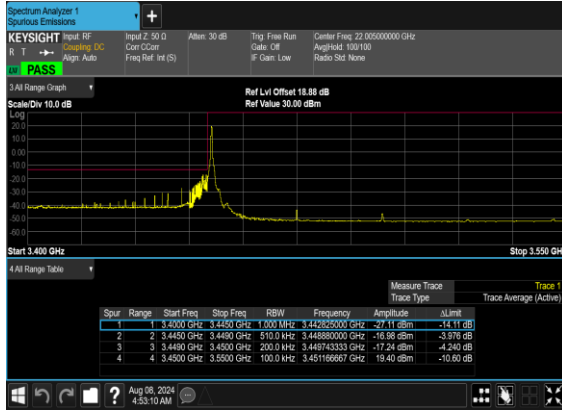
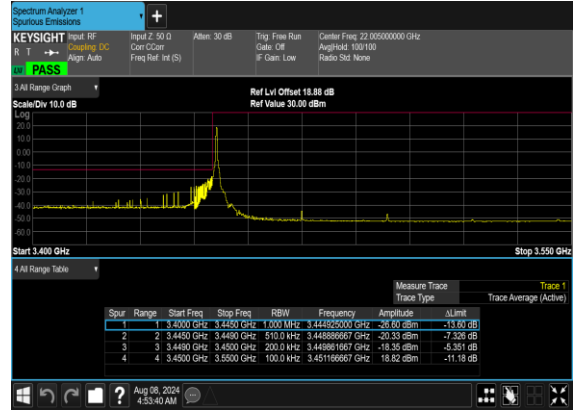




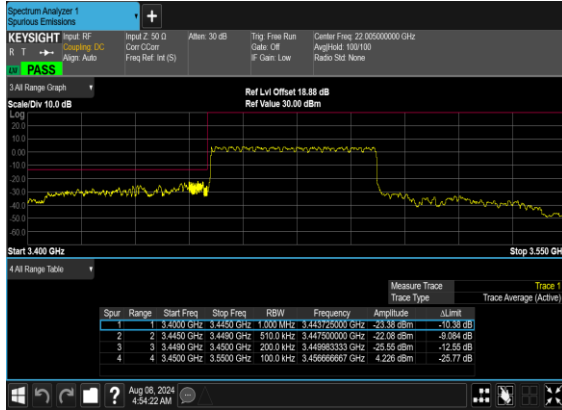
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



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

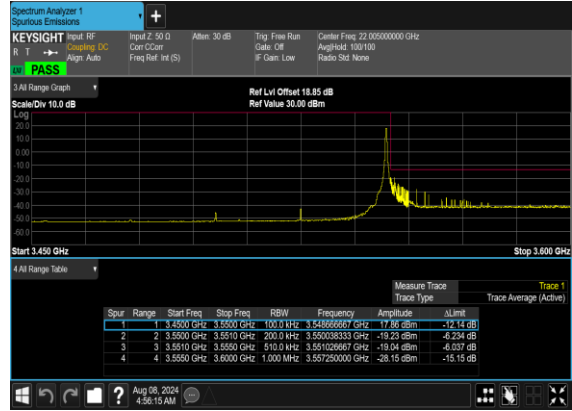




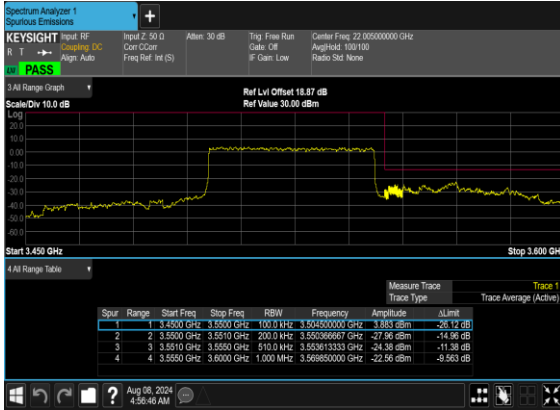
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



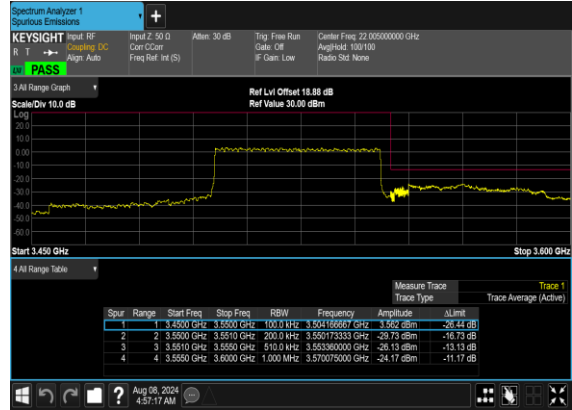
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

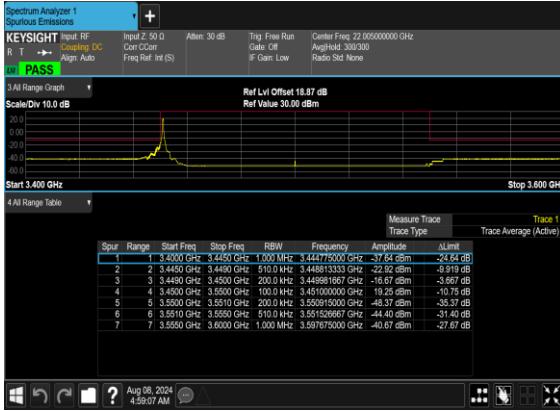


N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

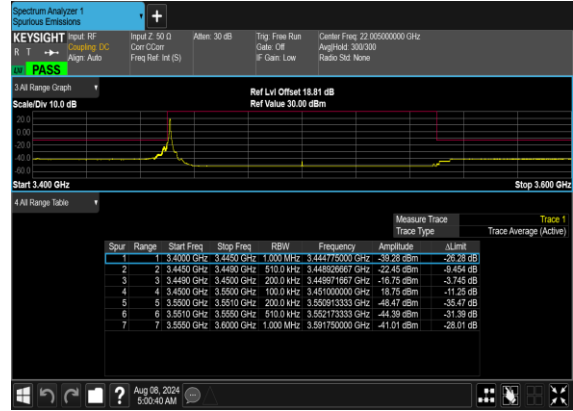




N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



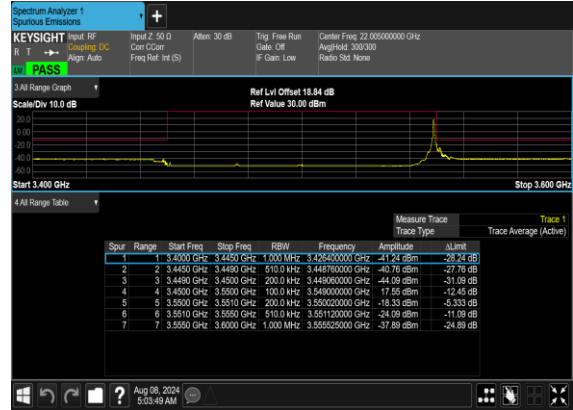
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

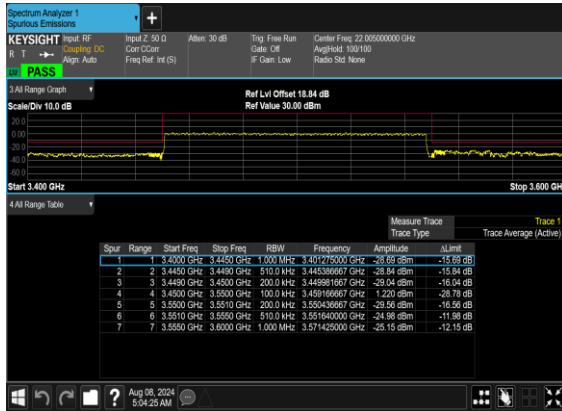


N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

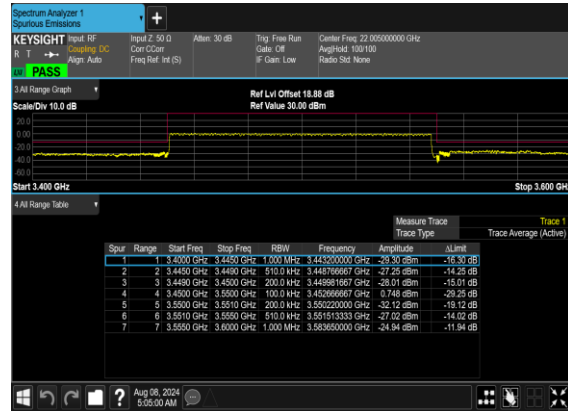




N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Software Version: 23.06.1602

FR1 N77 TXD-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	0.0059	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0054	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0029	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0022	PASS	-30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0031	PASS	-20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0054	PASS	-10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0039	PASS	0°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0037	PASS	10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0059	PASS	20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0069	PASS	30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0036	PASS	40°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0059	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	4.3	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	4.83	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

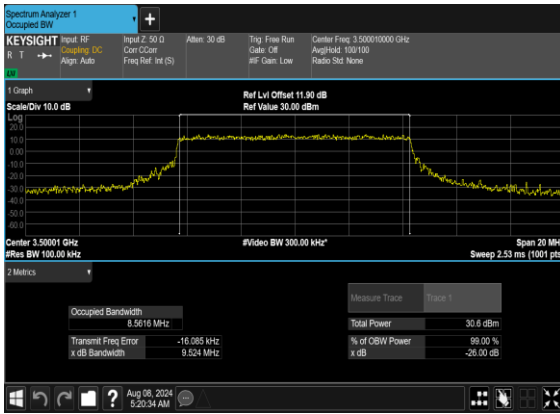
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5616	9.524
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.6227	9.668
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5886	9.467
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5919	9.764
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.548	14.79
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.572	14.61
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.606	14.67
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.577	15.48
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.256	19.16
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.242	19.64
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.159	19.99
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.244	19.96
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.204	24.66
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.22	26.81
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.244	24.37
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.243	24.56
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.872	29.29
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.891	29.2
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.855	29.16
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.81	29.05
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.801	39.42
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.806	39.5
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.966	39.34
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.811	39.61
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.507	48.98
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.64	49.14
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.506	49.27
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.449	49.24
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.957	59.73



77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.827	59.76
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.851	60.04
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.81	59.71
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.539	69.82
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.472	69.67
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.422	69.76
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.503	69.74
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.452	79.99
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.623	80.16
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.631	79.94
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.361	79.99
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.44	90.23
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.579	90.25
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.626	90.23
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.523	90.18
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.469	100.6
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.593	100.5
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.468	100.5
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.536	100.8



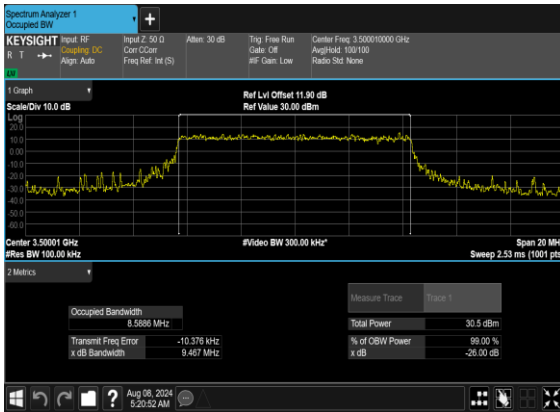
N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



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





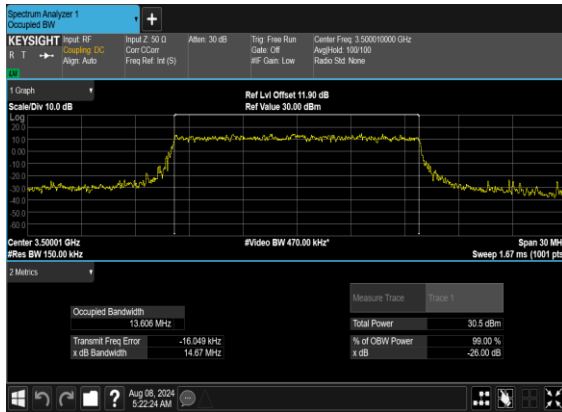
N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



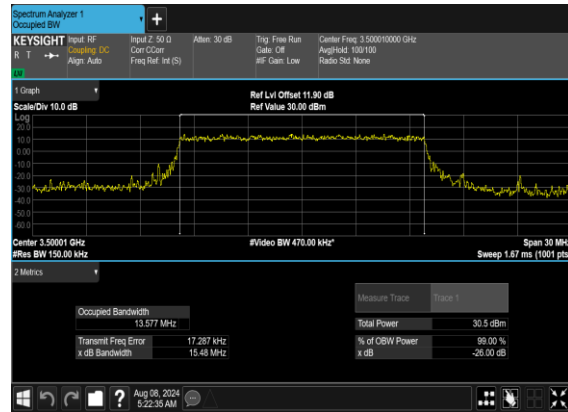
N77(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

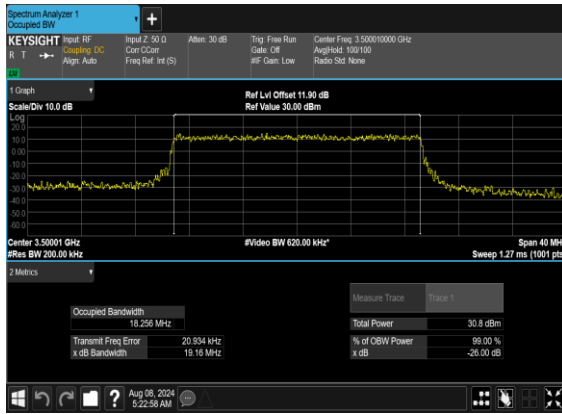


N77(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

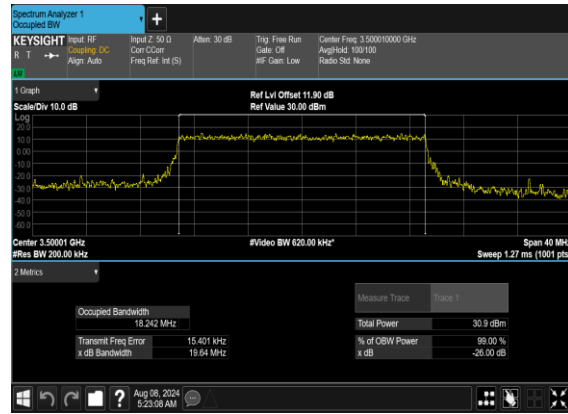




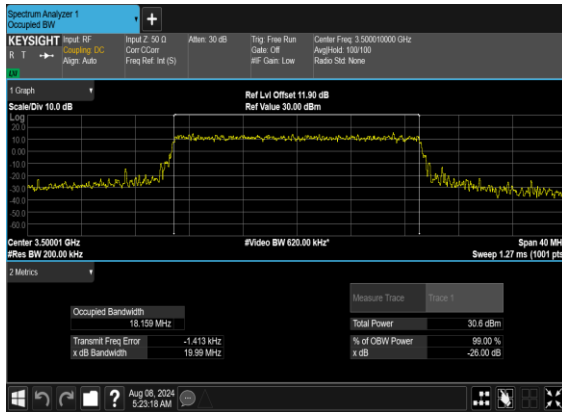
N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



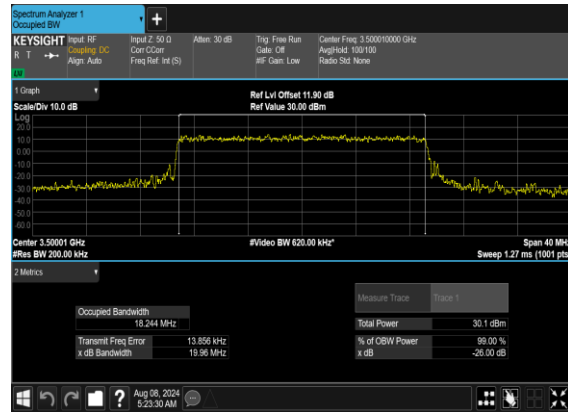
N77(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

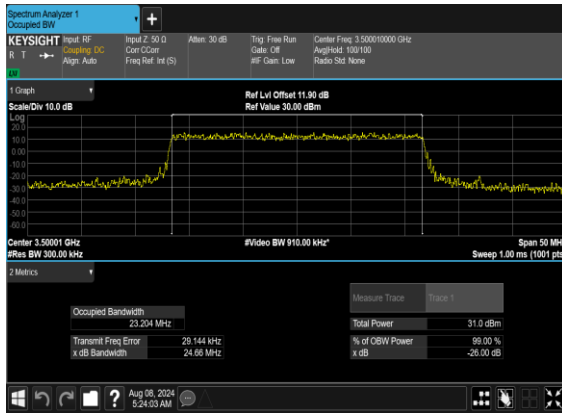


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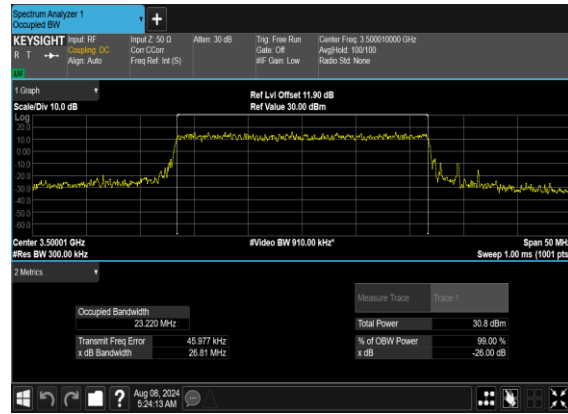




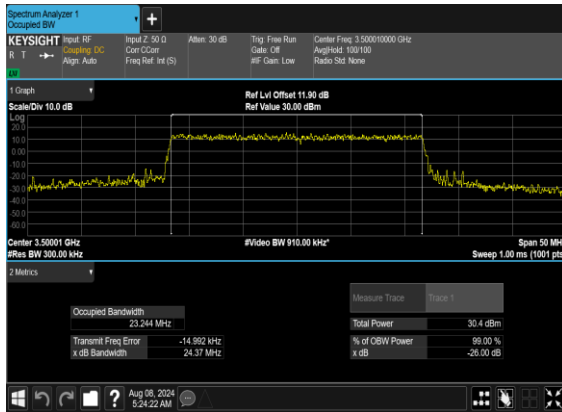
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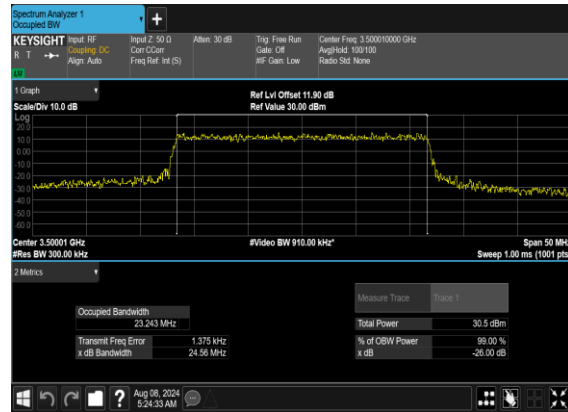
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N77(25M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

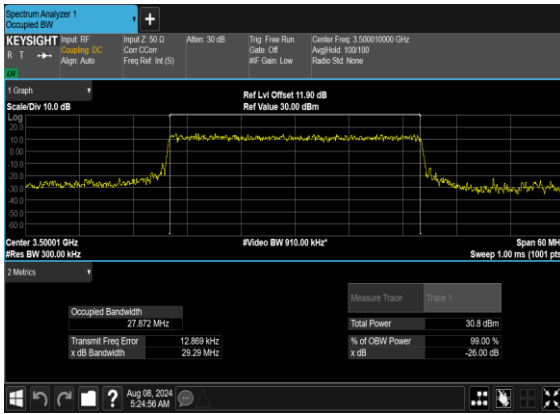


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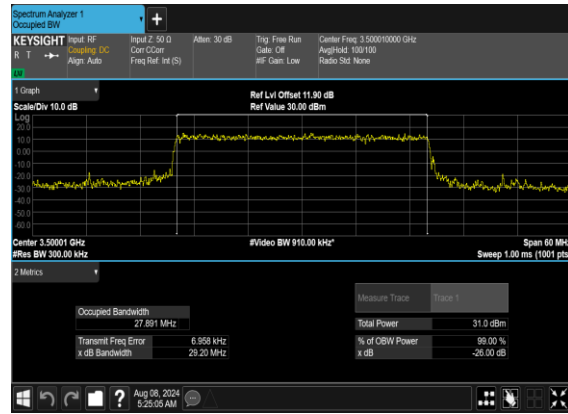




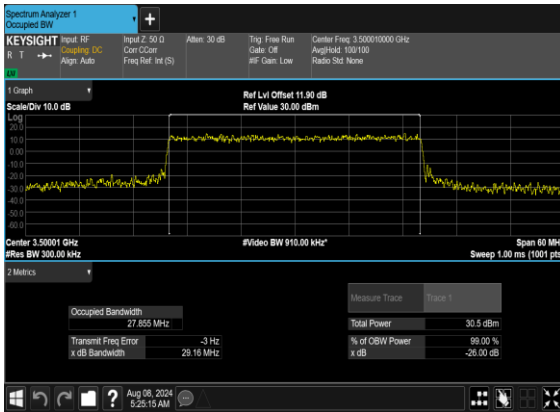
N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



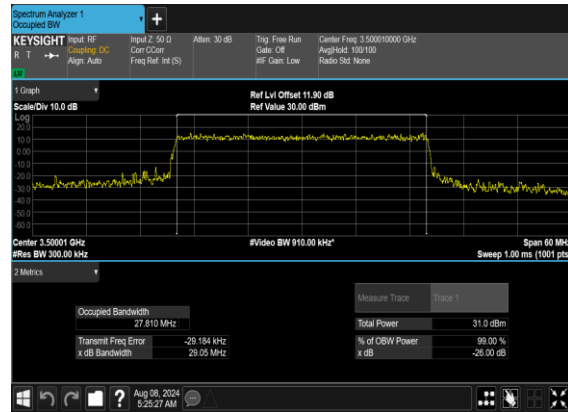
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N77(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

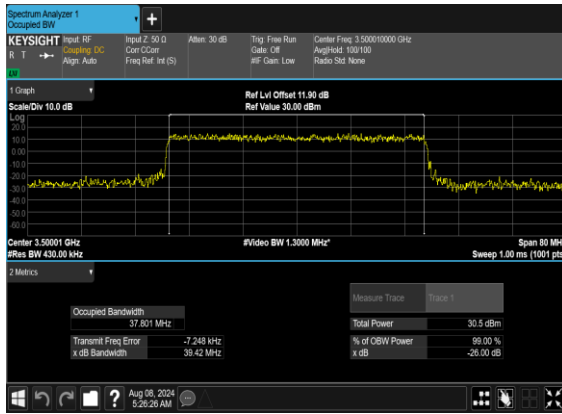


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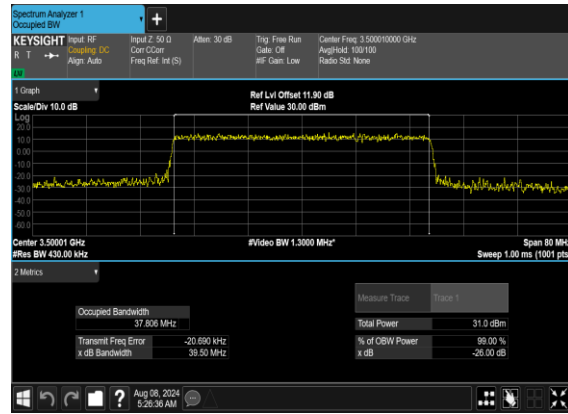




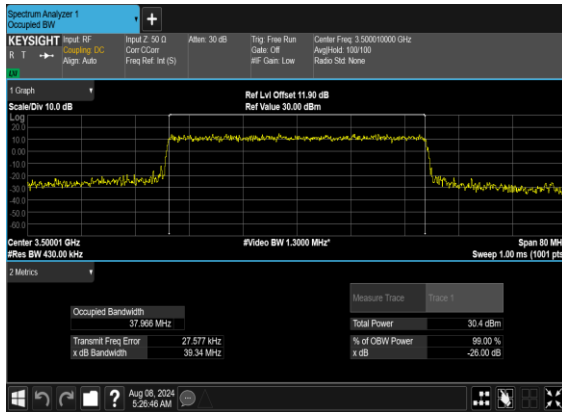
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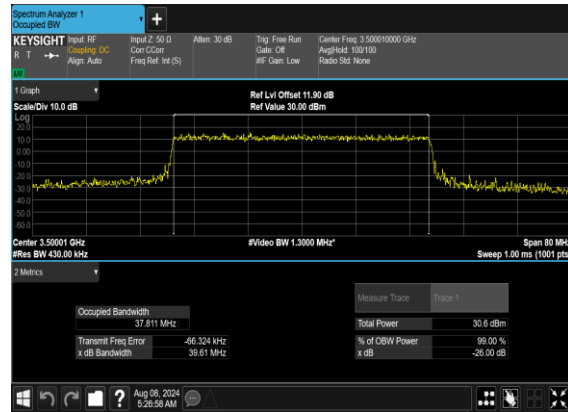
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N77(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

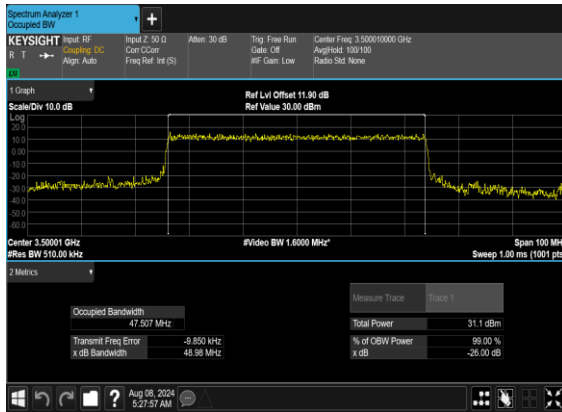


N77(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

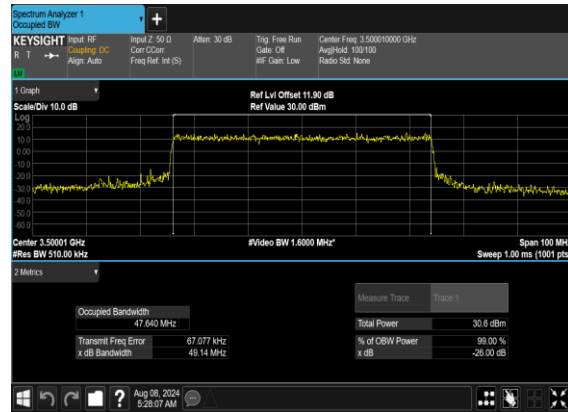




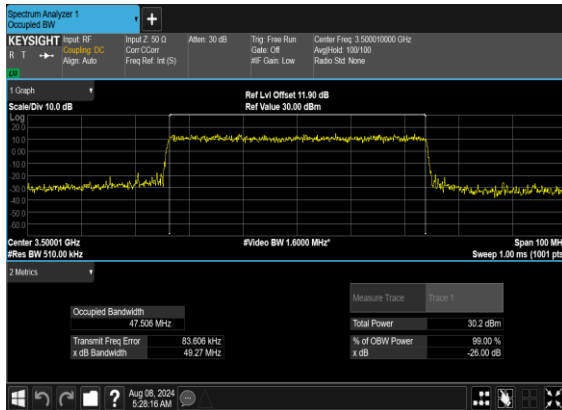
N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



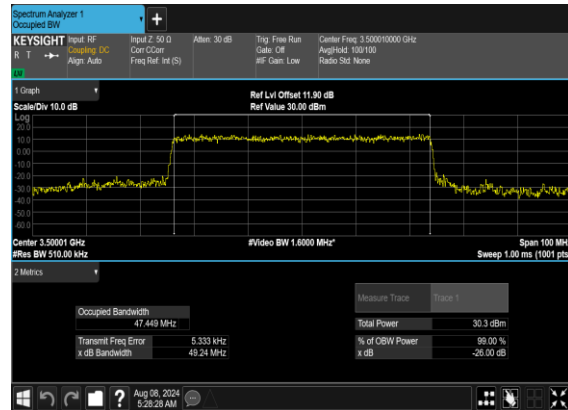
N77(50M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

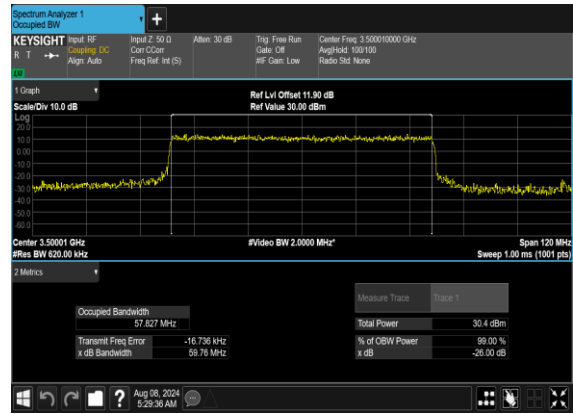




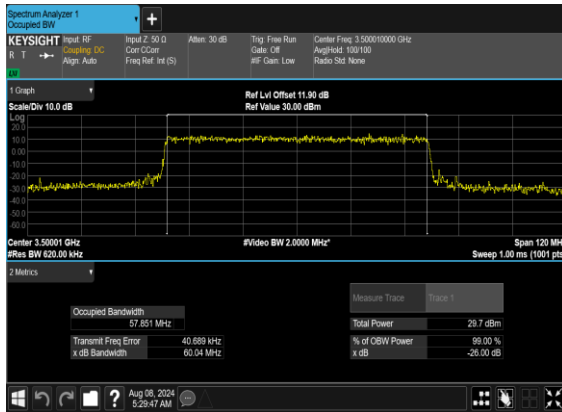
N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

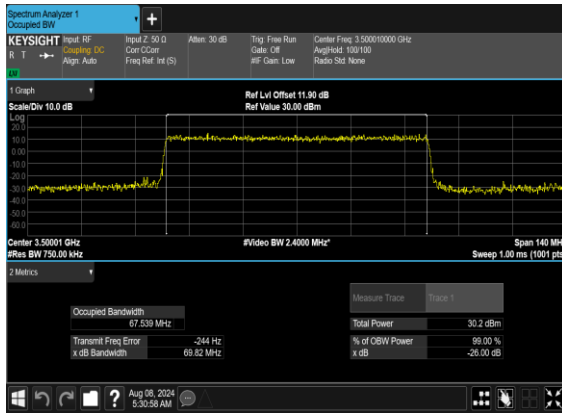


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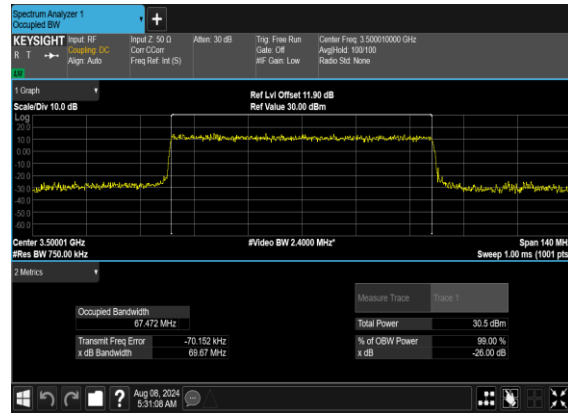




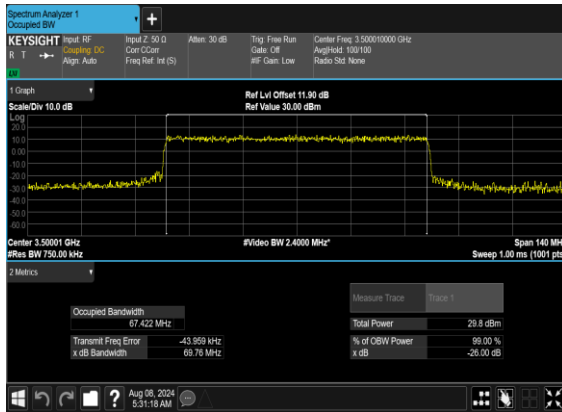
N77(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



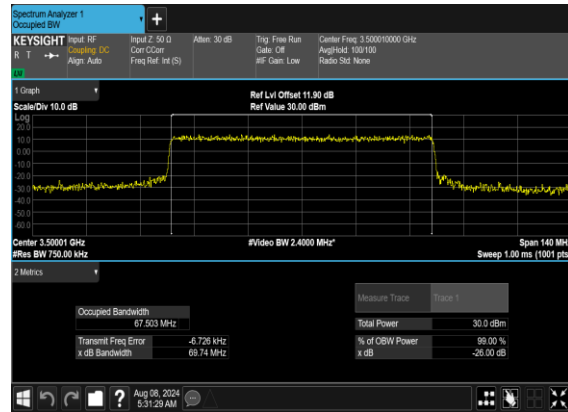
N77(70M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(70M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

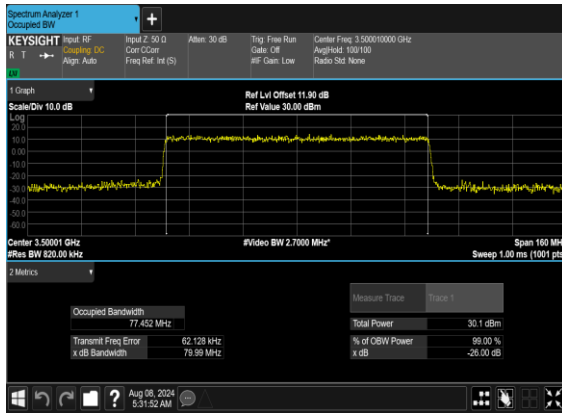


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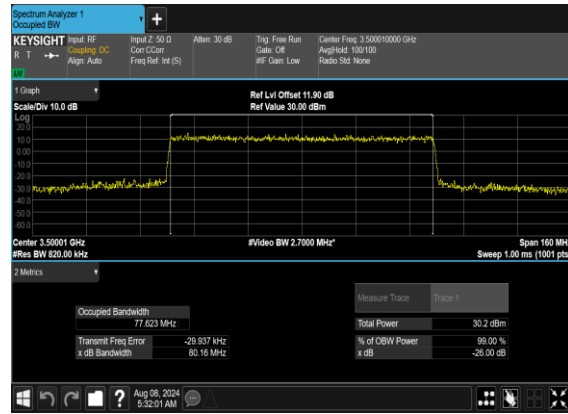




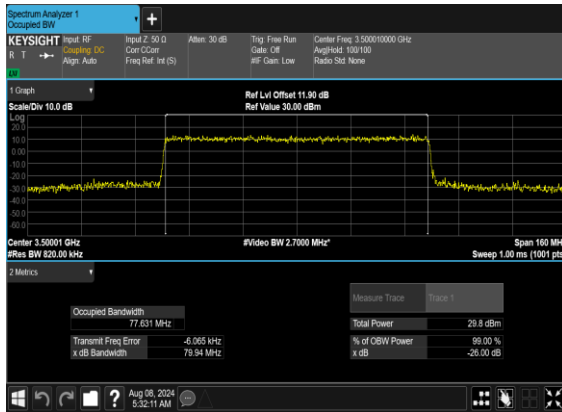
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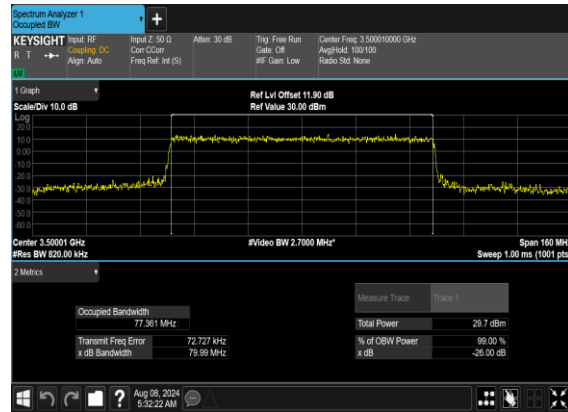
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N77(80M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

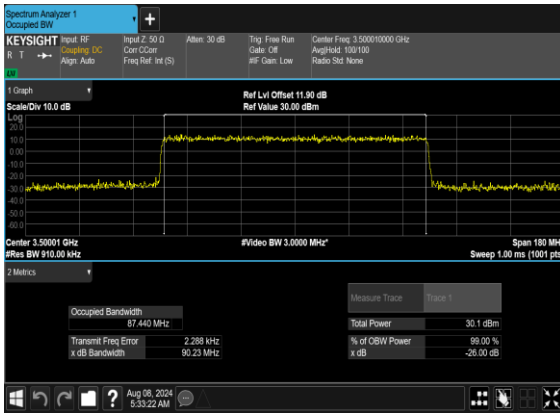


N77(80M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

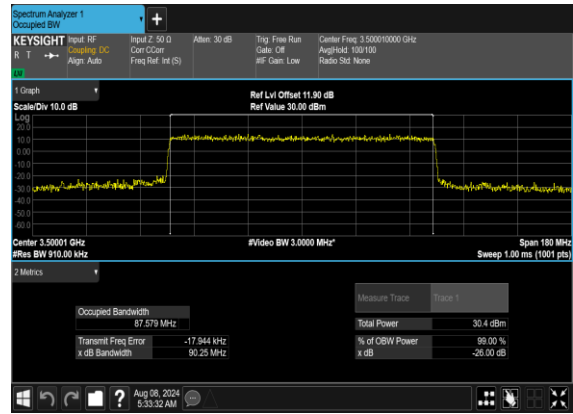




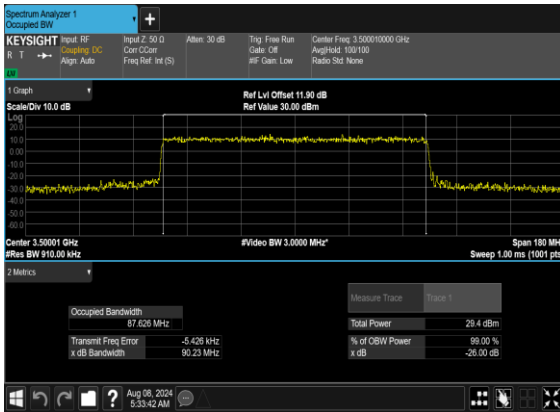
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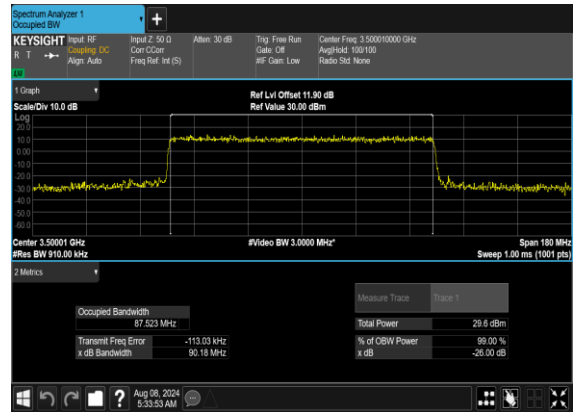
N77(90M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

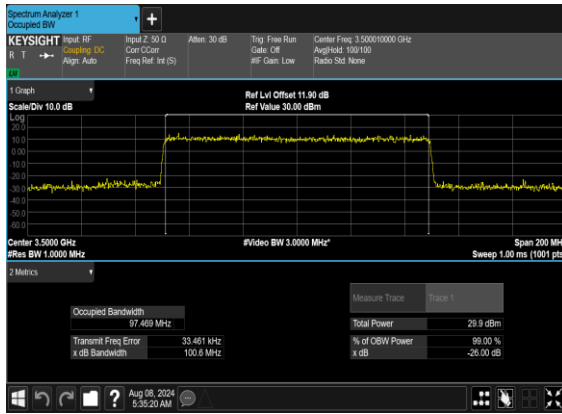


N77(90M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

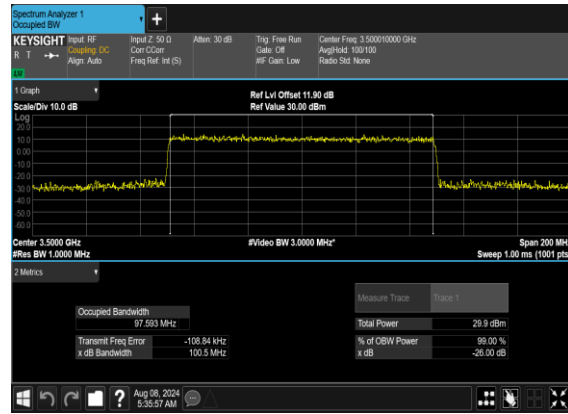




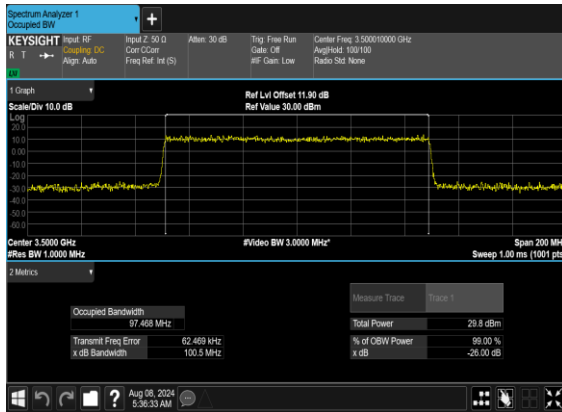
N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



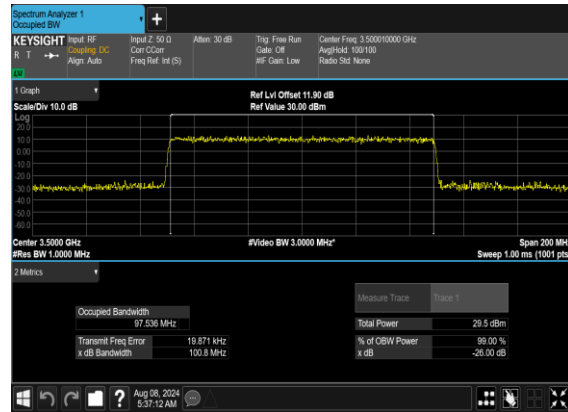
N77(100M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256QAM_Outer_Full_Mid_CH





Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS

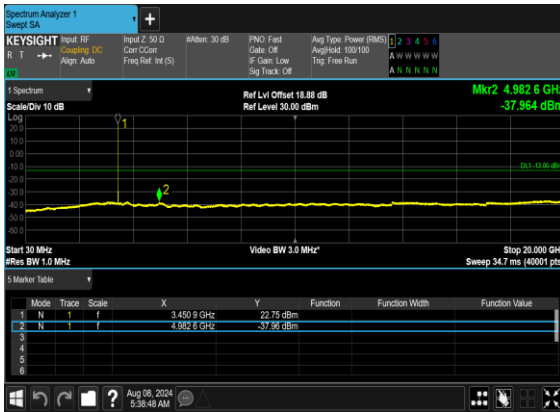


77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
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

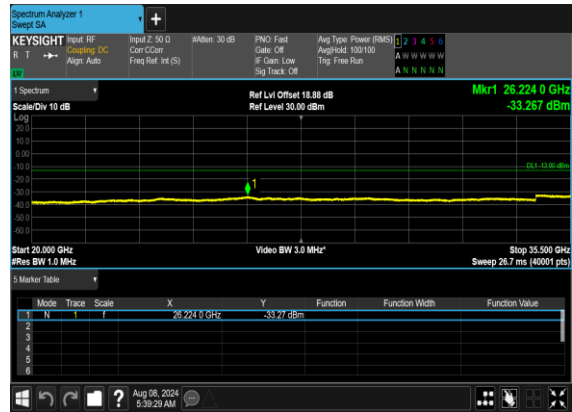




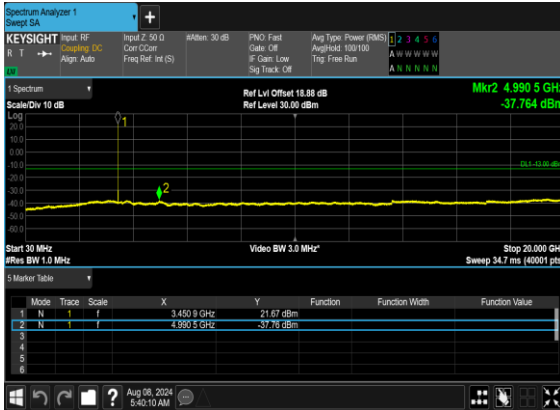
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



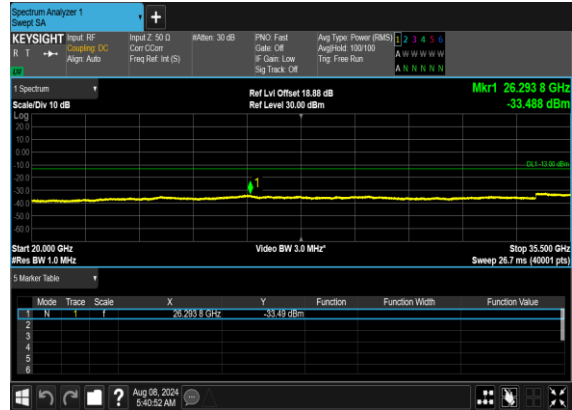
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

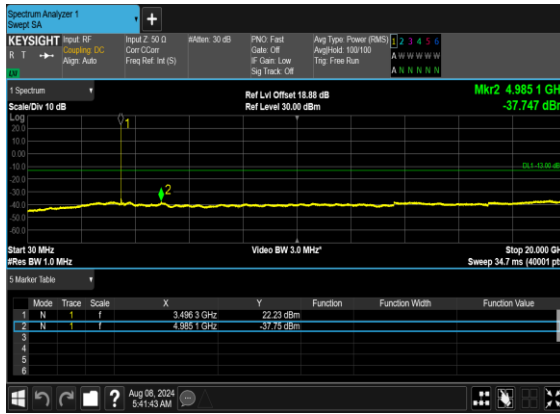


N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

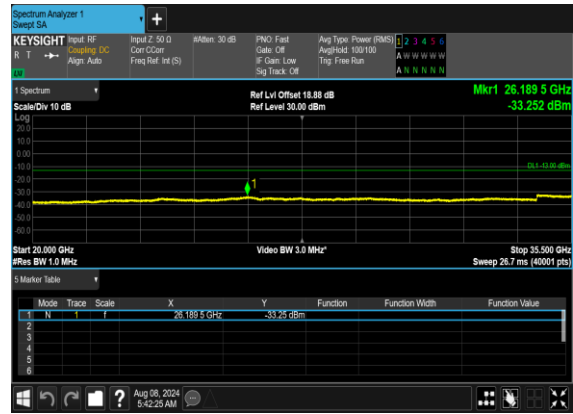




N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



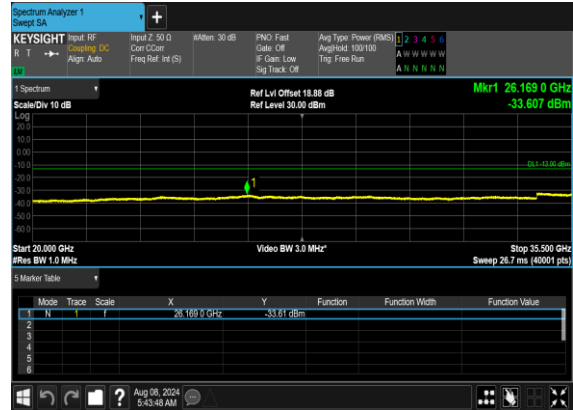
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

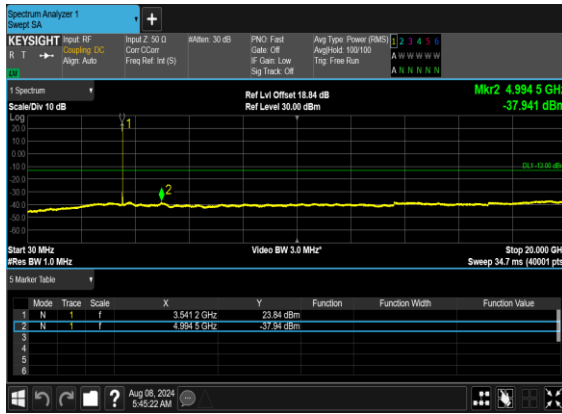


N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

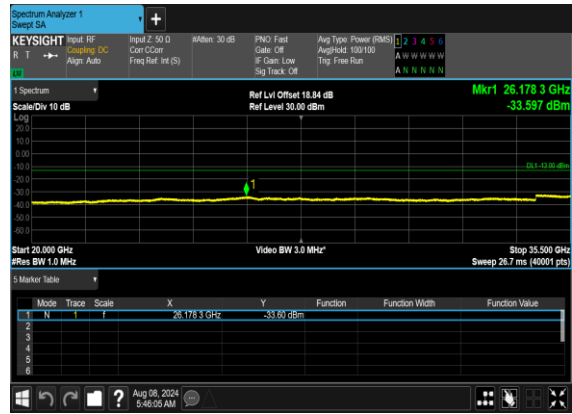




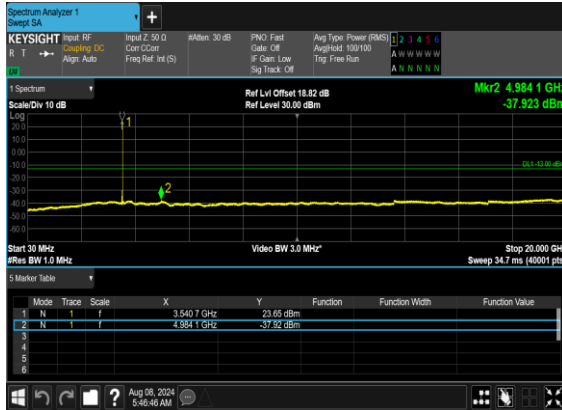
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



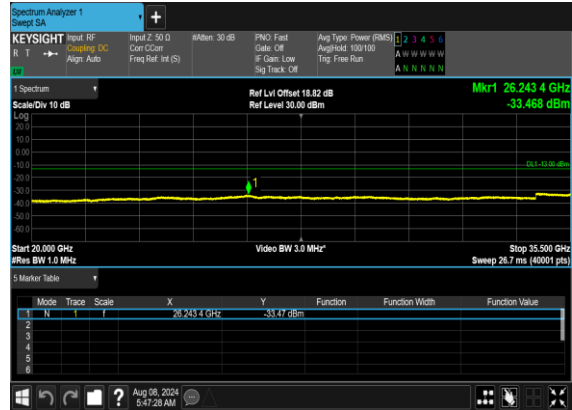
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

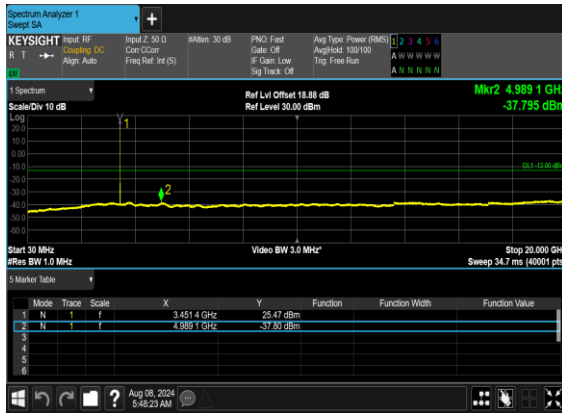


N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

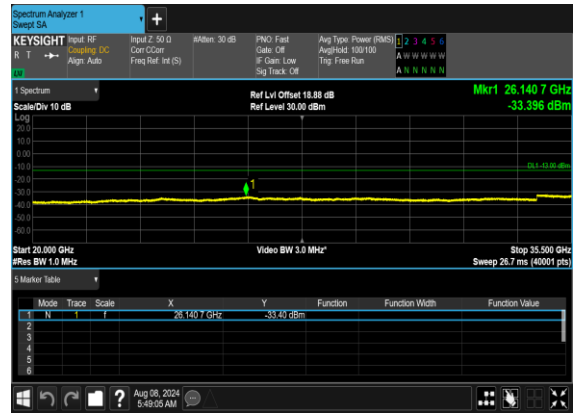




N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



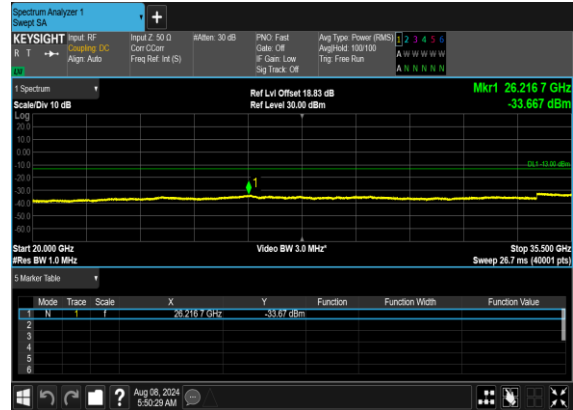
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

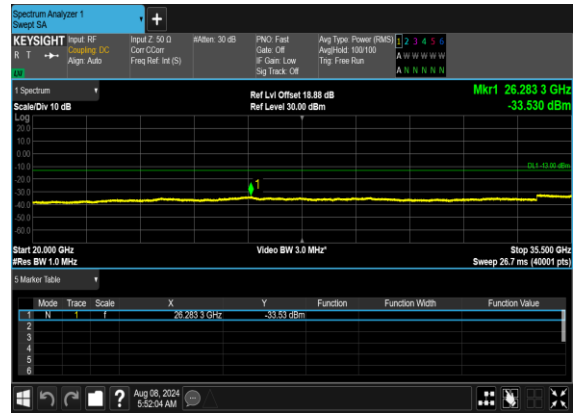




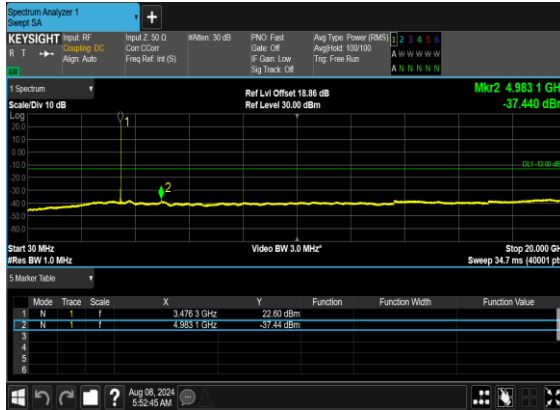
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



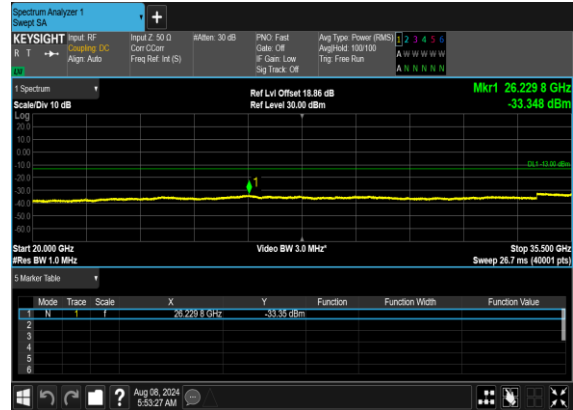
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

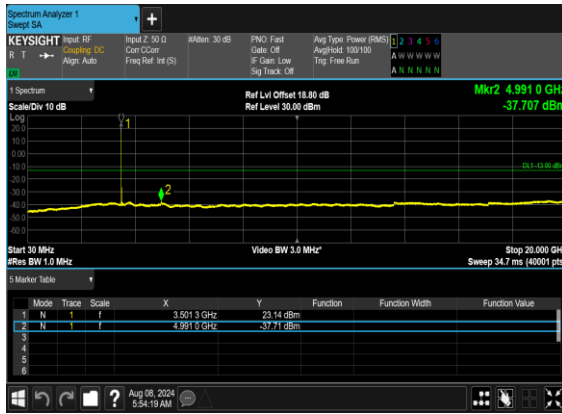


N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

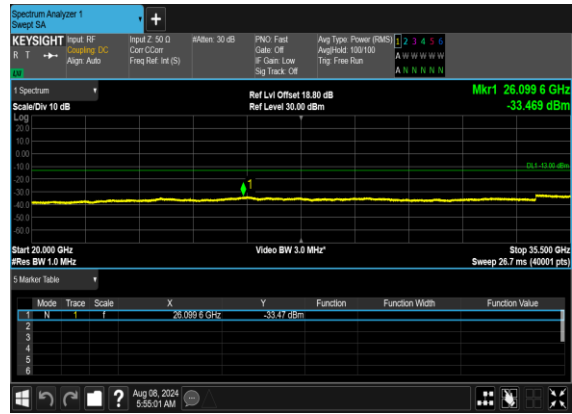




N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

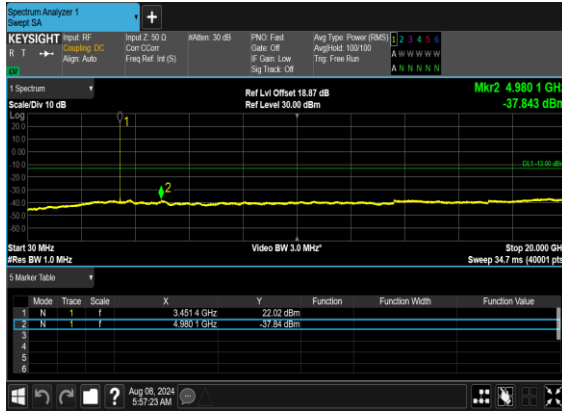


N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

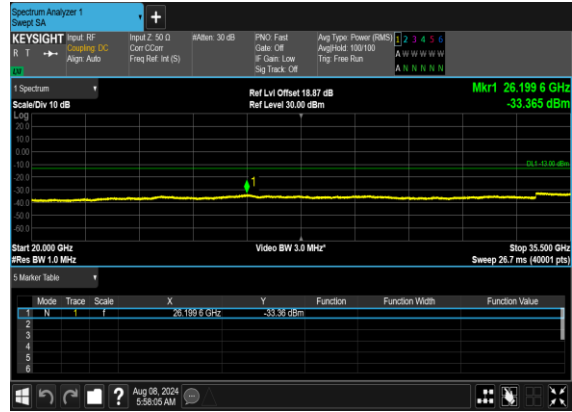




N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



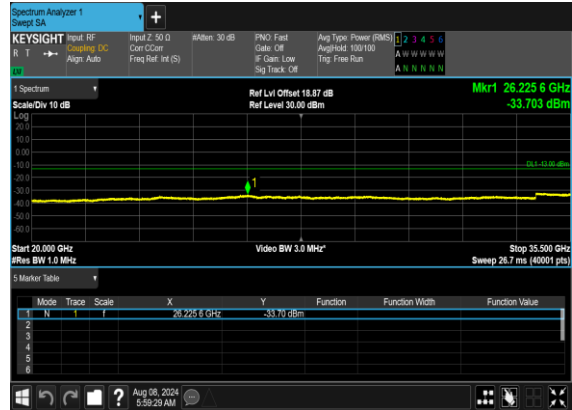
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



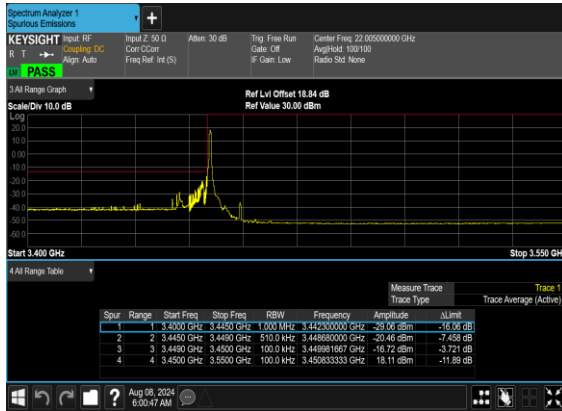


Conducted Band Edge

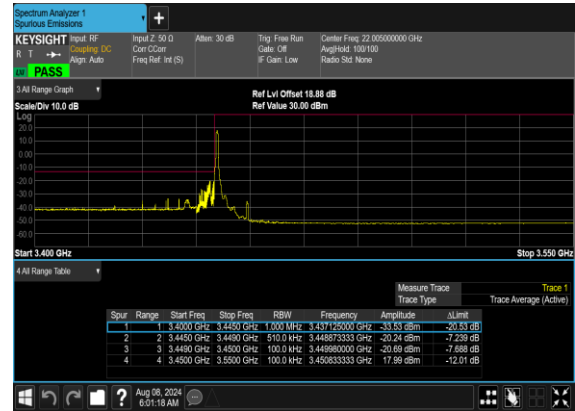
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@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	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	PASS



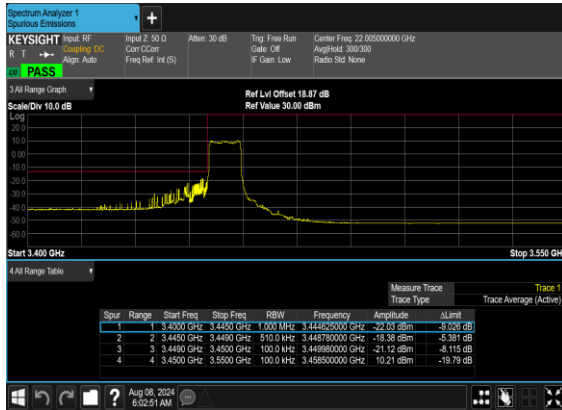
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



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

