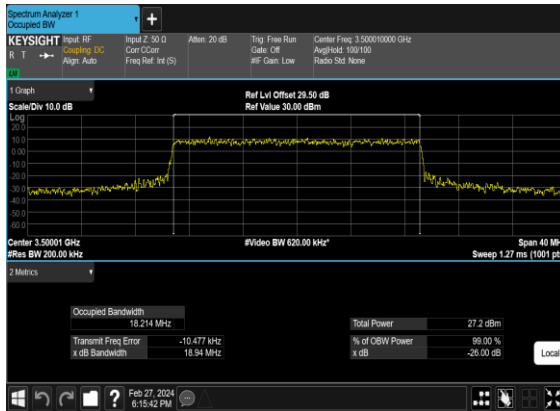
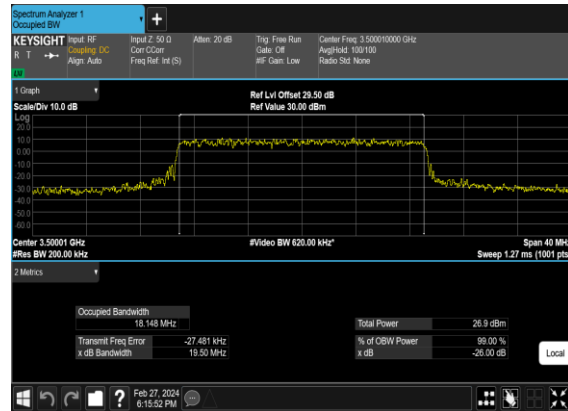


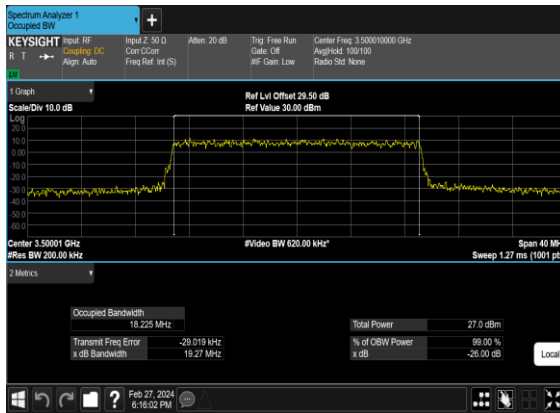
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



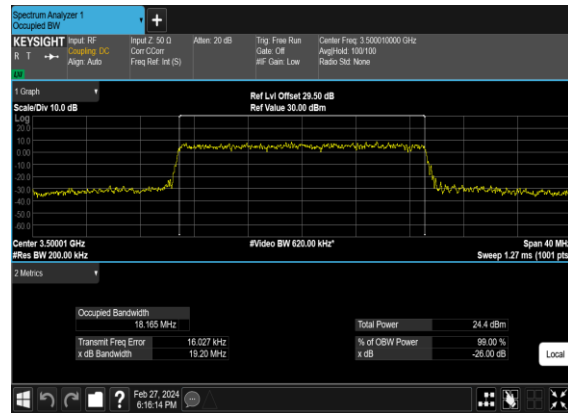
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



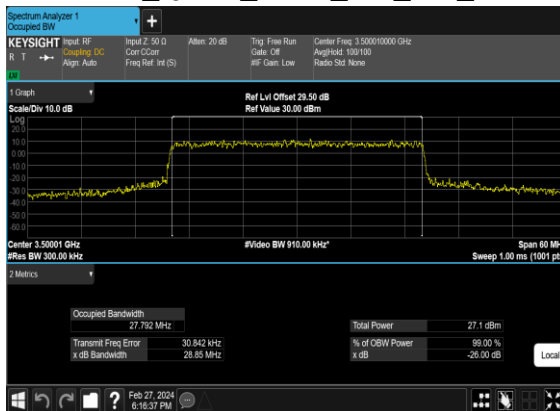
N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



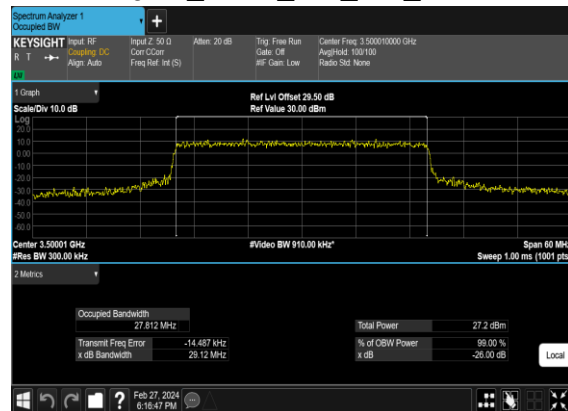
N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



N77(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



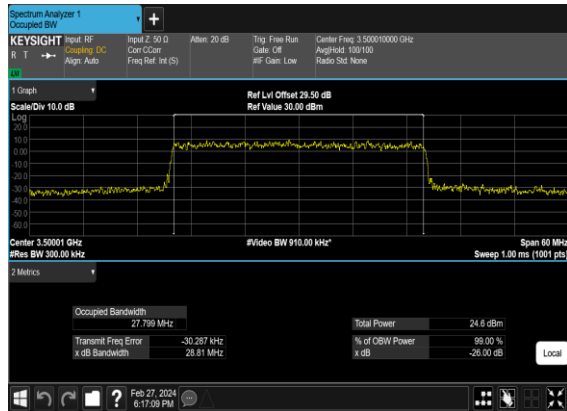
N77(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



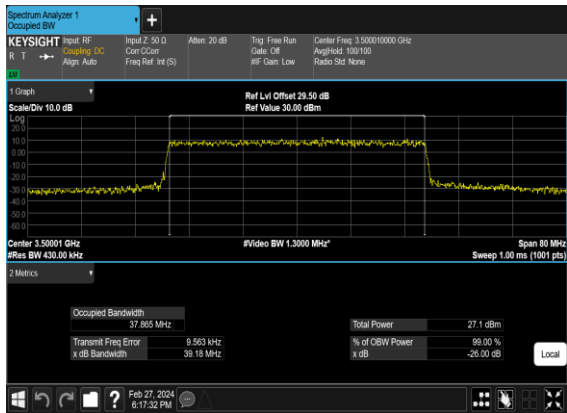
N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



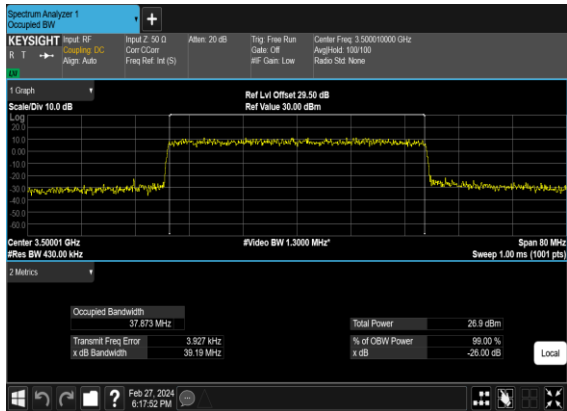
N77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



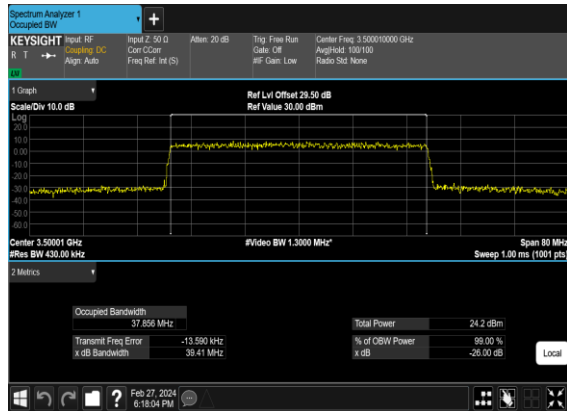
N77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



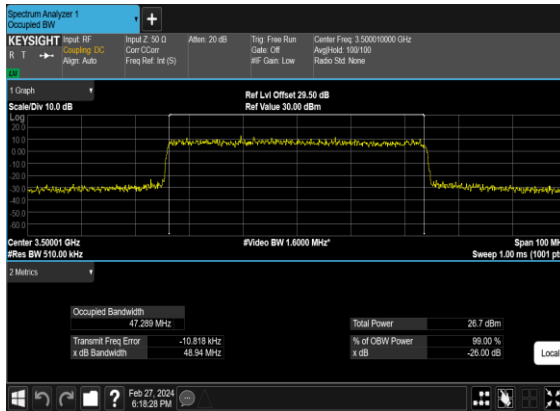
N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



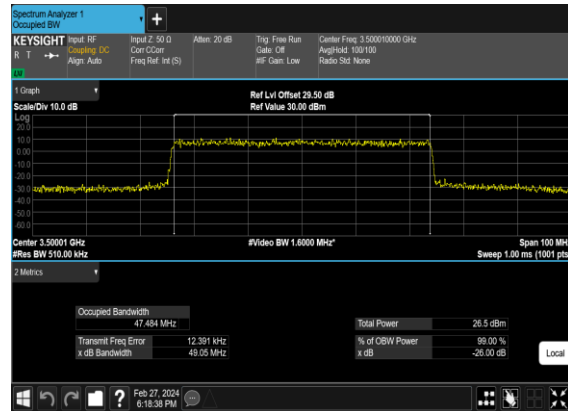
N77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



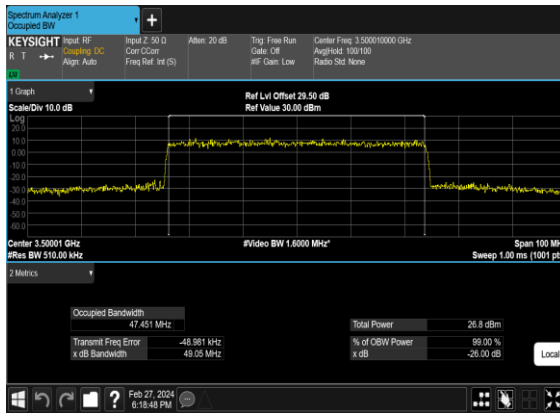
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



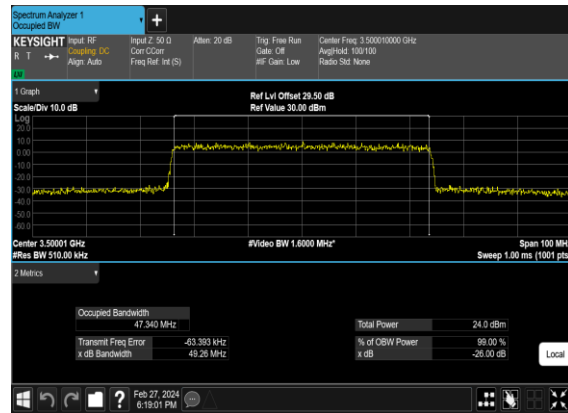
N77(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



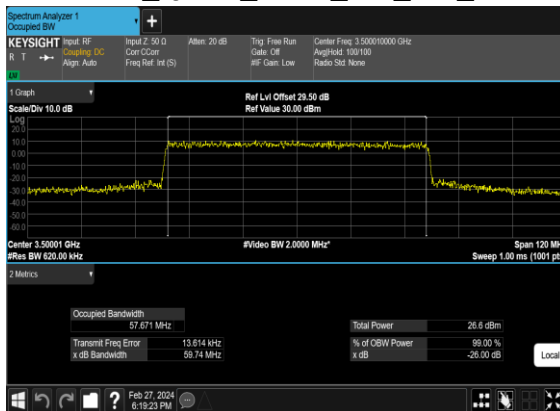
N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



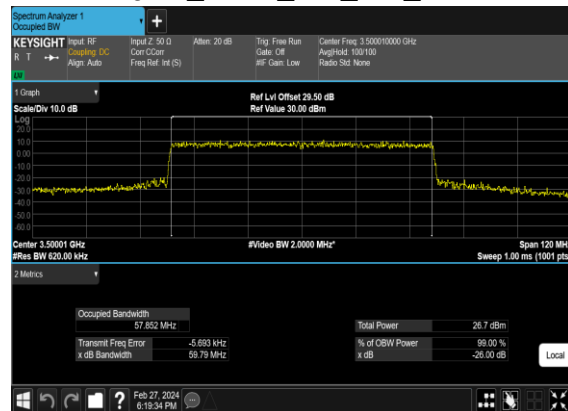
N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



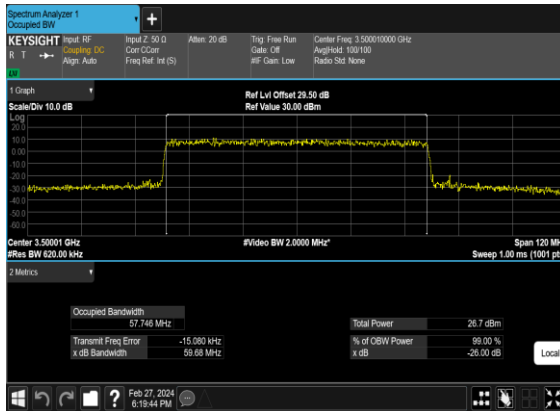
N77(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



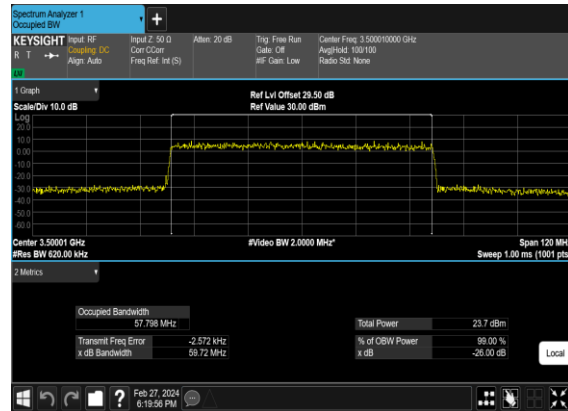
N77(60M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



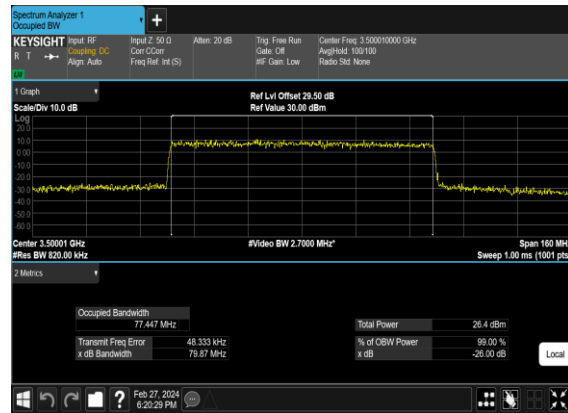
N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



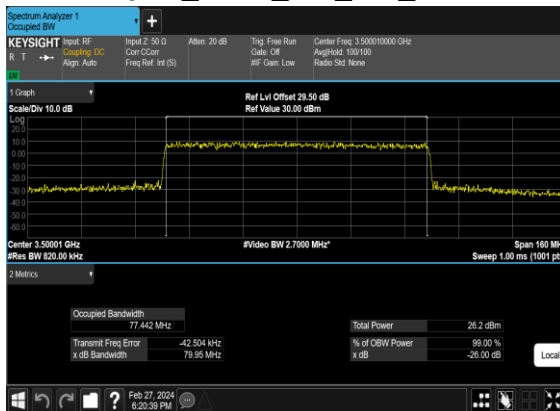
N77(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



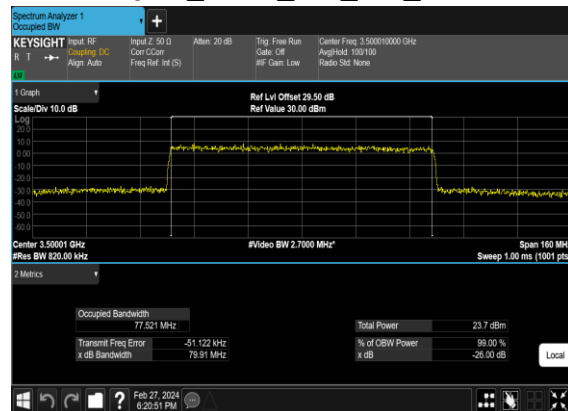
N77(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



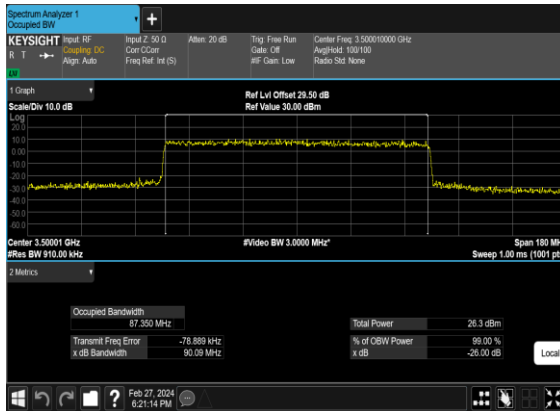
N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



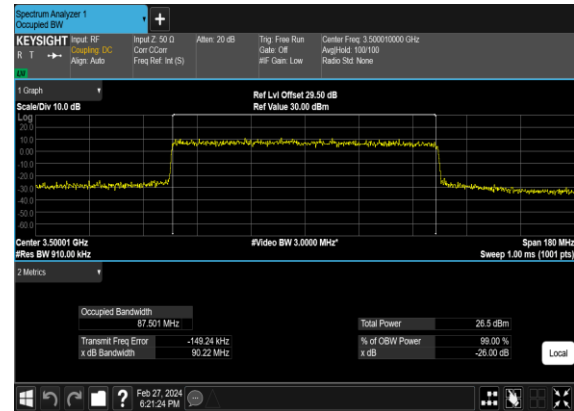
N77(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



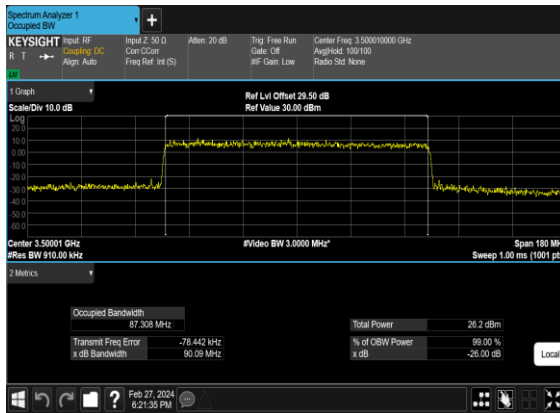
N77(90M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



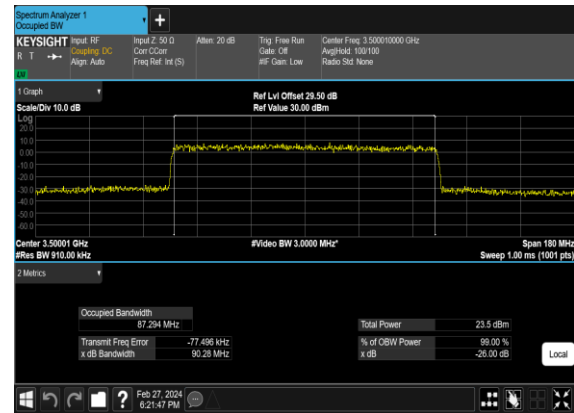
N77(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



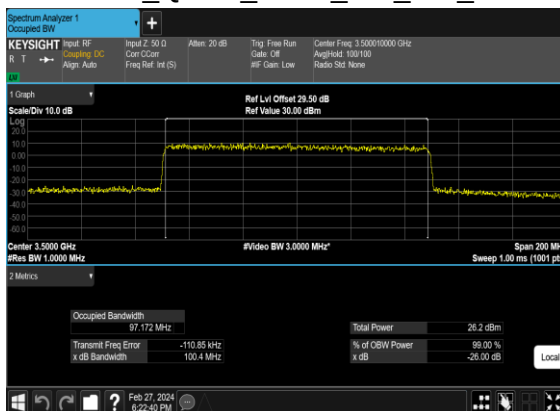
N77(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



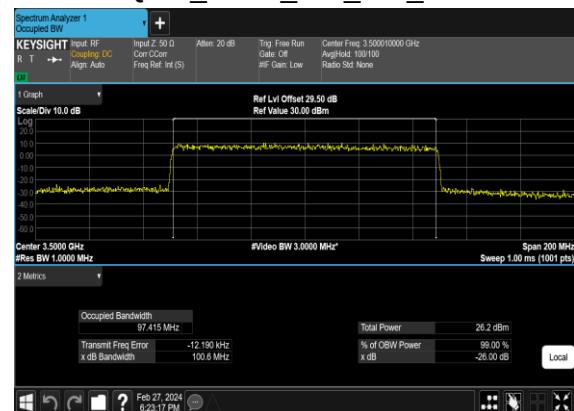
N77(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



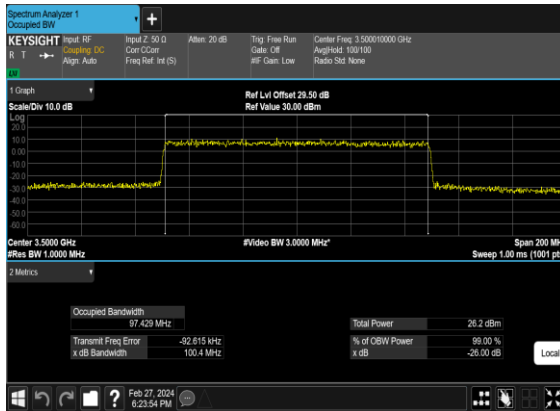
N77(100M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



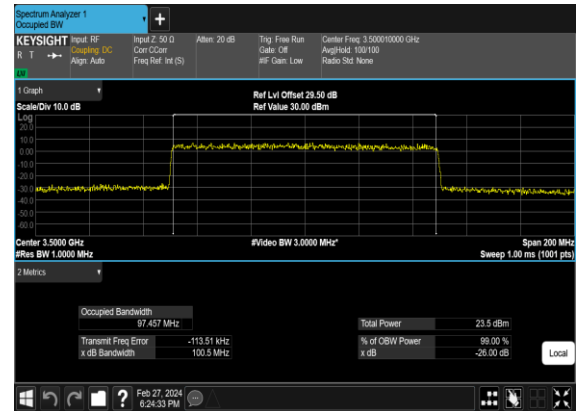
N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

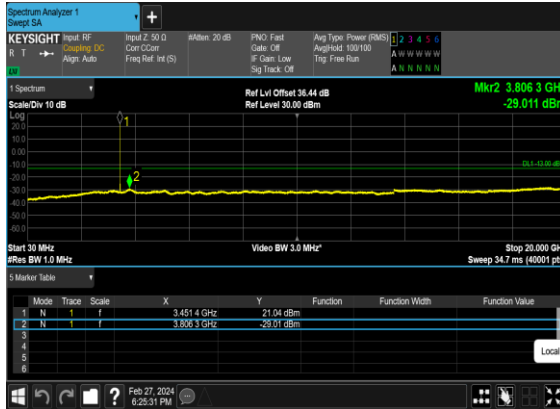


Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	---
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	see graph	---
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	see graph	---
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@0	see graph	---
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	---
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	see graph	---
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	see graph	---
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@0	see graph	---
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@0	see graph	PASS

77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS

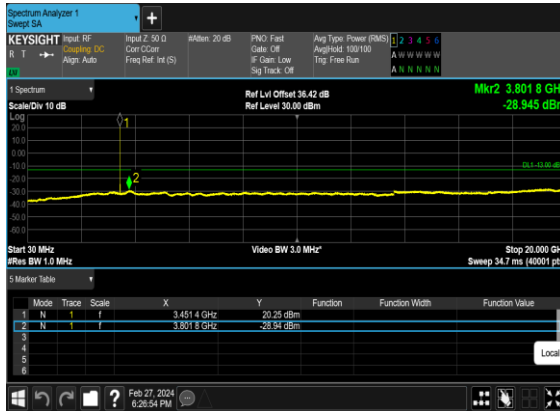
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



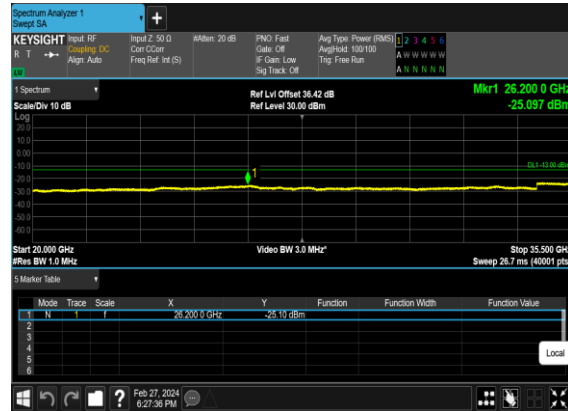
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



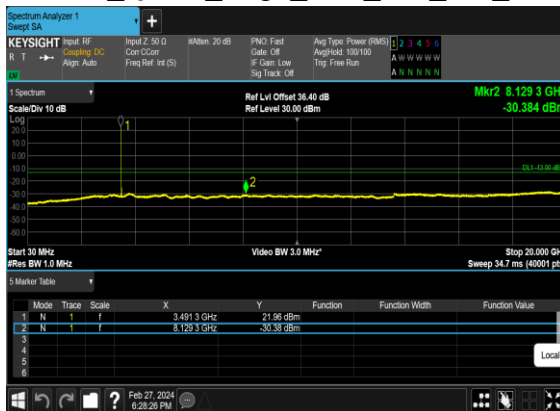
N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH



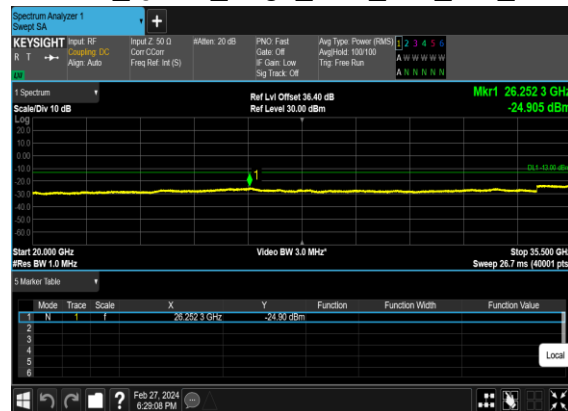
N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH



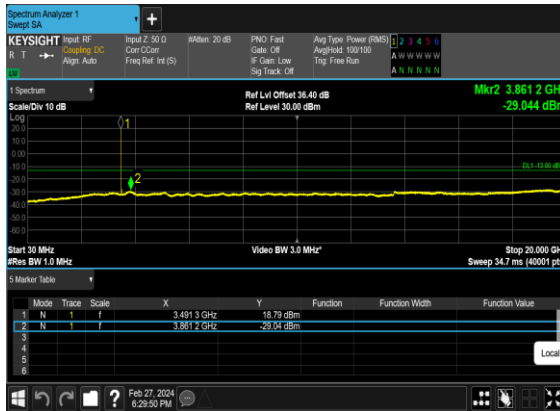
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



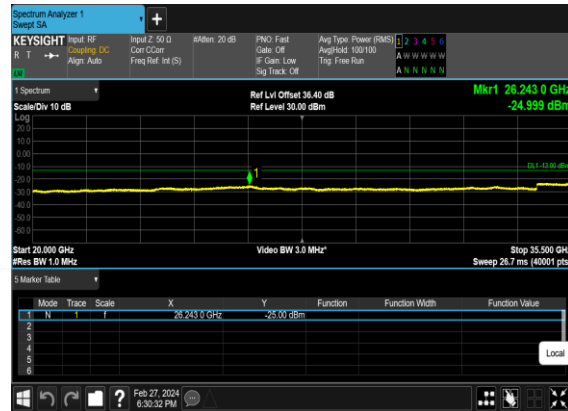
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



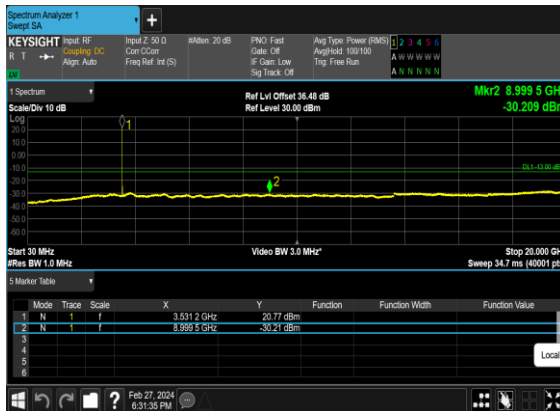
N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



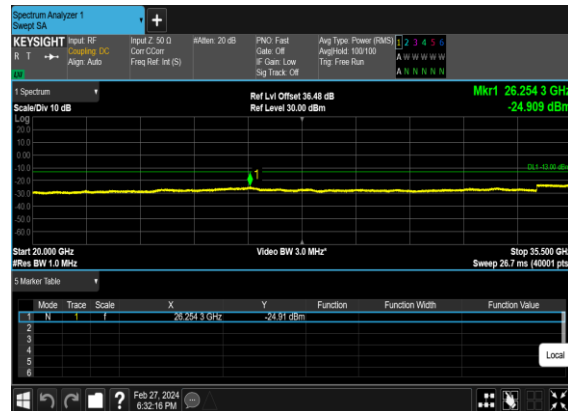
N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



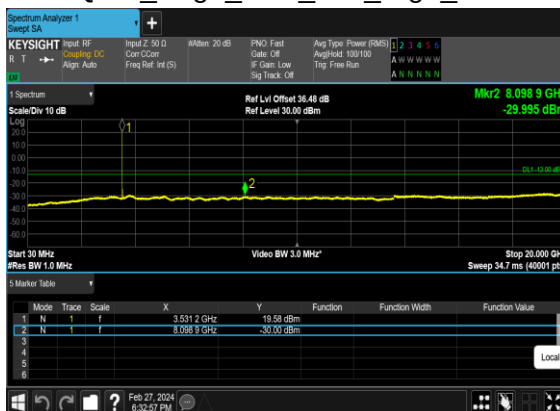
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



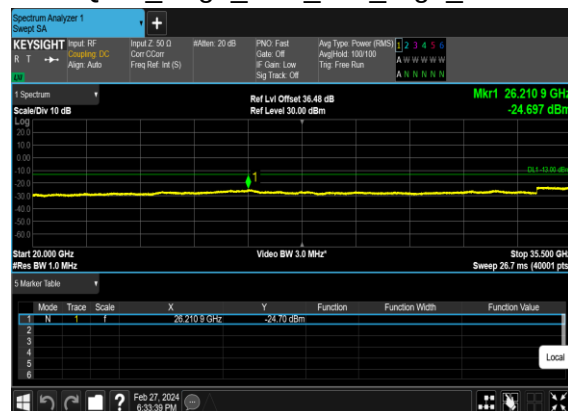
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



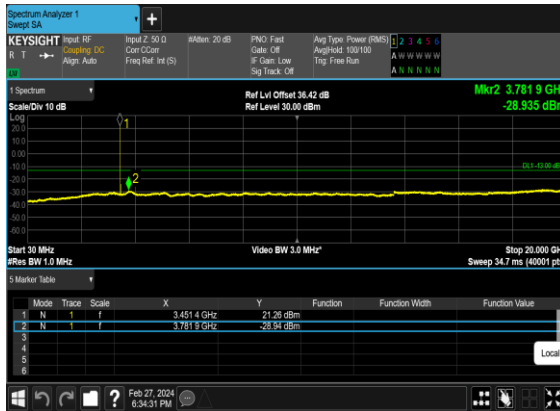
N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH



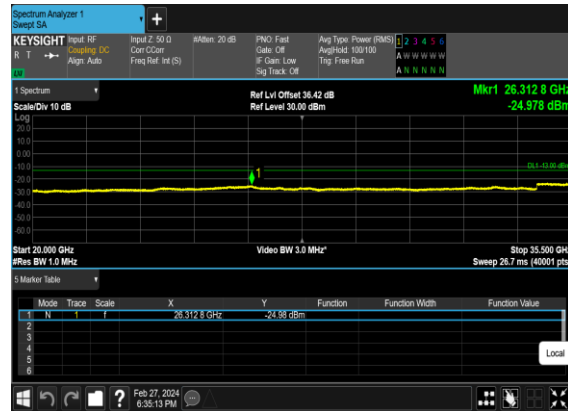
N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH



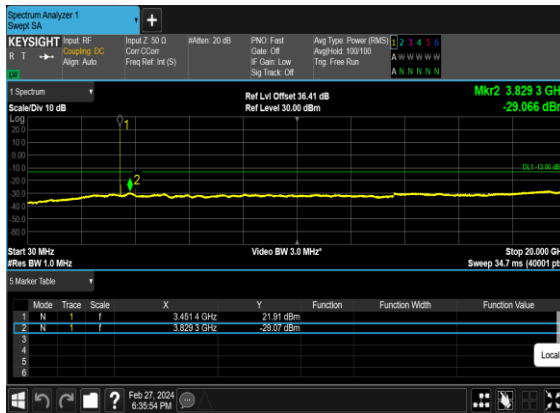
N77(60M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



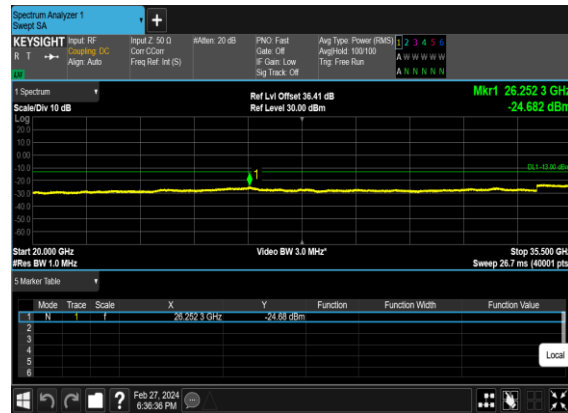
N77(60M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



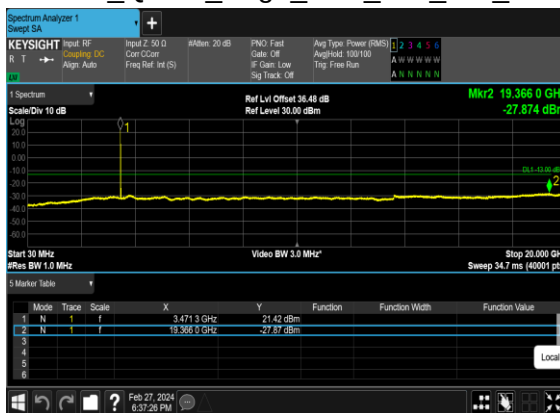
N77(60M)_CP-OFDM_16 QAM_Edge_1RB_Left_Low_CH



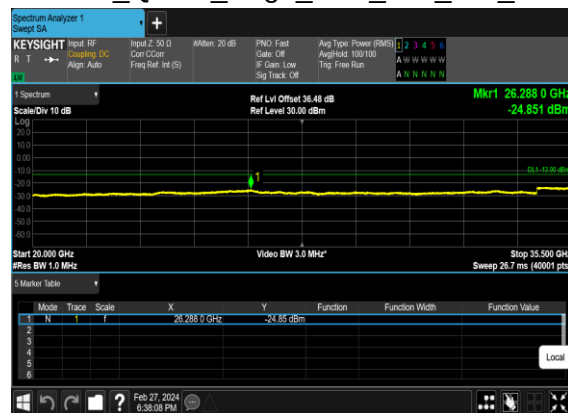
N77(60M)_CP-OFDM_16 QAM_Edge_1RB_Left_Low_CH



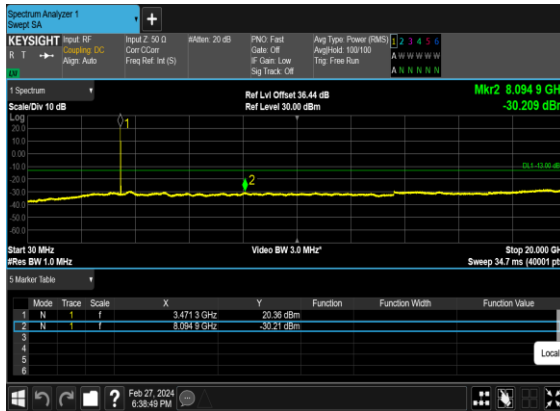
N77(60M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



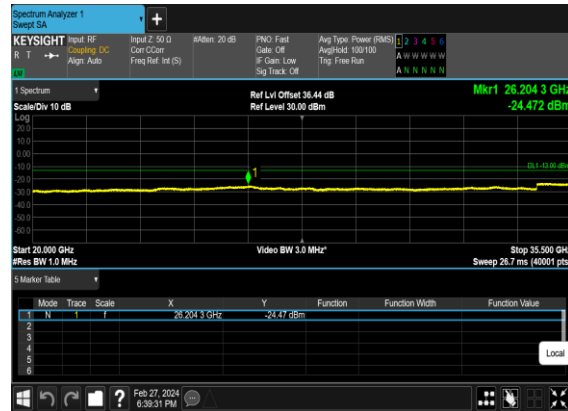
N77(60M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



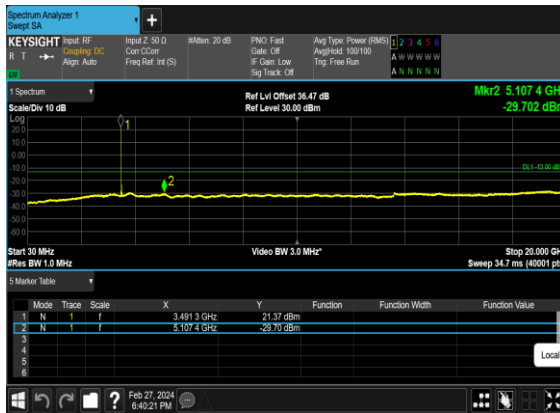
N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



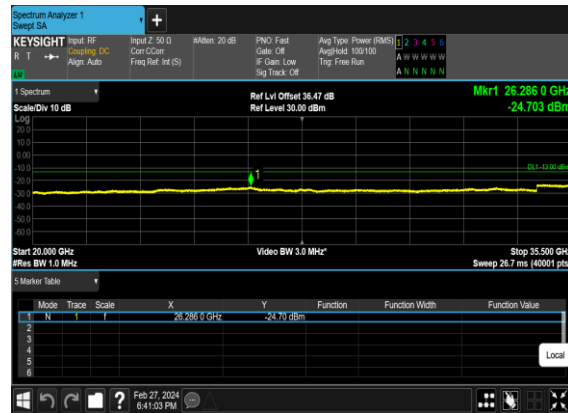
N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



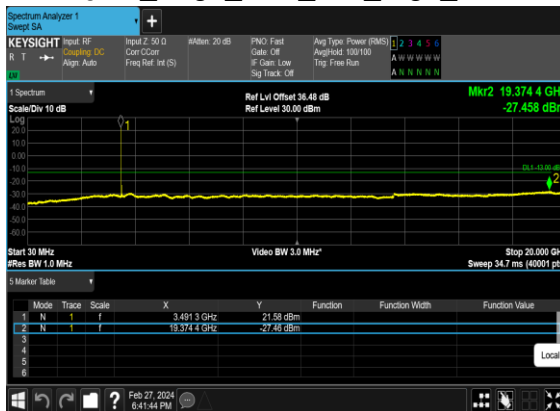
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



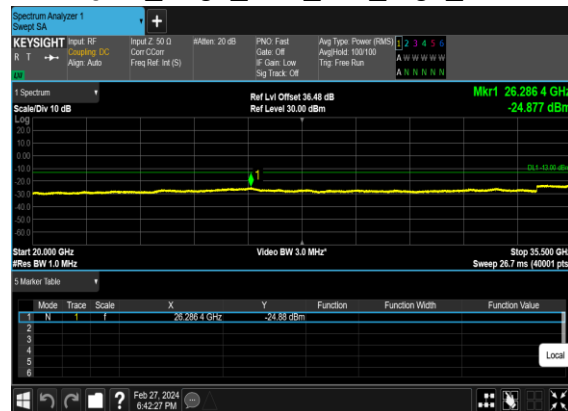
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



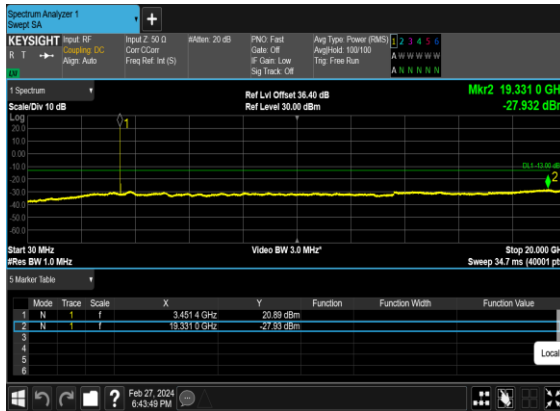
N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH



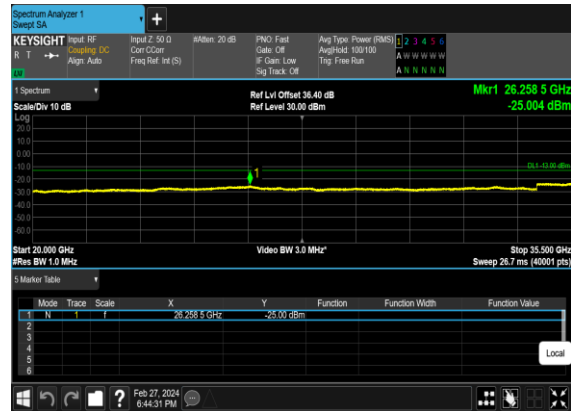
N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH



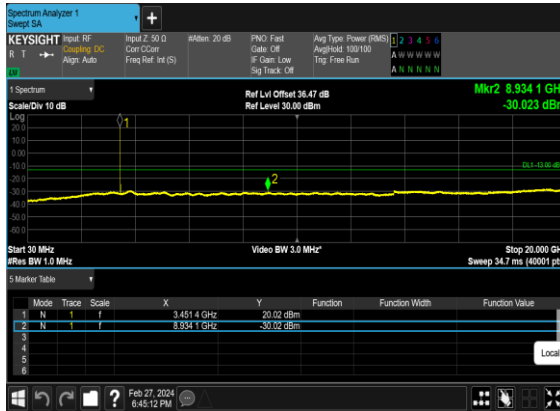
N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



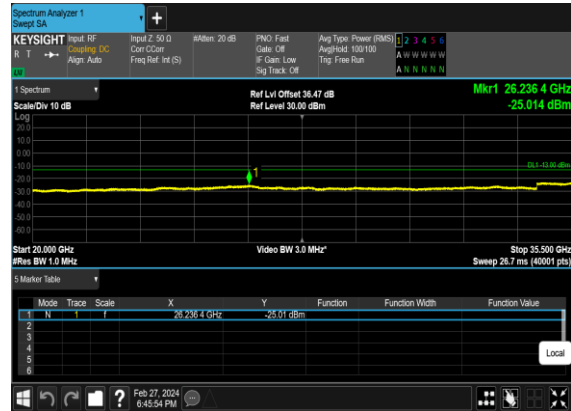
N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_CP-OFDM_16 QAM_Edge_1RB_Left_Mid_CH



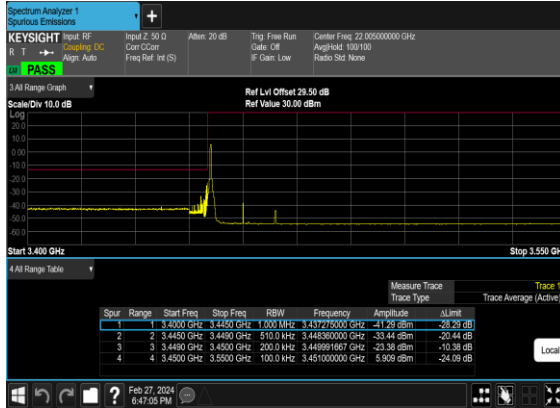
N77(100M)_CP-OFDM_16 QAM_Edge_1RB_Left_Mid_CH



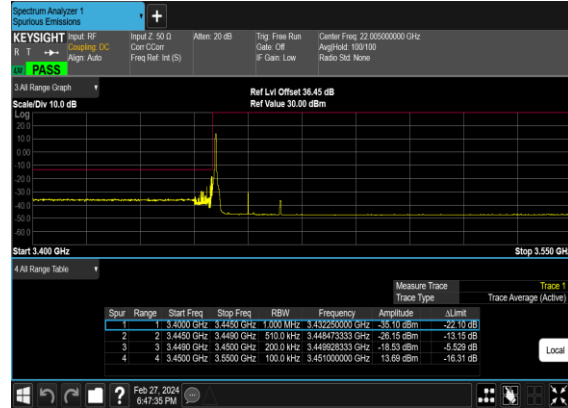
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM QPSK	51@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	51@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@50	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@50	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	51@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	51@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	162@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	162@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@161	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@161	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	162@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	162@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@272	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	see graph	PASS

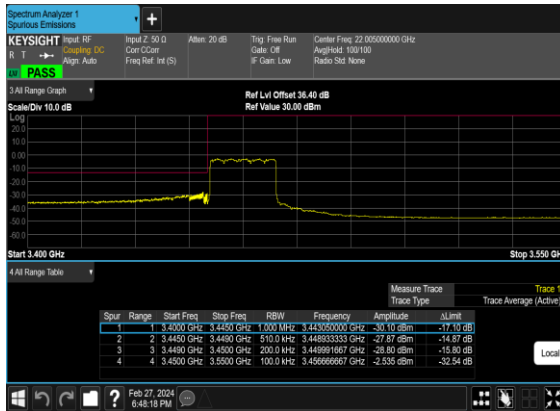
N77(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



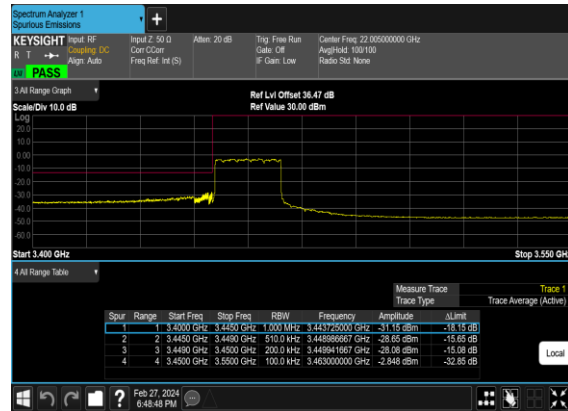
N77(20M)_CP-OFDM_16 QAM_Edge_1RB_Left_Low_CH



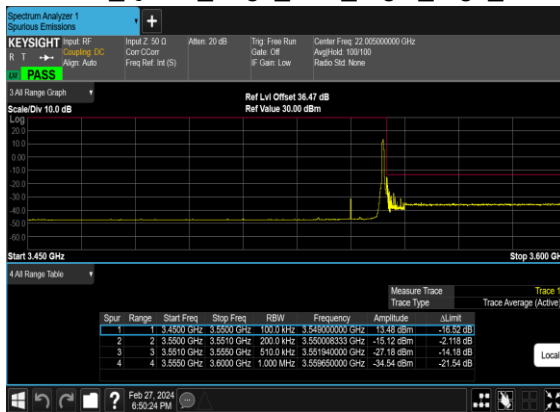
N77(20M)_CP- OFDM_QPSK_Outer_Full_Low_CH



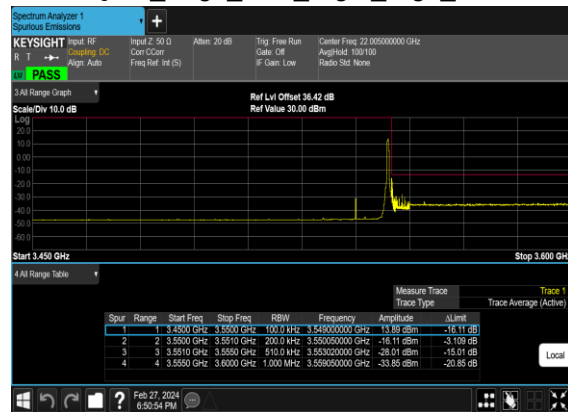
N77(20M)_CP-OFDM_16 QAM_Outer_Full_Low_CH



N77(20M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



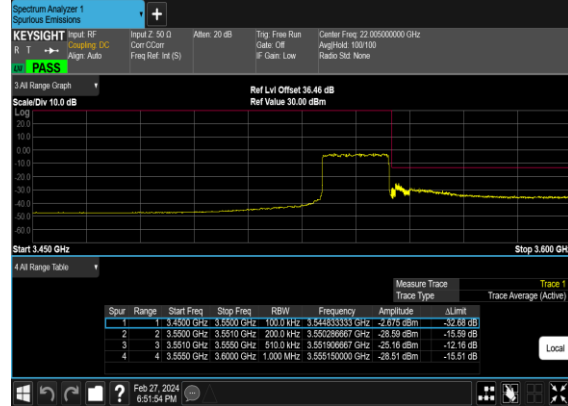
N77(20M)_CP-OFDM_16 QAM_Edge_1RB_Right_High_CH



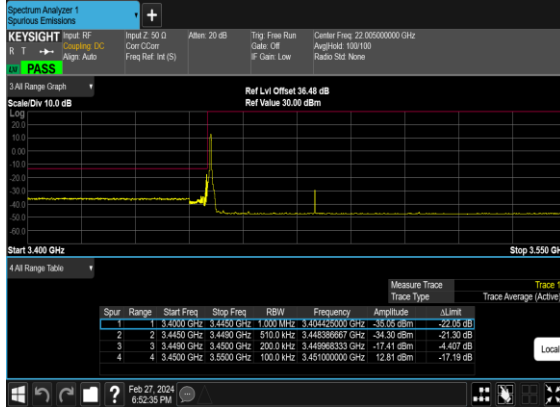
N77(20M)_CP- OFDM_QPSK_Outer_Full_High_CH



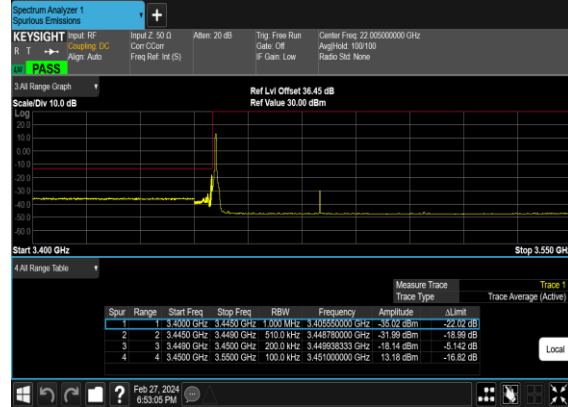
N77(20M)_CP-OFDM_16 QAM_Outer_Full_High_CH



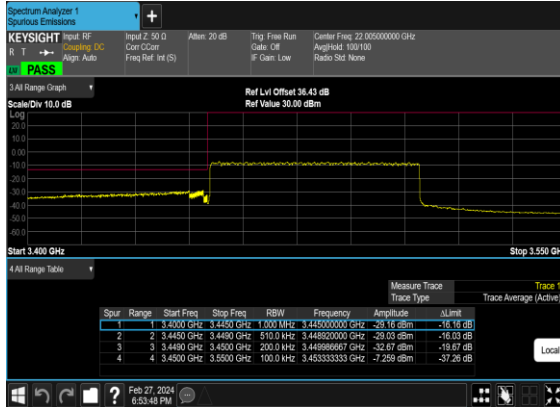
N77(60M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



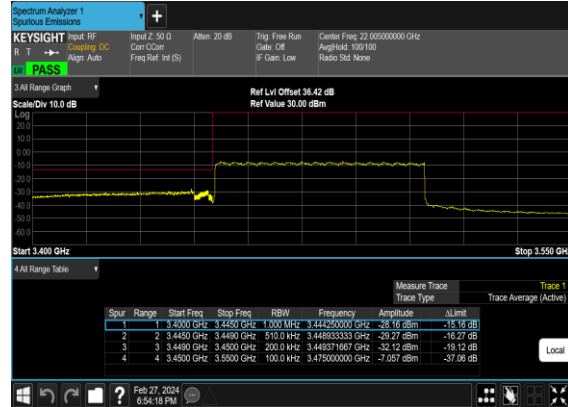
N77(60M)_CP-OFDM_16 QAM_Edge_1RB_Left_Low_CH



N77(60M)_CP- OFDM_QPSK_Outer_Full_Low_CH



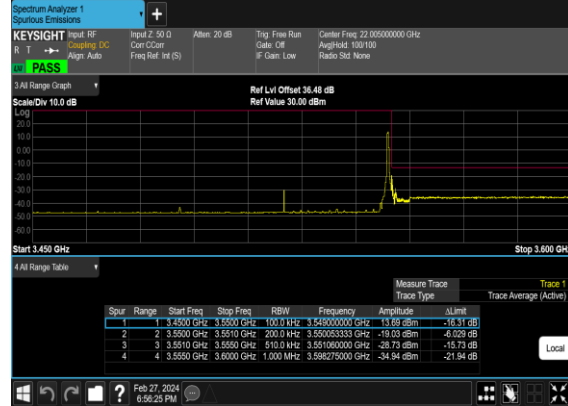
N77(60M)_CP-OFDM_16 QAM_Outer_Full_Low_CH



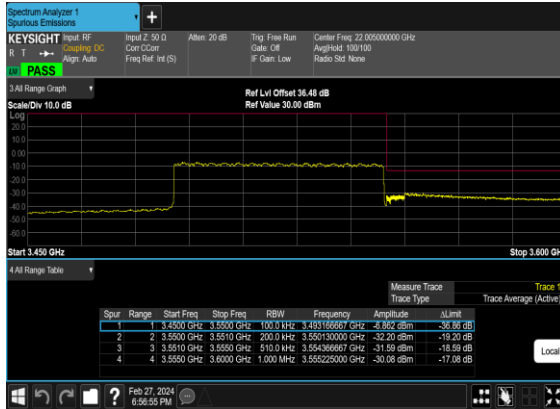
N77(60M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



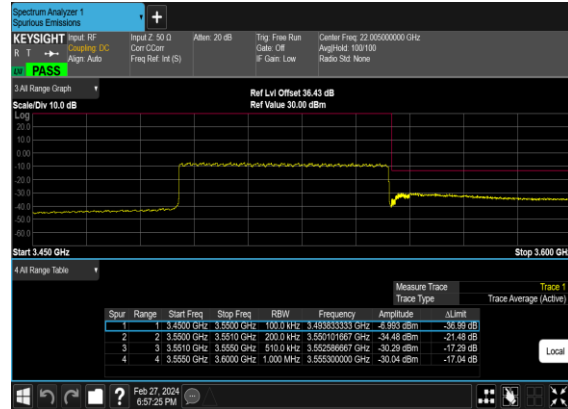
N77(60M)_CP-OFDM_16 QAM_Edge_1RB_Right_High_CH



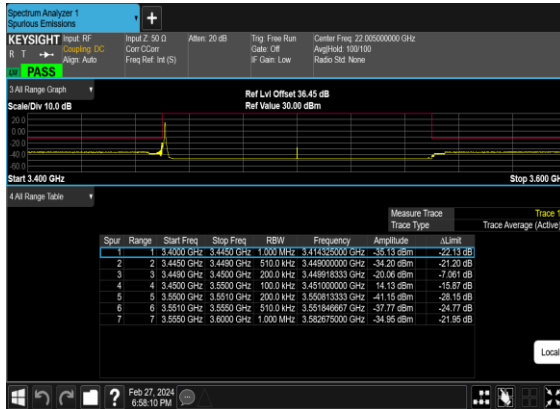
N77(60M)_CP- OFDM_QPSK_Outer_Full_High_CH



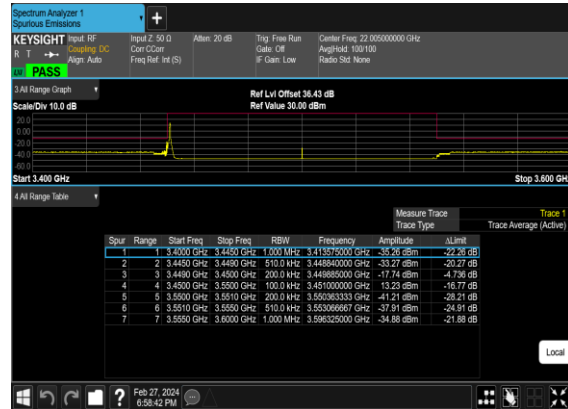
N77(60M)_CP-OFDM_16 QAM_Outer_Full_High_CH



N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



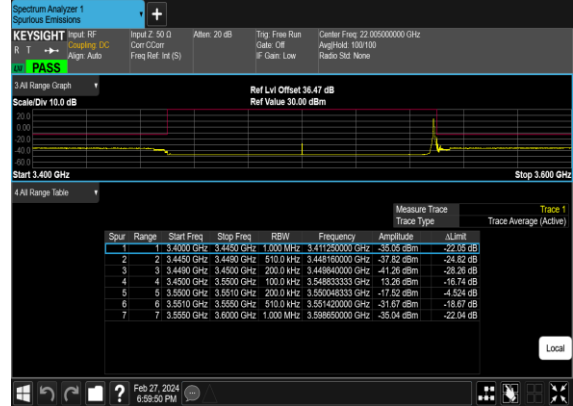
N77(100M)_CP-OFDM_16 QAM_Edge_1RB_Left_Mid_CH



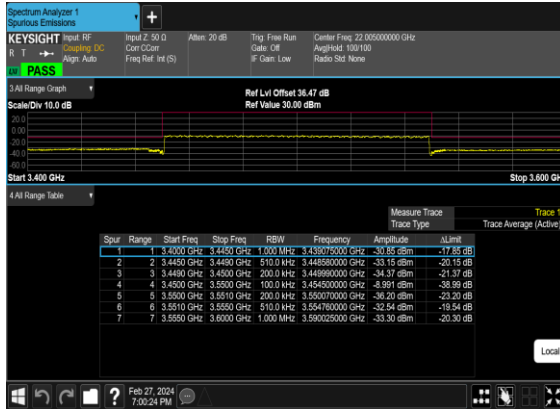
N77(100M)_CP- OFDM_QPSK_Edge_1RB_Right_Mid_CH



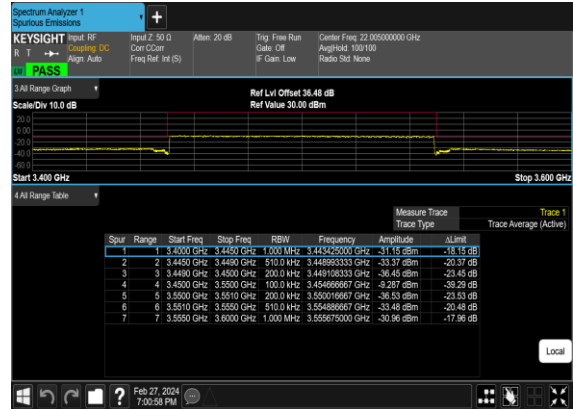
N77(100M)_CP-OFDM_16 QAM_Edge_1RB_Right_Mid_CH



N77(100M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



FR1 N77 MIMO-ANT2

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0028	PASS	NV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0016	PASS	LV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0027	PASS	HV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0021	PASS	-30℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0019	PASS	-20℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0033	PASS	-10℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0047	PASS	0℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0025	PASS	10℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0039	PASS	20℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0041	PASS	30℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0022	PASS	40℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0017	PASS	50℃

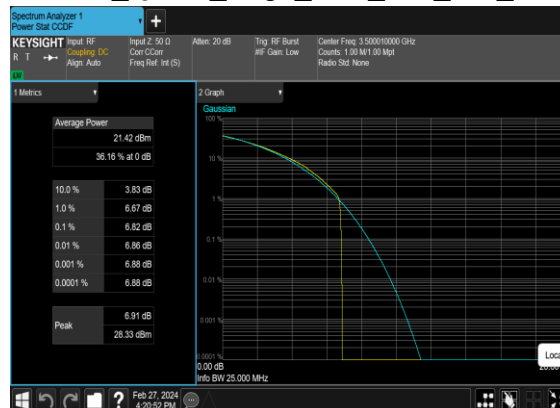
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	7.32	13	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	6.82	13	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	7.3	13	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	7.0	13	PASS

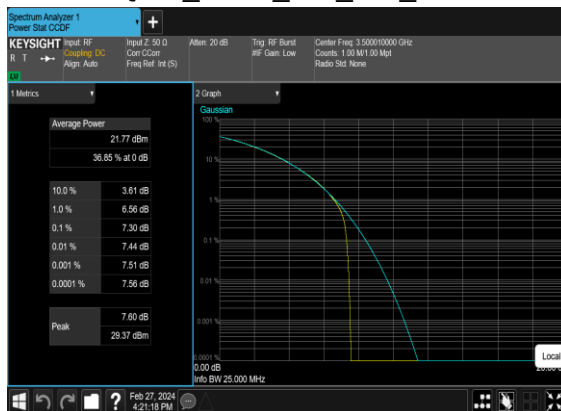
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



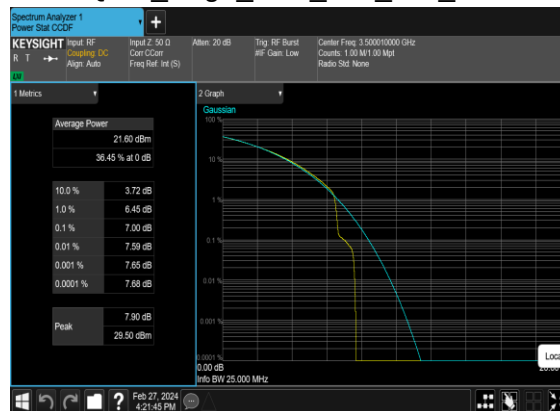
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



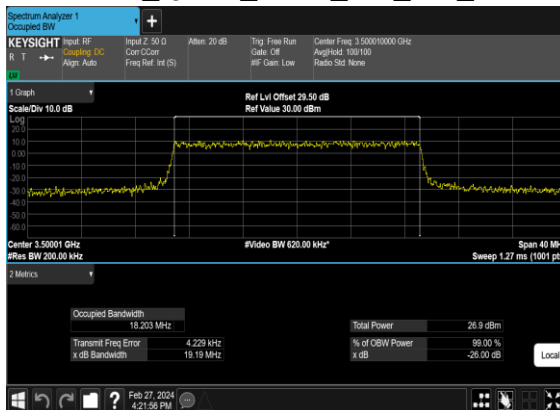
N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



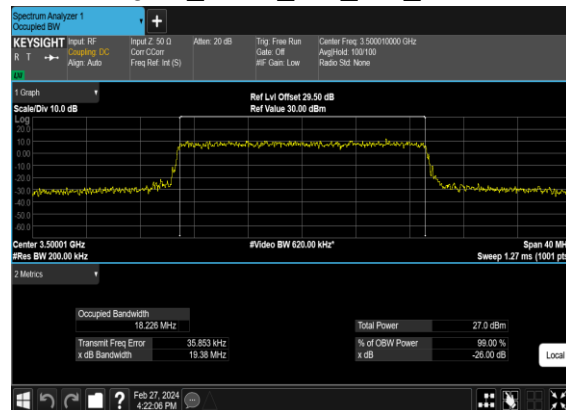
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.203	19.19
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.226	19.38
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.283	19.27
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.265	19.2
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.833	28.77
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.829	28.86
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.794	28.83
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.89	28.78
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.776	39.12
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.77	39.22
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.744	39.14
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.845	39.18
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.404	48.99
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.447	49.27
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.511	49.24
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.454	48.92
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.842	60.14
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.755	59.77
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.868	59.73
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.941	59.73
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.405	79.86
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.467	79.97
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.454	80.04
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.48	79.95
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.451	90.33
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.344	90.2
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.345	90.15
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.568	90.25
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.489	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.405	100.5
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.415	100.5
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.71	100.6

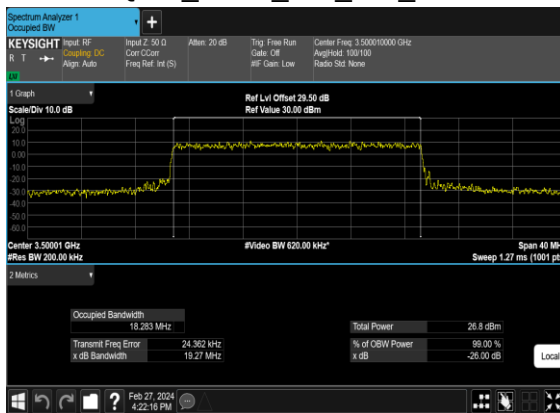
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



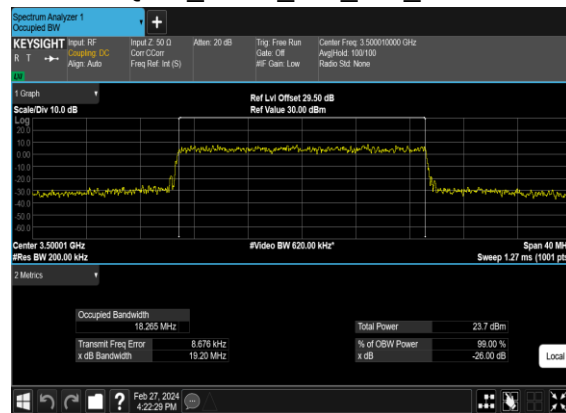
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



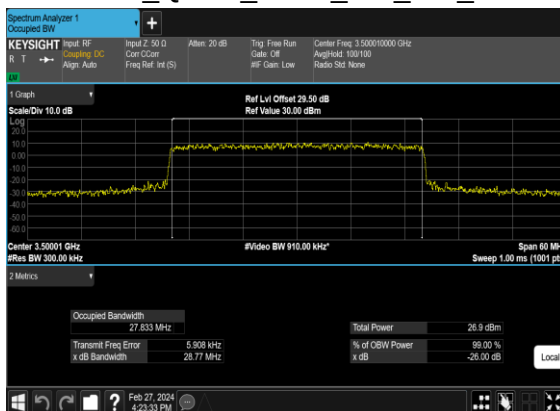
N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



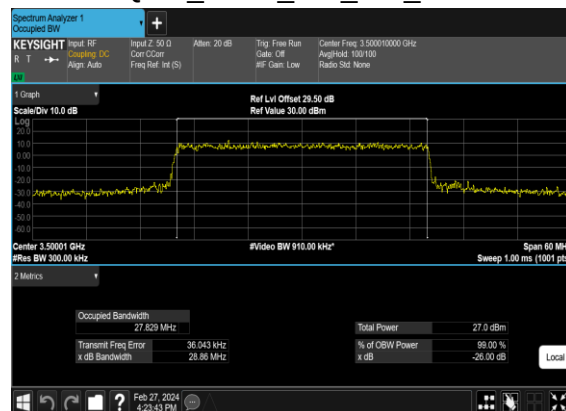
N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



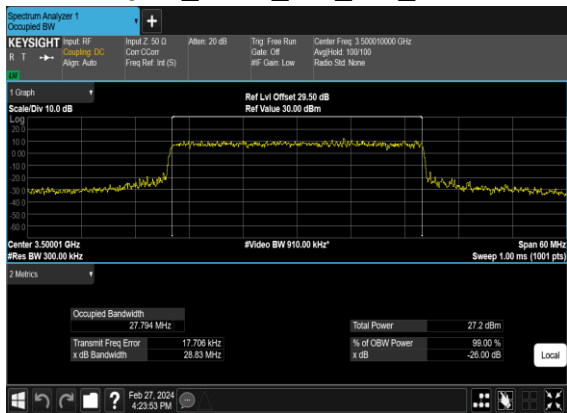
N77(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



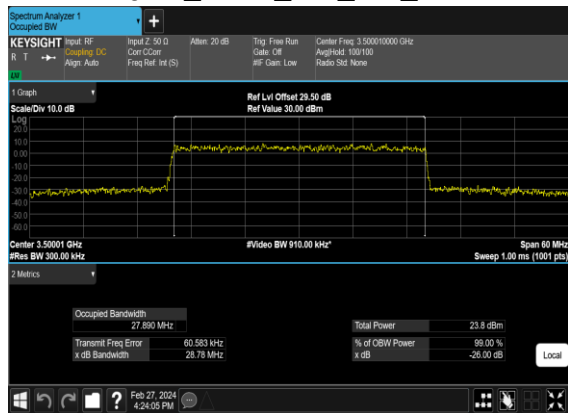
N77(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



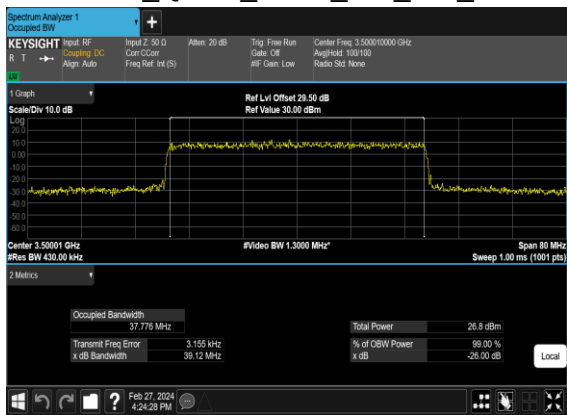
N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



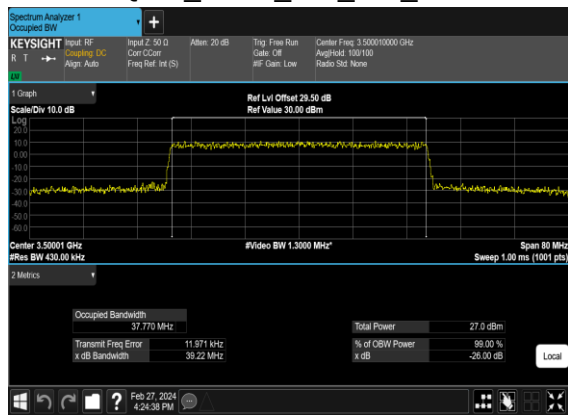
N77(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



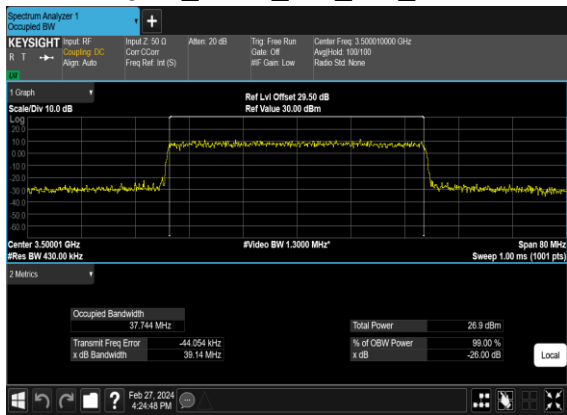
N77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



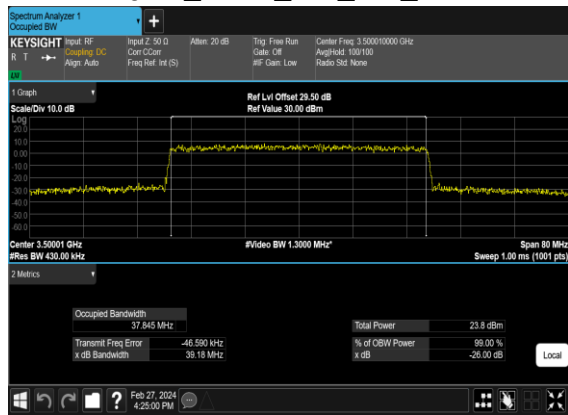
N77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



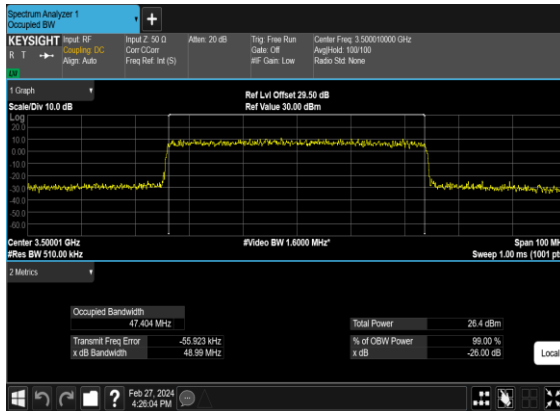
N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



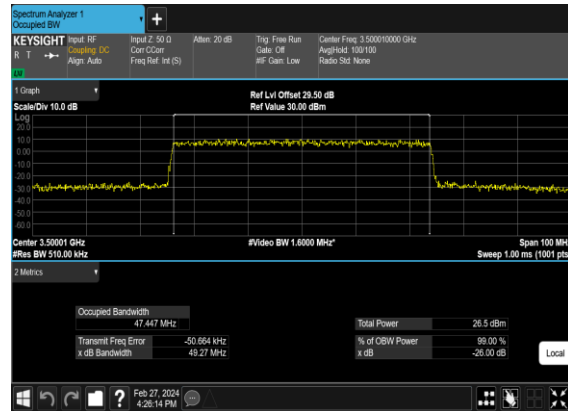
N77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



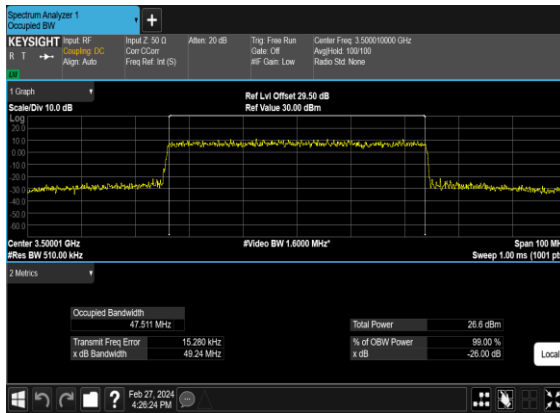
N77(50M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



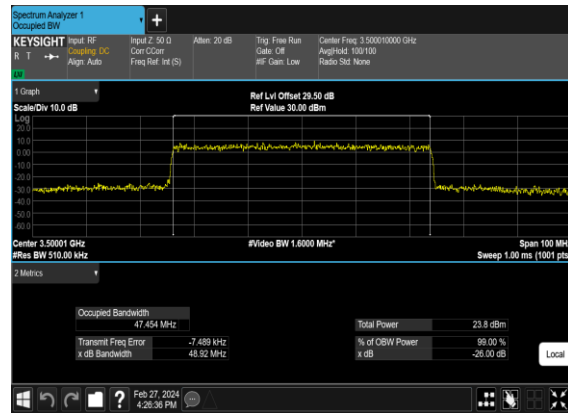
N77(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



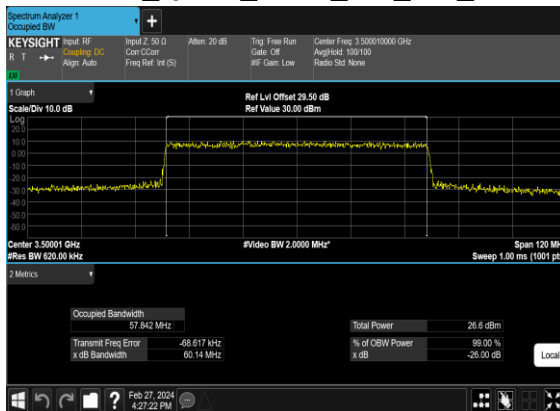
N77(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



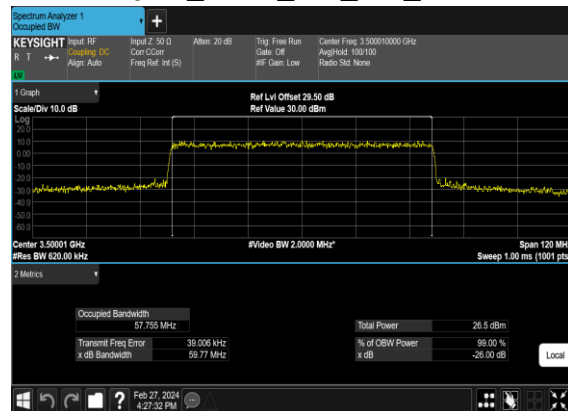
N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



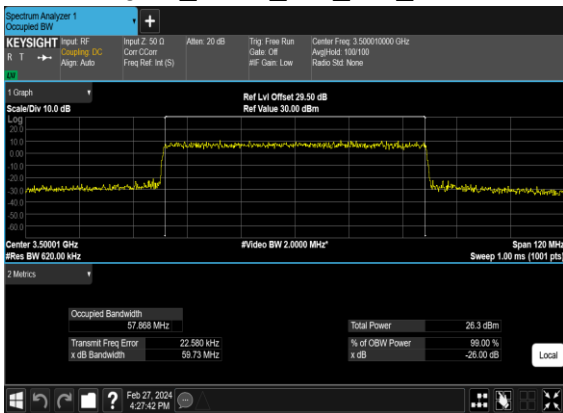
N77(60M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



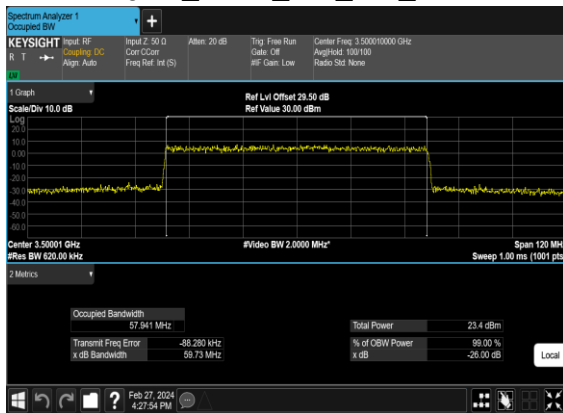
N77(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



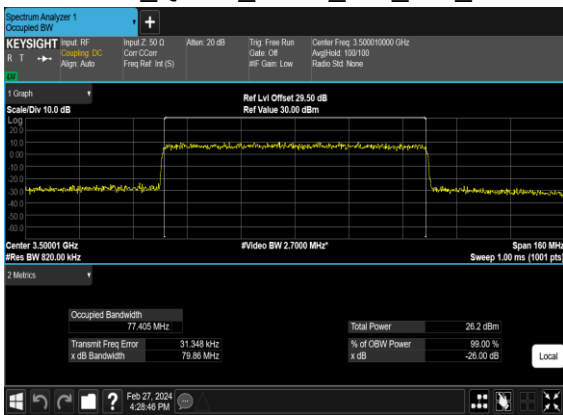
N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



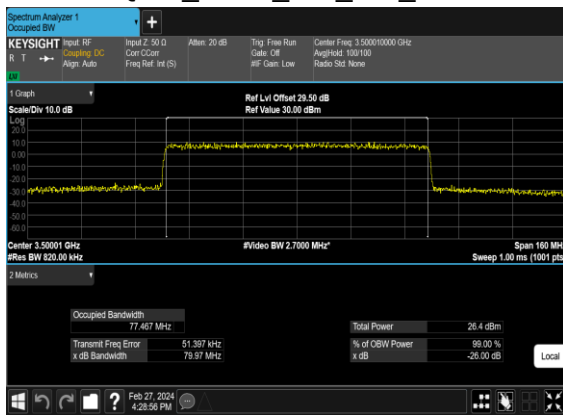
N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



N77(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

