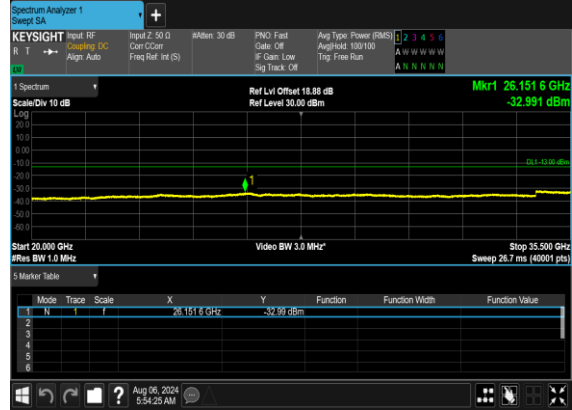
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

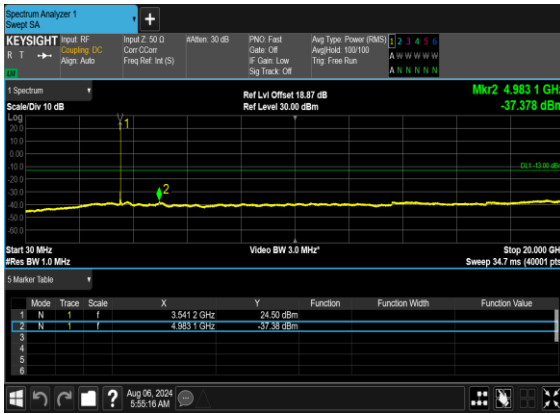


N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

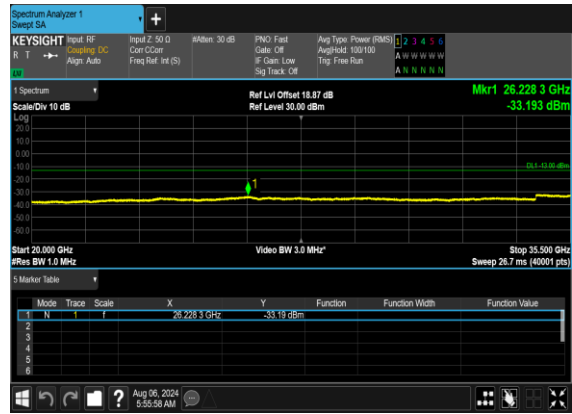




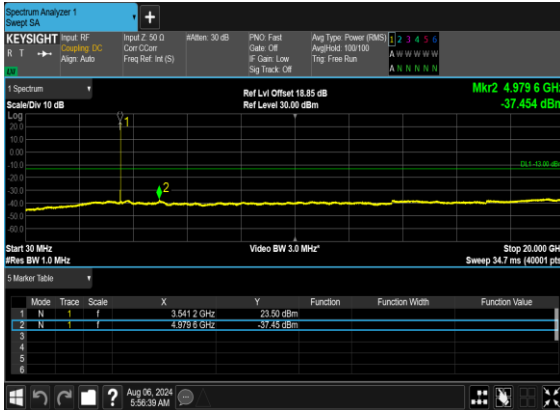
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



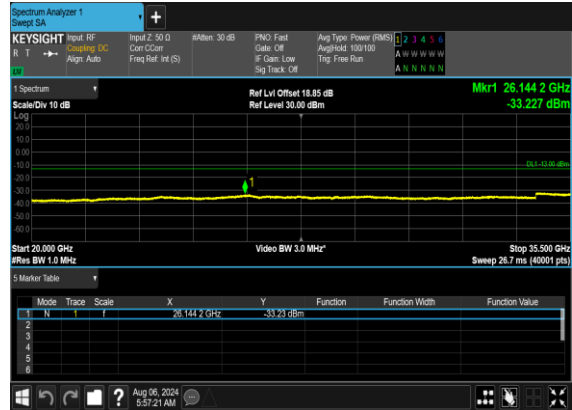
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

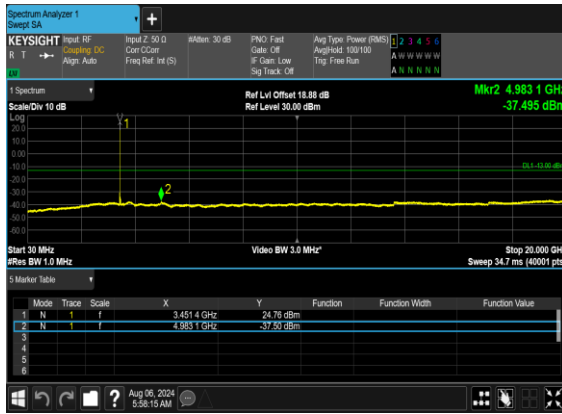


N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

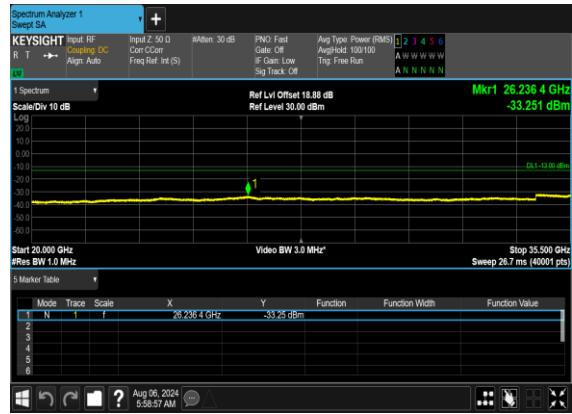




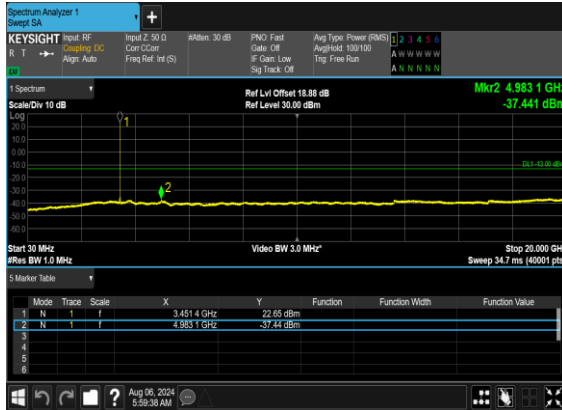
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

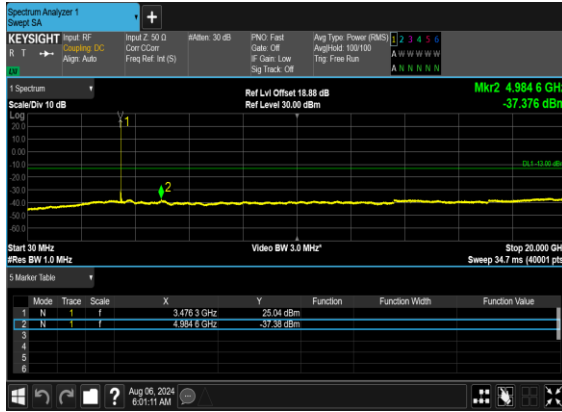


N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

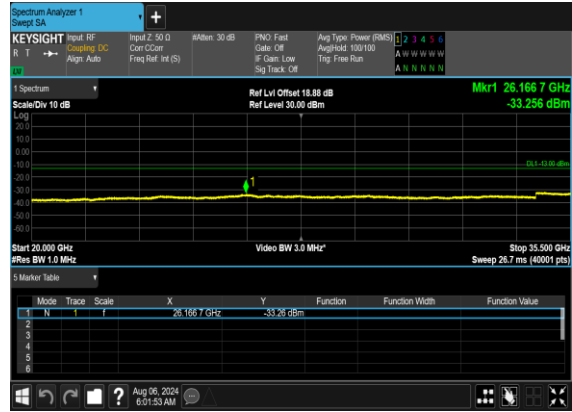




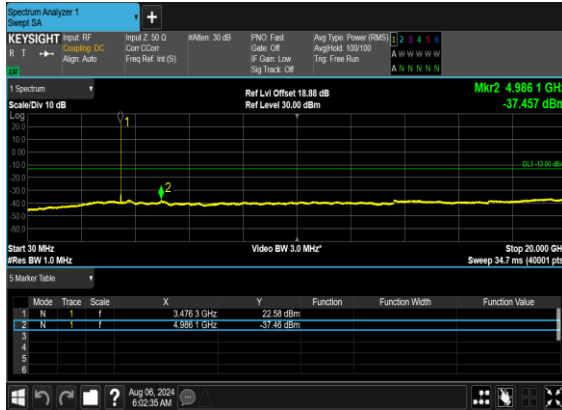
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



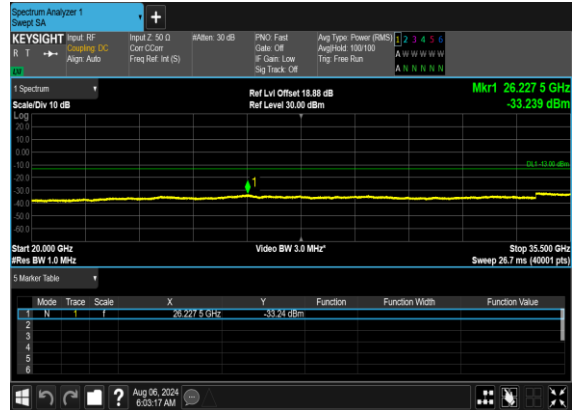
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

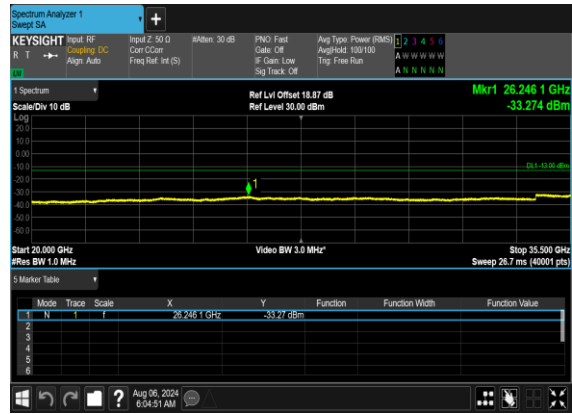




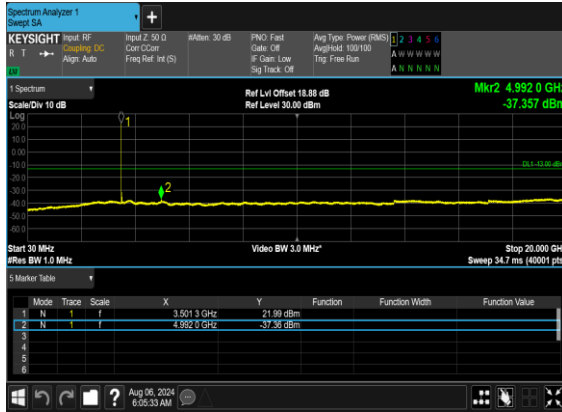
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



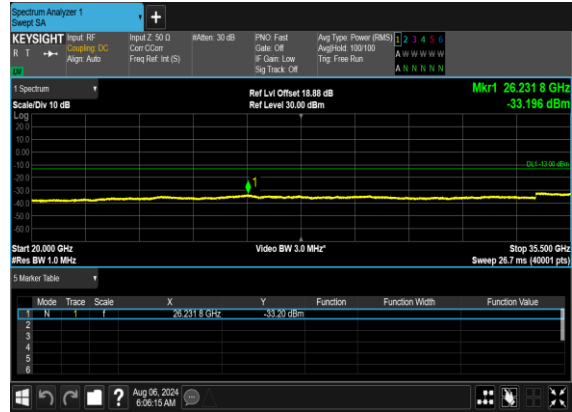
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

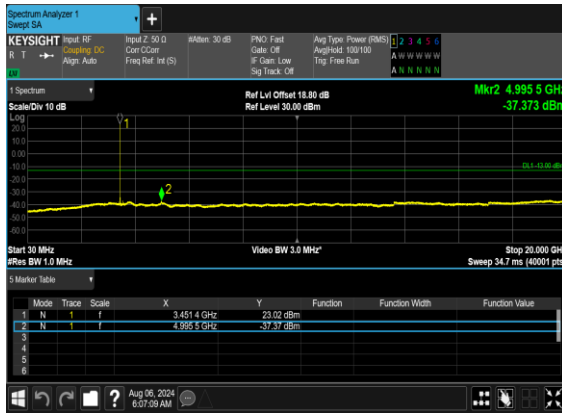


N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

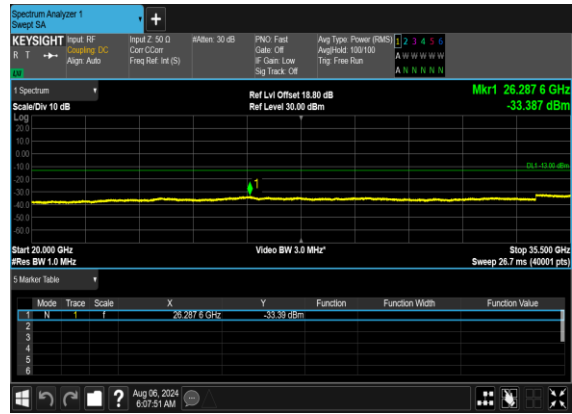




N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

