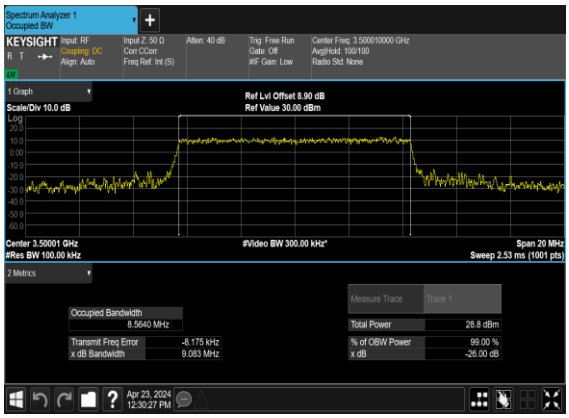
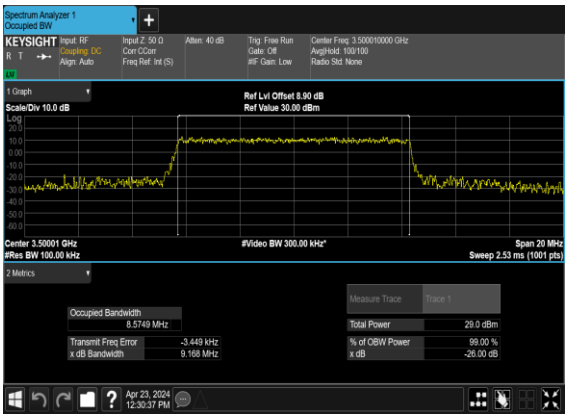
N78(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

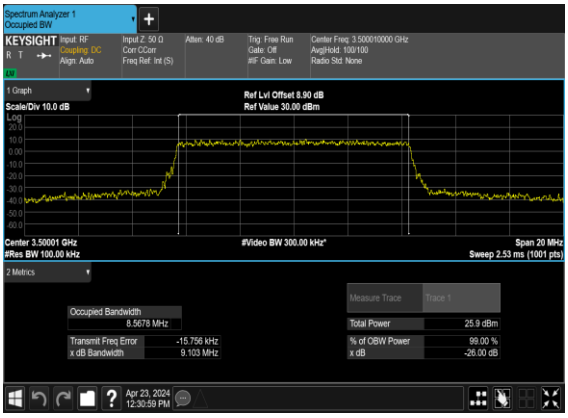


N78(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

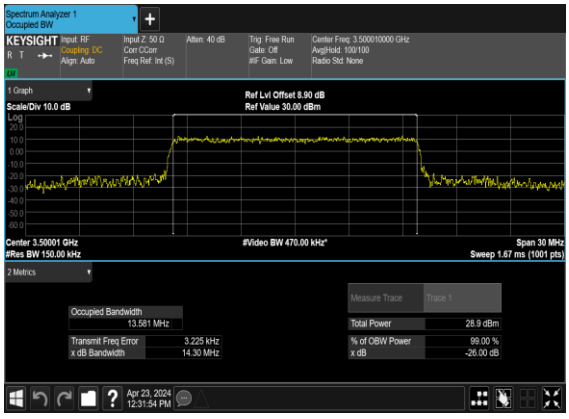


N78(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N78(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

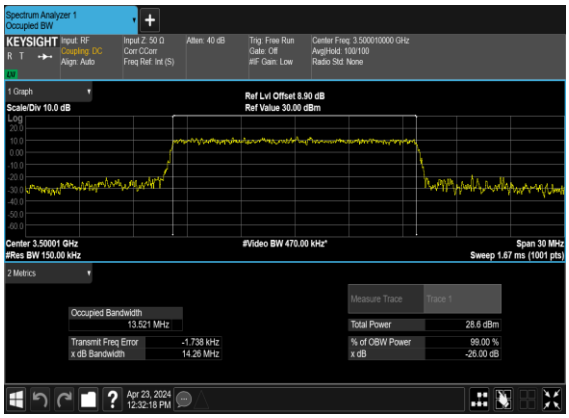


N78(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

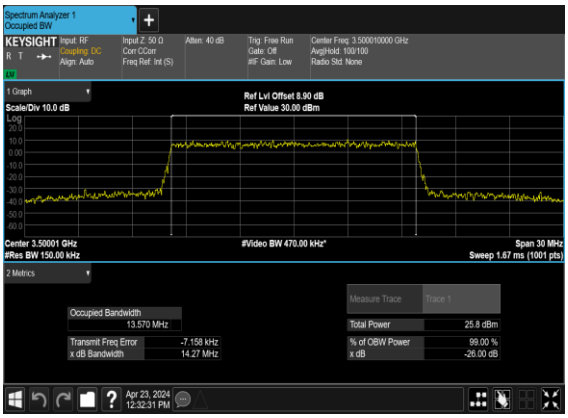


N78(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

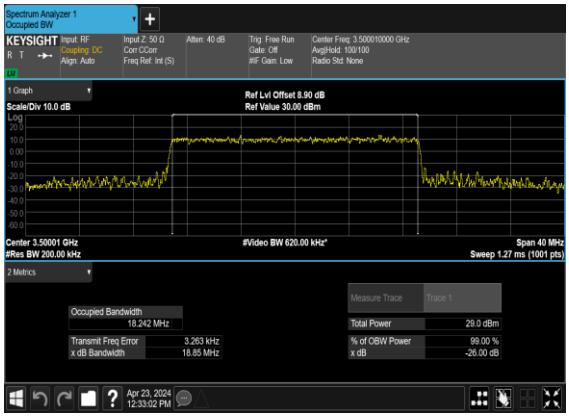
N78(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



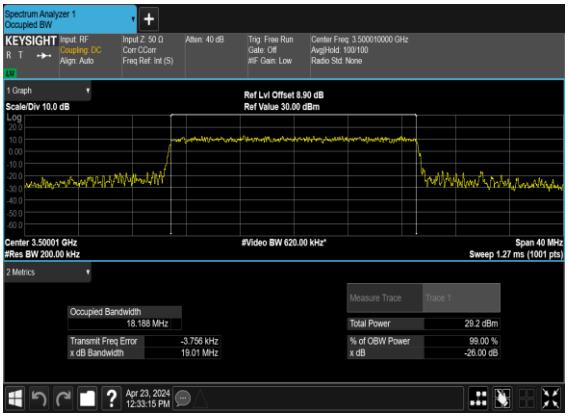
N78(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



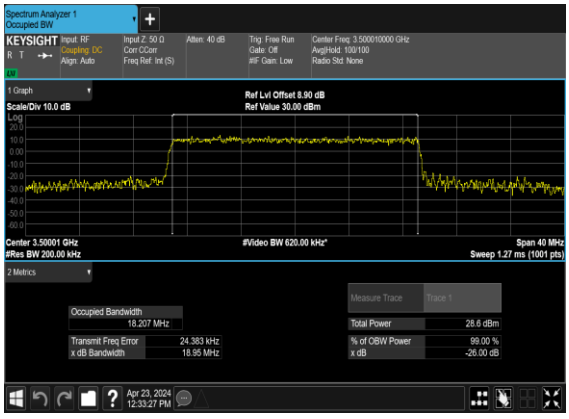
N78(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N78(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

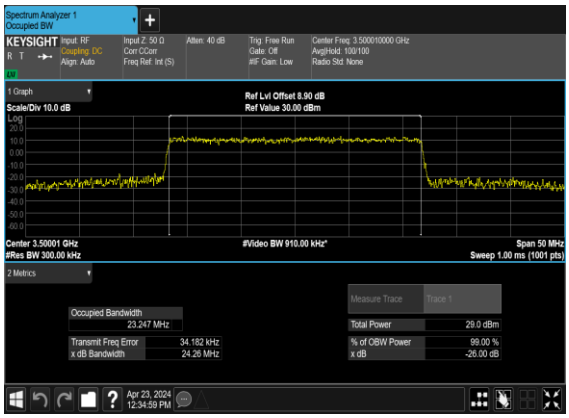


N78(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

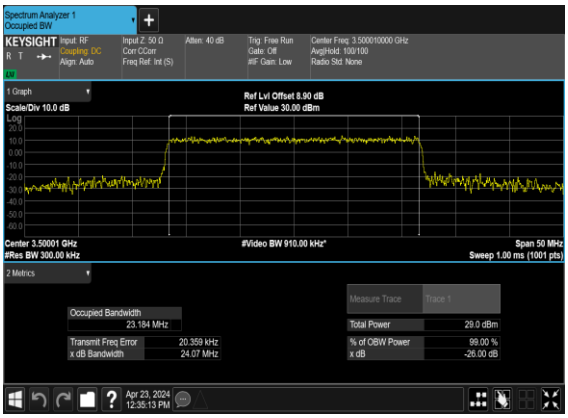


N78(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N78(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

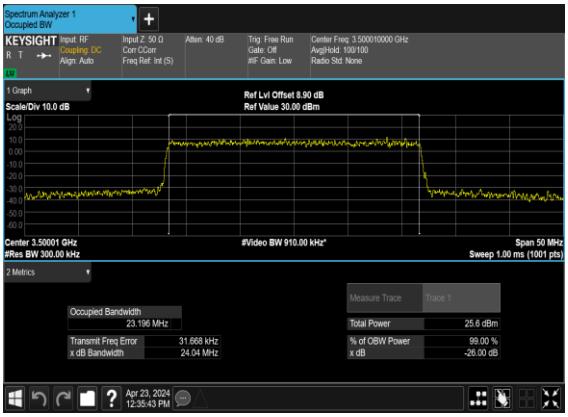


N78(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

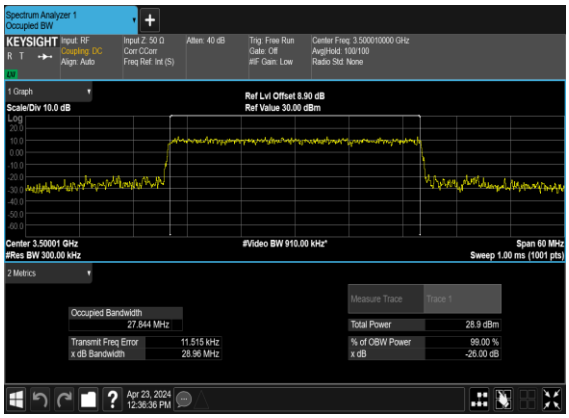


N78(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

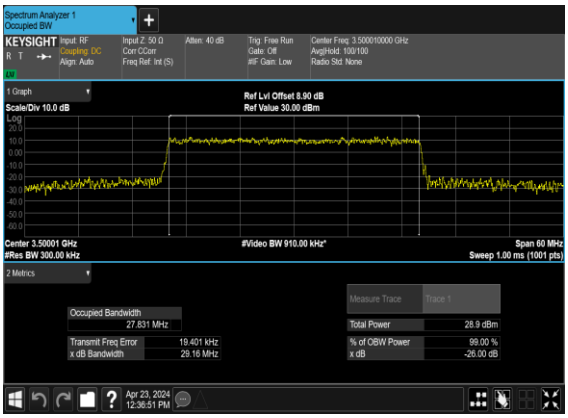
N78(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



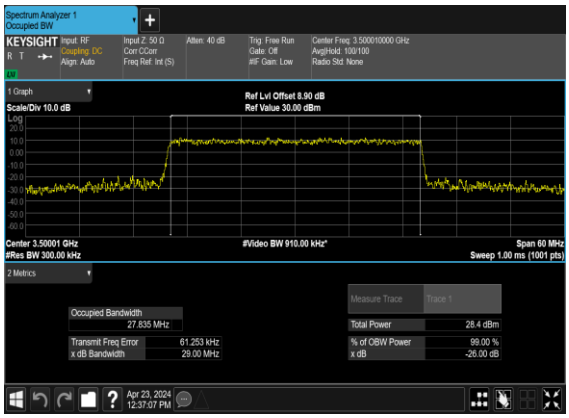
N78(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



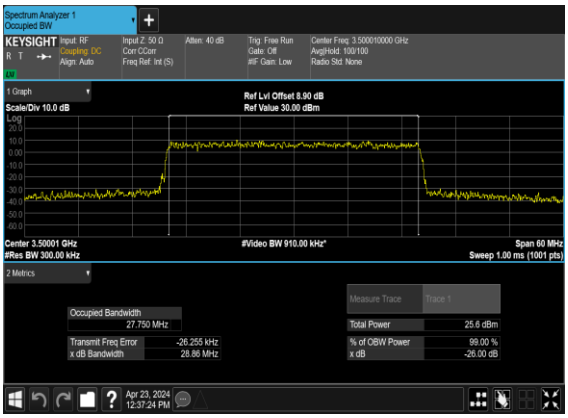
N78(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



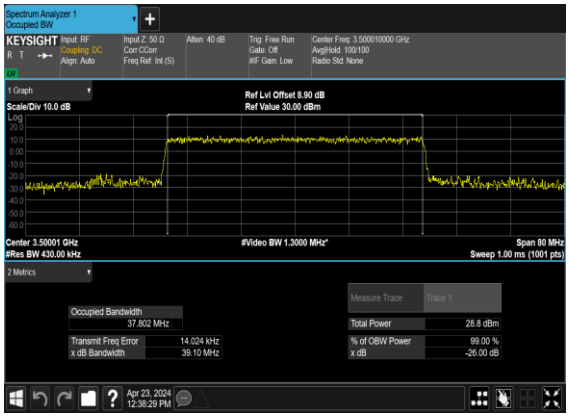
N78(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



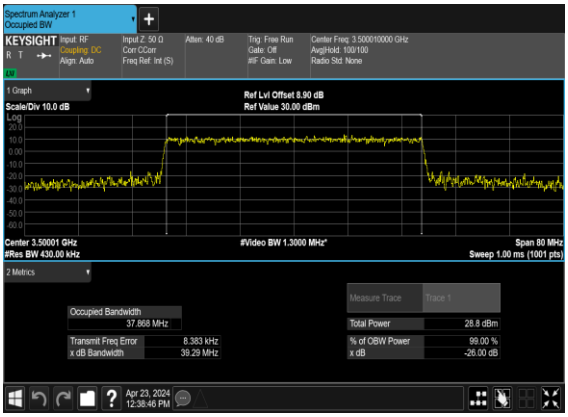
N78(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



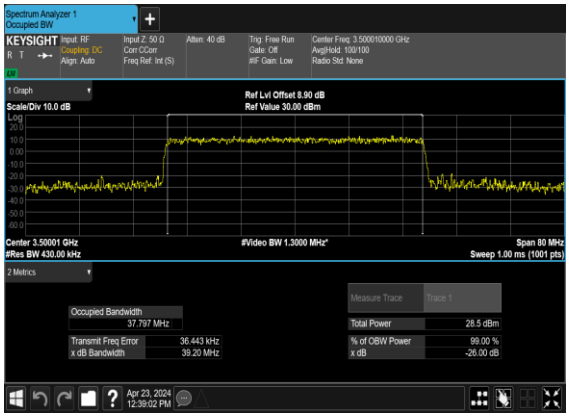
N78(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



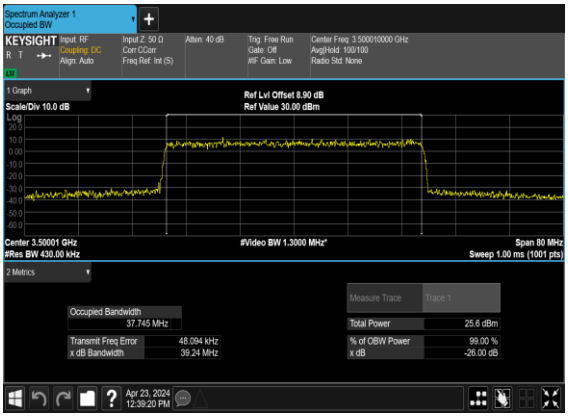
N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



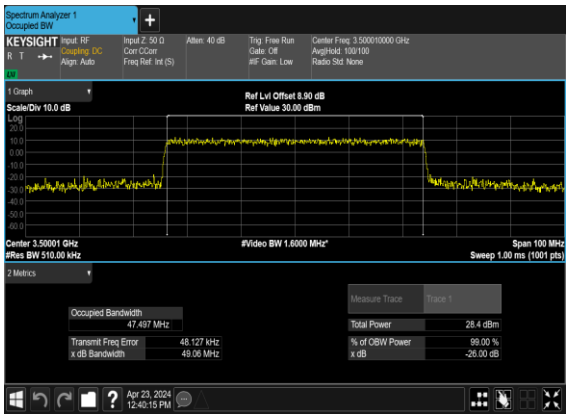
N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



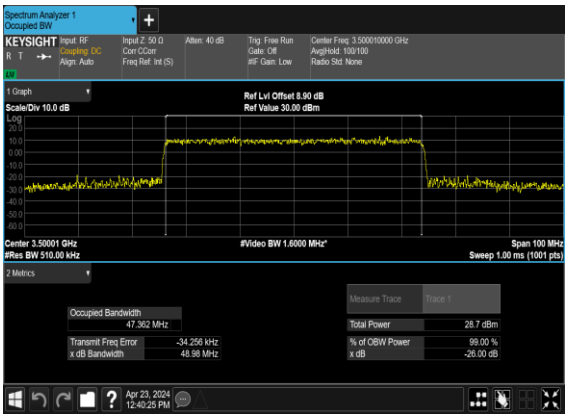
N78(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



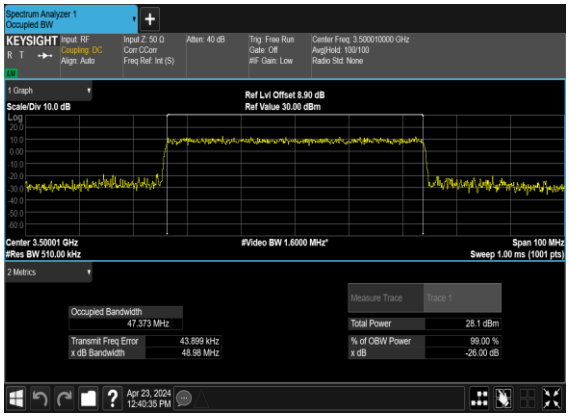
N78(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



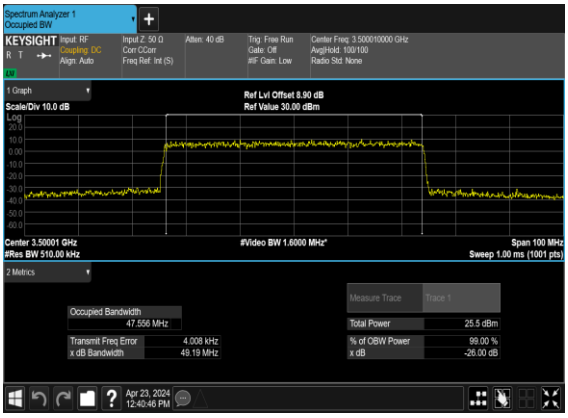
N78(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



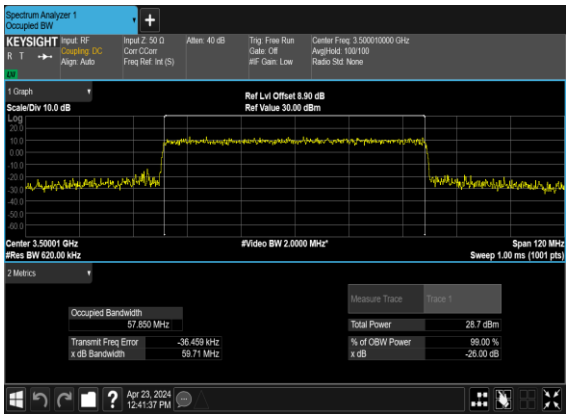
N78(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



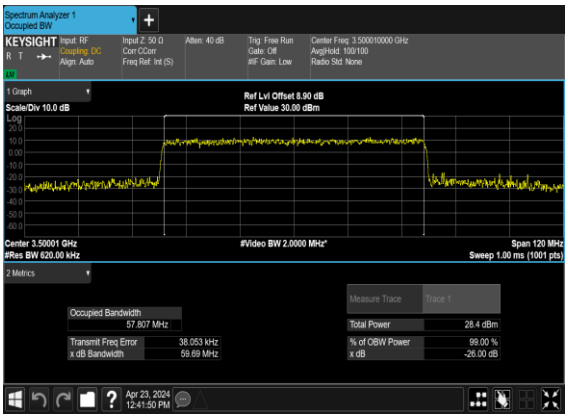
N78(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



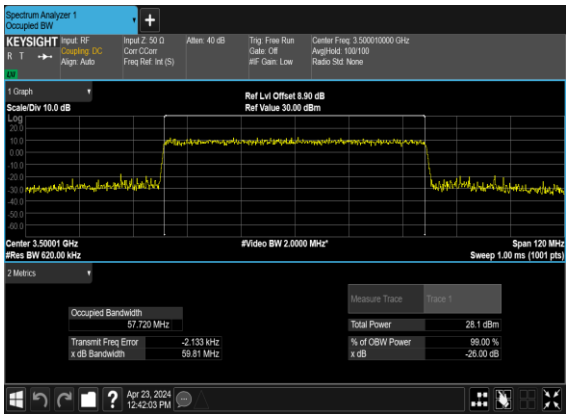
N78(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N78(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

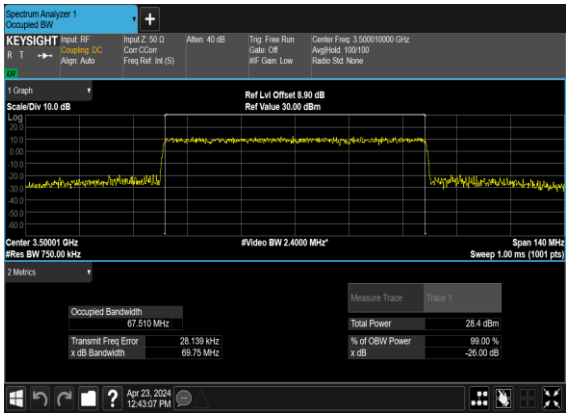


N78(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



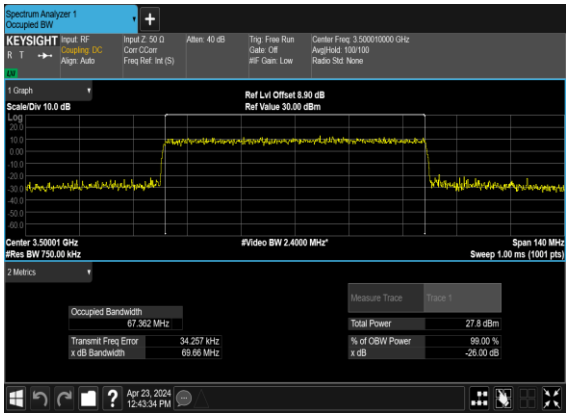
N78(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N78(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

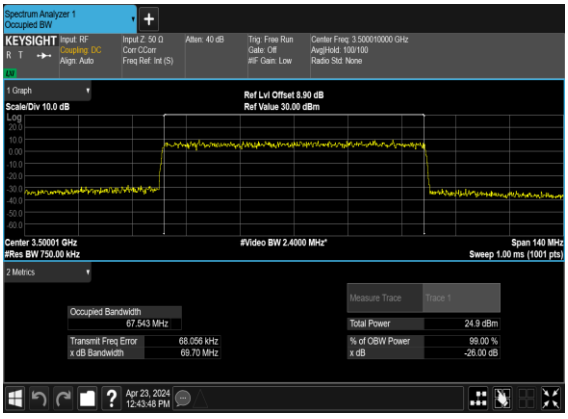


N78(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

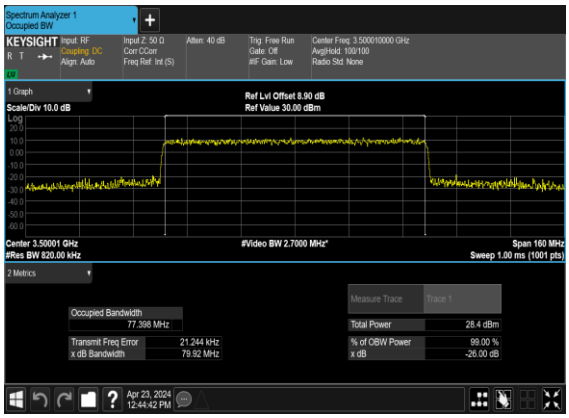
N78(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



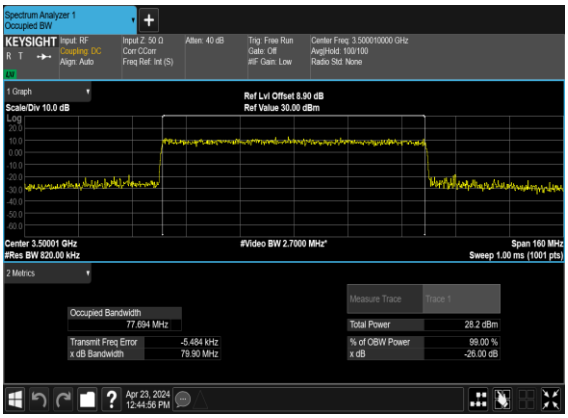
N78(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



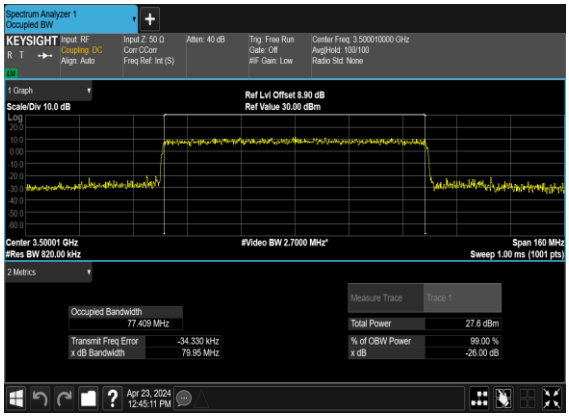
N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



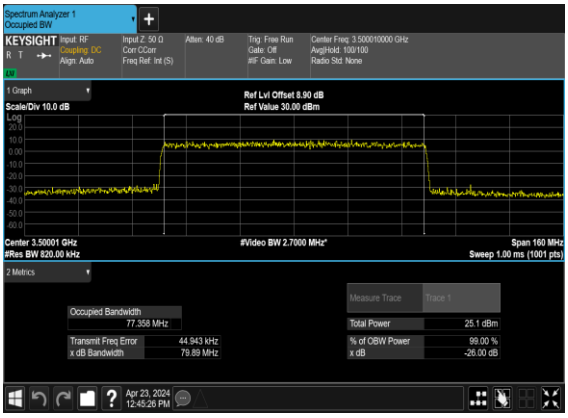
N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



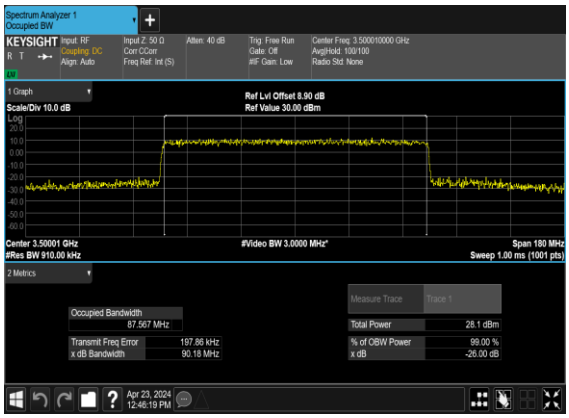
N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

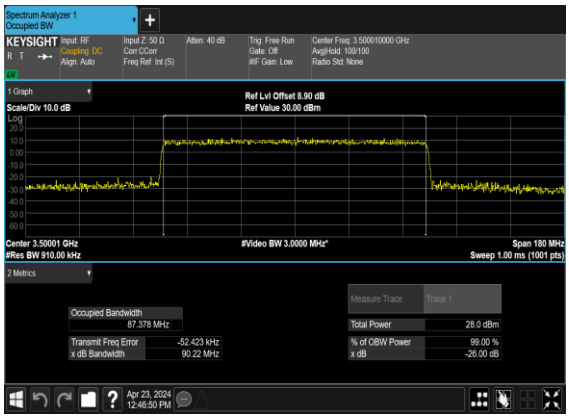


N78(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

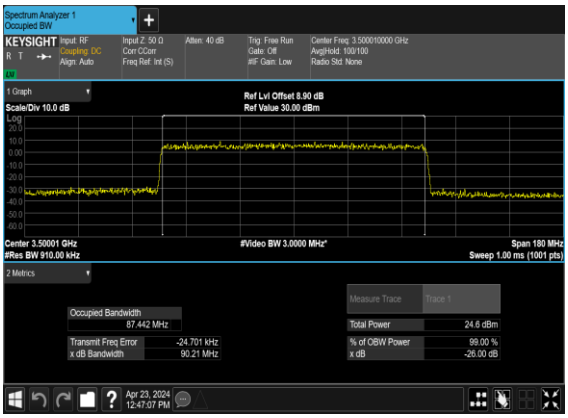


N78(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

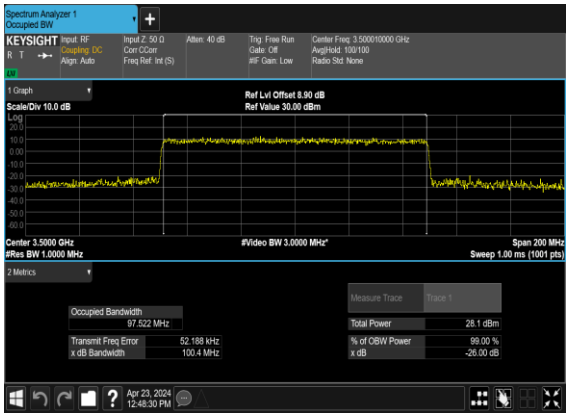
N78(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



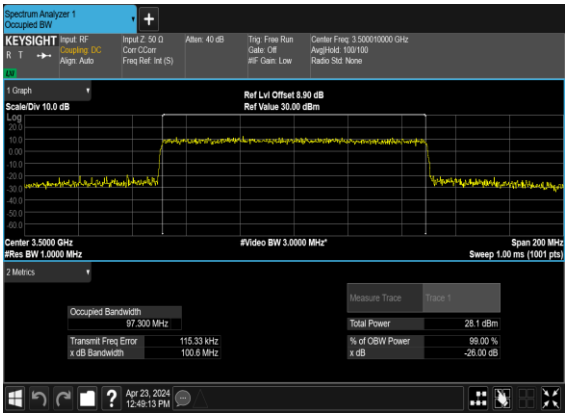
N78(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



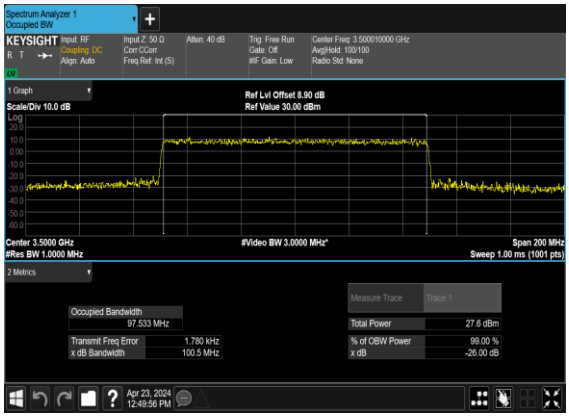
N78(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



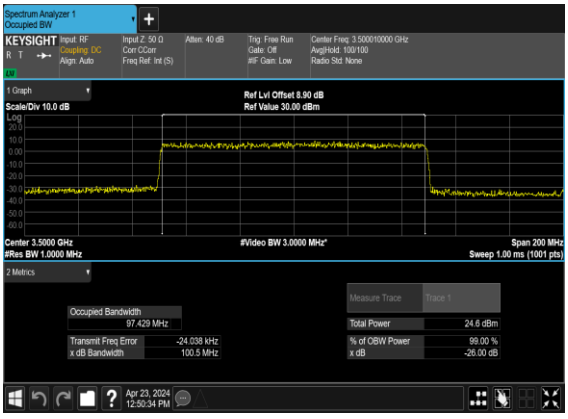
N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

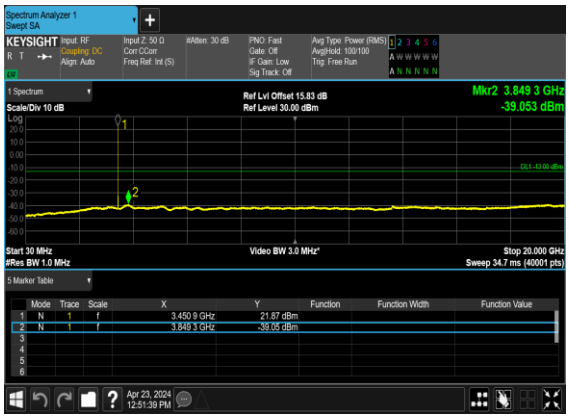


Conducted Spurious Emissions

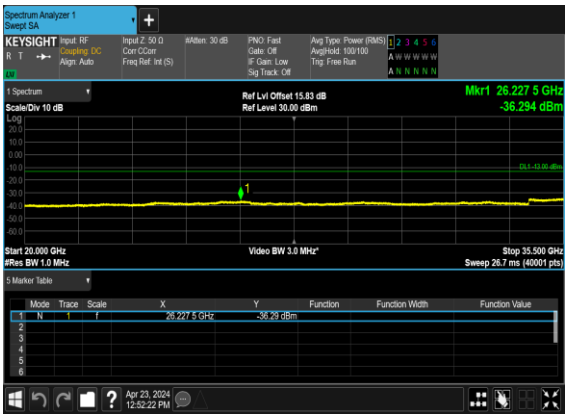
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

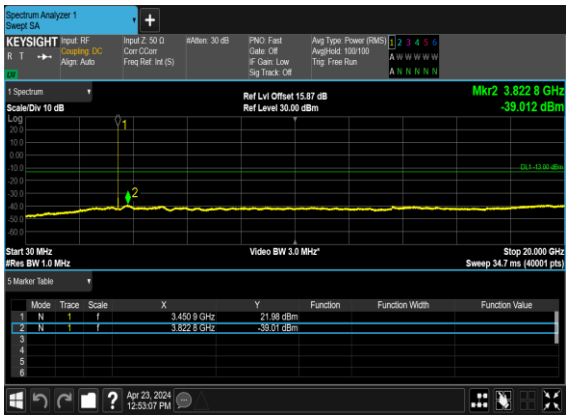
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



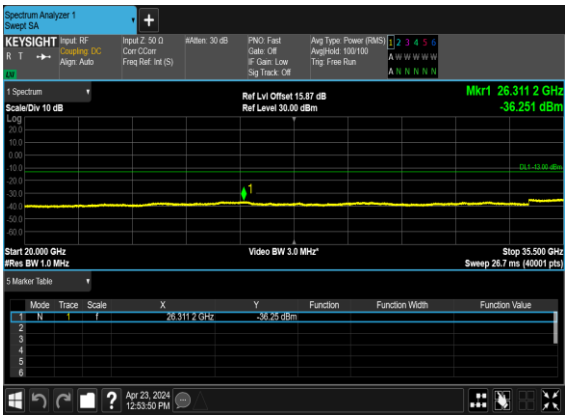
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



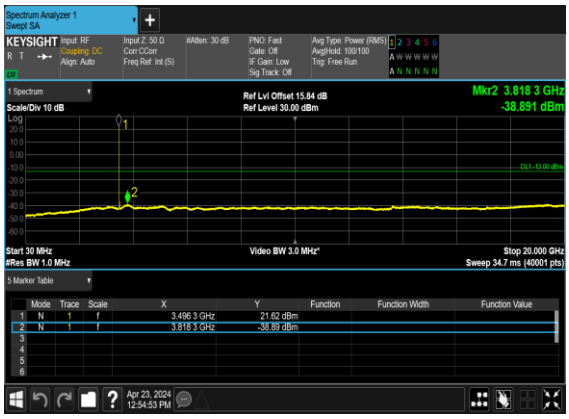
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



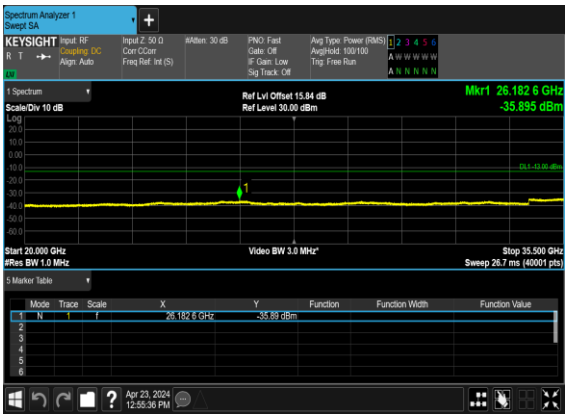
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



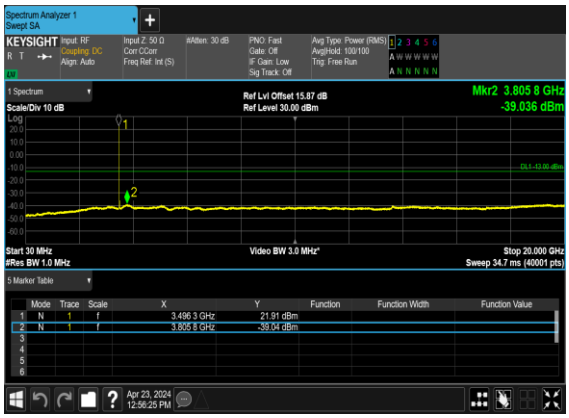
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



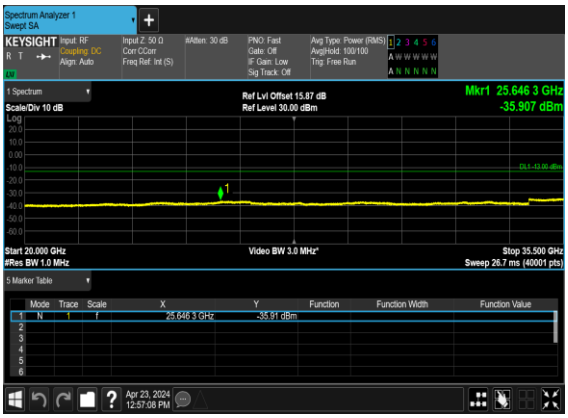
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



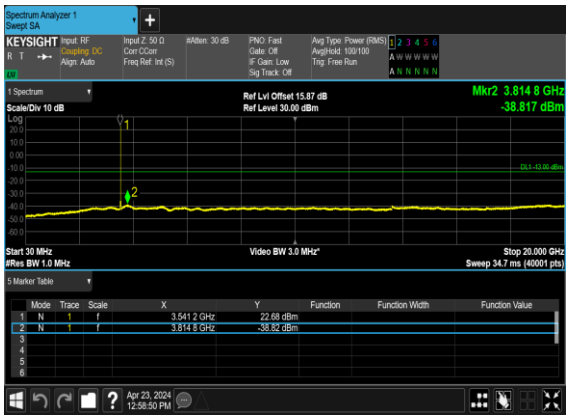
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



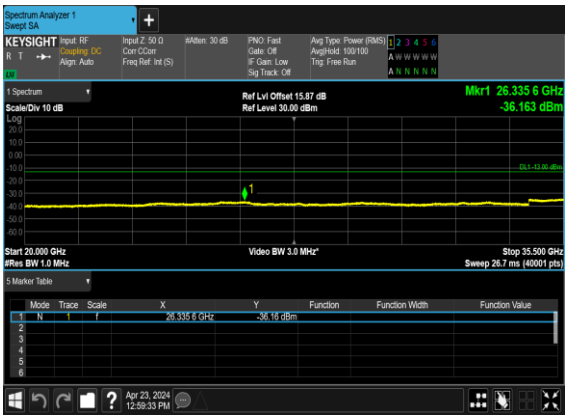
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



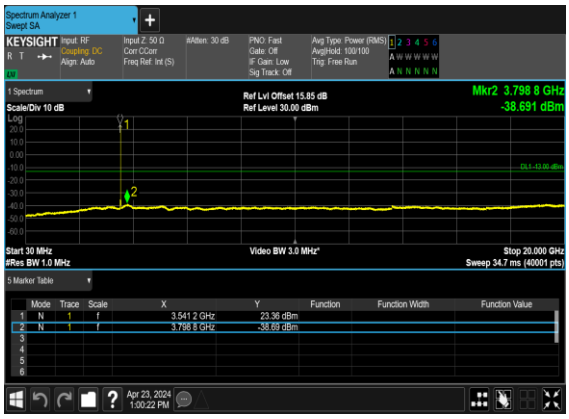
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



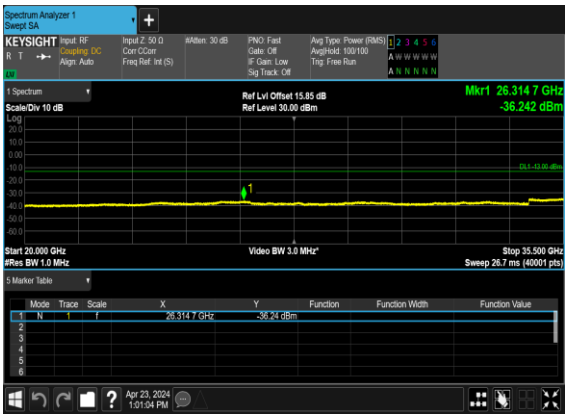
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



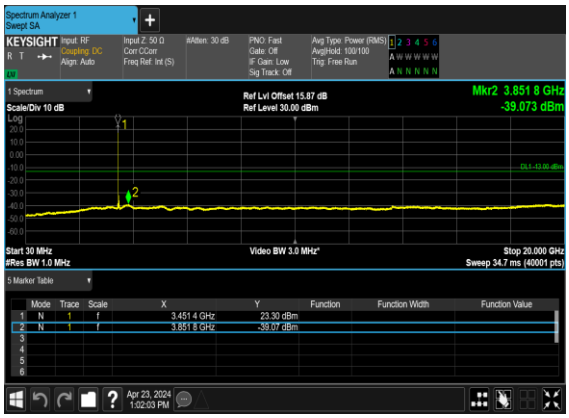
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



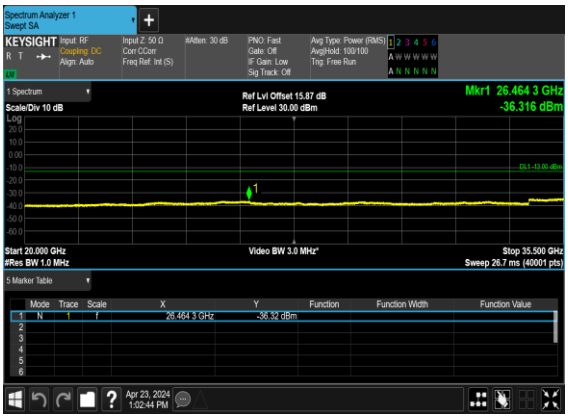
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



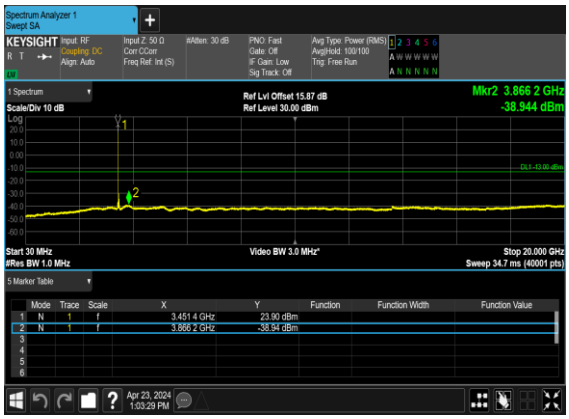
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



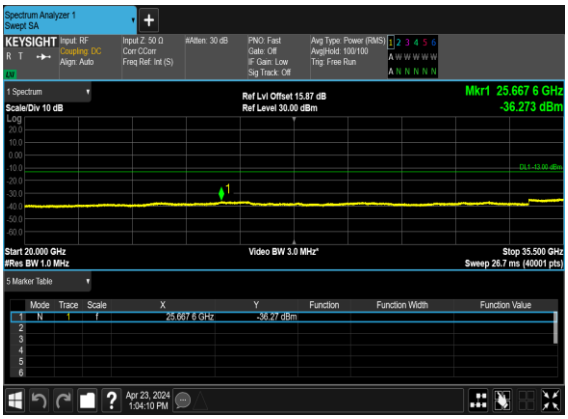
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



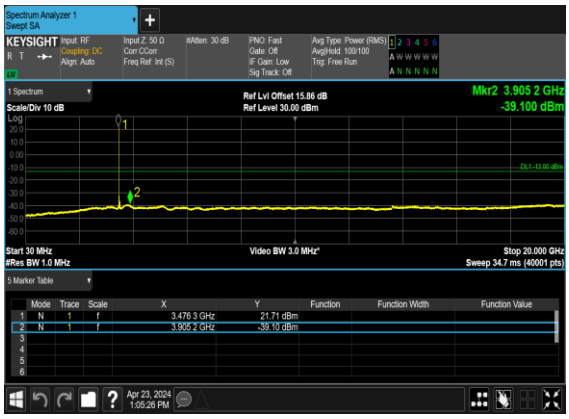
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

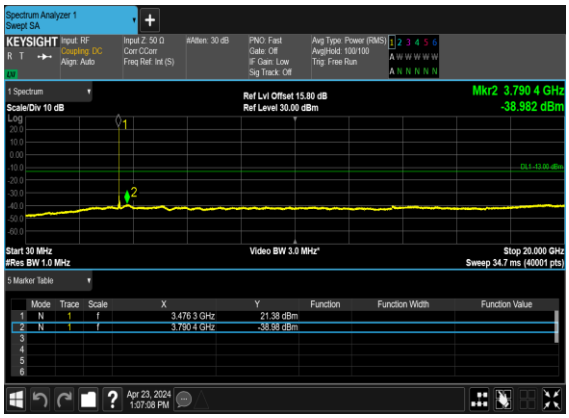


N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

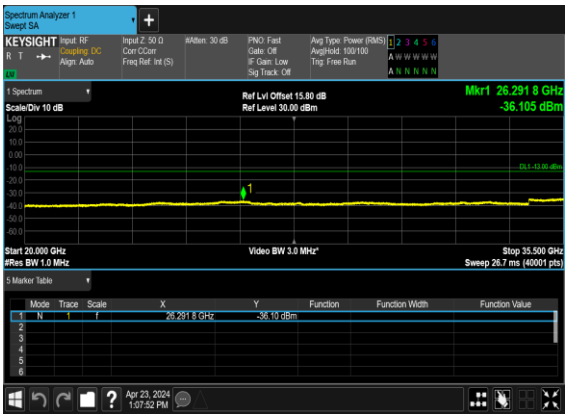


N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

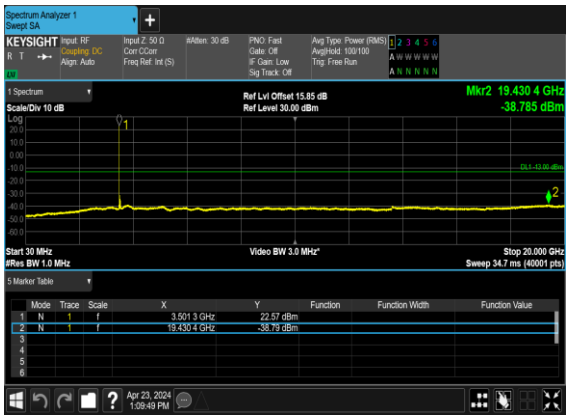
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



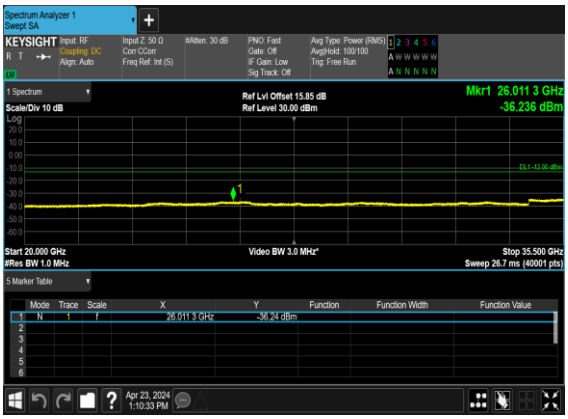
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



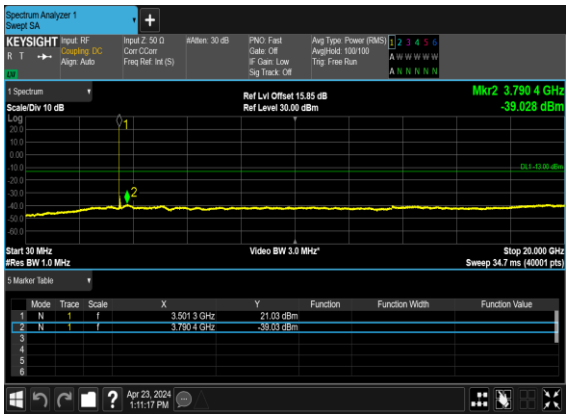
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



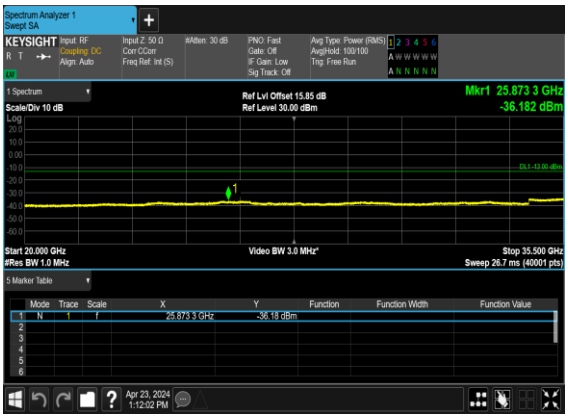
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



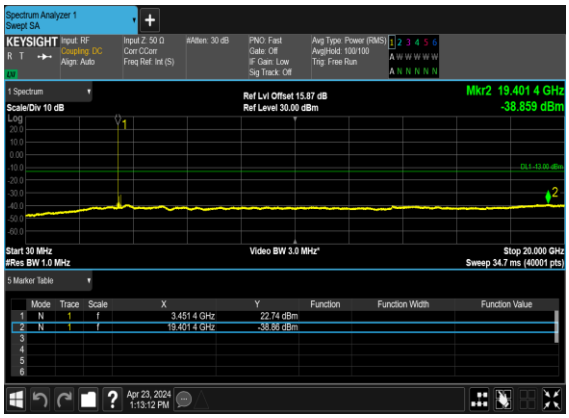
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



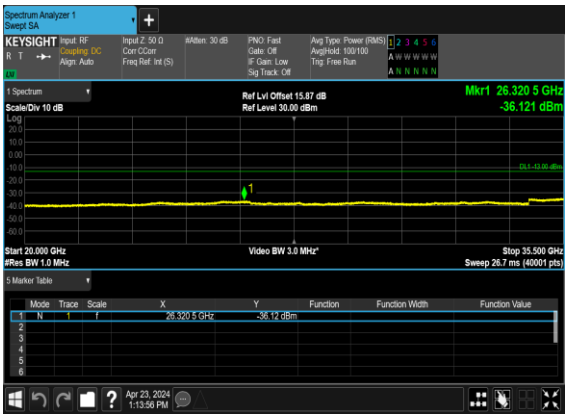
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



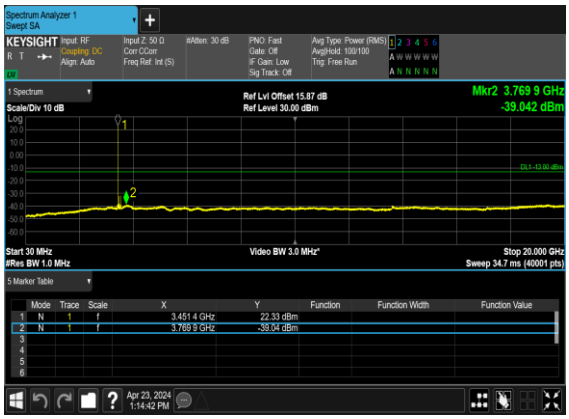
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



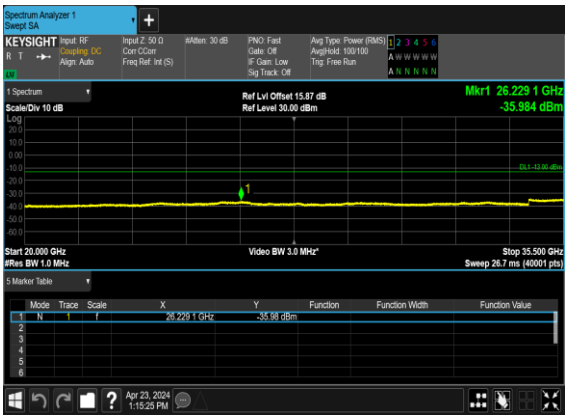
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



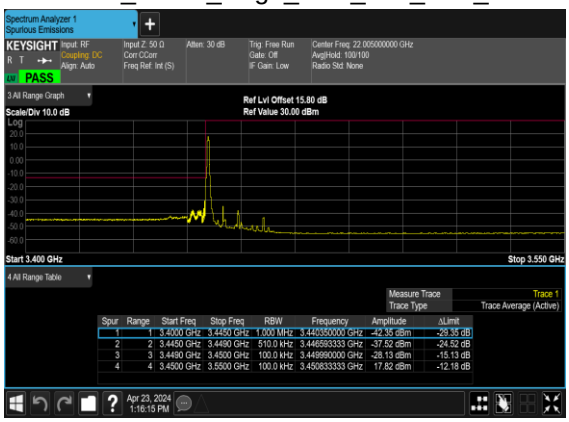
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



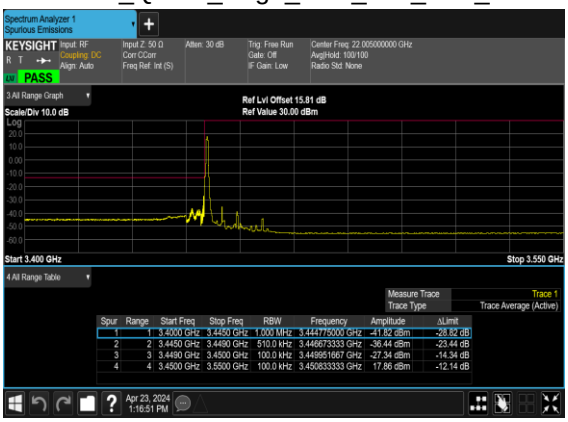
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

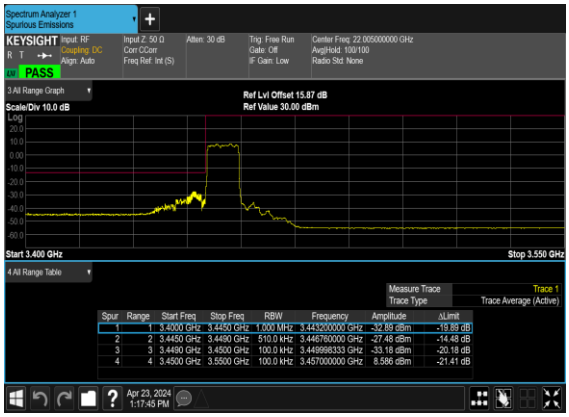
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



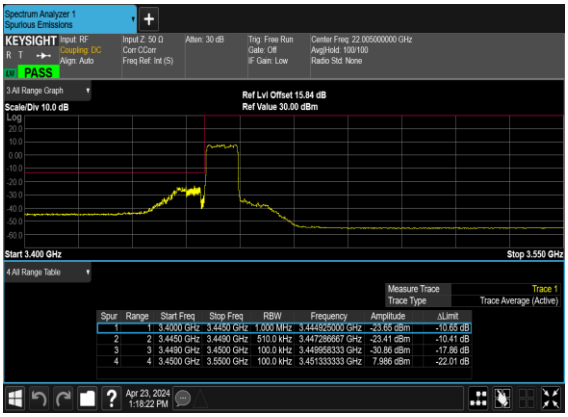
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



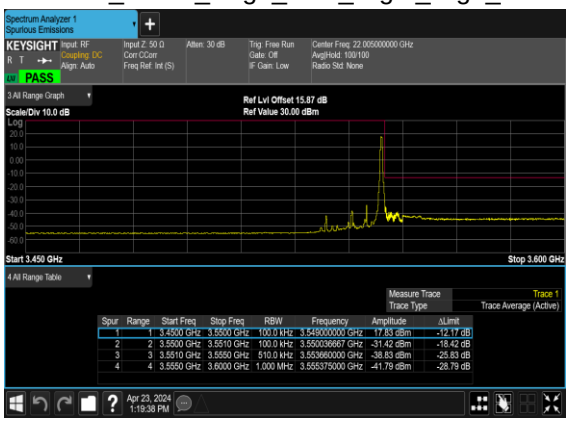
N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



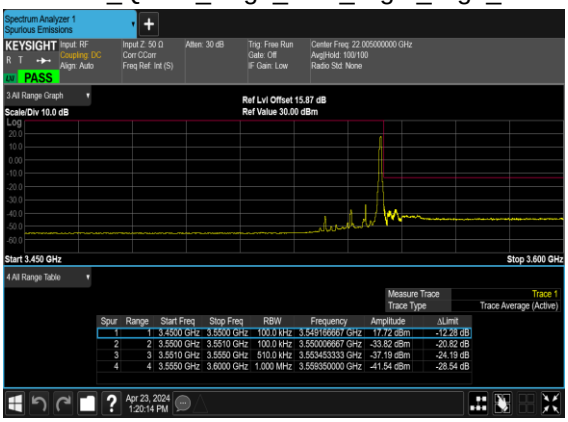
N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



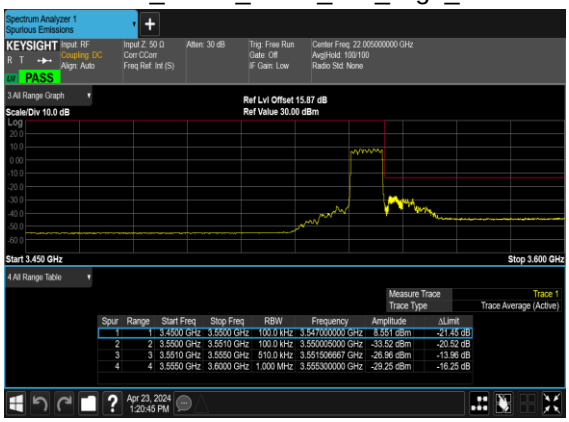
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



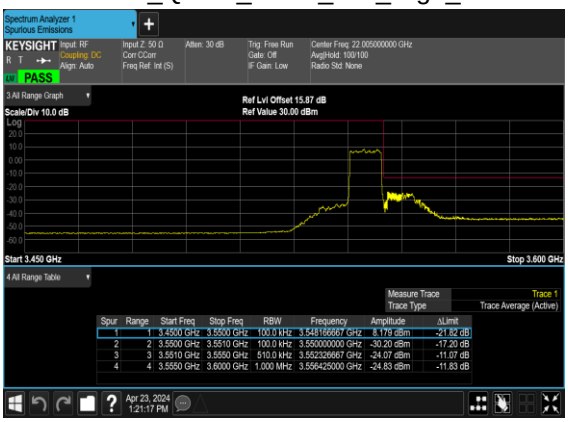
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



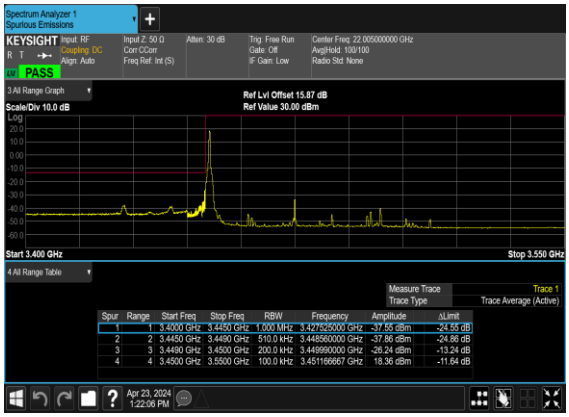
N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



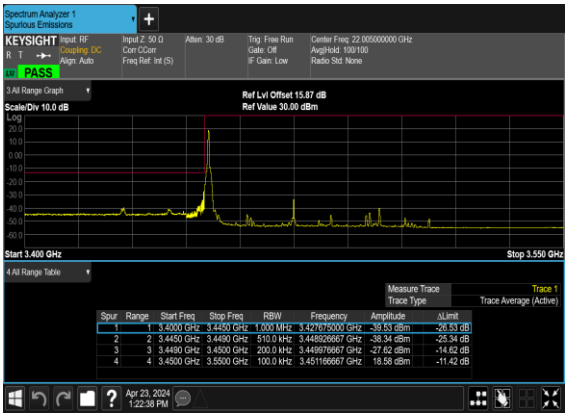
N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



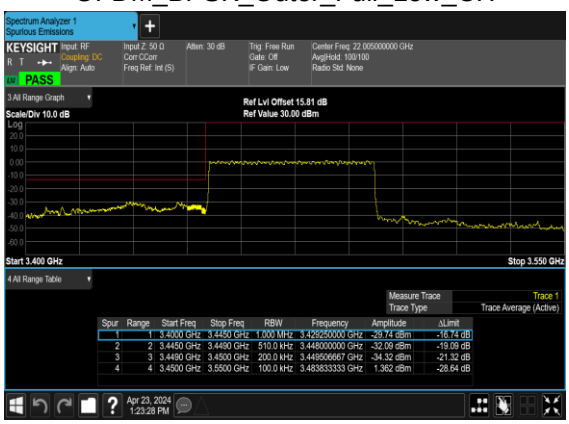
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



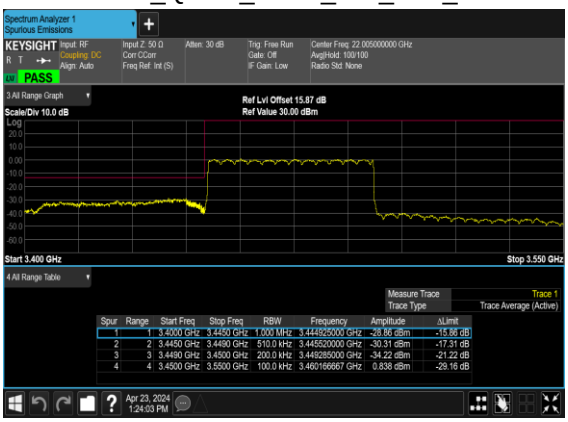
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



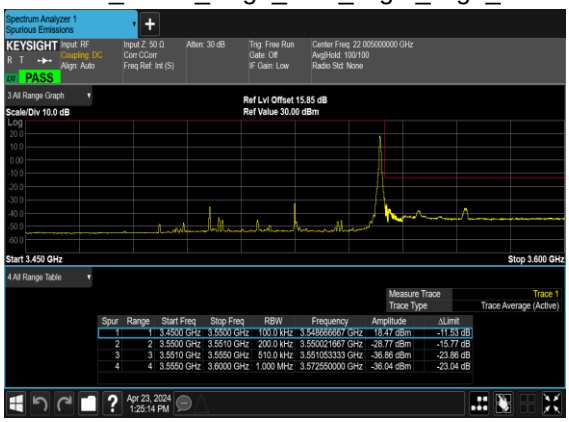
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



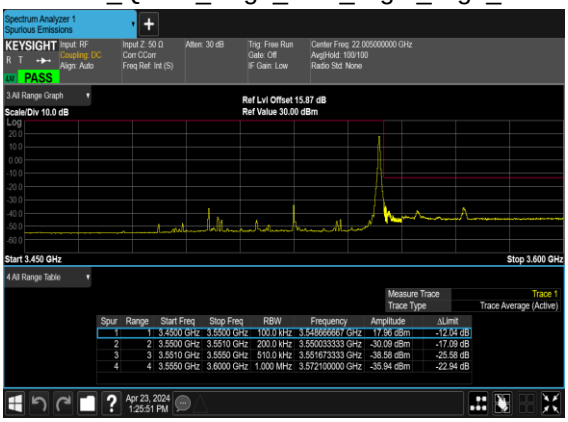
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



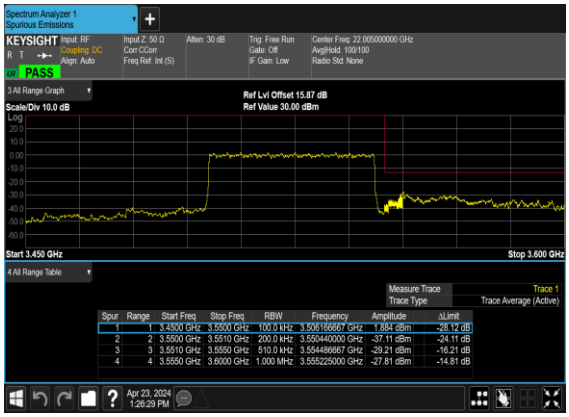
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



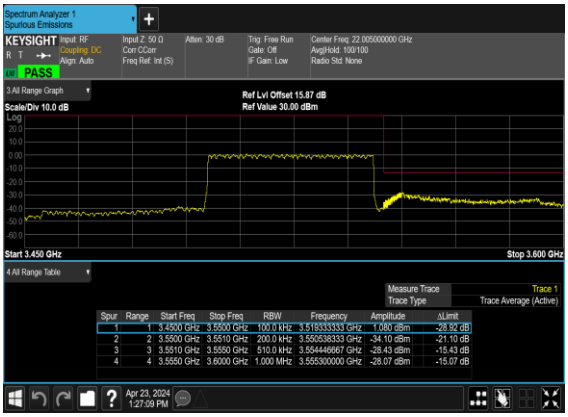
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



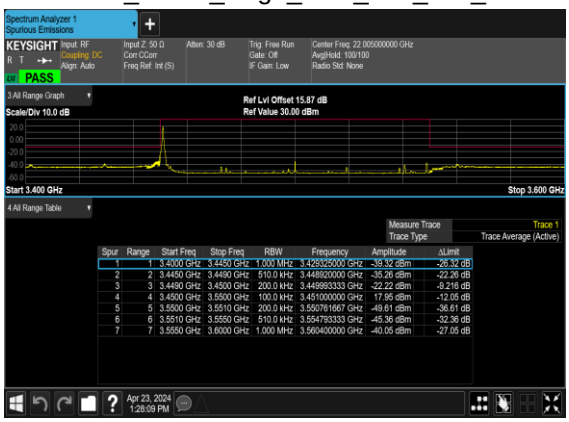
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



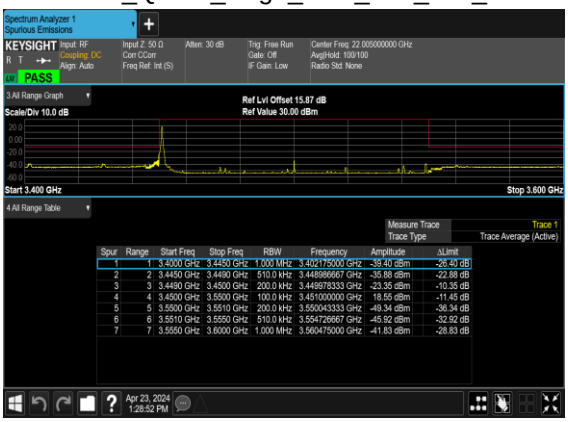
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



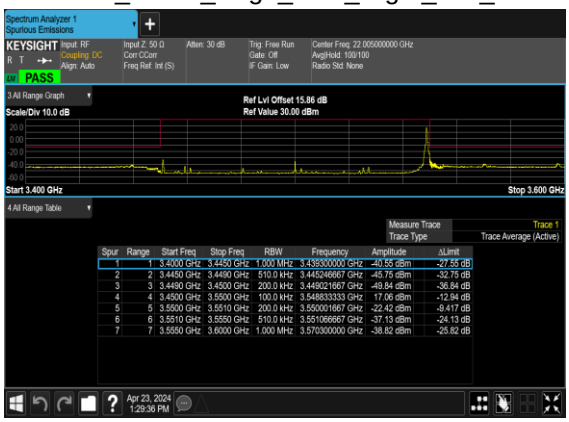
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



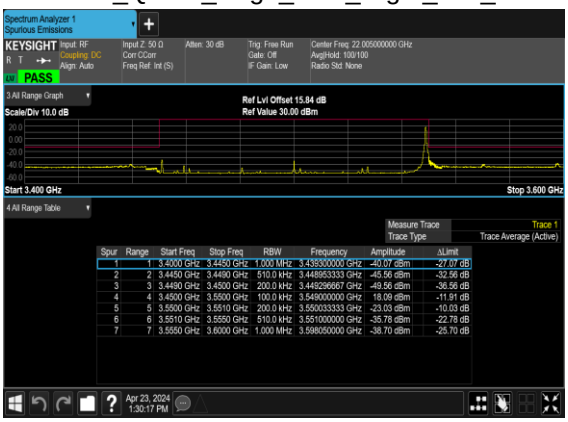
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



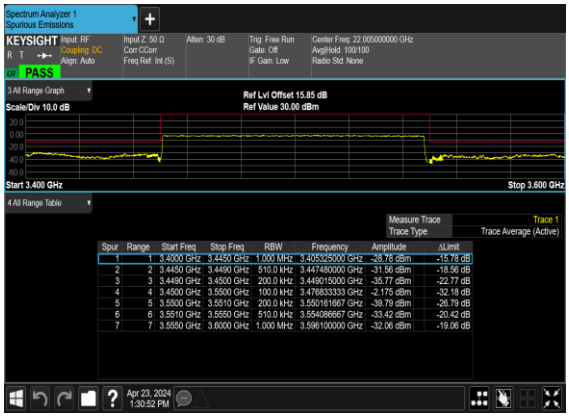
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



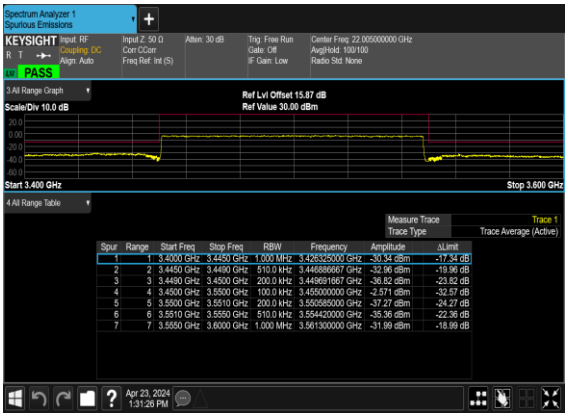
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Qingsheng He	Temperature :	22~25℃
		Relative Humidity :	48~52%

RSE pre-scanned harmonic for different antennas, choose the worst antenna perform final test and record in the report.

n77 SA / NR 100MHz / QPSK(ANT6)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6902	-62.20	-13	-49.20	-57.54	-65.50	8.30	11.60	H
	10353	-55.44	-13	-42.44	-56.56	-56.96	10.48	12.00	H
	13804	-51.03	-13	-38.03	-57.50	-52.73	11.80	13.50	H
	6902	-62.49	-13	-49.49	-57.75	-65.79	8.30	11.60	V
	10353	-55.62	-13	-42.62	-56.53	-57.14	10.48	12.00	V
	13804	-51.53	-13	-38.53	-57.69	-53.23	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

n78 SA / NR 100MHz / QPSK(ANT6)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7050	-61.06	-13	-48.06	-56.95	-64.36	8.30	11.60	H
	10575	-54.98	-13	-41.98	-56.59	-56.50	10.48	12.00	H
	14100	-52.35	-13	-39.35	-58.75	-54.05	11.80	13.50	H
	7050	-60.88	-13	-47.88	-56.94	-64.18	8.30	11.60	V
	10575	-55.09	-13	-42.09	-56.61	-56.61	10.48	12.00	V
	14100	-52.71	-13	-39.71	-58.76	-54.41	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_41A_n78A / LTE 10MHz + NR 100MHz / QPSK(2+6)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n78 Middle	7050	-60.42	-13	-47.42	-56.31	-63.72	8.30	11.60	H
	10575	-54.67	-13	-41.67	-56.28	-56.19	10.48	12.00	H
	14100	-51.60	-13	-38.60	-58.00	-53.30	11.80	13.50	H
	7050	-60.21	-13	-47.21	-56.27	-63.51	8.30	11.60	V
	10575	-55.09	-13	-42.09	-56.61	-56.61	10.48	12.00	V
	14100	-51.83	-13	-38.83	-57.88	-53.53	11.80	13.50	V
LTE Band41 Middle	5177.00	-61.83	-25	-36.83	-79.37	-67.39	7.14	12.70	H
	7765.50	-59.06	-25	-34.06	-56.20	-62.36	8.30	11.60	H
	10354.00	-55.11	-25	-30.11	-56.23	-56.63	10.48	12.00	H
	5177.00	-61.84	-25	-36.84	-79.32	-67.40	7.14	12.70	V
	7765.50	-59.10	-25	-34.10	-56.22	-62.40	8.30	11.60	V
	10354.00	-56.07	-25	-31.07	-56.99	-57.59	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.