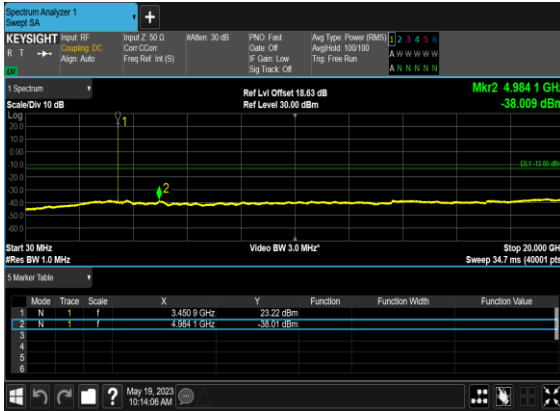
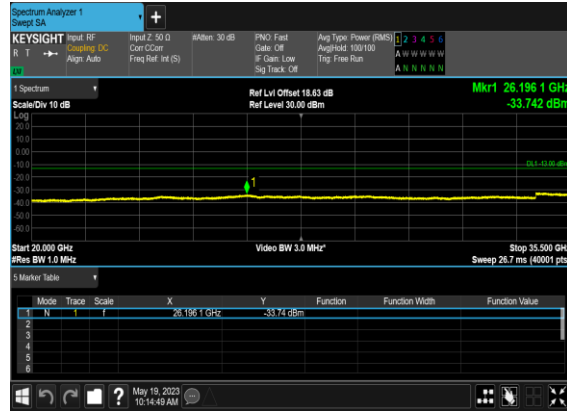


N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



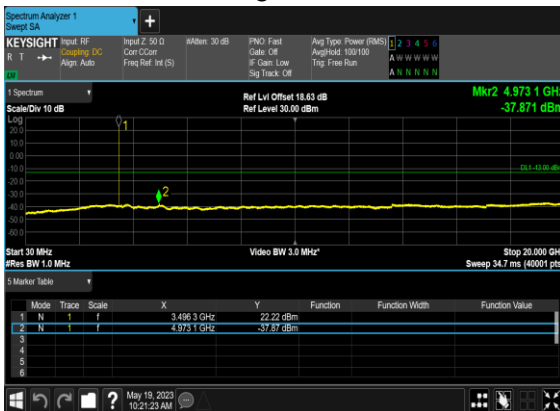
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



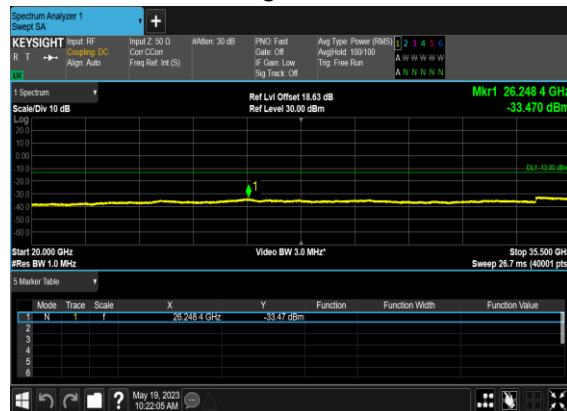
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



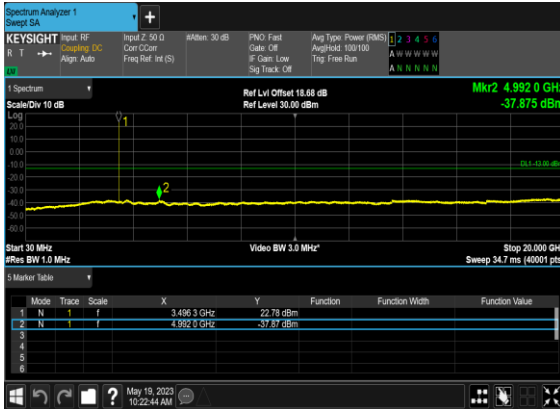
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



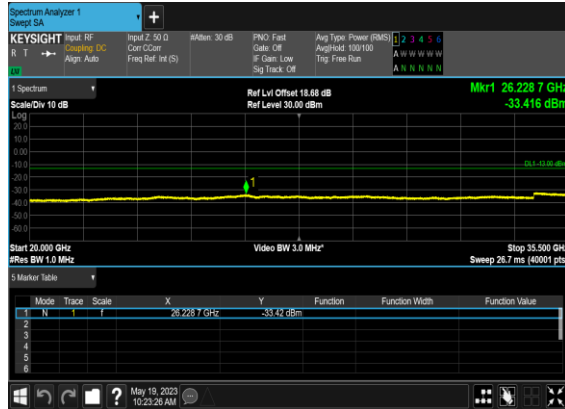
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



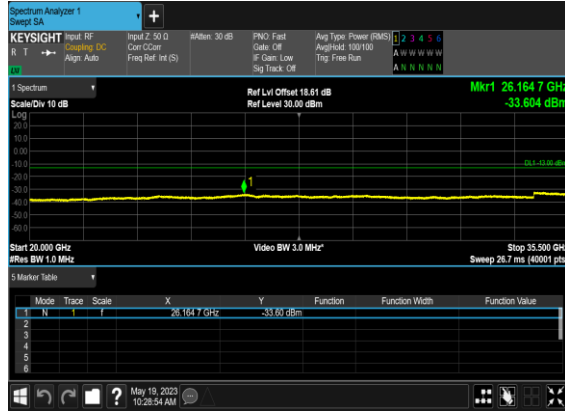
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



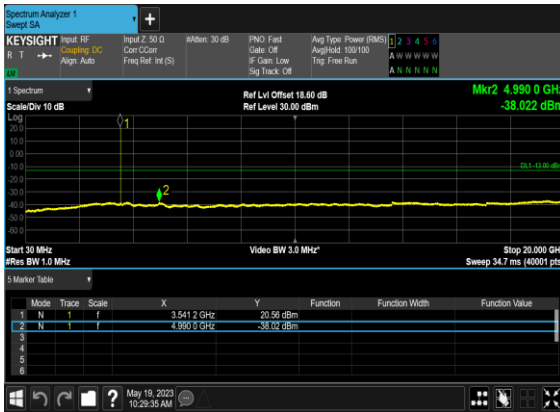
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



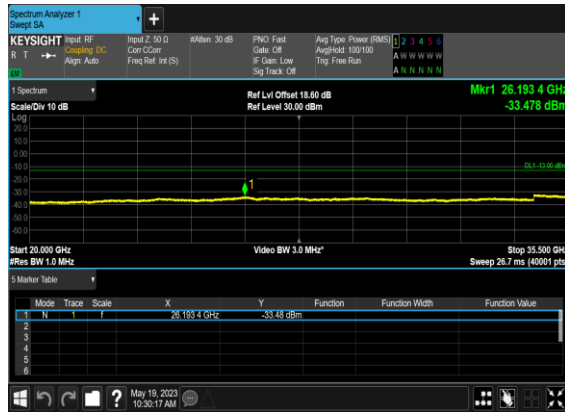
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



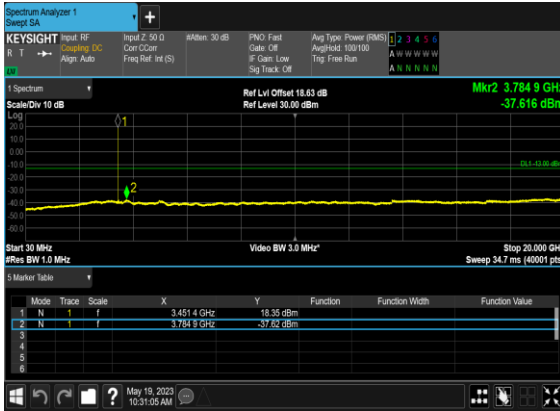
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



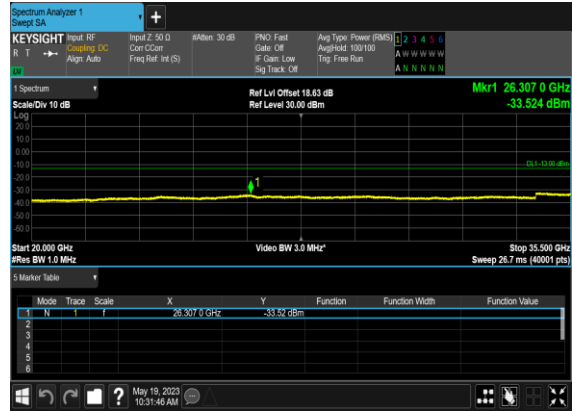
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



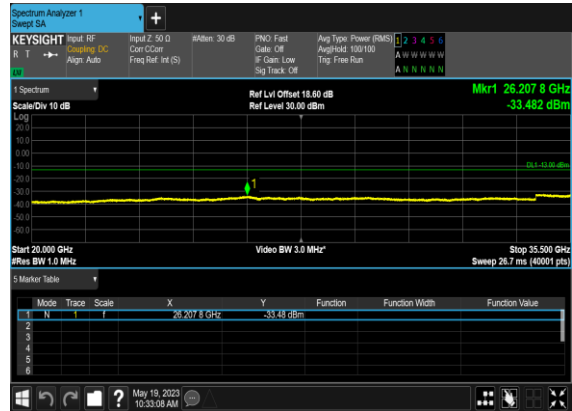
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



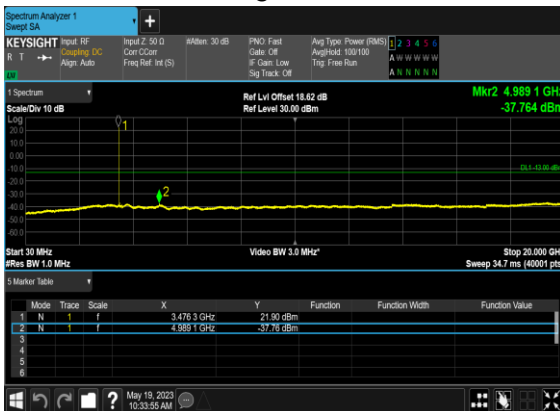
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



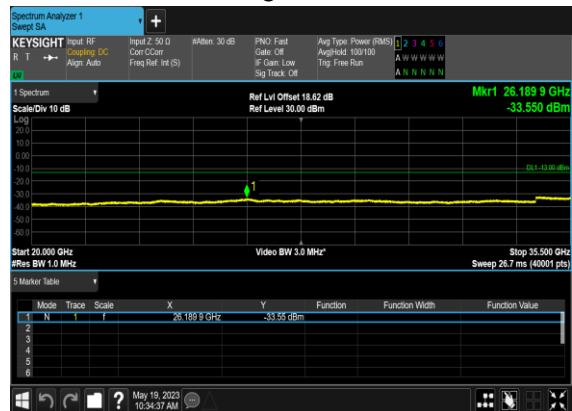
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



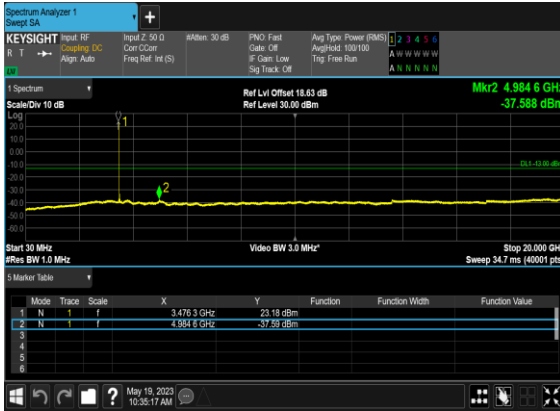
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



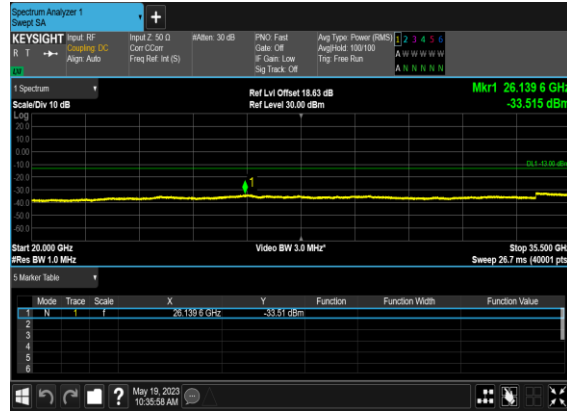
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



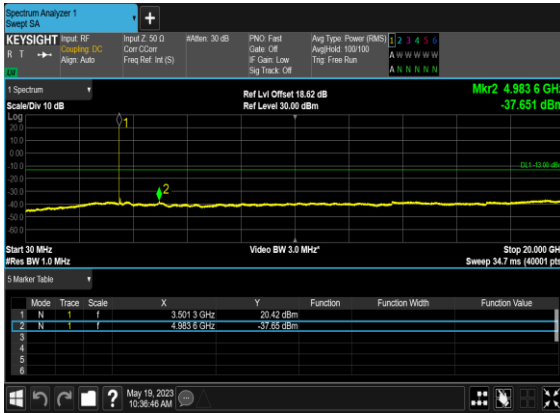
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



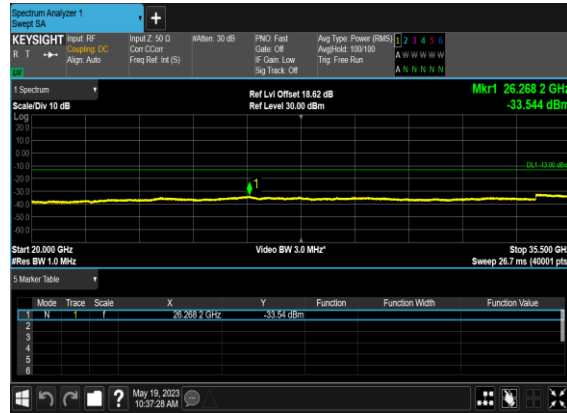
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



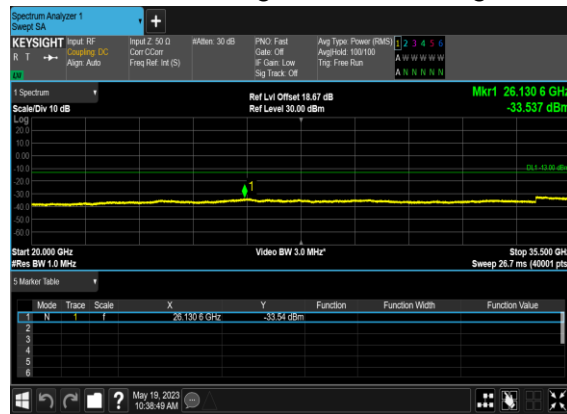
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



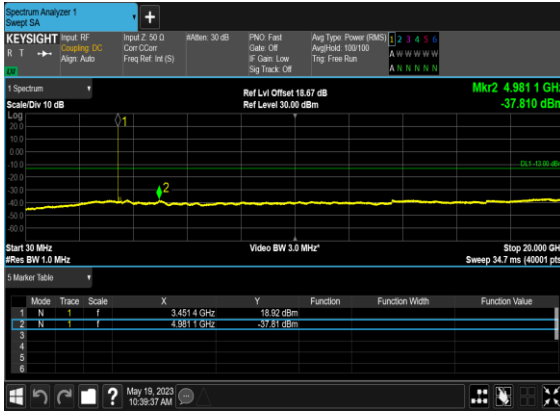
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



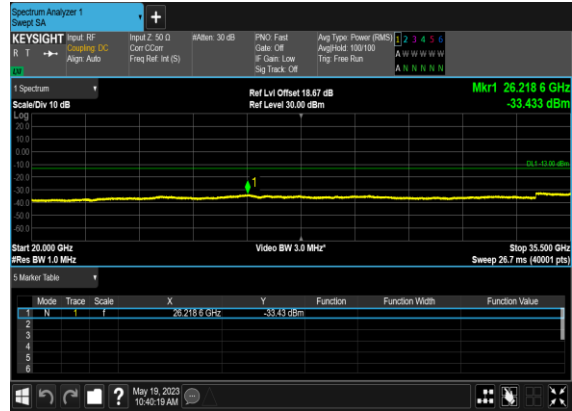
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



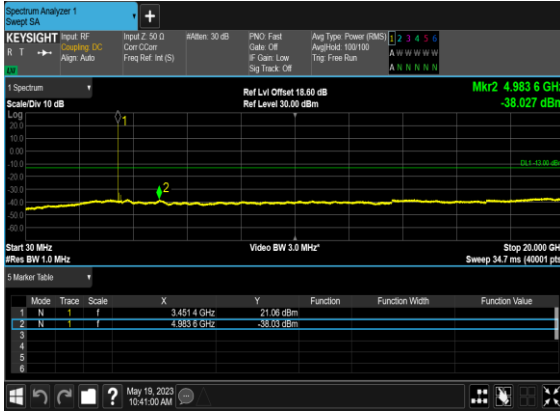
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



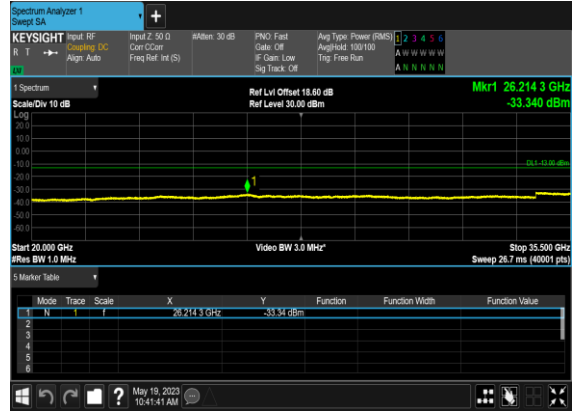
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



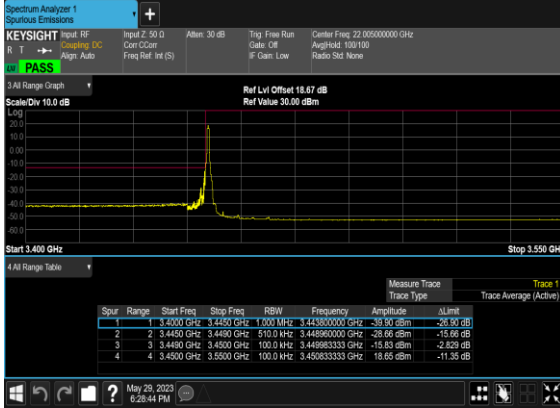
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



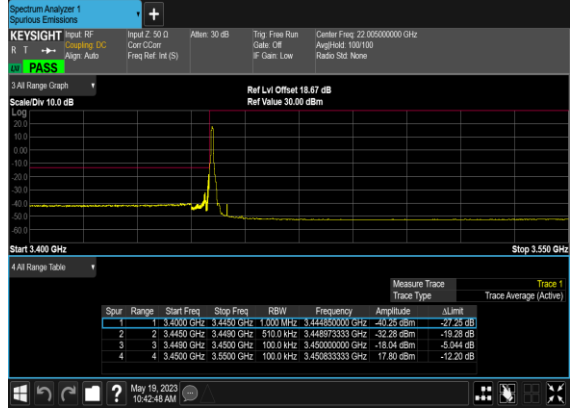
Conducted Band Edge

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

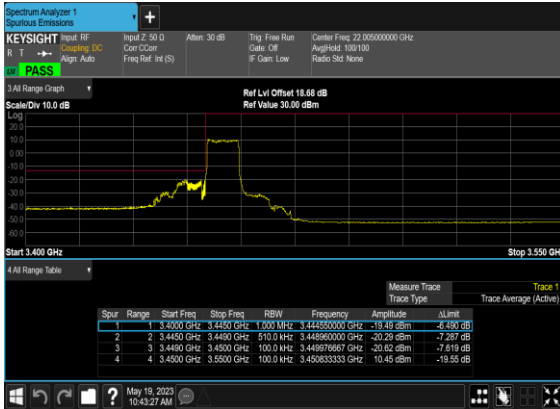
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



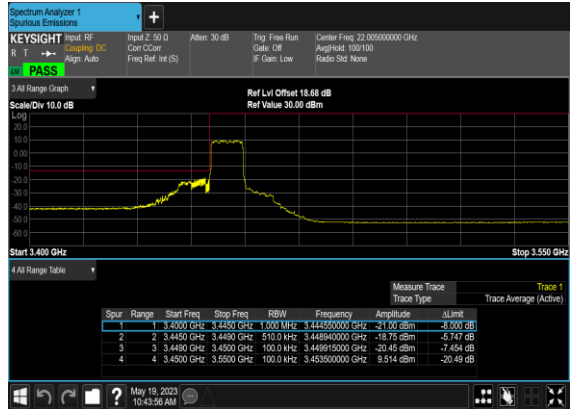
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



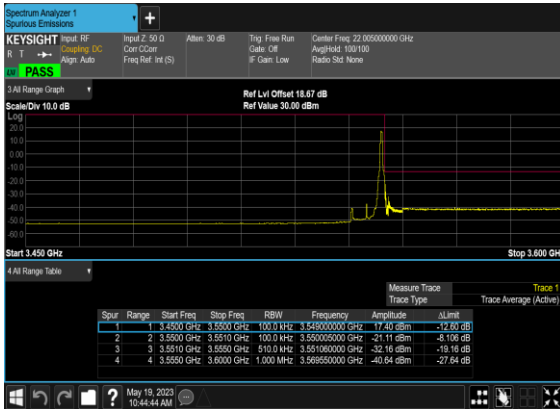
N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



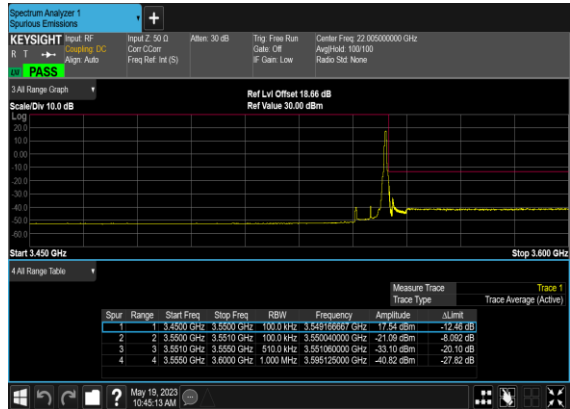
N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



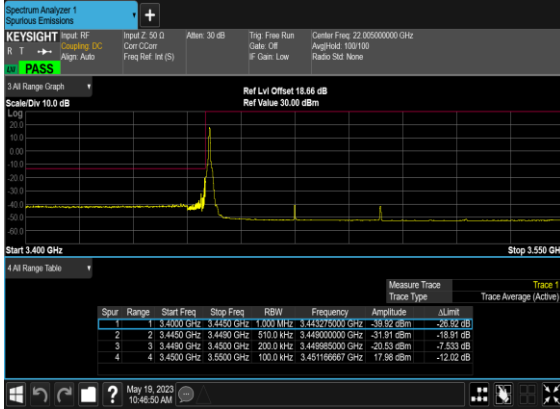
N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



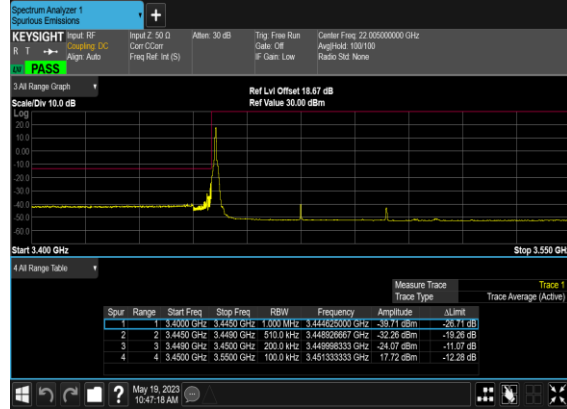
N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



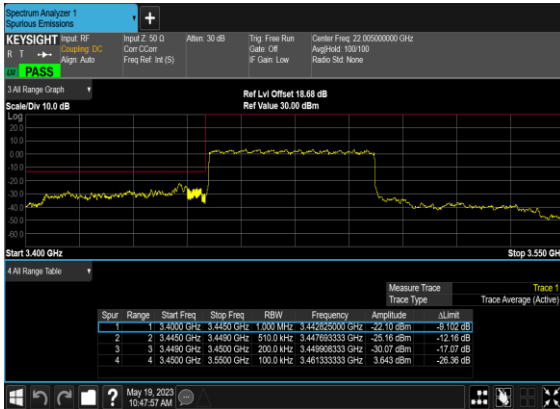
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



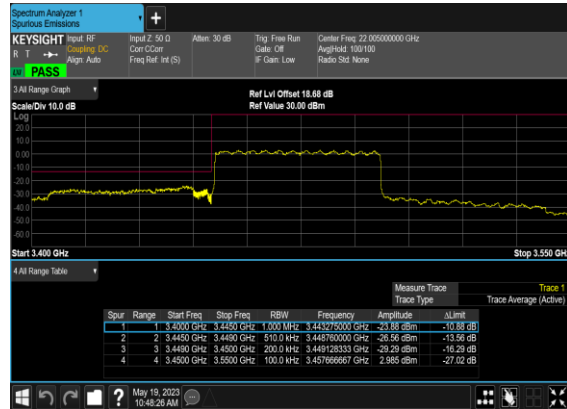
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



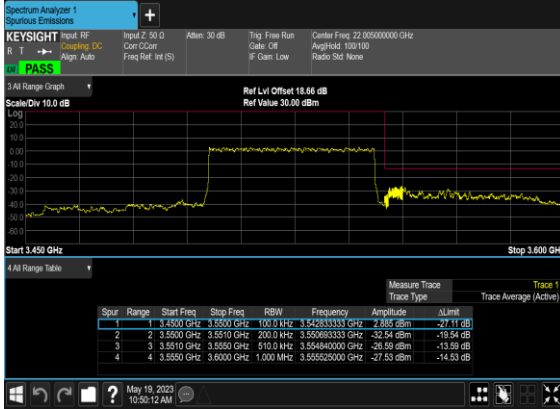
N77(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_High_CH



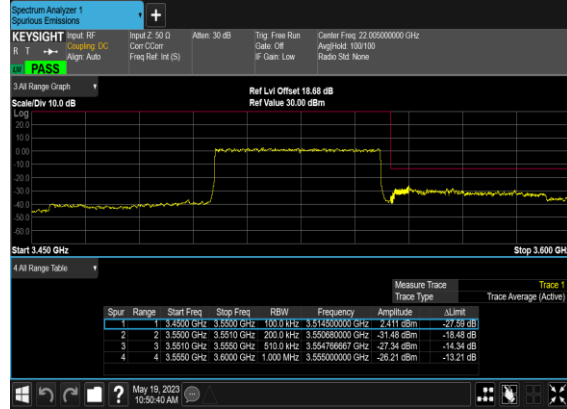
N77(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_High_CH



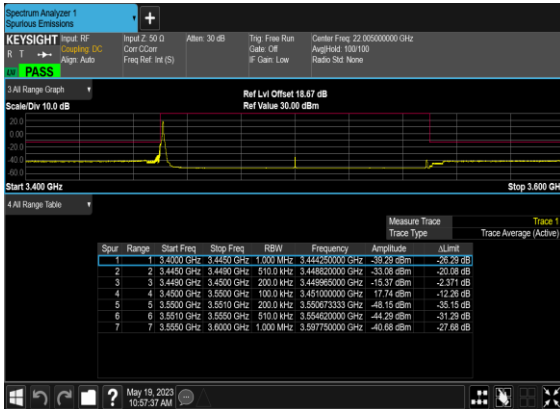
N77(50M)_DFT-s- OFDM_BPSK_Outer_Full_High_CH



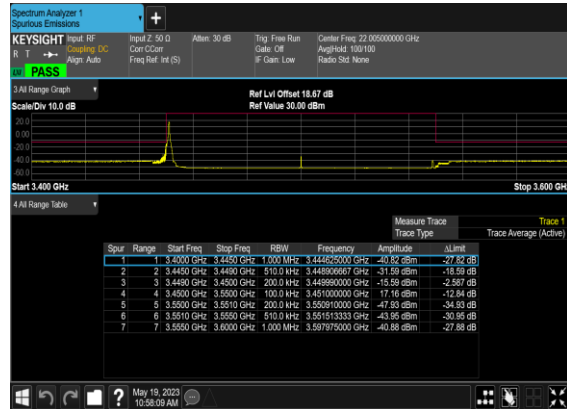
N77(50M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



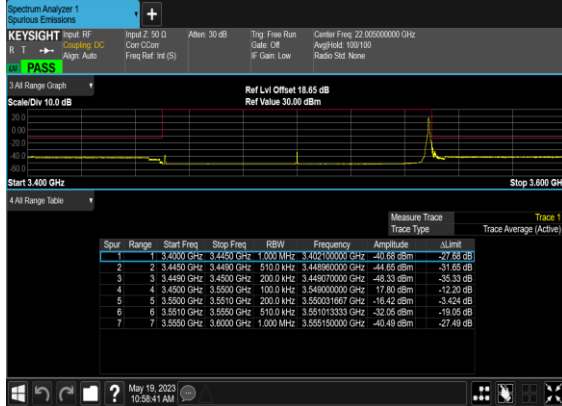
N77(100M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH



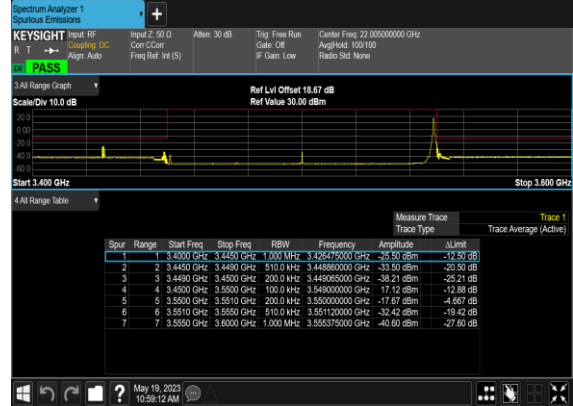
N77(100M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



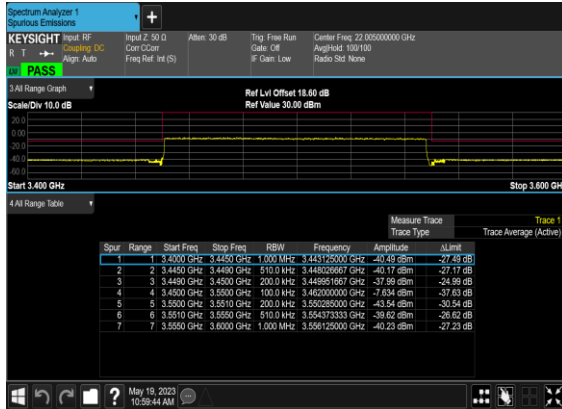
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



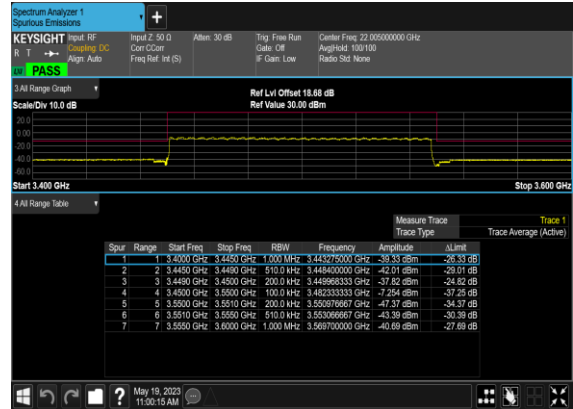
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



FR1 N78 MIMO ANT3+2

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-2.4dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT3 Power (dBm)	ANT2 Power (dBm)	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	CP-OFDM QPSK	1@1	19.9	19.82	22.87	20.47	0.1114
78	30	10	630334	3455.01	CP-OFDM 16 QAM	1@1	19.34	19.04	22.20	19.8	0.0955
78	30	10	633334	3500.01	CP-OFDM QPSK	1@1	19.54	20.17	22.88	20.48	0.1117
78	30	10	633334	3500.01	CP-OFDM 16 QAM	1@1	19.01	19.48	22.26	19.86	0.0968
78	30	10	636332	3544.98	CP-OFDM QPSK	1@1	19.51	19.9	22.72	20.32	0.1076
78	30	10	636332	3544.98	CP-OFDM 16 QAM	1@1	18.97	19.14	22.07	19.67	0.0927
78	30	15	630500	3457.5	CP-OFDM QPSK	1@1	20.07	19.95	23.02	20.62	0.1153
78	30	15	630500	3457.5	CP-OFDM 16 QAM	1@1	19.47	19.13	22.31	19.91	0.0979
78	30	15	633334	3500.01	CP-OFDM QPSK	1@1	19.62	20.27	22.97	20.57	0.1140
78	30	15	633334	3500.01	CP-OFDM 16 QAM	1@1	19.15	19.4	22.29	19.89	0.0975
78	30	15	636166	3542.49	CP-OFDM QPSK	1@1	19.49	20.03	22.78	20.38	0.1091
78	30	15	636166	3542.49	CP-OFDM 16 QAM	1@1	19.03	19.27	22.16	19.76	0.0946
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	20.05	19.93	23.00	20.6	0.1148
78	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	19.51	19.16	22.35	19.95	0.0989
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	19.69	20.26	22.99	20.59	0.1146
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	19.23	19.53	22.39	19.99	0.0998
78	30	20	636000	3540	CP-OFDM QPSK	1@1	19.58	20.17	22.90	20.5	0.1122
78	30	20	636000	3540	CP-OFDM 16 QAM	1@1	19.23	19.33	22.29	19.89	0.0975
78	30	30	631000	3465	CP-OFDM QPSK	1@1	20.14	20.03	23.10	20.7	0.1175
78	30	30	631000	3465	CP-OFDM 16 QAM	1@1	19.57	19.33	22.46	20.06	0.1014
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	19.83	20.27	23.07	20.67	0.1167
78	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	19.23	19.55	22.40	20	0.1000
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	19.69	20.3	23.02	20.62	0.1153
78	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	19.05	19.58	22.33	19.93	0.0984
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	20.07	20.11	23.10	20.7	0.1175
78	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	19.51	19.39	22.46	20.06	0.1014
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	19.85	20.27	23.08	20.68	0.1169
78	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	19.25	19.6	22.44	20.04	0.1009
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	19.6	20.46	23.06	20.66	0.1164
78	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	19.15	19.7	22.44	20.04	0.1009
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	19.94	19.82	22.89	20.49	0.1119
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	19.34	19.11	22.24	19.84	0.0964
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	19.77	20.06	22.93	20.53	0.1130
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	19.12	19.29	22.22	19.82	0.0959
78	30	50	635000	3525	CP-OFDM QPSK	1@1	19.6	20.18	22.91	20.51	0.1125
78	30	50	635000	3525	CP-OFDM 16 QAM	1@1	18.97	19.34	22.17	19.77	0.0948
78	30	60	632000	3480	CP-OFDM QPSK	1@1	19.96	19.91	22.95	20.55	0.1135
78	30	60	632000	3480	CP-OFDM 16 QAM	1@1	19.43	19.2	22.33	19.93	0.0984
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	19.72	19.99	22.87	20.47	0.1114

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT3 Power (dBm)	ANT2 Power (dBm)	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	19.16	19.24	22.21	19.81	0.0957
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	19.59	20.17	22.90	20.5	0.1122
78	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	19.6	20.15	22.89	20.49	0.1119
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	19.93	19.91	22.93	20.53	0.1130
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	19.34	19.21	22.29	19.89	0.0975
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	19.78	19.98	22.89	20.49	0.1119
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	19.36	19.24	22.31	19.91	0.0979
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	19.72	20.04	22.89	20.49	0.1119
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	19.05	19.29	22.18	19.78	0.0951
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	19.87	19.92	22.91	20.51	0.1125
78	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	19.47	19.18	22.34	19.94	0.0986
78	30	80	633334	3490.02	CP-OFDM QPSK	1@1	19.5	19.11	22.32	19.92	0.0982
78	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	19.29	19.18	22.25	19.85	0.0966
78	30	80	634000	3510	CP-OFDM QPSK	1@1	19.76	19.98	22.88	20.48	0.1117
78	30	80	634000	3510	CP-OFDM 16 QAM	1@1	19.67	19.86	22.78	20.38	0.1091
78	30	90	633000	3495	CP-OFDM QPSK	1@1	19.77	19.74	22.77	20.37	0.1089
78	30	90	633000	3495	CP-OFDM 16 QAM	1@1	19.22	19.03	22.14	19.74	0.0942
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	19.79	19.83	22.82	20.42	0.1102
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	19.14	19.03	22.10	19.7	0.0933
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	19.77	19.86	22.83	20.43	0.1104
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	19.23	19.19	22.22	19.82	0.0959
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	19.43	19.87	22.67	20.27	0.1064
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	19.87	20.3	23.10	20.7	0.1175
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	19.13	19.43	22.29	19.89	0.0975
78	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	18.88	19.41	22.16	19.76	0.0946
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	19.29	19.17	22.24	19.84	0.0964
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	18.51	18.6	21.57	19.17	0.0826
78	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	17.53	17.94	20.75	18.35	0.0684
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	17.94	17.79	20.88	18.48	0.0705
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	17.22	17.27	20.26	17.86	0.0611
78	30	100	633334	3500.01	CP-OFDM 256 QAM	137@68	14.43	14.94	17.70	15.3	0.0339
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	14.89	15	17.96	15.56	0.0360
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	14.14	14.47	17.32	14.92	0.0310



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

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

n77 SA / NR 100MHz / QPSK(ANT1)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-55.18	-13	-42.18	-65.39	3.03	13.24	H
	10368	-62.07	-13	-49.07	-71.52	3.56	13.01	H
	13818	-59.95	-13	-46.95	-69.47	3.92	13.44	H
	6900	-57.33	-13	-44.33	-67.54	3.03	13.24	V
	10368	-62.19	-13	-49.19	-71.64	3.56	13.01	V
	13818	-59.99	-13	-46.99	-69.51	3.92	13.44	V

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

EN-DC_14A_n77A / LTE 10MHz + NR 100MHz / QPSK(ANT0+2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6912	-63.49	-13	-50.49	-73.70	3.03	13.24	H
	10368	-61.45	-13	-48.45	-70.90	3.56	13.01	H
	13824	-60.00	-13	-47.00	-69.52	3.92	13.44	H
	6912	-63.29	-13	-50.29	-73.50	3.03	13.24	V
	10368	-61.96	-13	-48.96	-71.41	3.56	13.01	V
	13824	-60.24	-13	-47.24	-69.76	3.92	13.44	V

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

n77 UL MIMO / NR 100+100MHz / QPSK(ANT3+2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-56.53	-13	-43.53	-66.74	3.03	13.24	H
	10356	-43.53	-13	-30.53	-52.98	3.56	13.01	H
	13824	-60.23	-13	-47.23	-69.75	3.92	13.44	H
	6900	-57.73	-13	-44.73	-67.94	3.03	13.24	V
	10356	-44.68	-13	-31.68	-54.13	3.56	13.01	V
	13824	-59.80	-13	-46.80	-69.32	3.92	13.44	V

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



For Other PA:

EN-DC_30A_n77A / LTE 10MHz + NR 100MHz / QPSK(0+2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6912	-63.55	-13	-50.55	-73.76	3.03	13.24	H
	10368	-61.69	-13	-48.69	-71.14	3.56	13.01	H
	13824	-59.90	-13	-46.90	-69.42	3.92	13.44	H
	6912	-63.34	-13	-50.34	-73.55	3.03	13.24	V
	10368	-61.89	-13	-48.89	-71.34	3.56	13.01	V
	13824	-60.63	-13	-47.63	-70.15	3.92	13.44	V

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