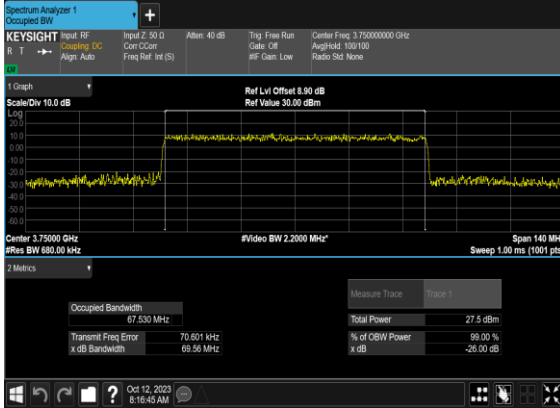
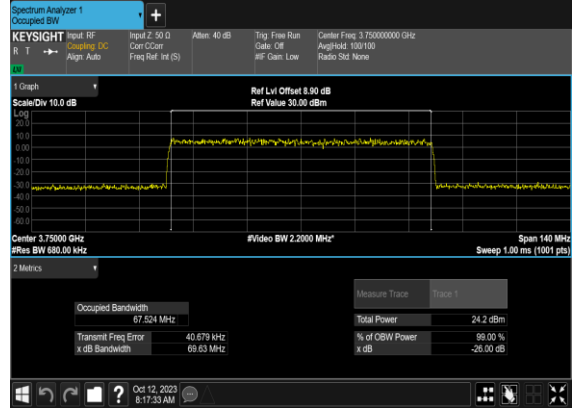


N78(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



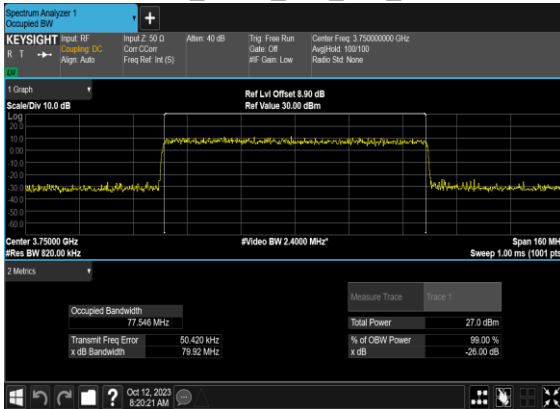
N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



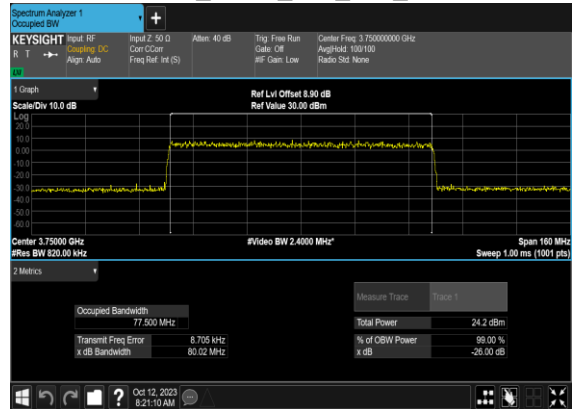
N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



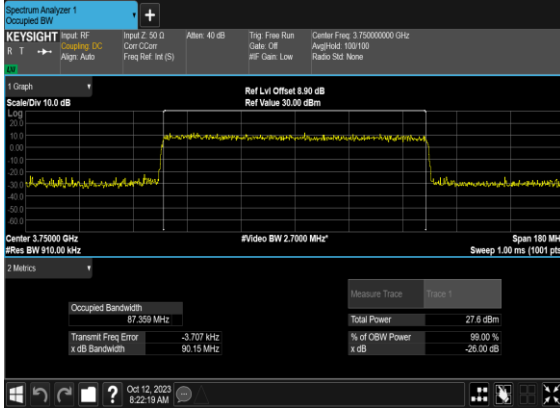
N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



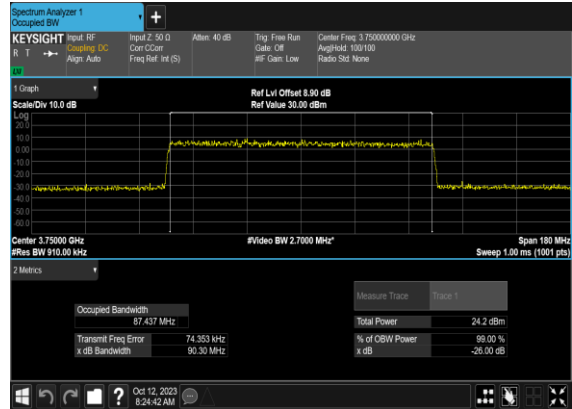
N78(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



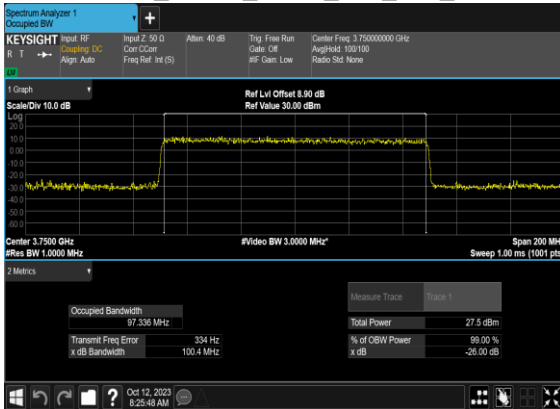
N78(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



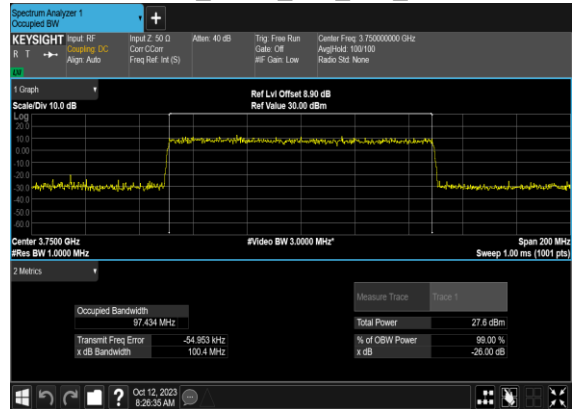
N78(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



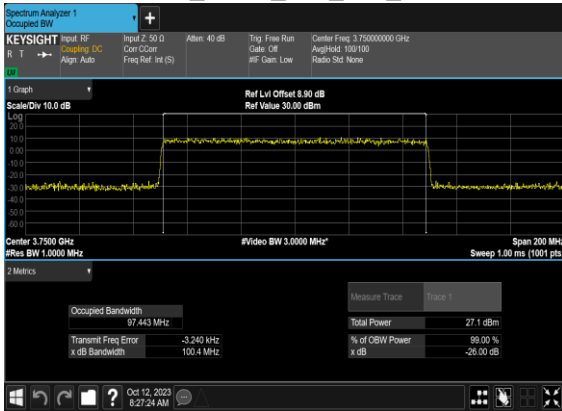
N78(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



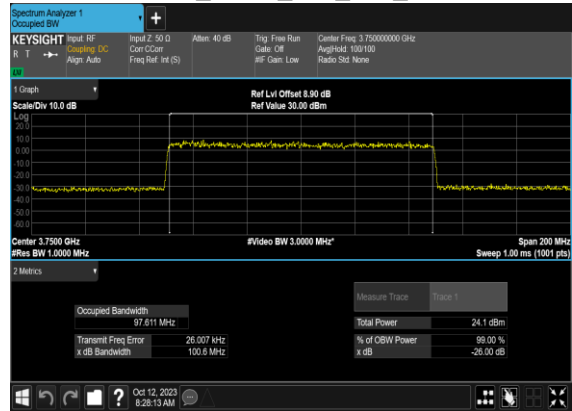
N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

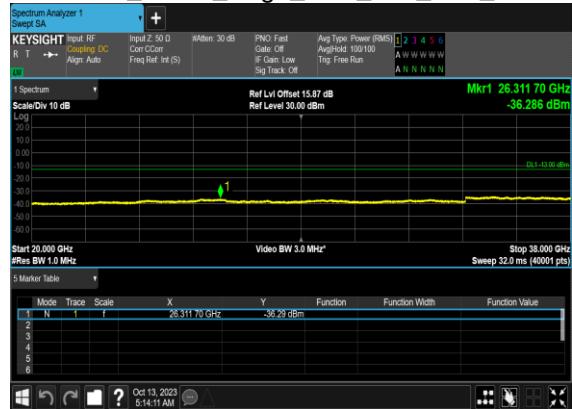
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	80	649334	3740.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	80	649334	3740.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	80	649334	3740.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	80	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	80	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	80	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	80	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	80	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

78	30	80	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	80	650666	3759.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	80	650666	3759.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	80	650666	3759.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

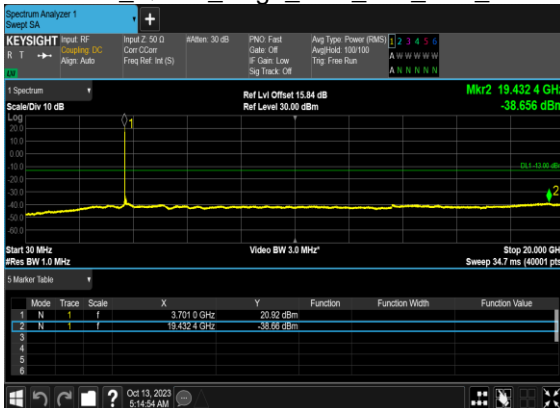
N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



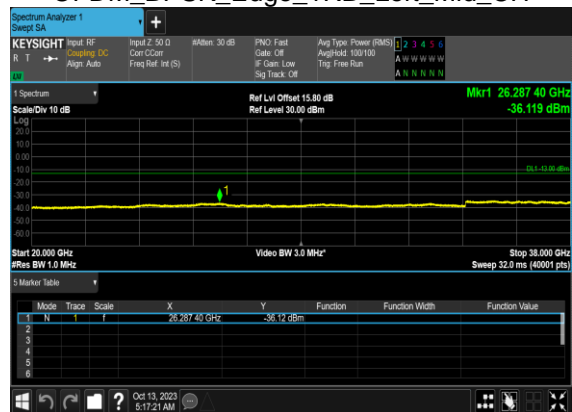
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



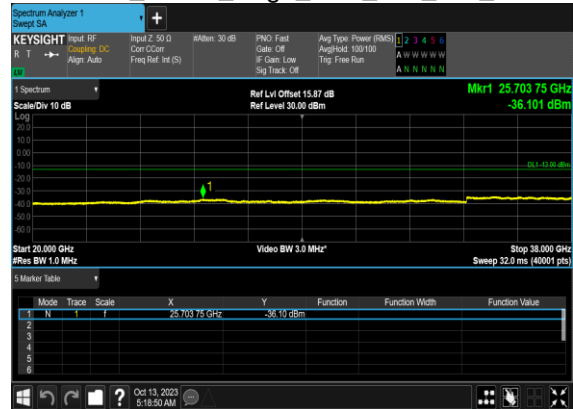
N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



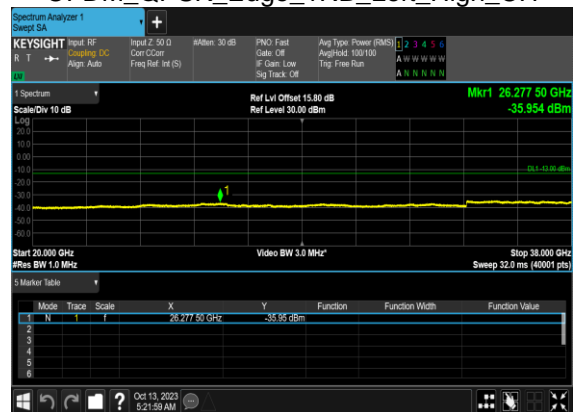
N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



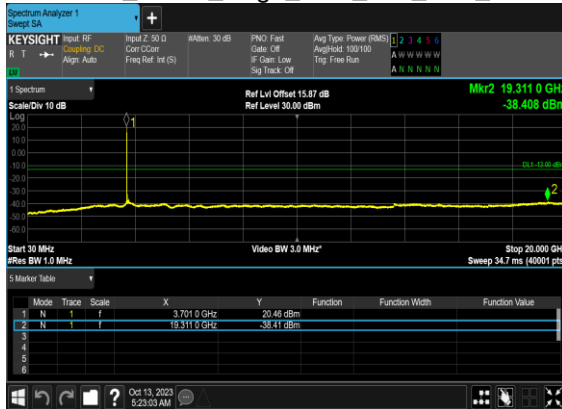
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



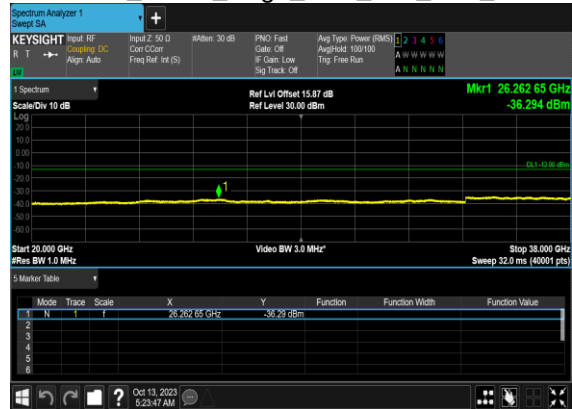
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N78(80M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(80M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



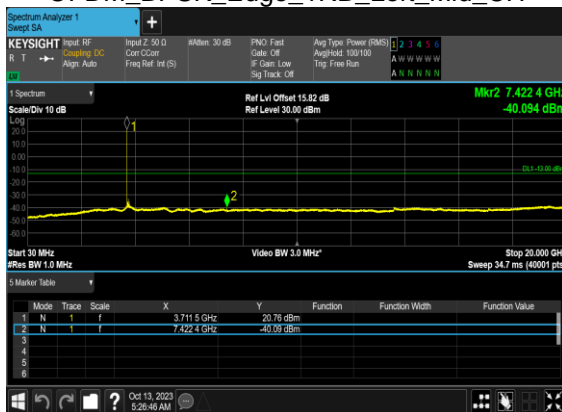
N78(80M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



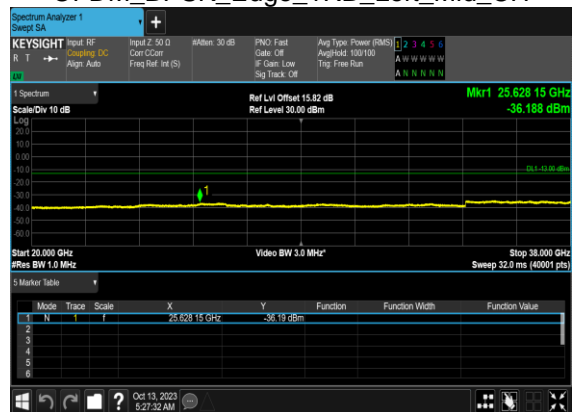
N78(80M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(80M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



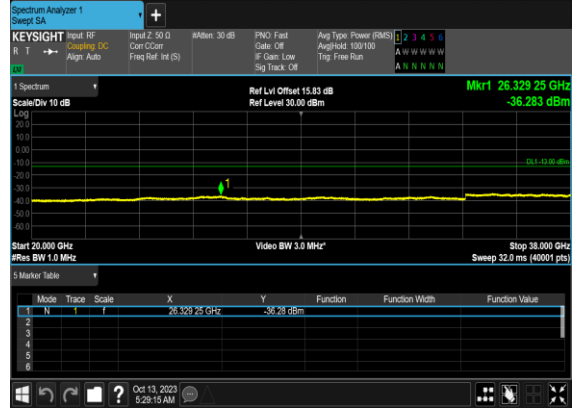
N78(80M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



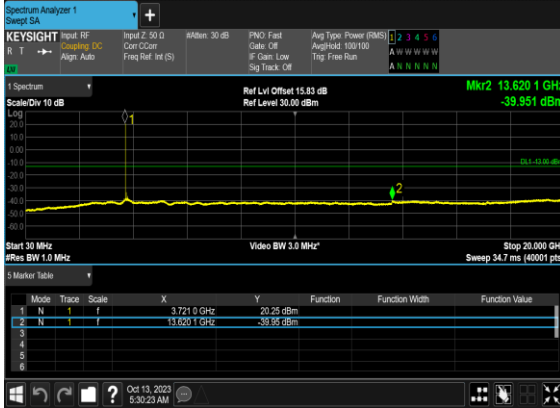
N78(80M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



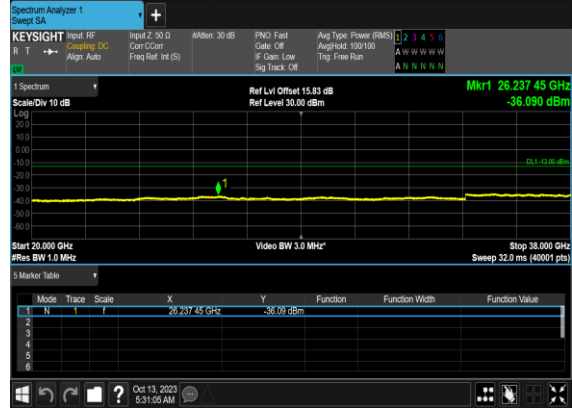
N78(80M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(80M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



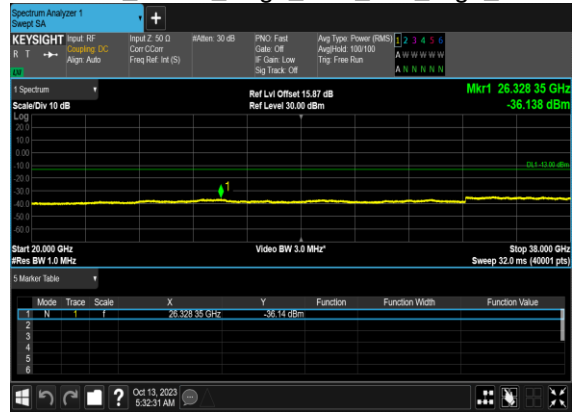
N78(80M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N78(80M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



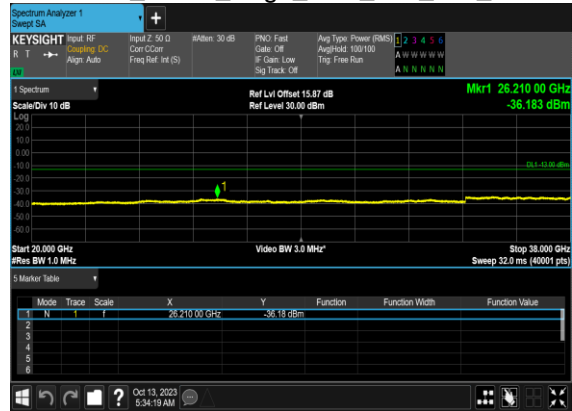
N78(80M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



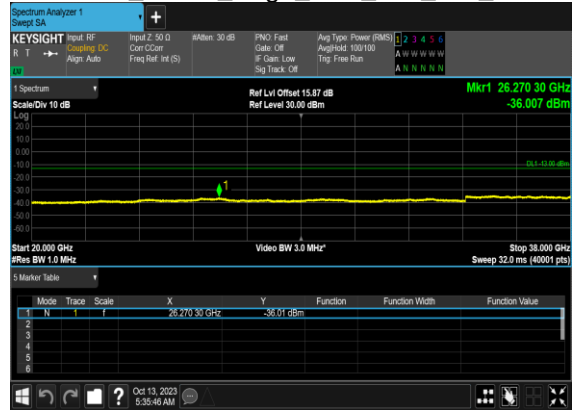
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



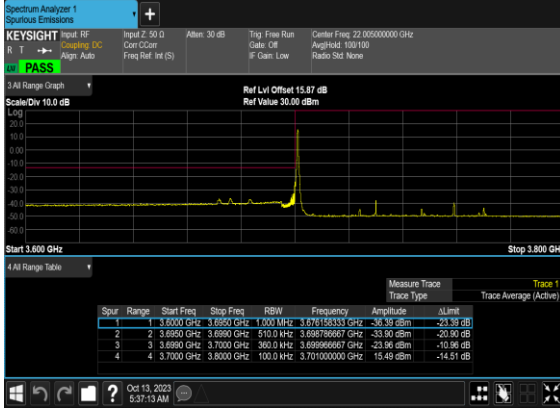
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	162@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	162@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	1@161	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@161	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	162@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	162@0	see graph	PASS
78	30	80	649334	3740.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	80	649334	3740.01	DFT-s-OFDM BPSK	216@0	see graph	PASS
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	216@0	see graph	PASS
78	30	80	650666	3759.99	DFT-s-OFDM BPSK	1@216	see graph	PASS
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@216	see graph	PASS
78	30	80	650666	3759.99	DFT-s-OFDM BPSK	216@0	see graph	PASS
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	216@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

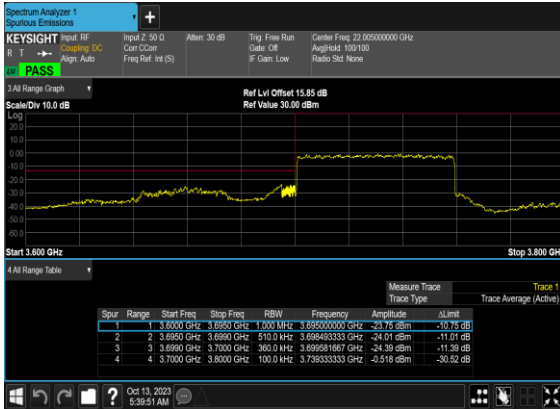
N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



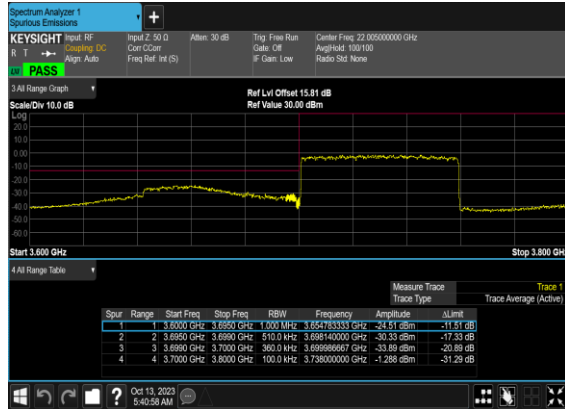
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



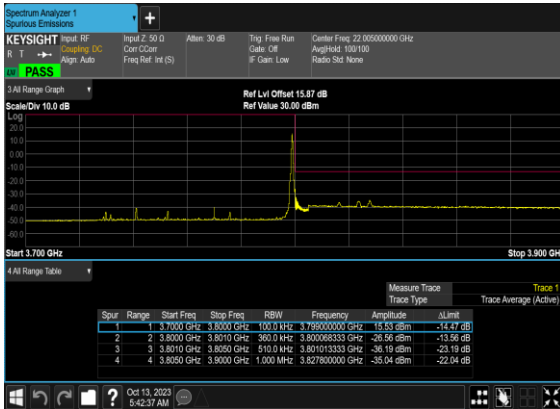
N78(60M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



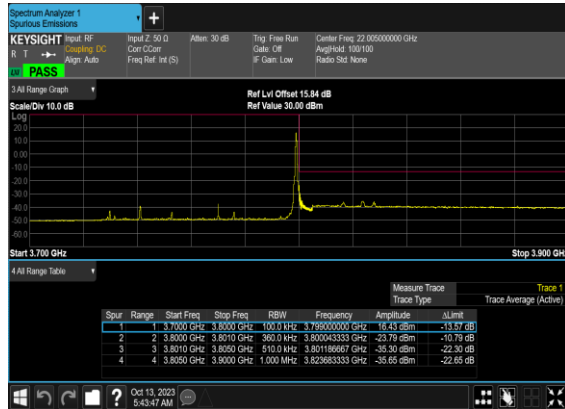
N78(60M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



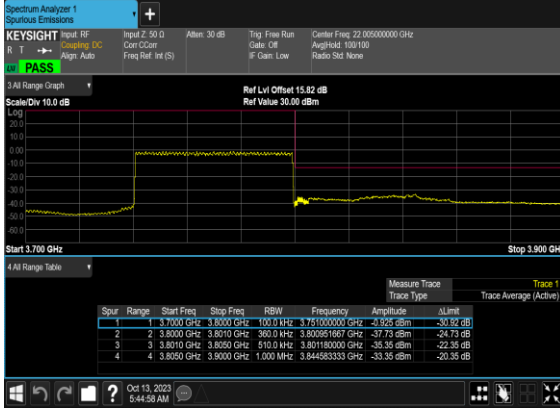
N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



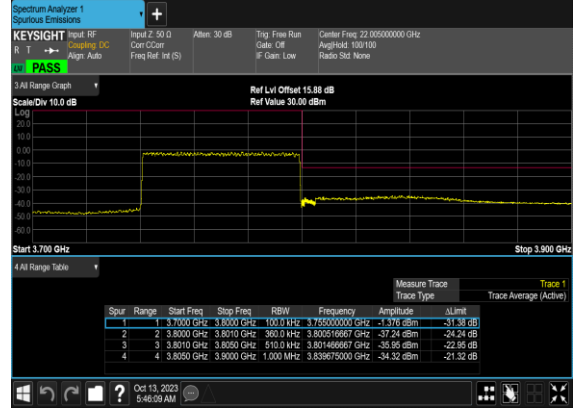
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



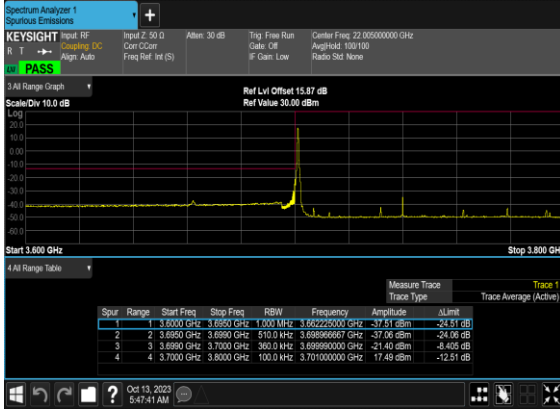
N78(60M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



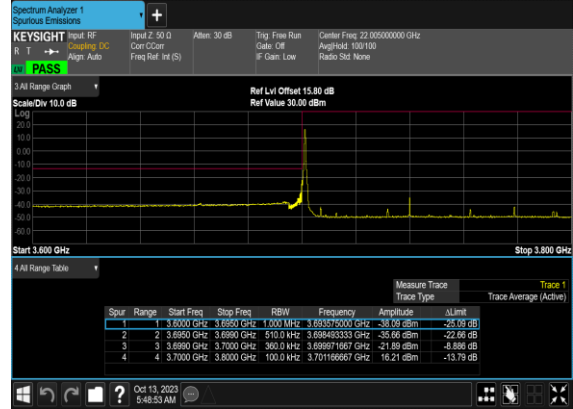
N78(60M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



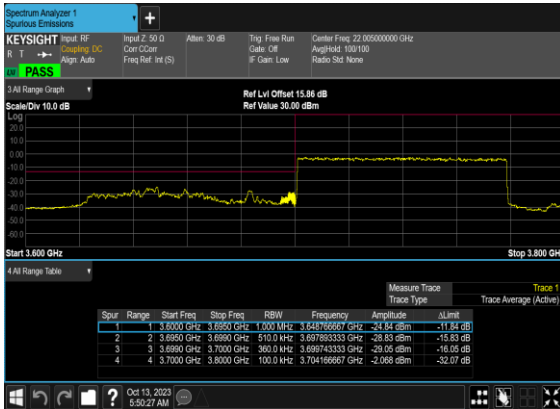
N78(80M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



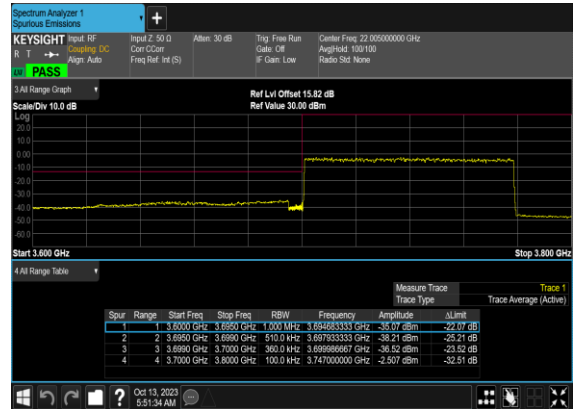
N78(80M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



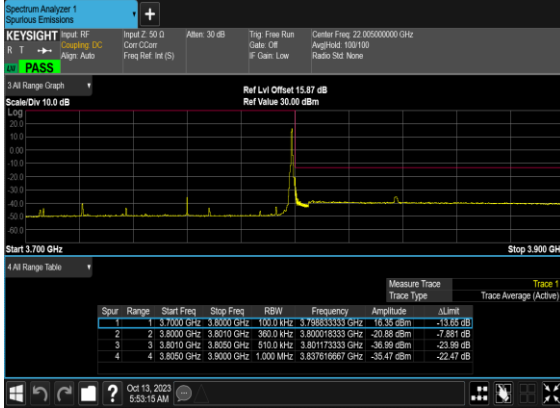
N78(80M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



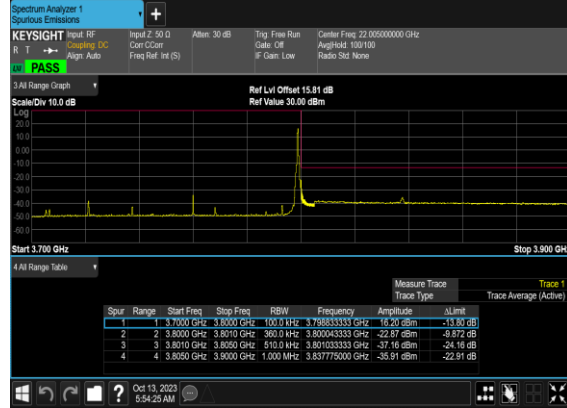
N78(80M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



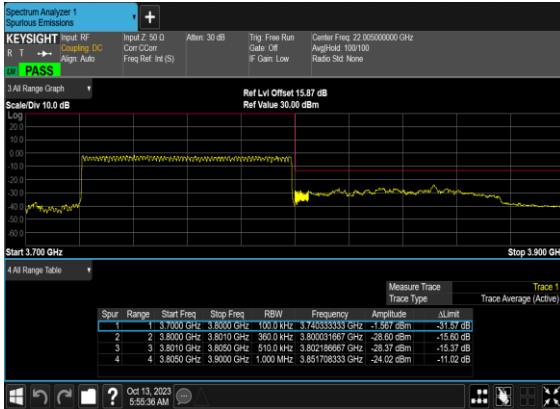
N78(80M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



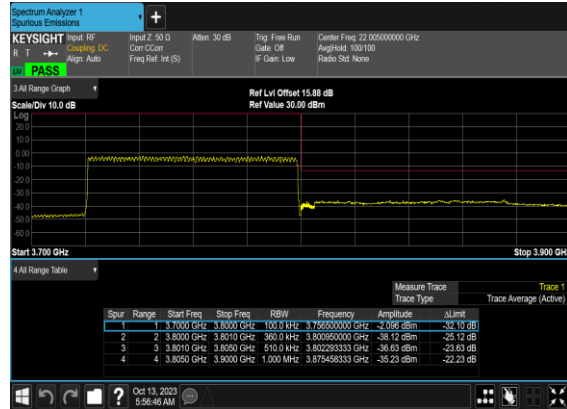
N78(80M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



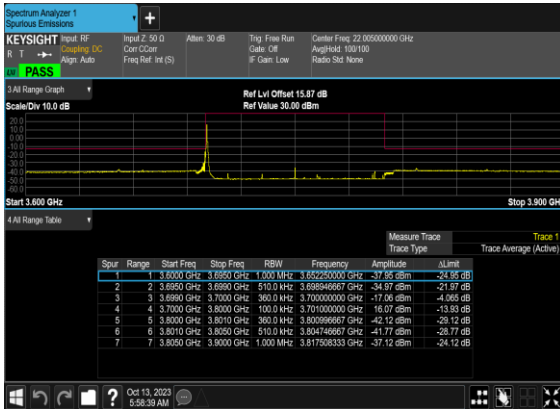
N78(80M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



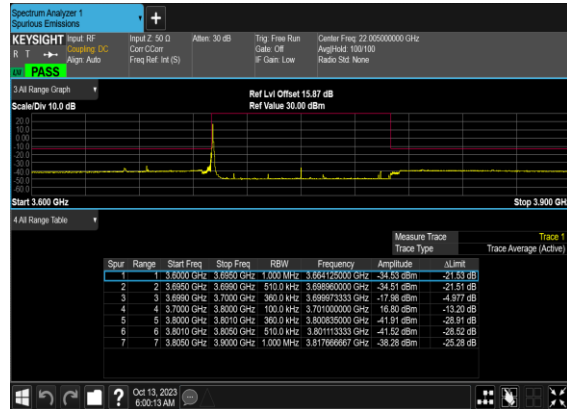
N78(80M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



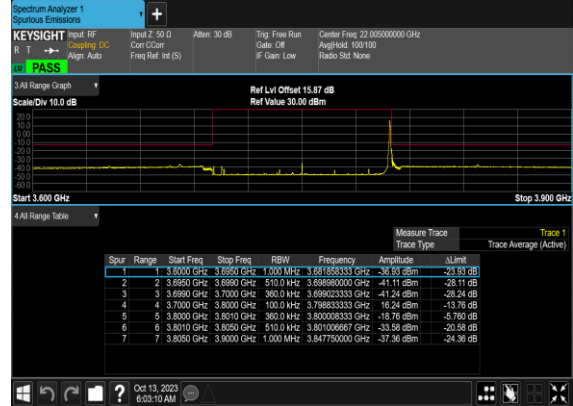
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



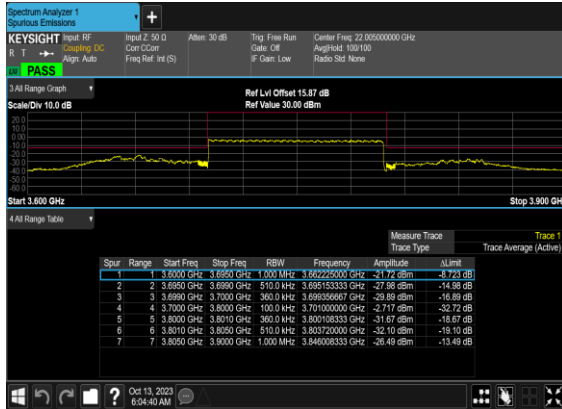
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



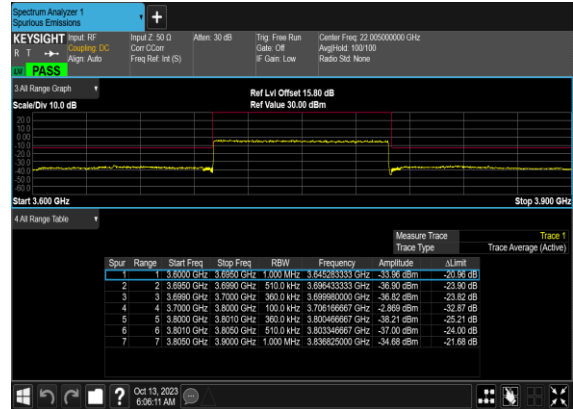
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



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 :	Wenbo Xiao	Temperature :	22~25°C
		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(ANT5)									
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	7582.36	-59.51	-13	-46.51	-52.69	-62.81	8.30	11.60	H
	11373.54	-55.19	-13	-42.19	-56.20	-56.71	10.48	12.00	H
	15164.72	-53.53	-13	-40.53	-56.93	-55.23	11.80	13.50	H
	7582.36	-59.08	-13	-46.08	-52.74	-62.38	8.30	11.60	V
	11373.54	-54.94	-13	-41.94	-55.91	-56.46	10.48	12.00	V
	15164.72	-51.43	-13	-38.43	-56.41	-53.13	11.80	13.50	V

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

n78 SA / NR 100MHz / QPSK(ANT5)									
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	7401	-59.18	-13	-46.18	-52.67	-62.48	8.30	11.60	H
	11101.5	-55.11	-13	-42.11	-54.93	-56.63	10.48	12.00	H
	14802	-53.29	-13	-40.29	-55.65	-54.99	11.80	13.50	H
	7401	-58.59	-13	-45.59	-52.39	-61.89	8.30	11.60	V
	11101.5	-55.16	-13	-42.16	-54.71	-56.68	10.48	12.00	V
	14802	-50.75	-13	-37.75	-55.28	-52.45	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(1+5)									
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	7401	-58.25	-13	-45.25	-51.74	-61.55	8.30	11.60	H
	11101.5	-53.41	-13	-40.41	-53.23	-54.93	10.48	12.00	H
	14802	-52.35	-13	-39.35	-54.71	-54.05	11.80	13.50	H
	7401	-57.56	-13	-44.56	-51.36	-60.86	8.30	11.60	V
	11101.5	-54.10	-13	-41.10	-53.65	-55.62	10.48	12.00	V
	14802	-49.82	-13	-36.82	-54.35	-51.52	11.80	13.50	V
LTE Band41 Middle	5177.00	-64.16	-25	-39.16	-83.40	-69.72	7.14	12.70	H
	7765.50	-59.19	-25	-34.19	-51.99	-62.49	8.30	11.60	H
	10354.00	-55.74	-25	-30.74	-53.92	-57.26	10.48	12.00	H
	5177.00	-64.24	-25	-39.24	-83.14	-69.80	7.14	12.70	V
	7765.50	-58.27	-25	-33.27	-51.72	-61.57	8.30	11.60	V
	10354.00	-57.33	-25	-32.33	-54.54	-58.85	10.48	12.00	V

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