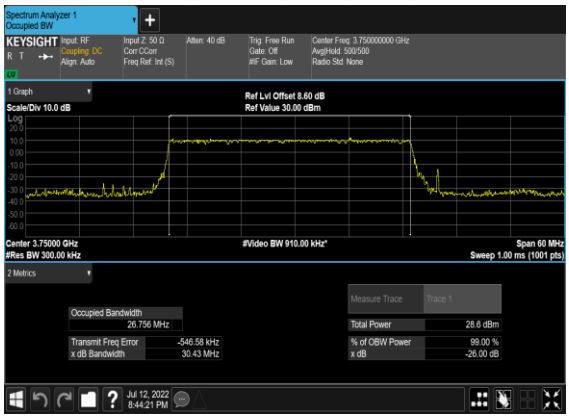
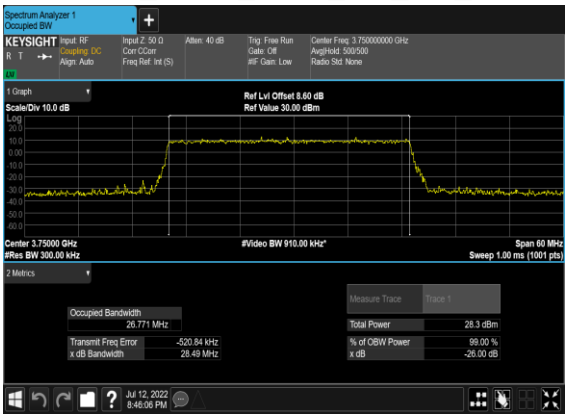
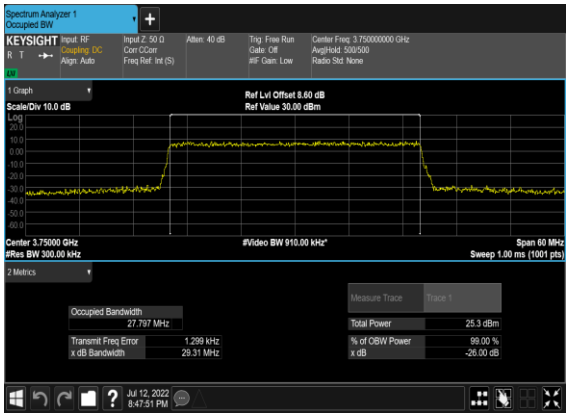
N78(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



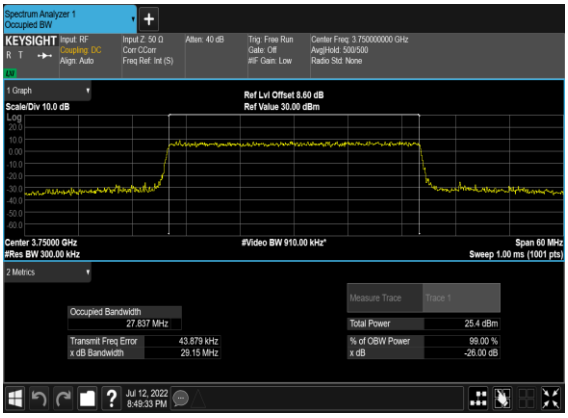
N78(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



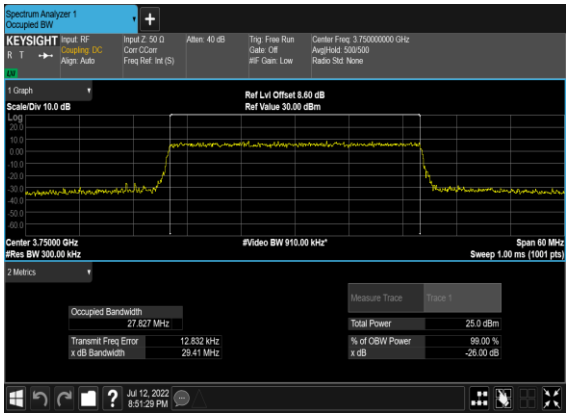
N78(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



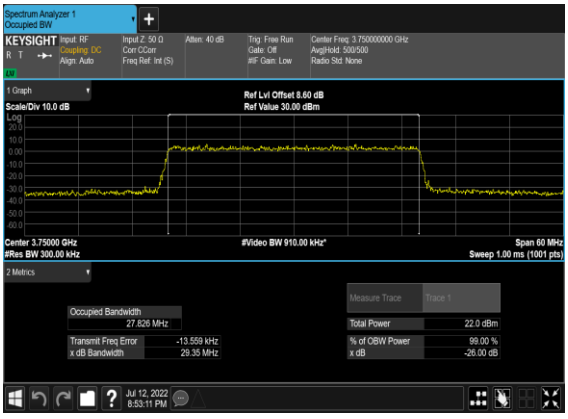
N78(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



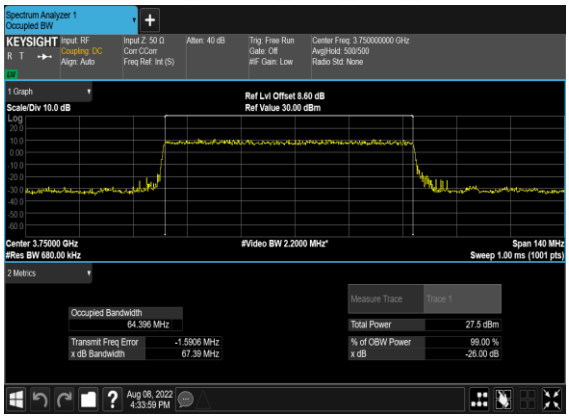
N78(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



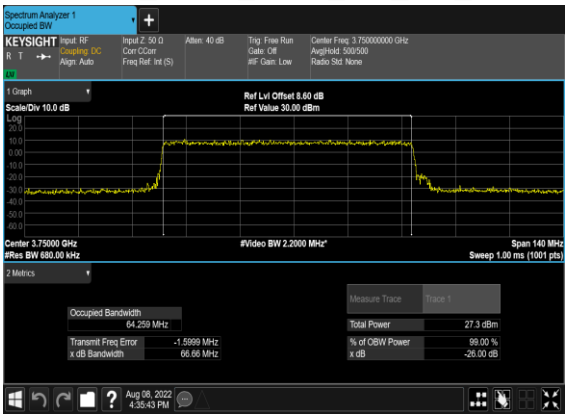
N78(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



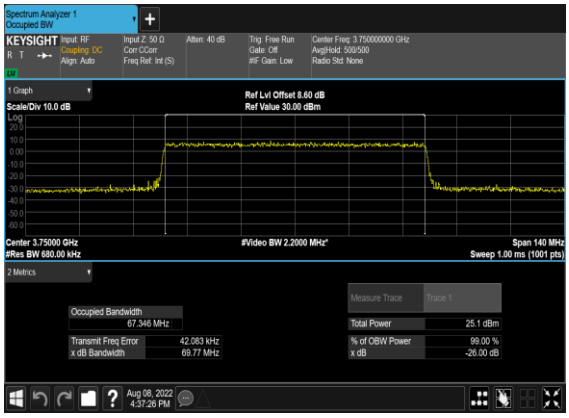
N78(70M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



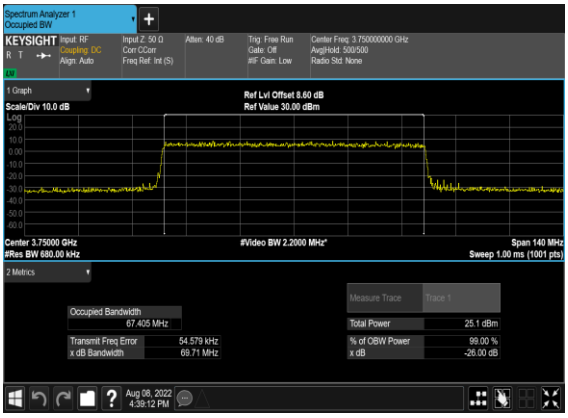
N78(70M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



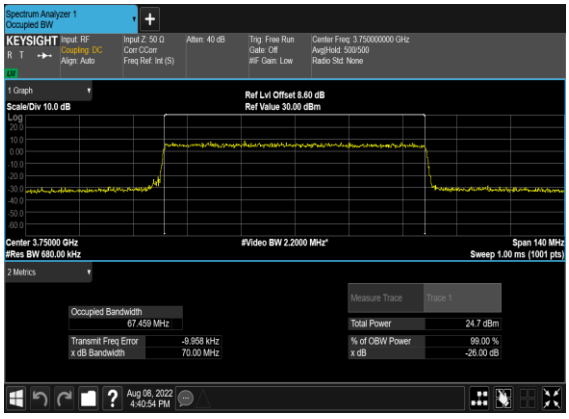
N78(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



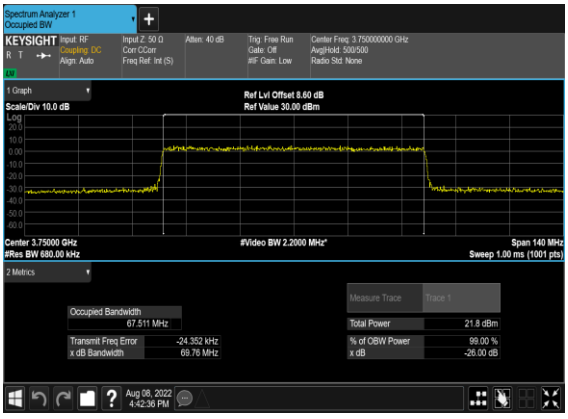
N78(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

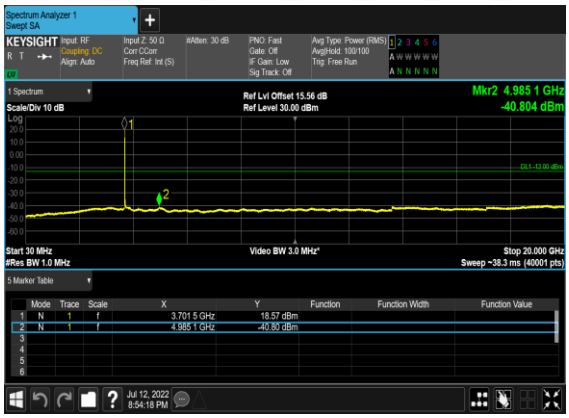


Conducted Spurious Emissions

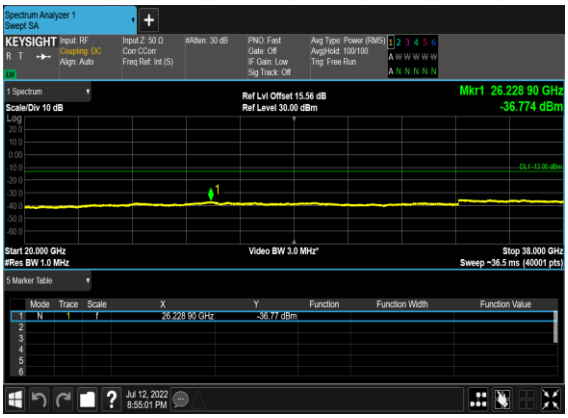
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	70	649000	3735.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	70	649000	3735.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	70	649000	3735.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	70	649000	3735.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	70	649000	3735.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	70	649000	3735.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	70	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	70	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	70	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	70	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	70	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	70	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	70	651000	3765.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	70	651000	3765.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	70	651000	3765.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	70	651000	3765.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	70	651000	3765.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	70	651000	3765.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

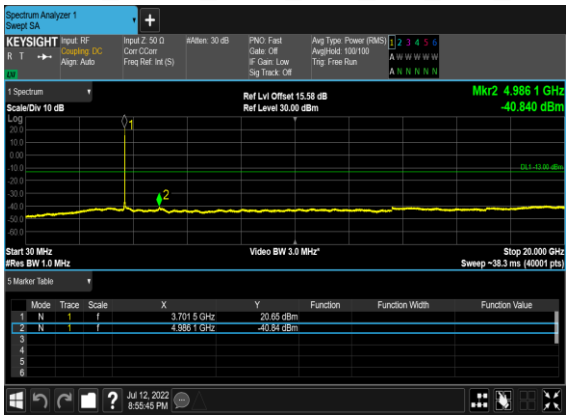
N78(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



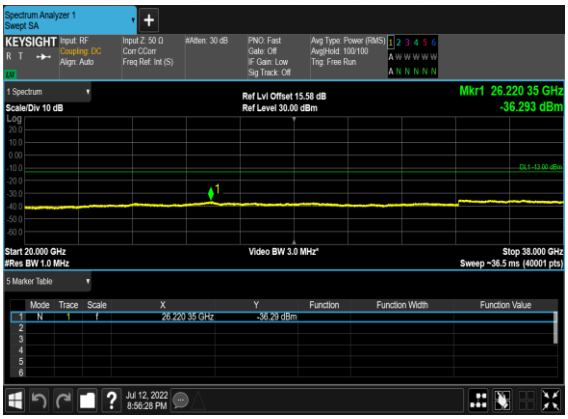
N78(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



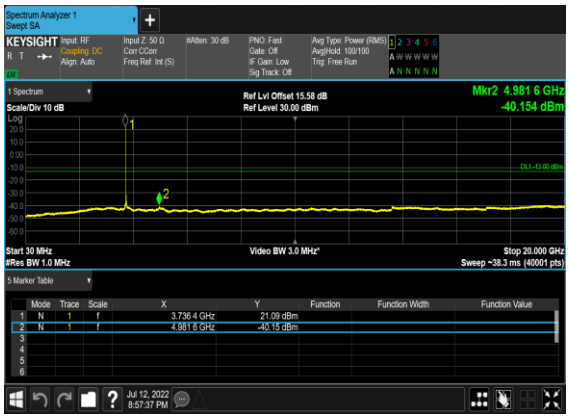
N78(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



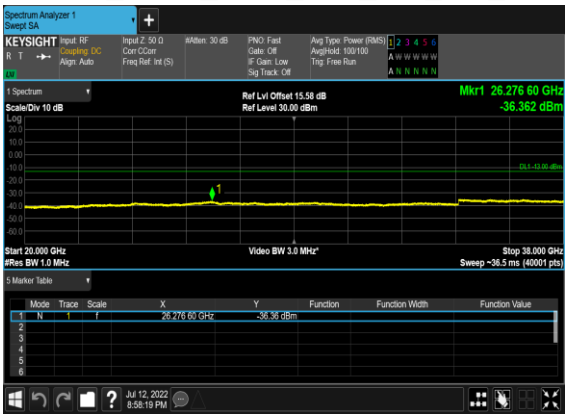
N78(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



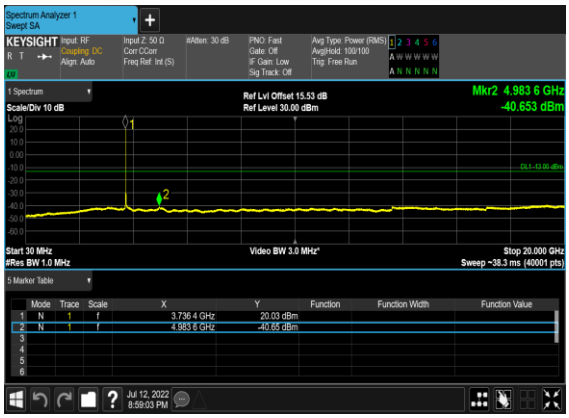
N78(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



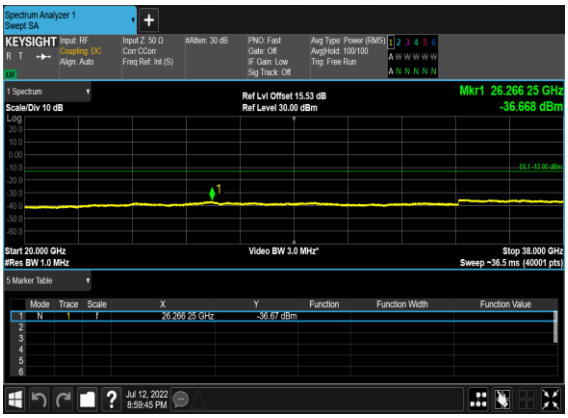
N78(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



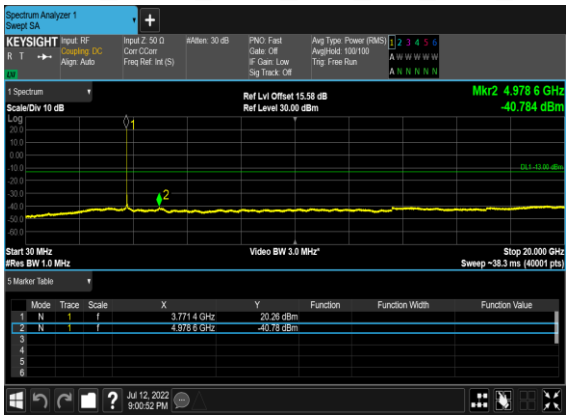
N78(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



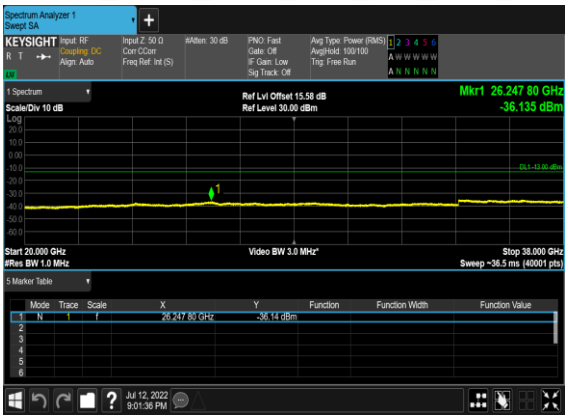
N78(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



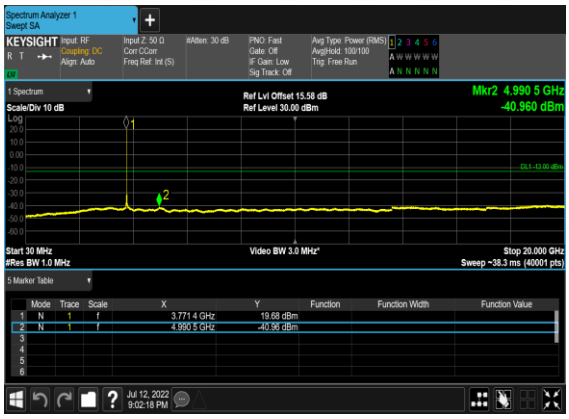
N78(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



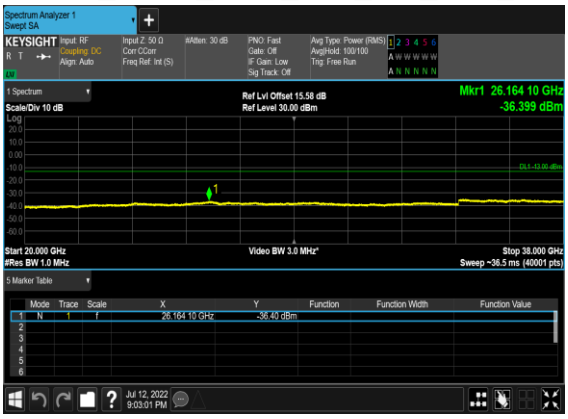
N78(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



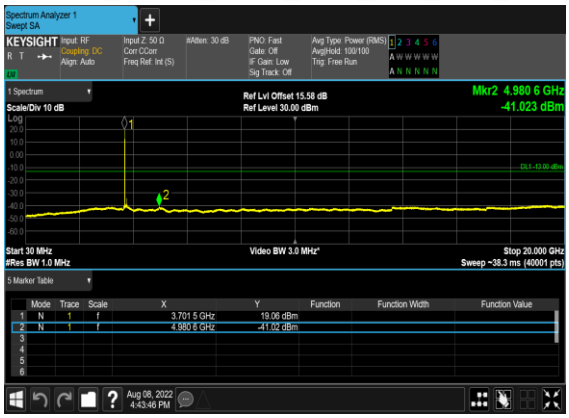
N78(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



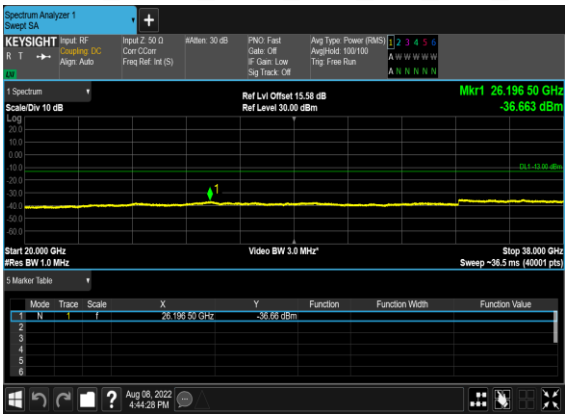
N78(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



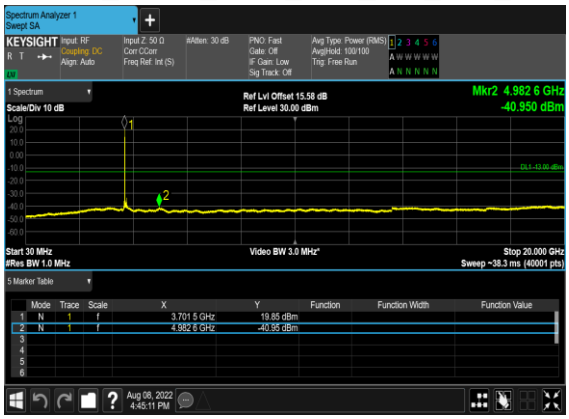
N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



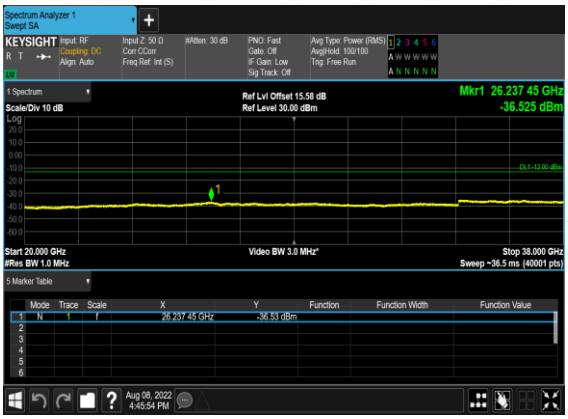
N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



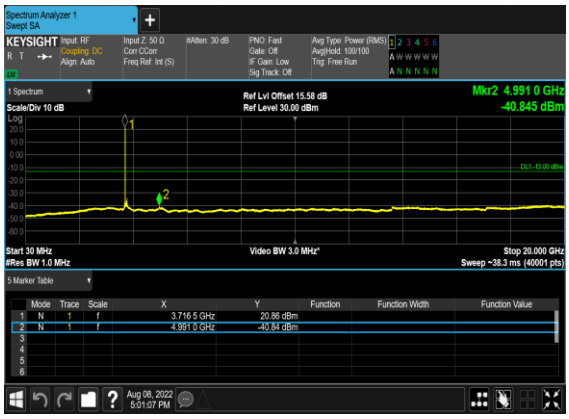
N78(70M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



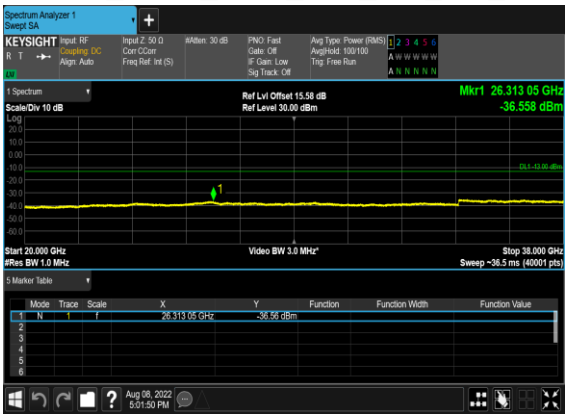
N78(70M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



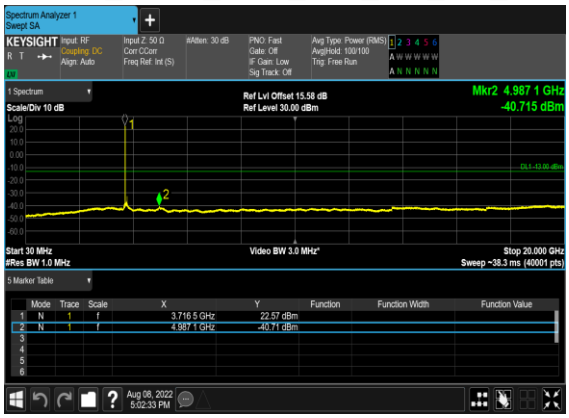
N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



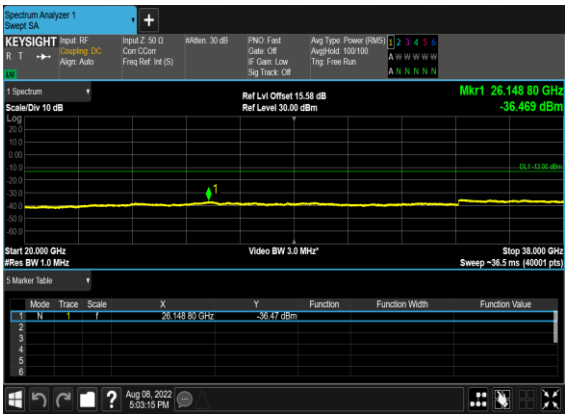
N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



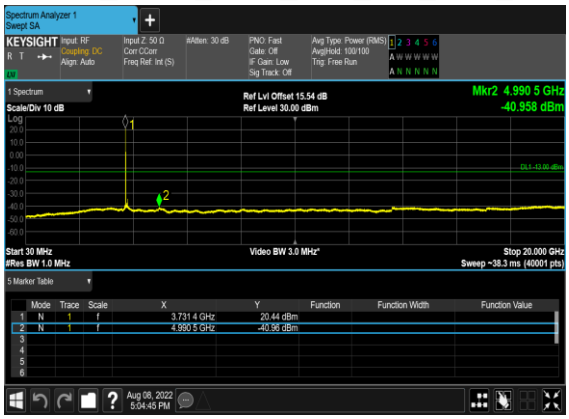
N78(70M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



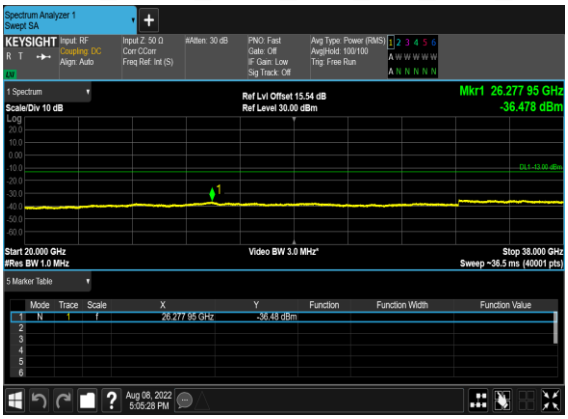
N78(70M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



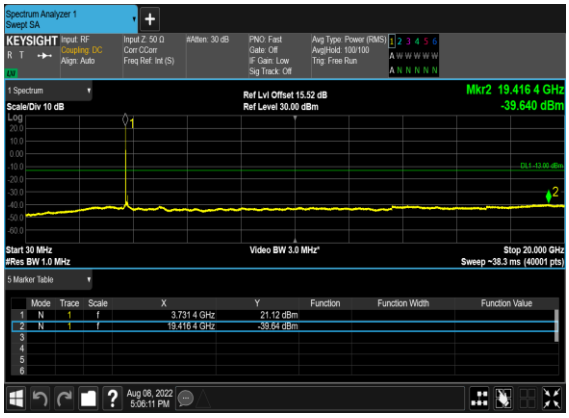
N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



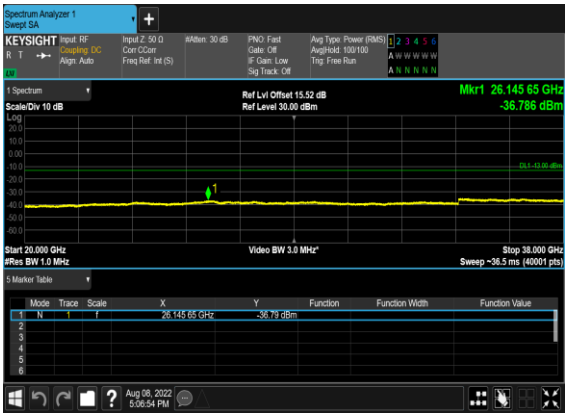
N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N78(70M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



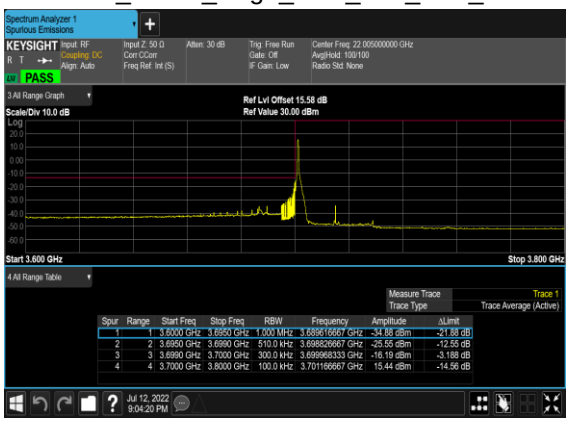
N78(70M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



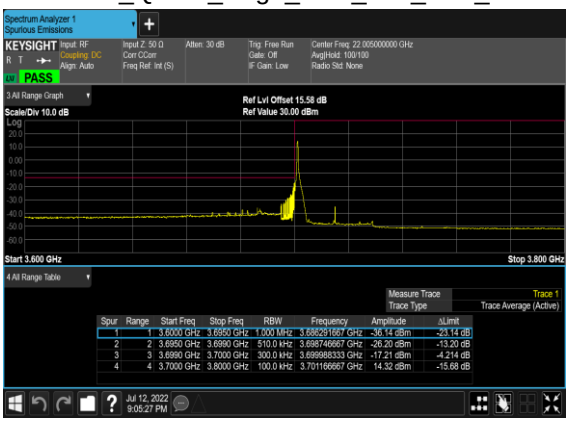
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	75@0	see graph	**PASS**
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	75@0	see graph	**PASS**
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	1@77	see graph	**PASS**
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@77	see graph	**PASS**
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	75@0	see graph	**PASS**
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	75@0	see graph	**PASS**
78	30	70	649000	3735.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	70	649000	3735.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	70	649000	3735.0	DFT-s-OFDM BPSK	180@0	see graph	**PASS**
78	30	70	649000	3735.0	DFT-s-OFDM QPSK	180@0	see graph	**PASS**
78	30	70	651000	3765.0	DFT-s-OFDM BPSK	1@188	see graph	**PASS**
78	30	70	651000	3765.0	DFT-s-OFDM QPSK	1@188	see graph	**PASS**
78	30	70	651000	3765.0	DFT-s-OFDM BPSK	180@0	see graph	**PASS**
78	30	70	651000	3765.0	DFT-s-OFDM QPSK	180@0	see graph	**PASS**

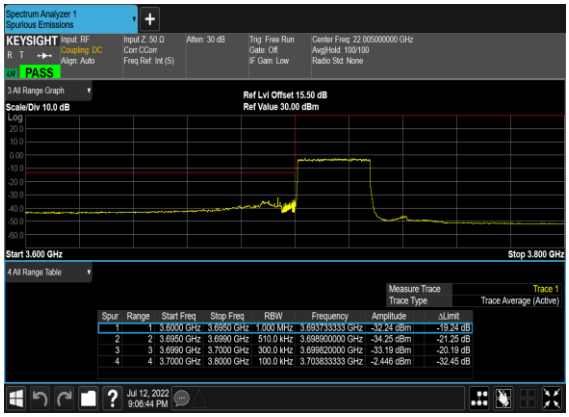
N78(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



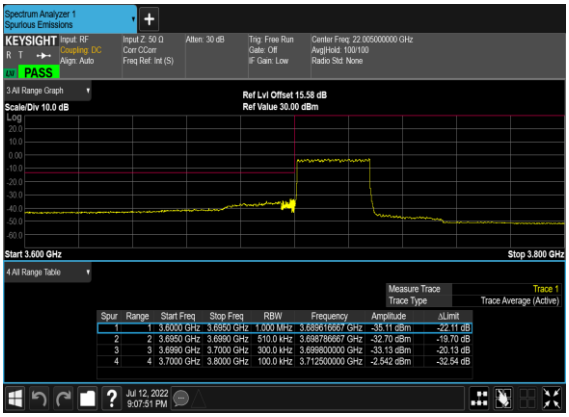
N78(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



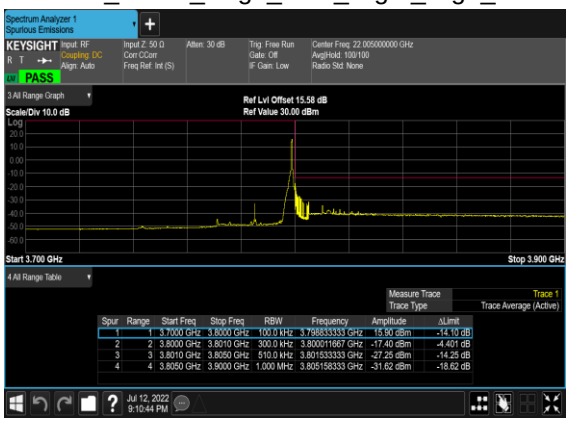
N78(30M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



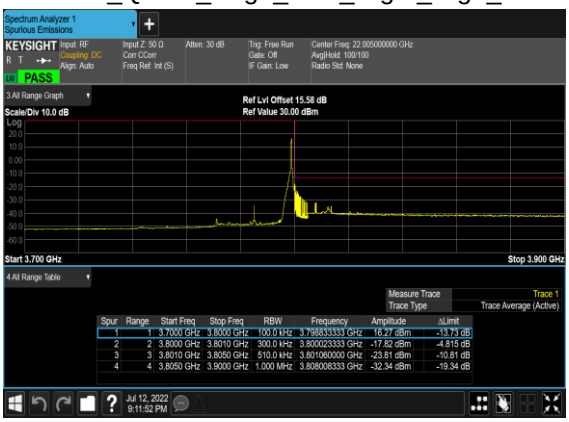
N78(30M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



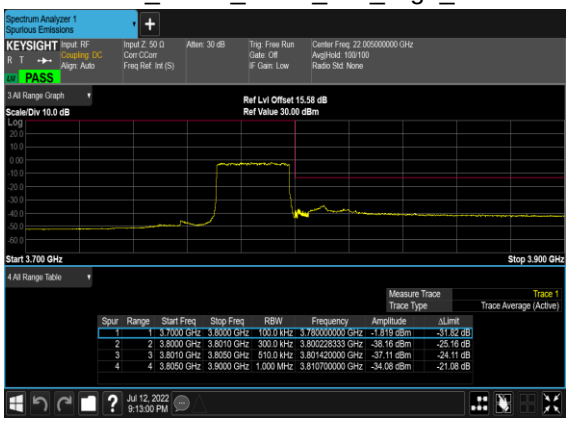
N78(30M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



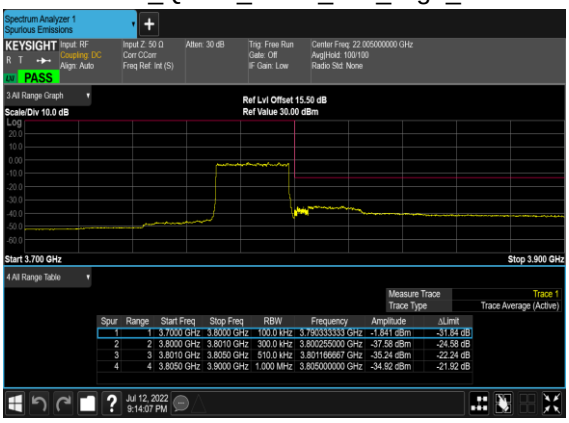
N78(30M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N78(30M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

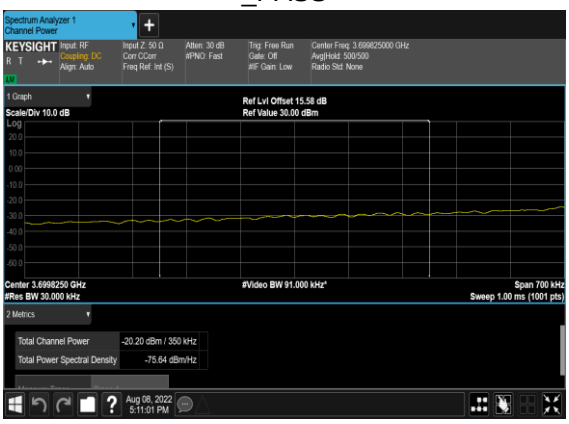


N78(30M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

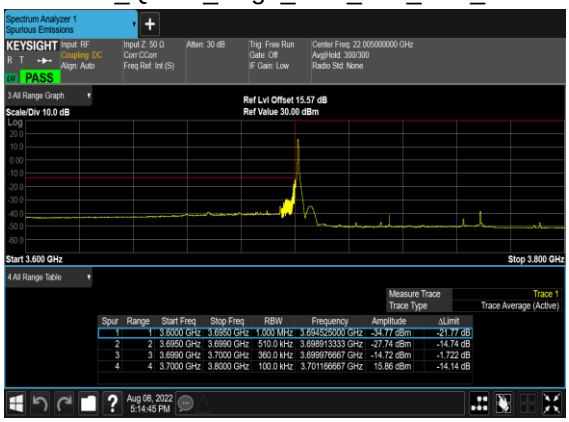


N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

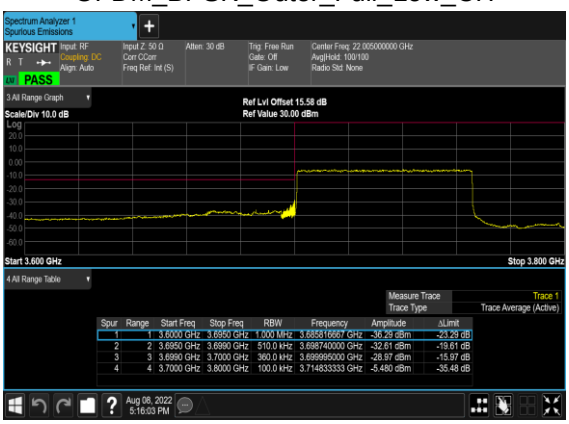
N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS



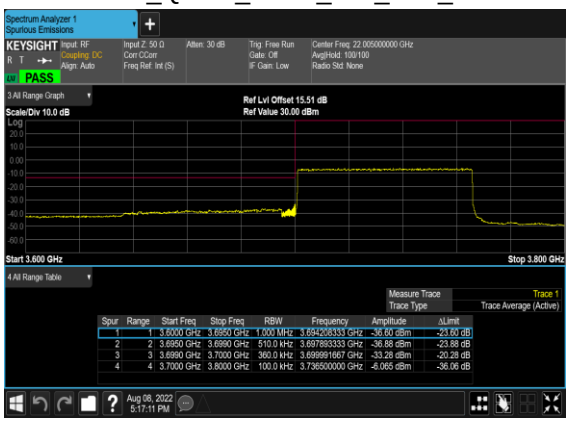
N78(70M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



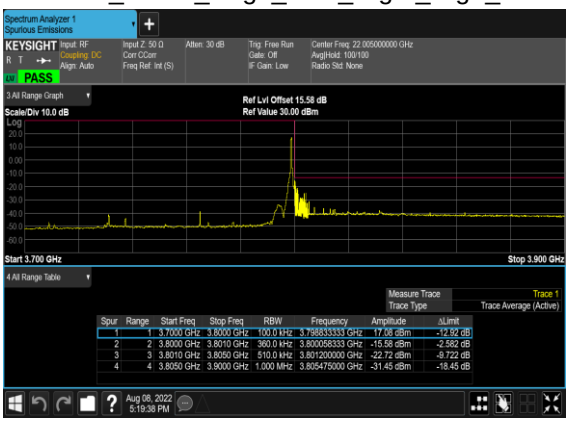
N78(70M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N78(70M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



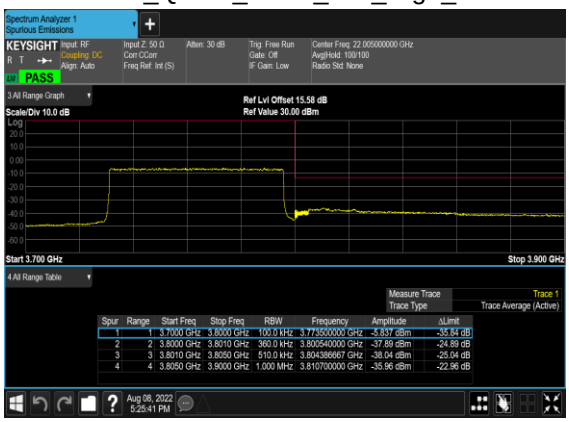
N78(70M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N78(70M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

N78(70M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N78(70M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Kuang Jia and Wenbo Xiao	Temperature :	22~25℃
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for testing, we choose the worst antenna mode to test.

SA n77 / 100MHz / QPSK / ANT13									
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	7680.00	-58.38	-13	-45.38	-64.10	-61.68	8.30	11.60	H
	11520.00	-55.32	-13	-42.32	-67.43	-56.84	10.48	12.00	H
	15360.00	-52.47	-13	-39.47	-67.38	-54.17	11.80	13.50	H
	7680.00	-57.61	-13	-44.61	-63.9	-60.91	8.30	11.60	V
	11520.00	-55.13	-13	-42.13	-67.28	-56.65	10.48	12.00	V
	15360.00	-51.99	-13	-38.99	-67.41	-53.69	11.80	13.50	V

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