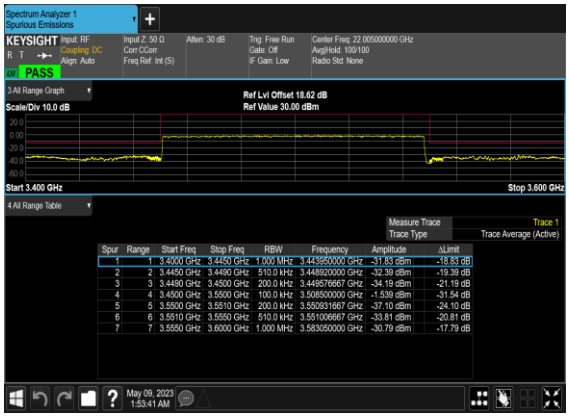
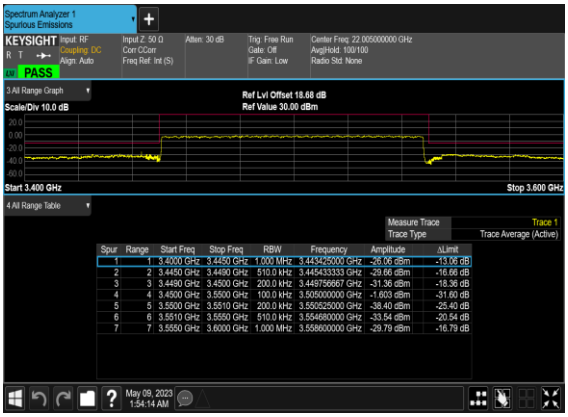
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

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: 23.04.2801

FR1 N77 (MIMO-ANT1) – SCS 30kHz

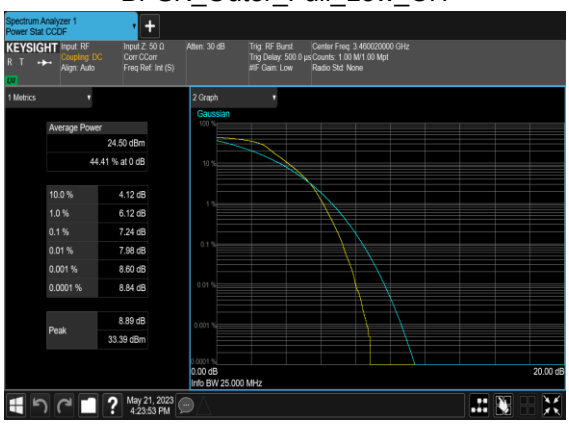
Frequency Stability

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	0.0027	**PASS**	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0064	**PASS**	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0034	**PASS**	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0021	**PASS**	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0056	**PASS**	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0021	**PASS**	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0030	**PASS**	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0022	**PASS**	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0027	**PASS**	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0053	**PASS**	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0044	**PASS**	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0061	**PASS**	50℃

Peak to Average Ratio

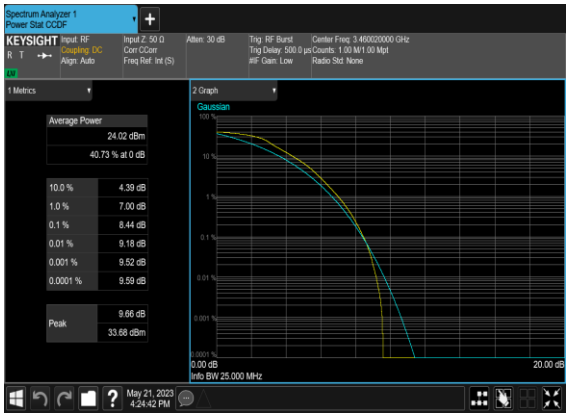
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	50@0	7.24	13	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@0	7.2	13	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	8.44	13	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	8.58	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	7.2	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	7.25	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.36	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	8.24	13	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@0	7.15	13	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	7.17	13	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	8.34	13	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	8.22	13	**PASS**

N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH

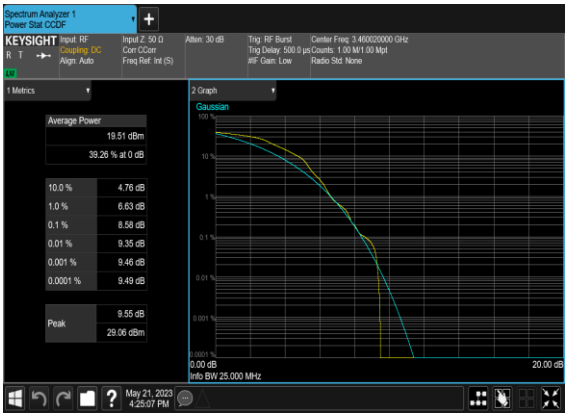


N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH

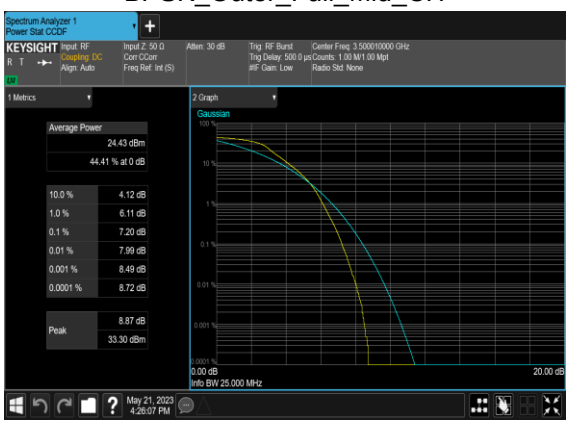
N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



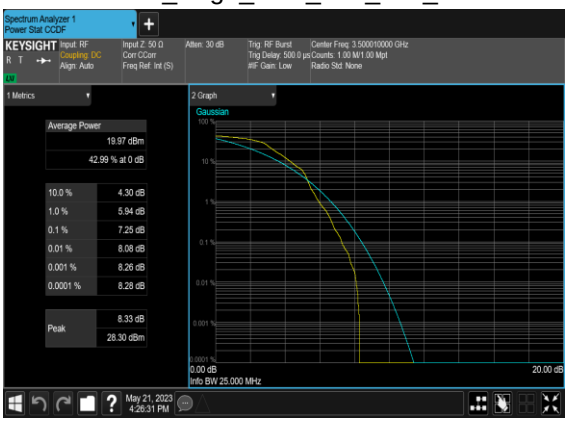
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



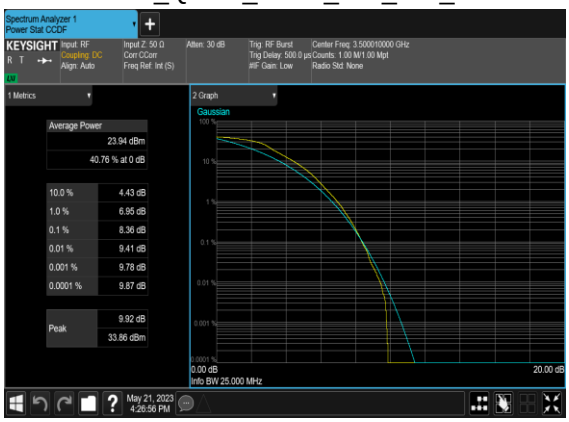
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



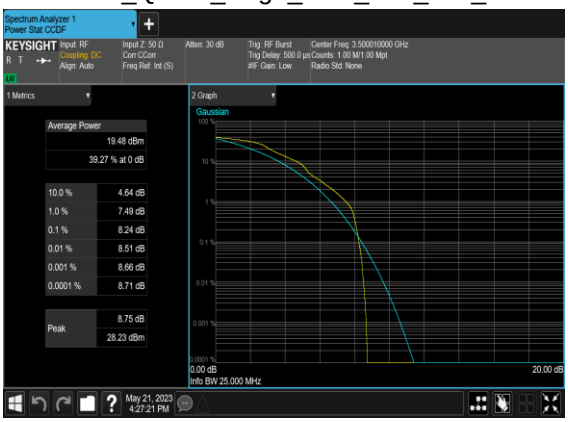
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



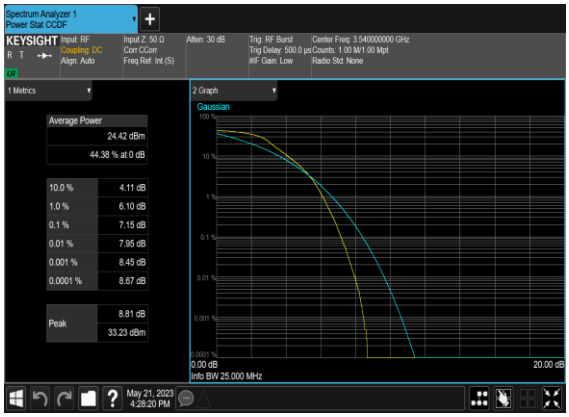
N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



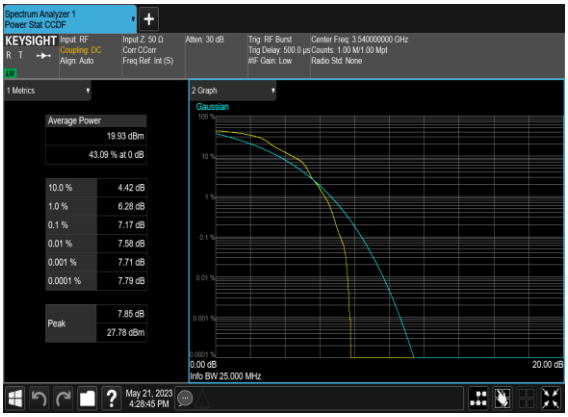
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

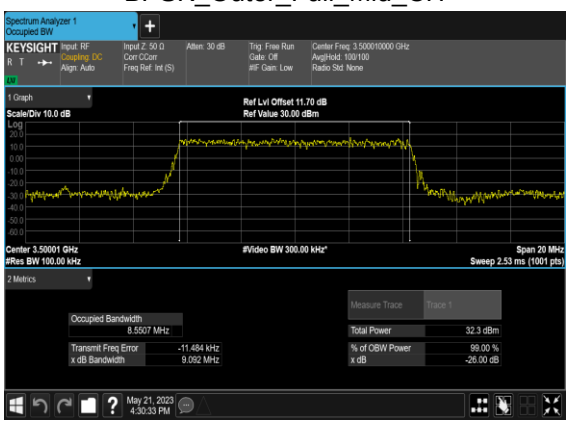
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	24@0	8.5507	9.092
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	24@0	8.5553	9.246
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5694	9.203
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5589	9.248
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5912	9.153
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5687	9.028
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@0	12.859	13.48
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	36@0	12.799	13.53
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.568	14.31
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.55	14.39
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.529	14.28
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.595	14.14
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.841	18.55
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.844	18.5
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.187	19.05
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.18	19.0
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.145	18.93
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.223	18.88
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@0	22.851	23.69
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	64@0	22.719	23.59
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.19	24.02
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.094	24.12
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.185	24.08
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.185	24.03
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.765	27.9

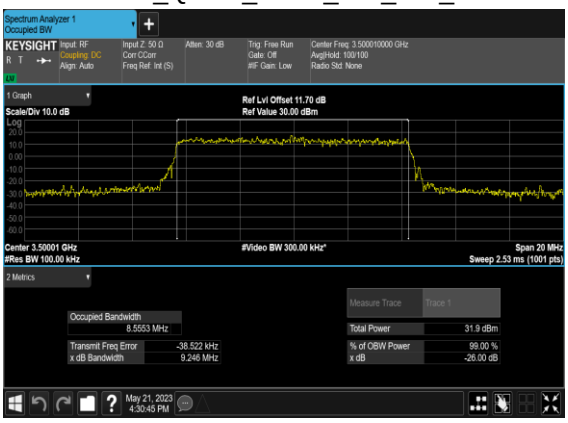
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	75@0	26.734	27.85
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.822	29.02
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.778	28.88
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.722	28.79
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.754	29.03
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.809	37.09
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.633	37.02
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.84	39.16
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.798	39.11
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.766	39.13
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.914	39.11
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.691	47.21
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	128@0	45.691	47.26
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.489	49.18
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.537	49.1
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.608	48.99
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.386	49.13
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.823	59.66
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	57.965	59.69
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.806	59.69
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.767	59.71
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.726	59.7
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.673	59.73
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	180@0	64.224	66.37
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	180@0	64.069	66.38
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.4	69.47
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.497	69.67

77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.477	69.51
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.238	69.63
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.493	79.54
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	77.188	79.66
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.385	79.93
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.489	79.91
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.457	79.88
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.332	80.0
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	240@0	85.837	88.47
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	240@0	85.932	88.37
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.614	90.32
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.412	90.1
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.589	90.23
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.504	90.07
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.508	99.51
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	96.464	99.43
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.383	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.403	100.5
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.321	100.6
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.333	100.5

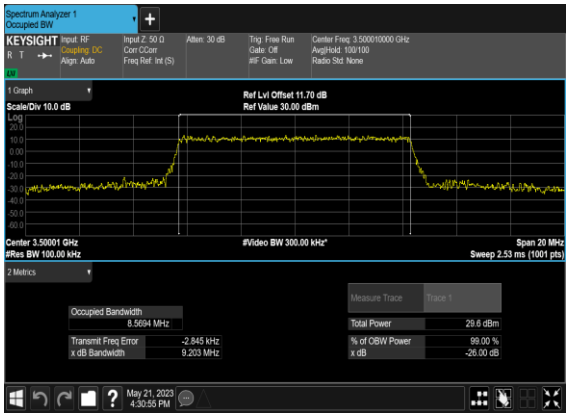
N77(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



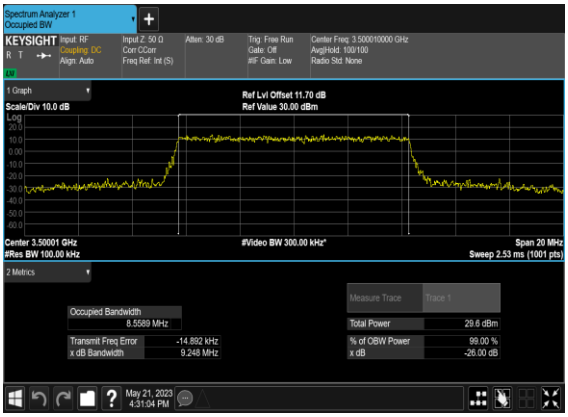
N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



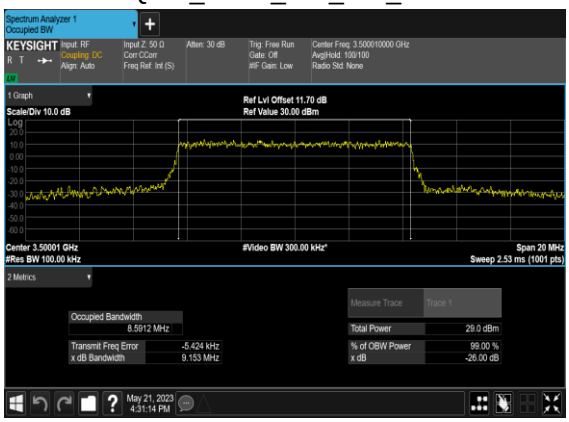
N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



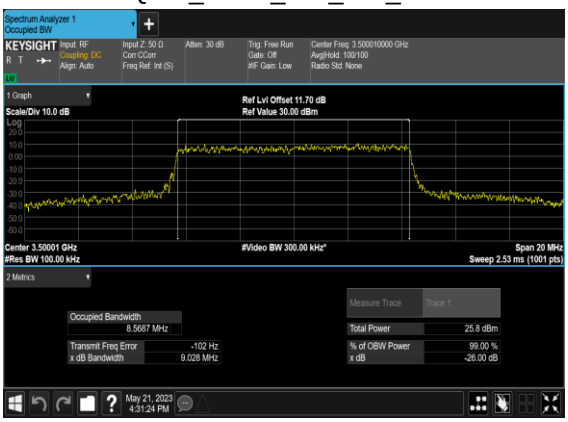
N77(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



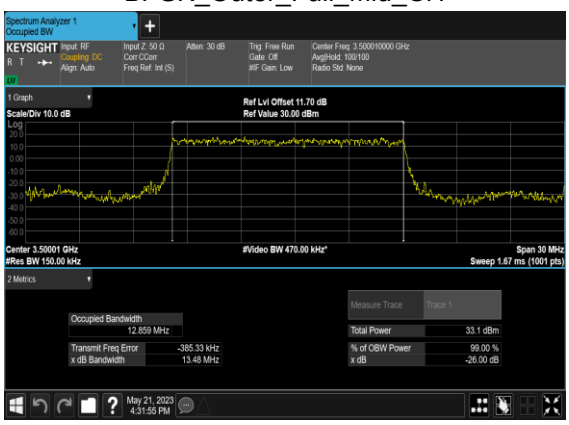
N77(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



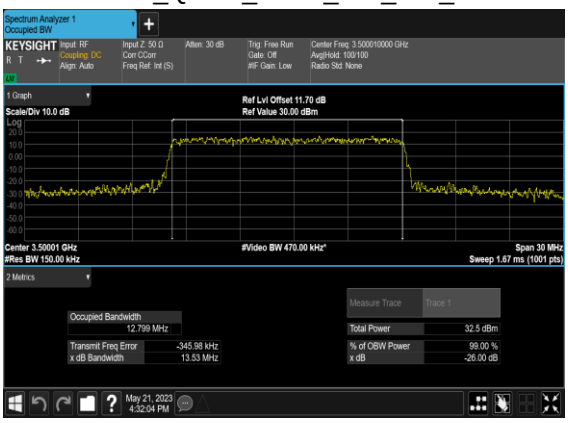
N77(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



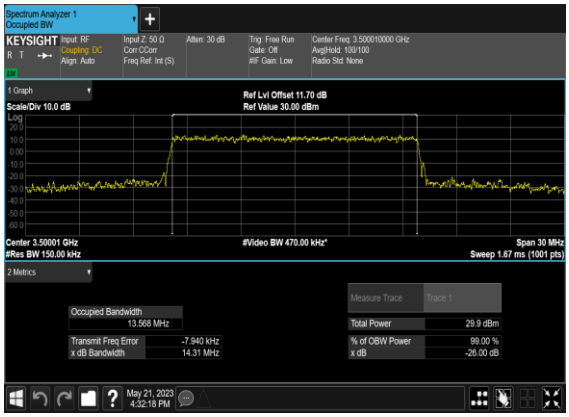
N77(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



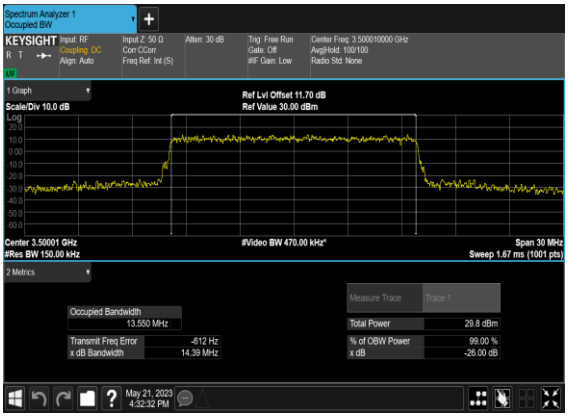
N77(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



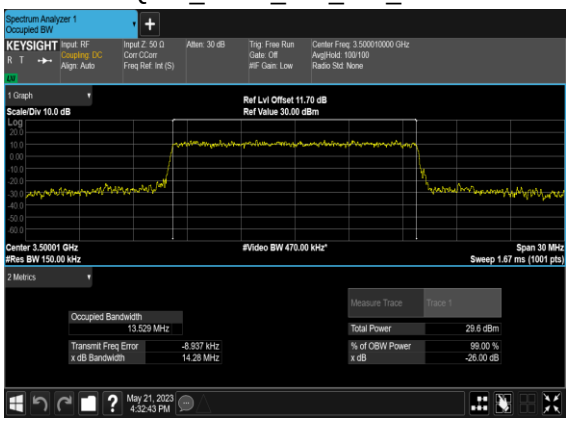
N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



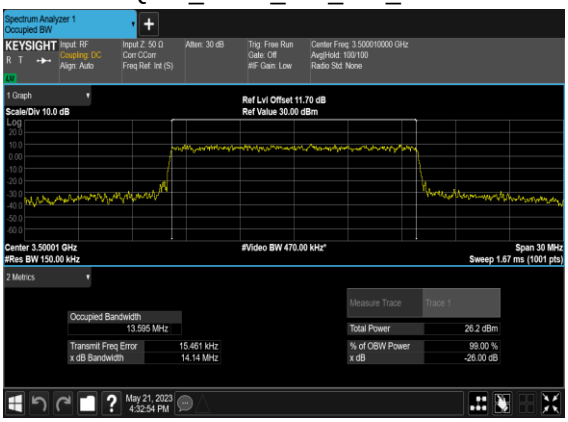
N77(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



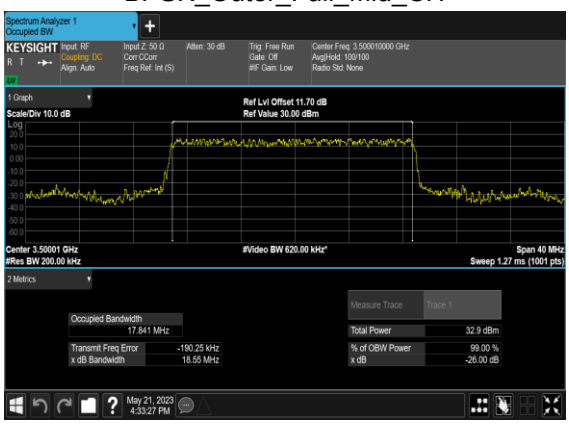
N77(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



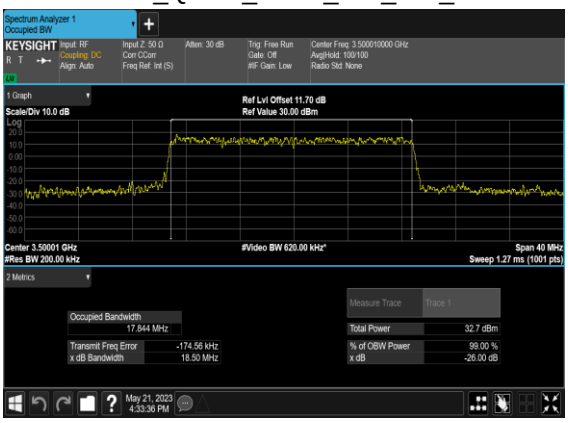
N77(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



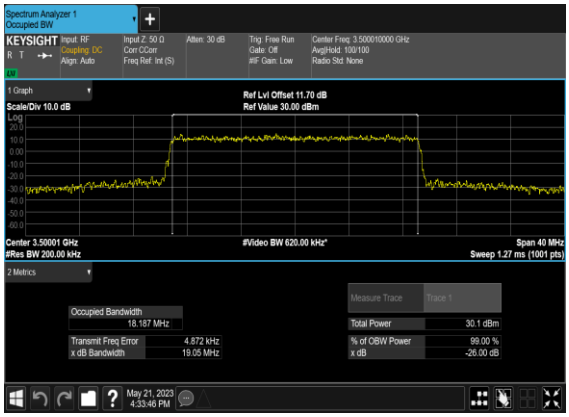
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



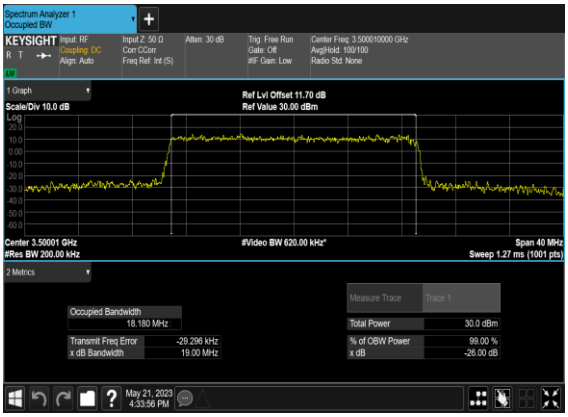
N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



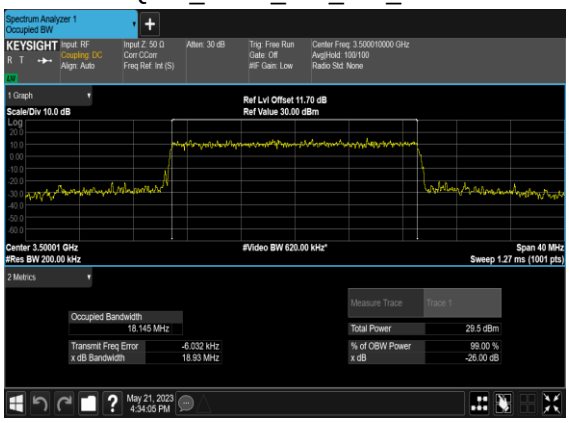
N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



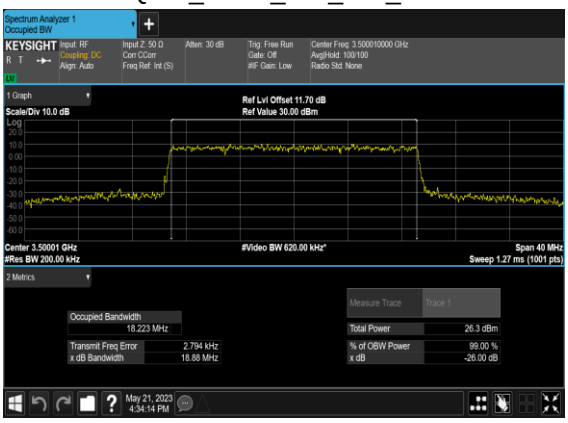
N77(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



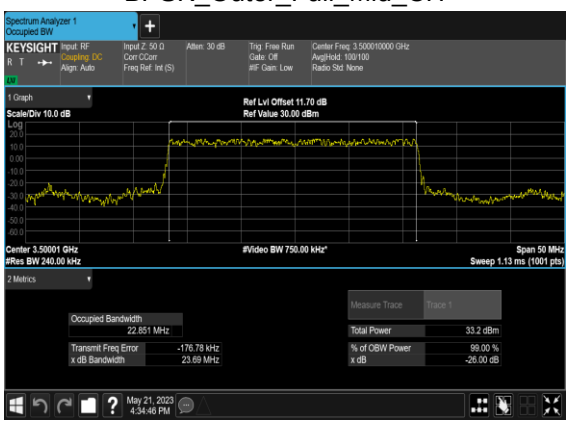
N77(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



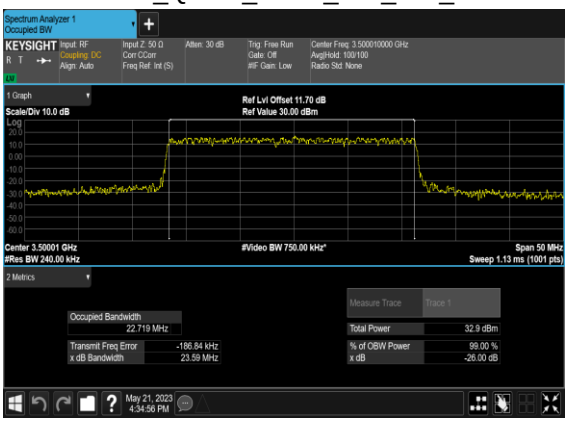
N77(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



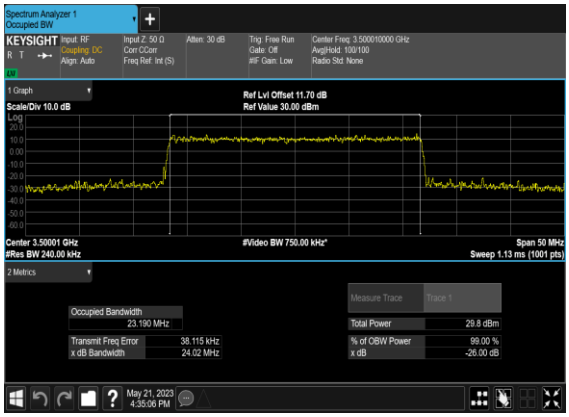
N77(25M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



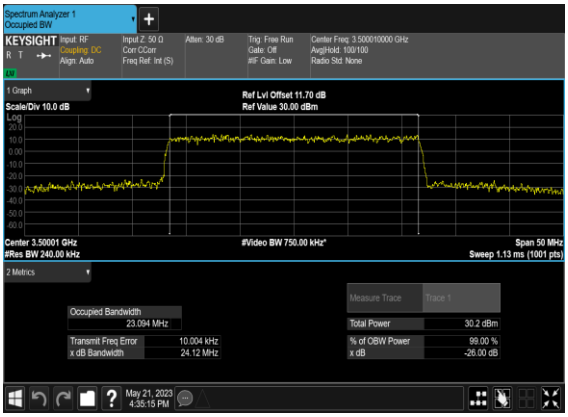
N77(25M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



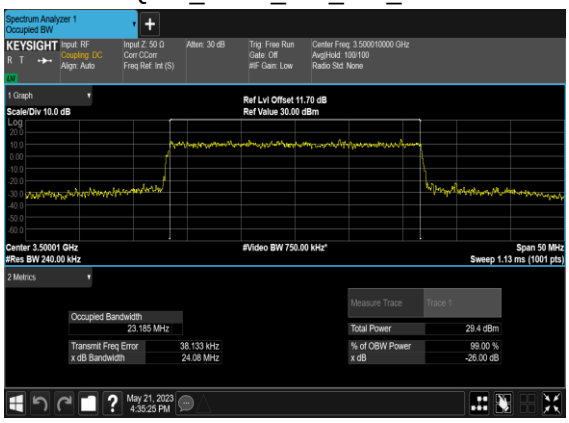
N77(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



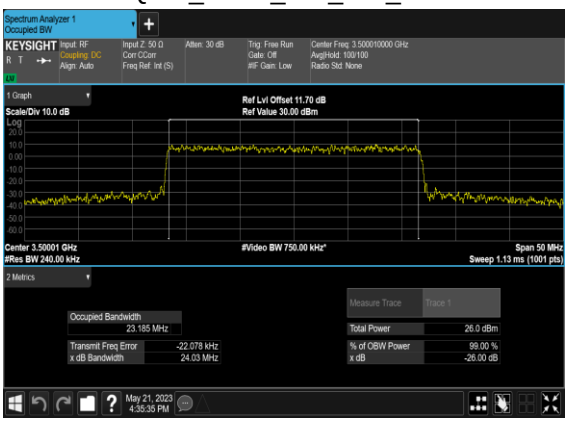
N77(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



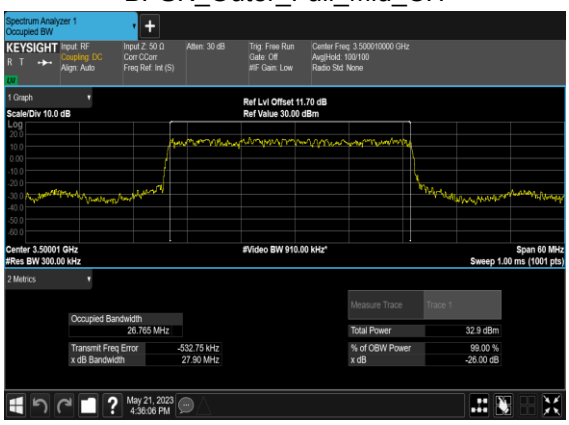
N77(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



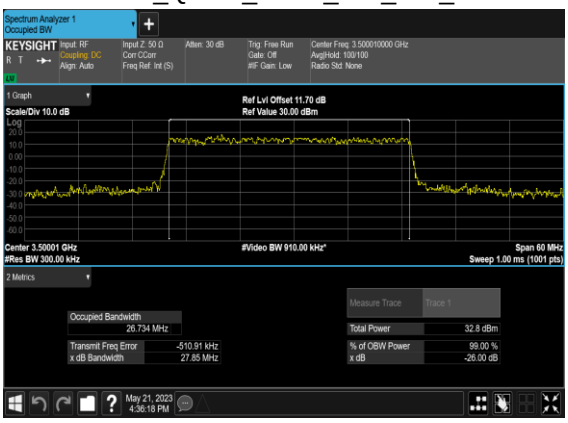
N77(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



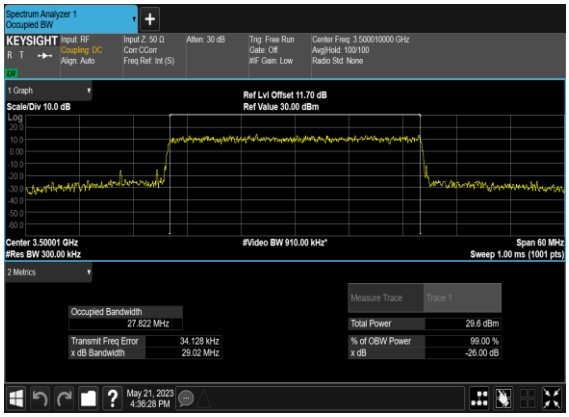
N77(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



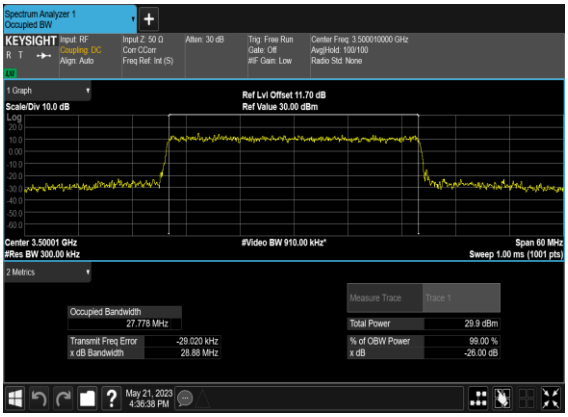
N77(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



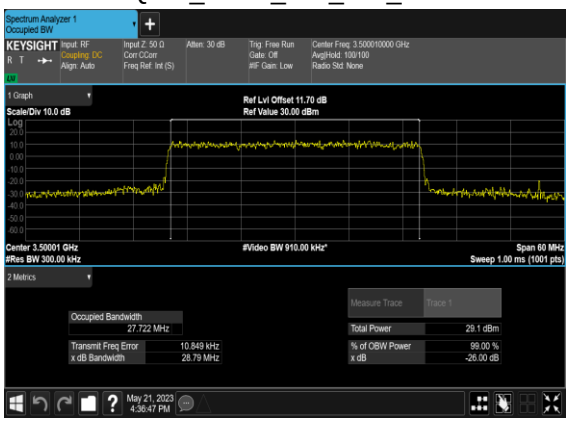
N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



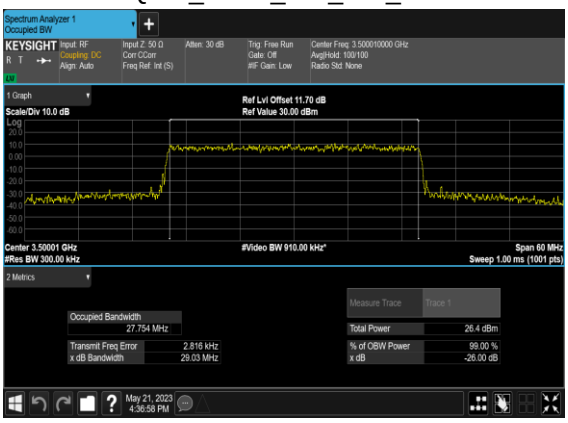
N77(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



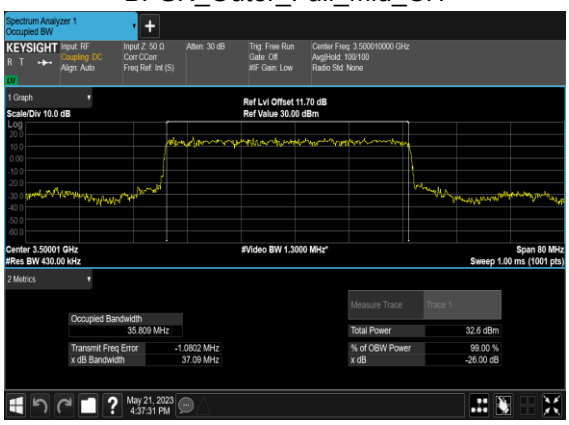
N77(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



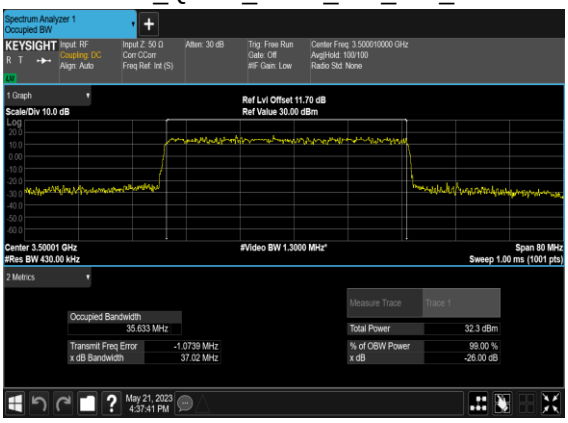
N77(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



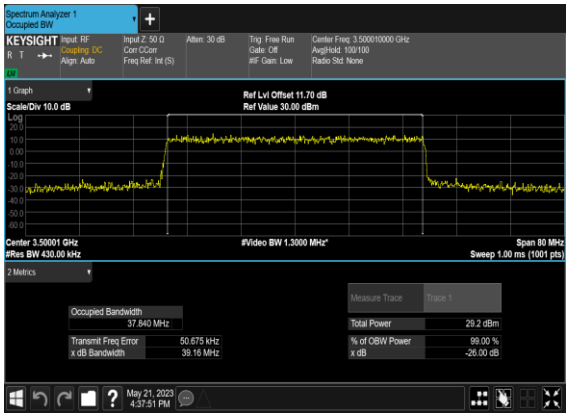
N77(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



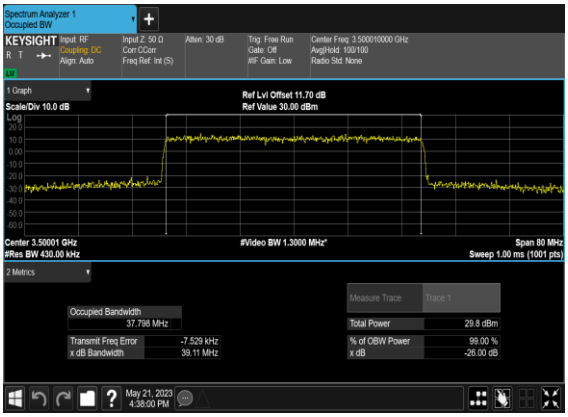
N77(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



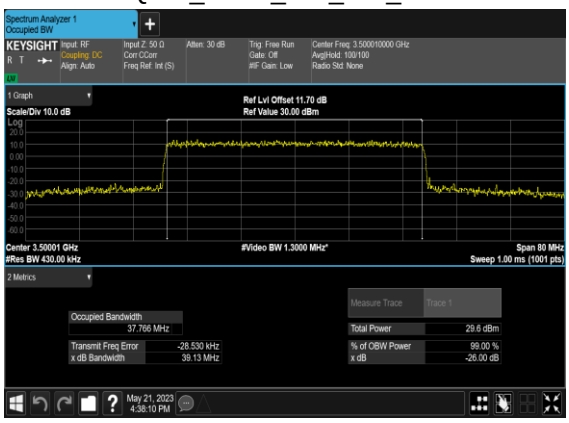
N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



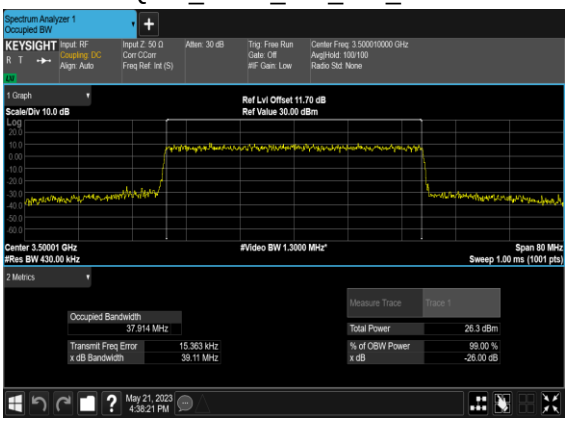
N77(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



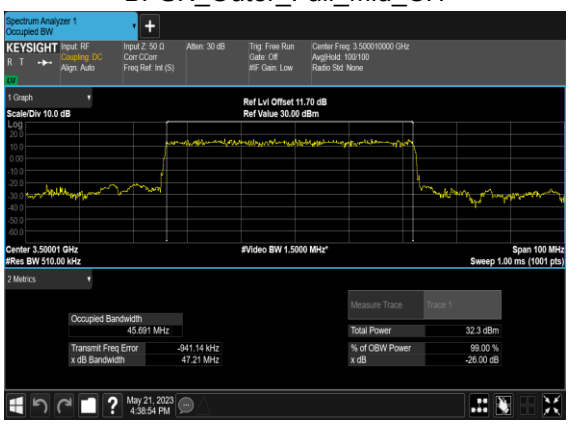
N77(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



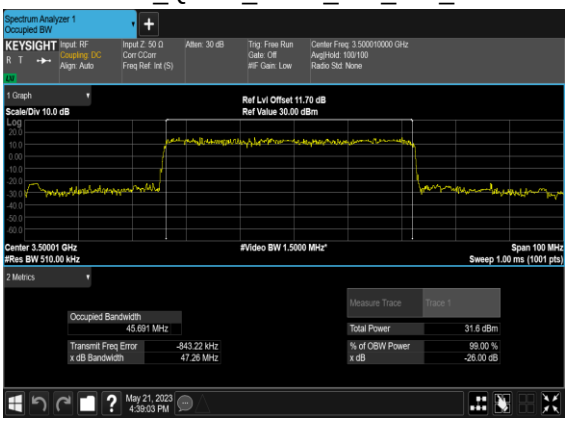
N77(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



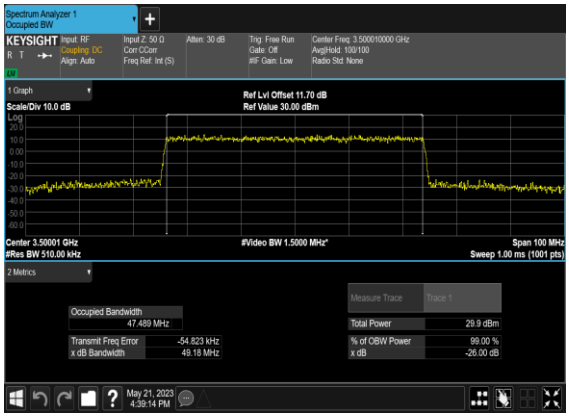
N77(50M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



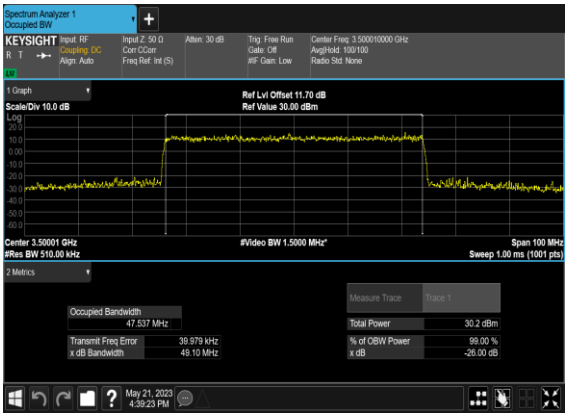
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



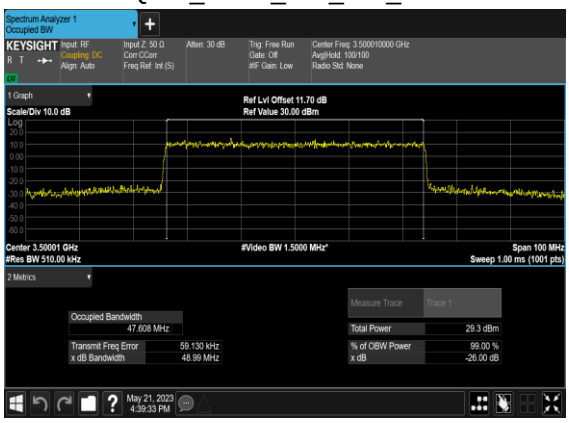
N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



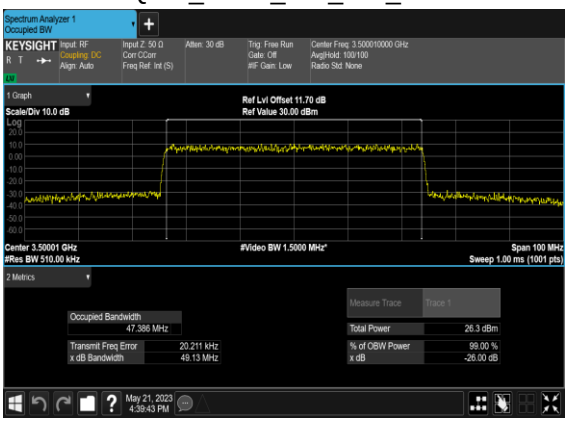
N77(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



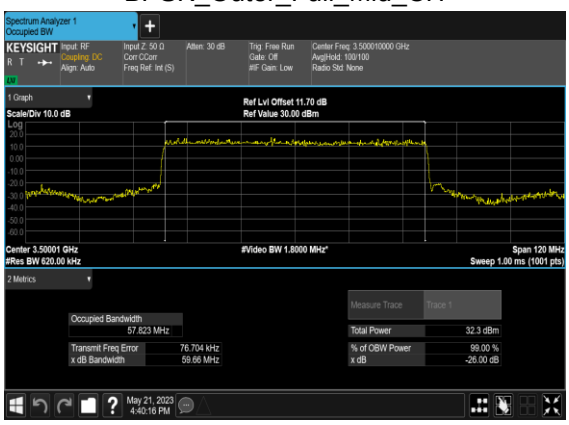
N77(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



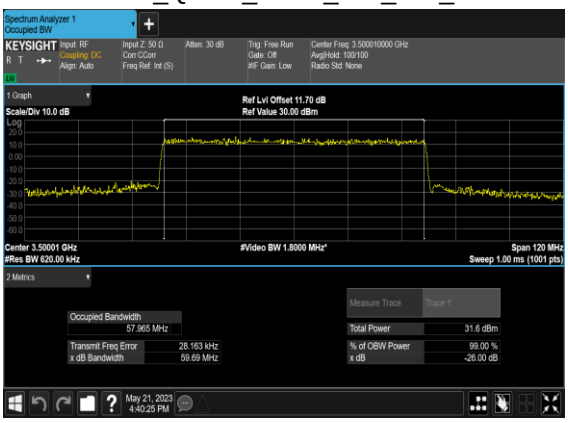
N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



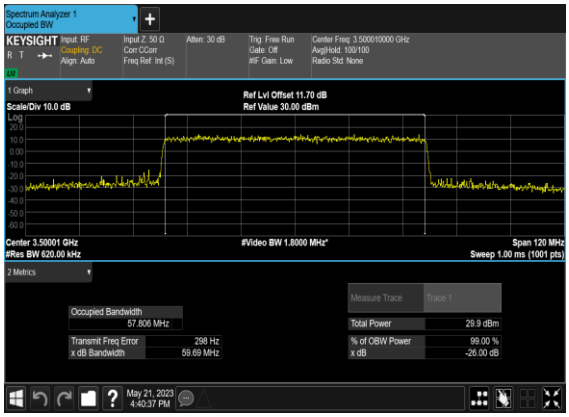
N77(60M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



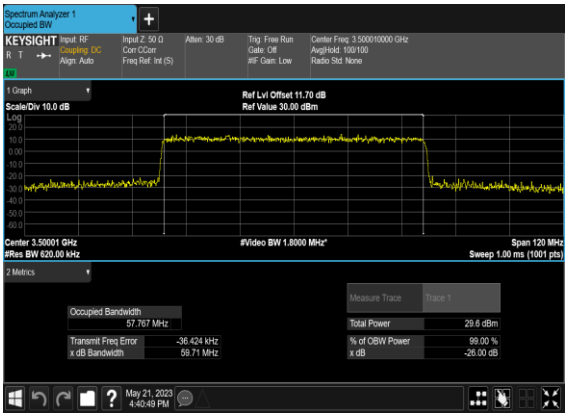
N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



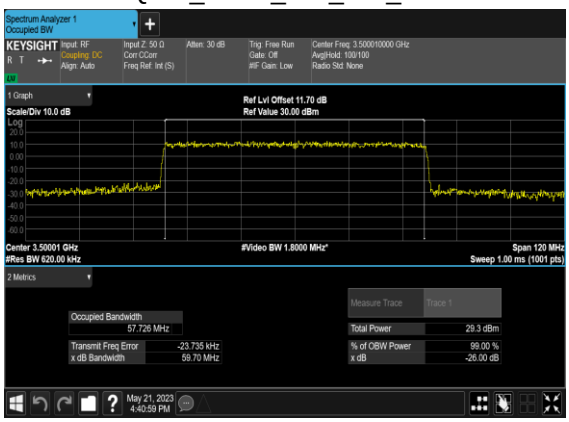
N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



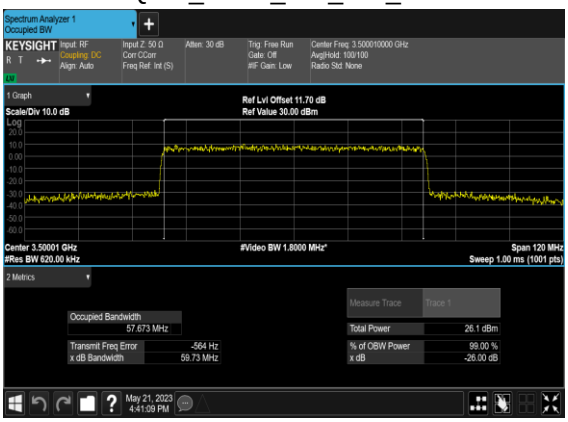
N77(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



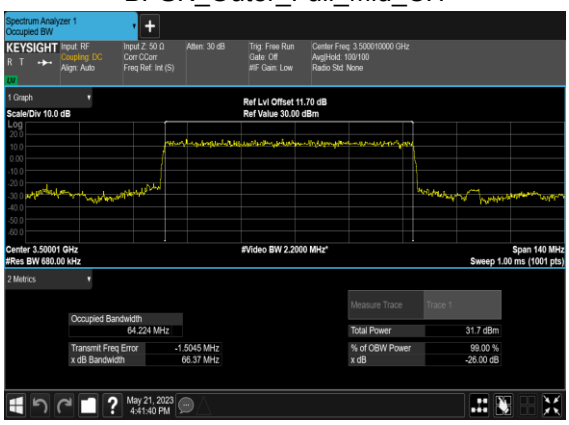
N77(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



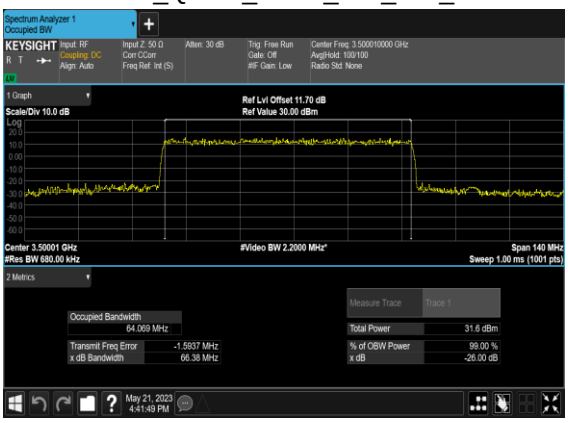
N77(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



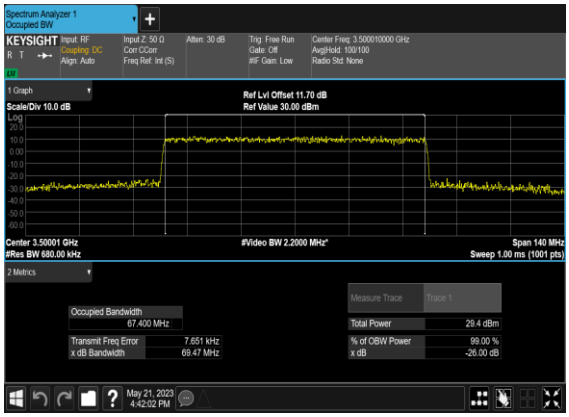
N77(70M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



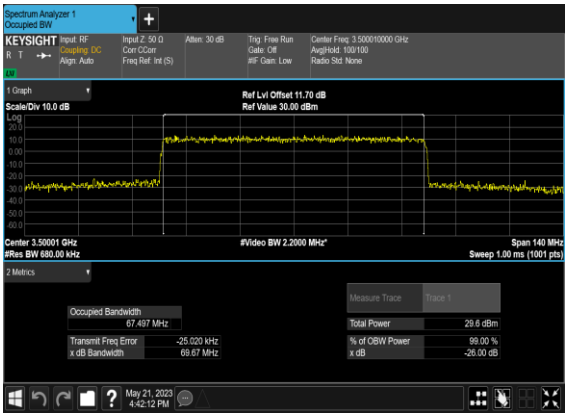
N77(70M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



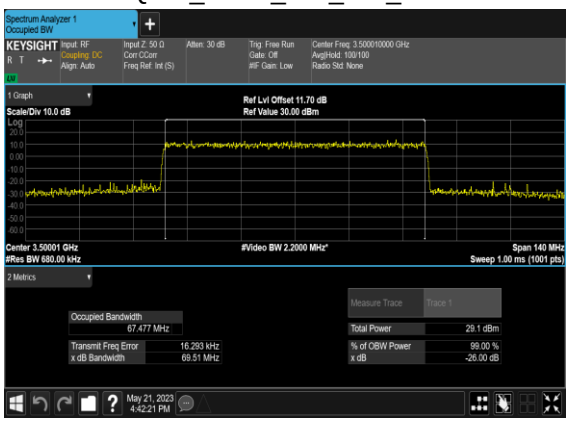
N77(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



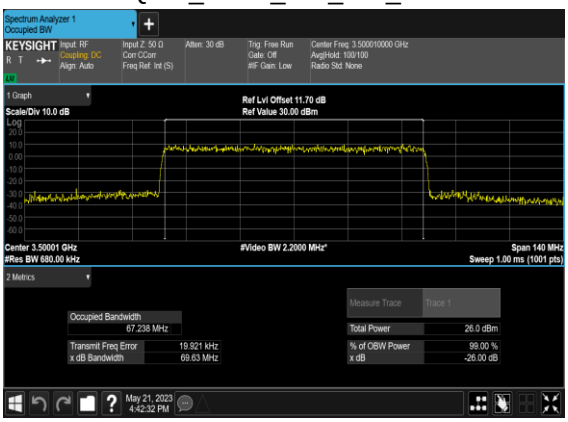
N77(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



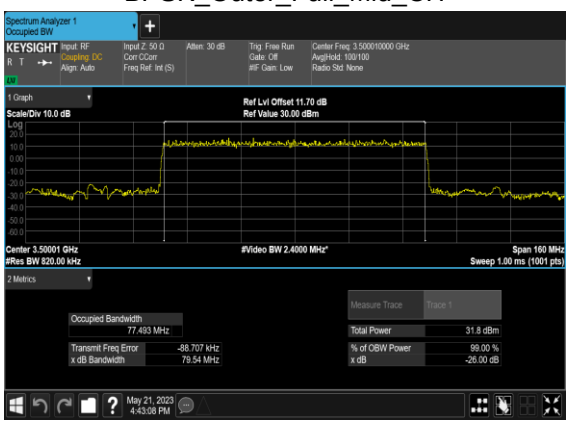
N77(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



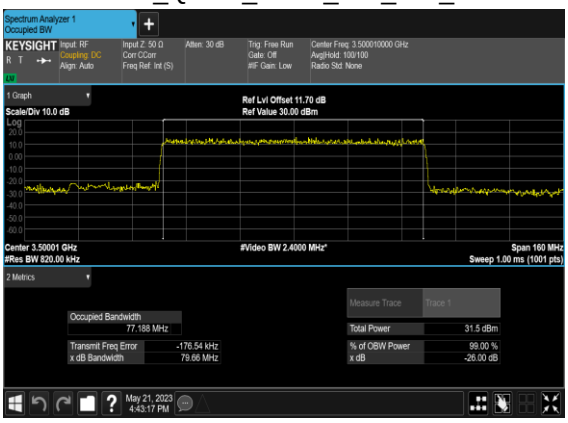
N77(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



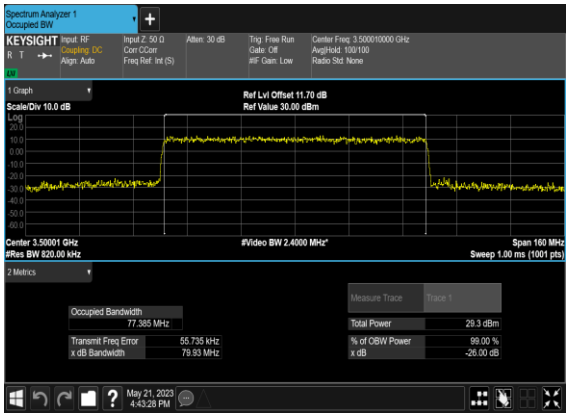
N77(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



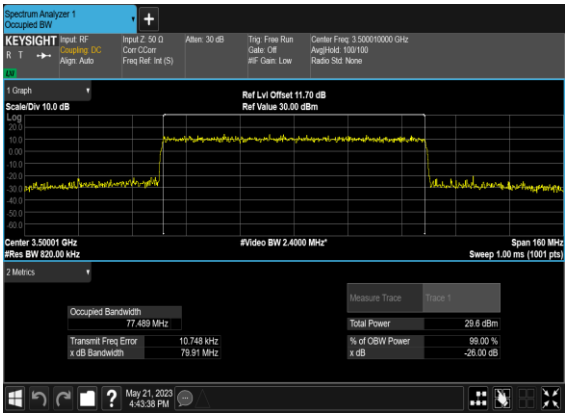
N77(80M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



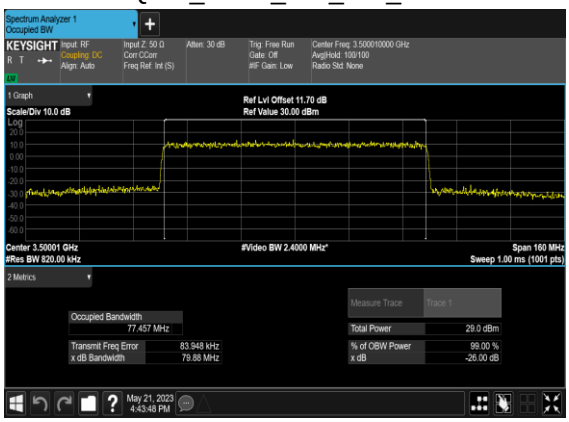
N77(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



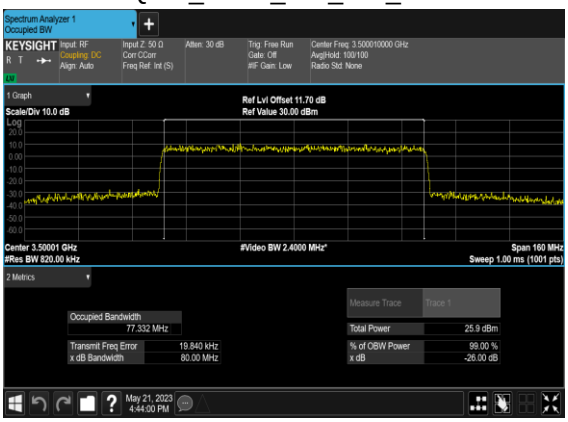
N77(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



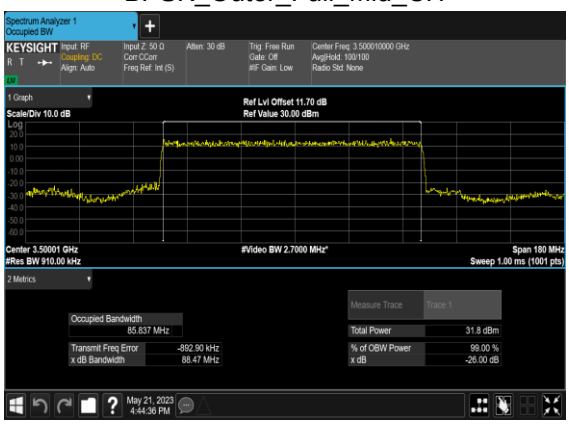
N77(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



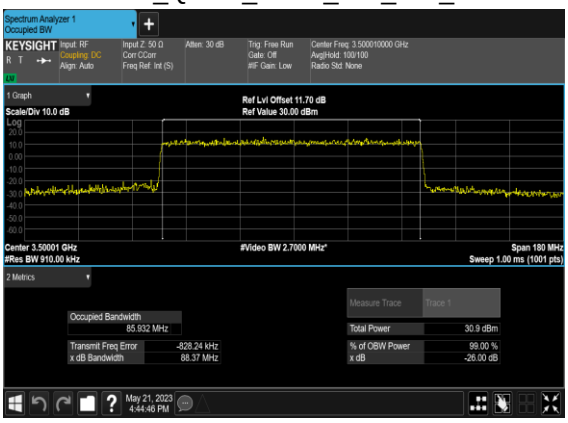
N77(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N77(90M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

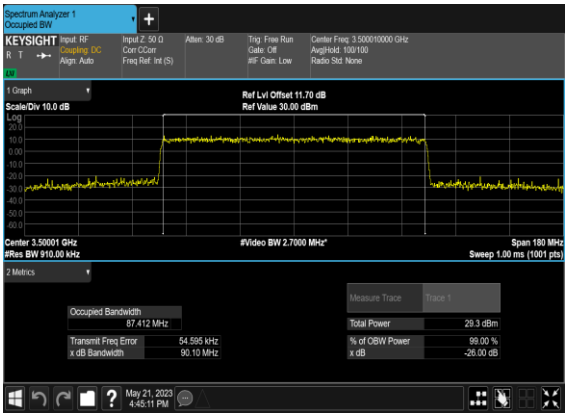


N77(90M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

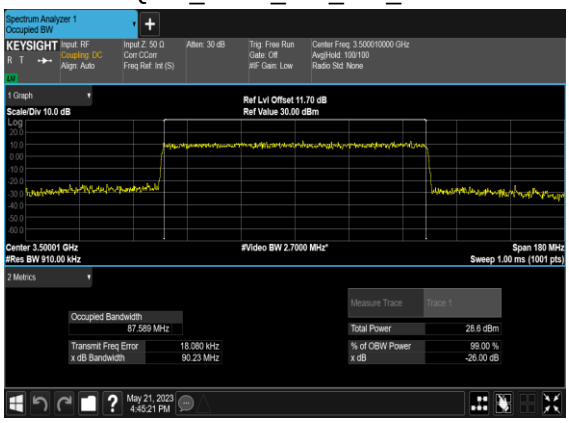


N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N77(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

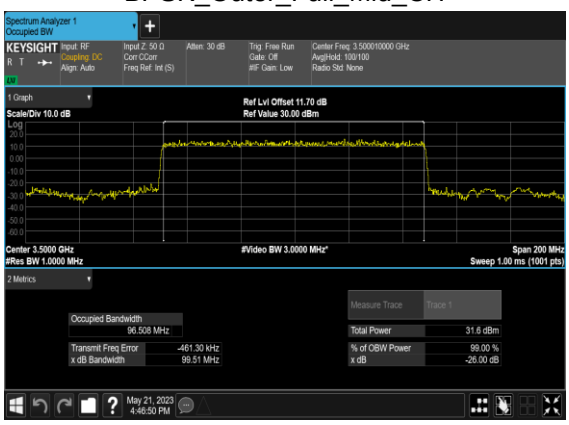


N77(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

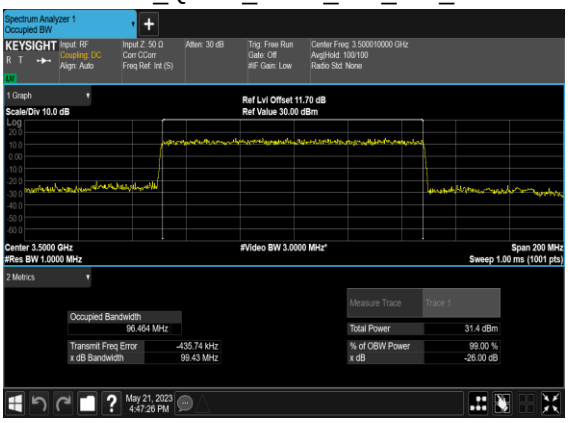


N77(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

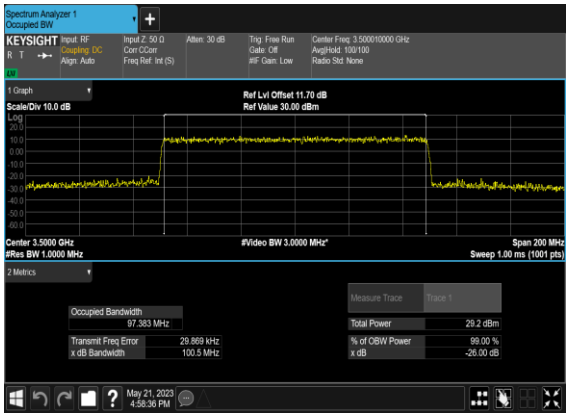
N77(100M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



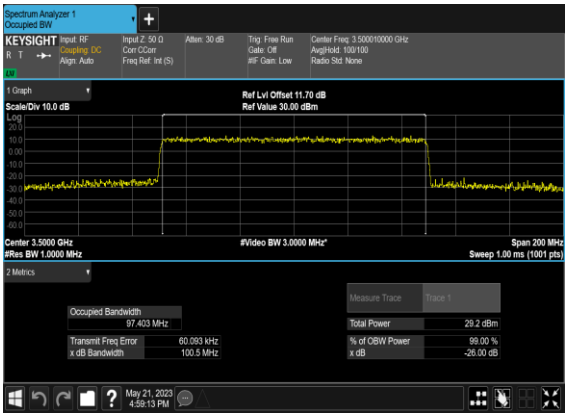
N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



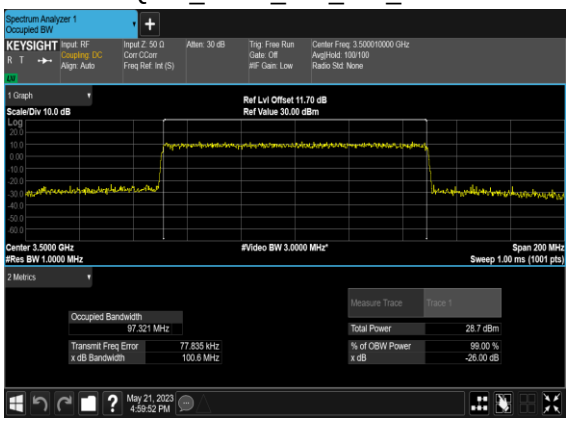
N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



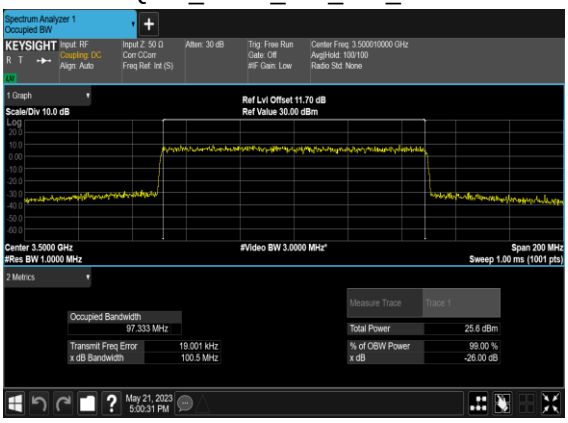
N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



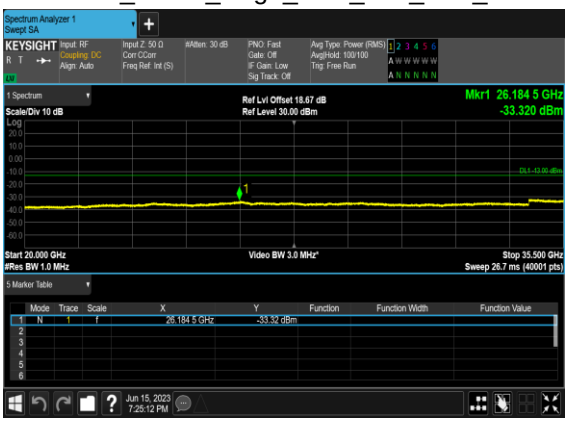
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	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**

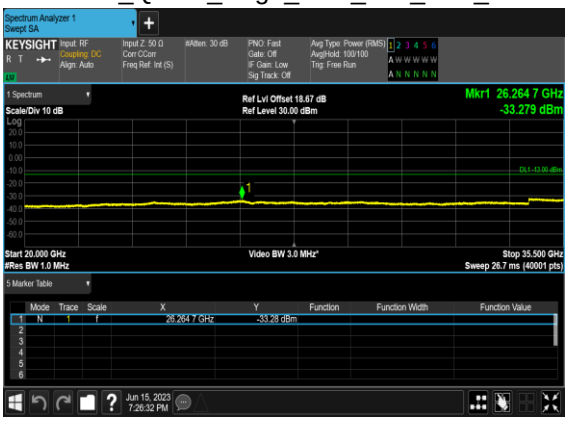
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

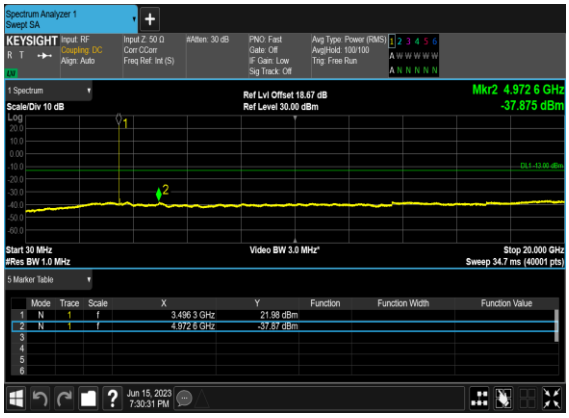


N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

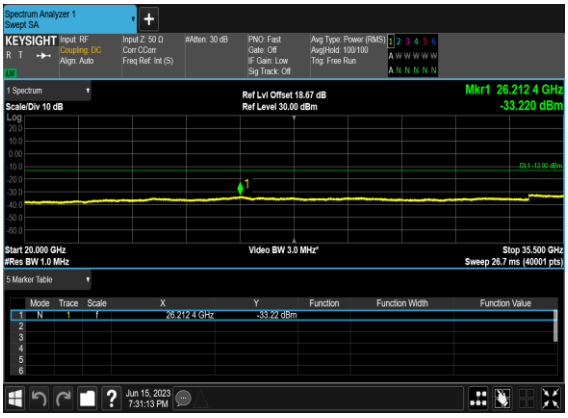
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

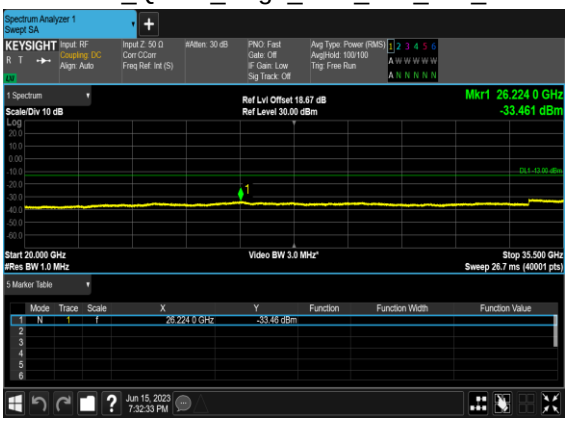


N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

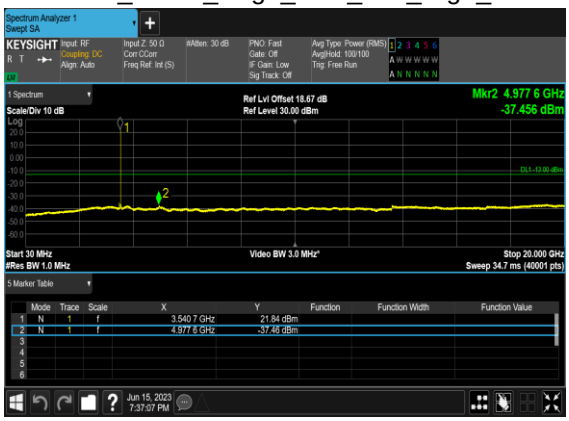


N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

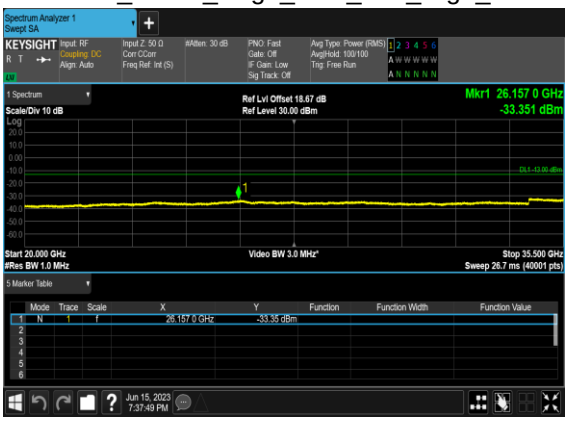
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



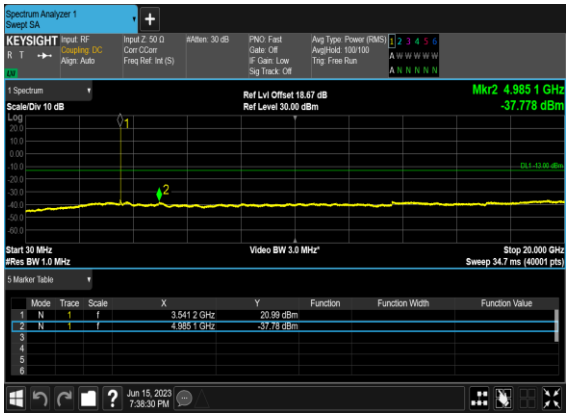
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



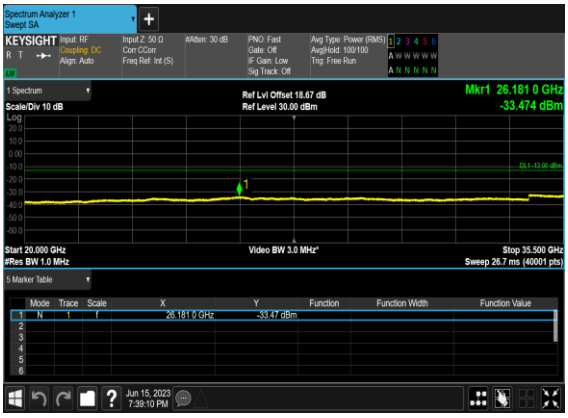
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

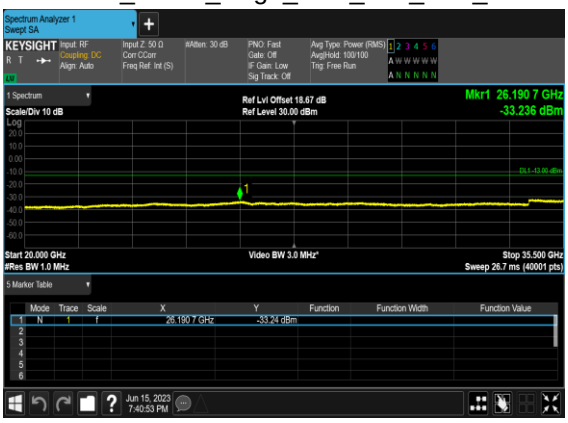


N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



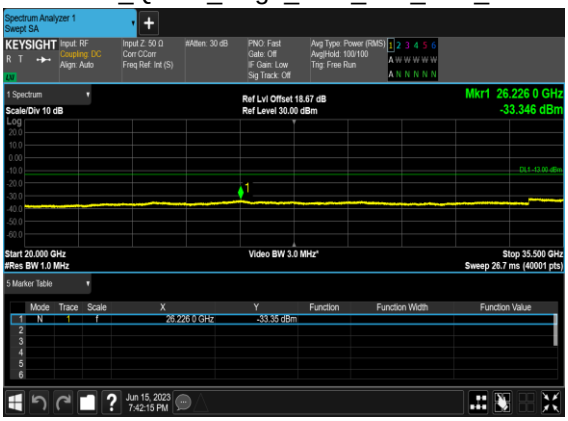
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

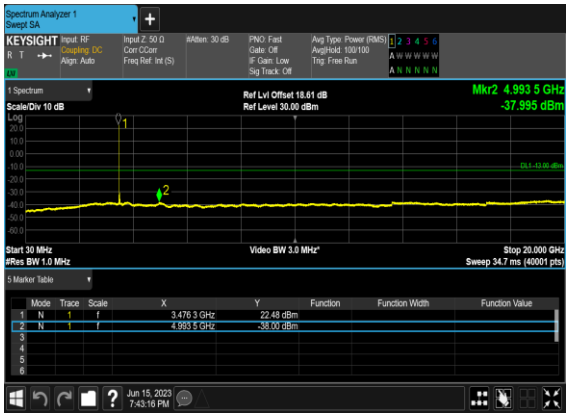
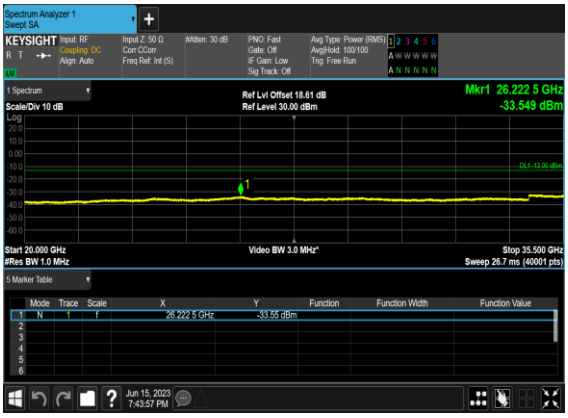


N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

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