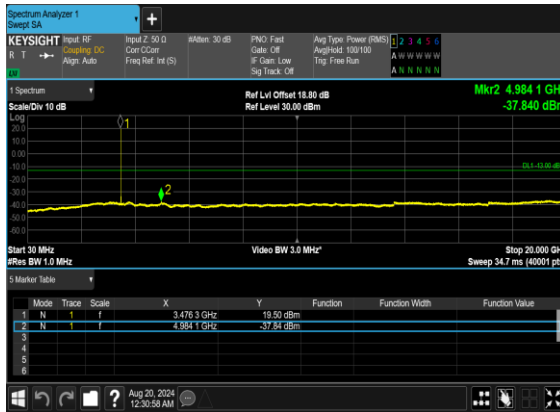
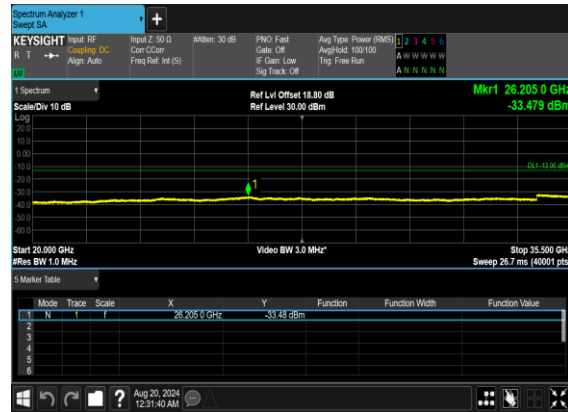




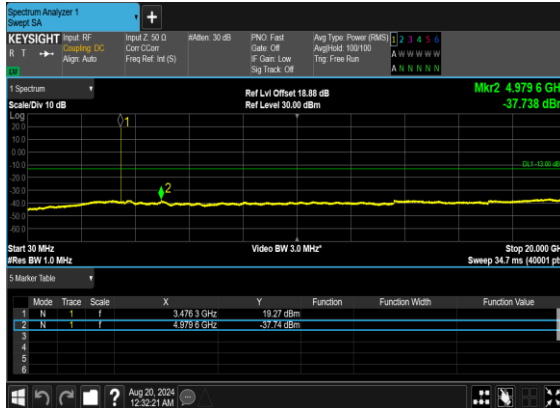
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



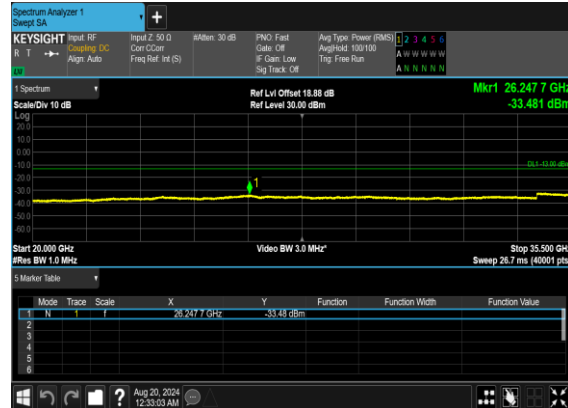
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

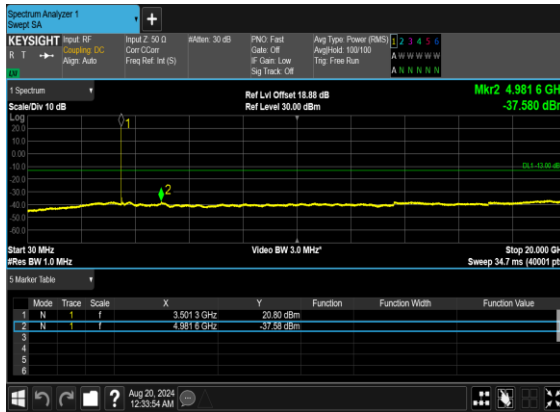


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

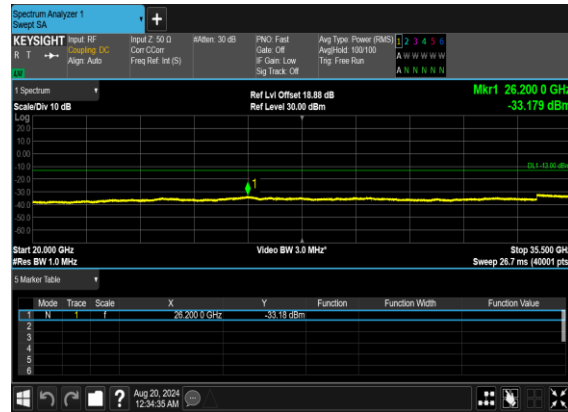




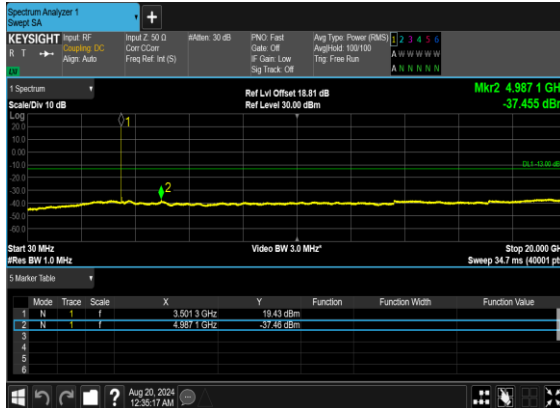
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



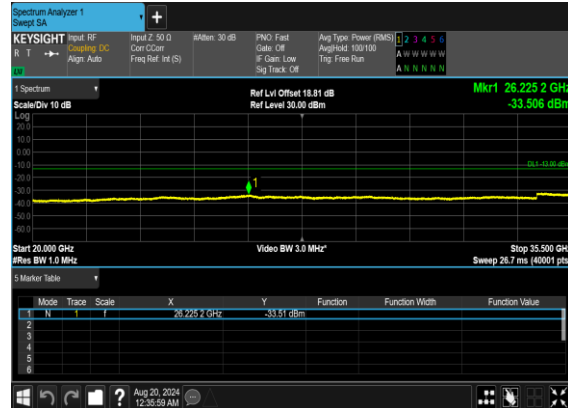
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

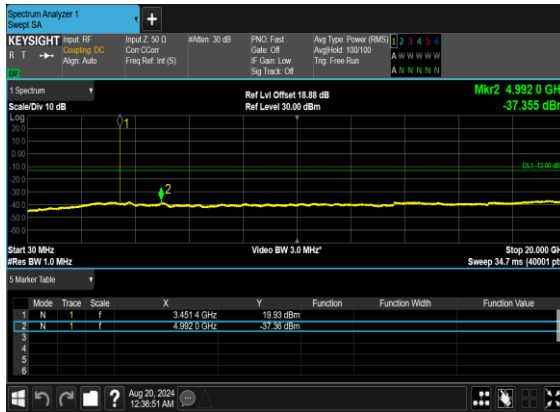


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

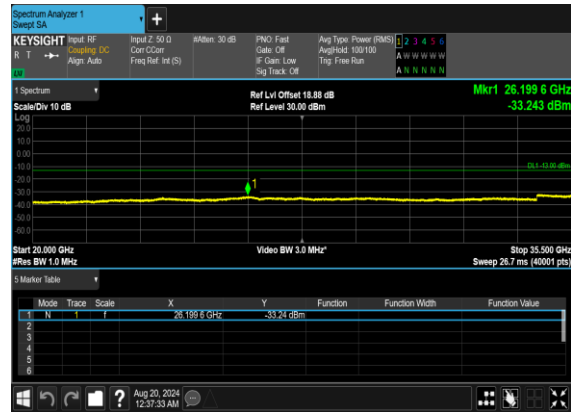




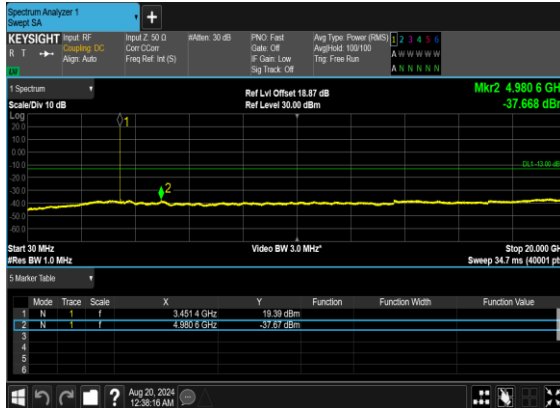
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



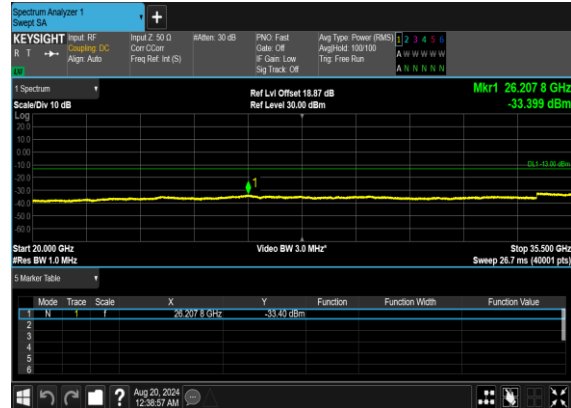
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

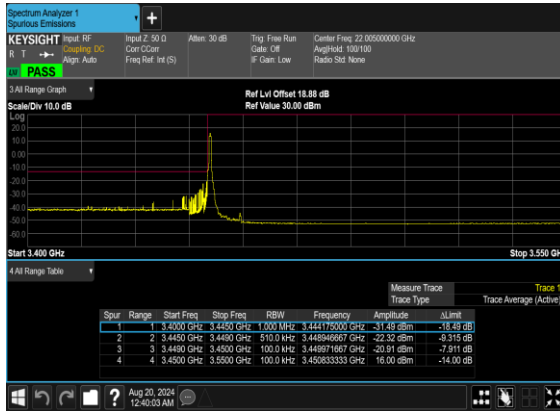


**Conducted Band Edge**

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



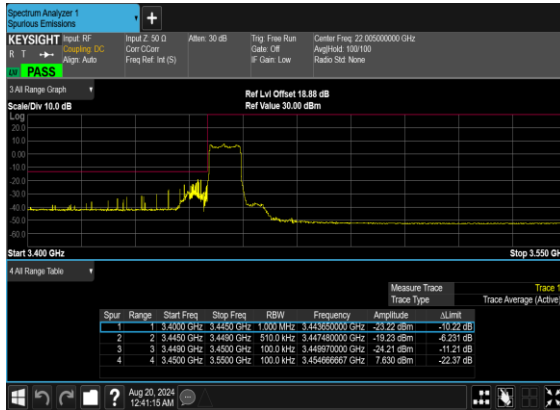
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



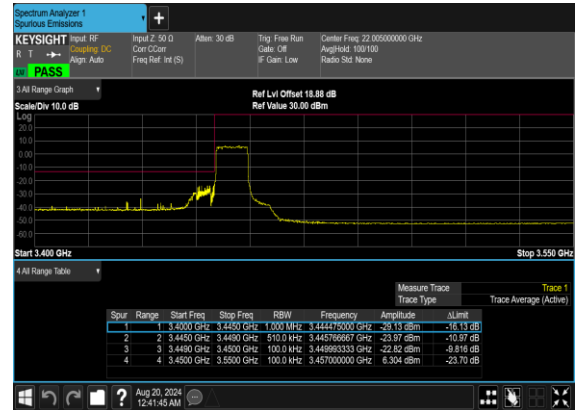
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





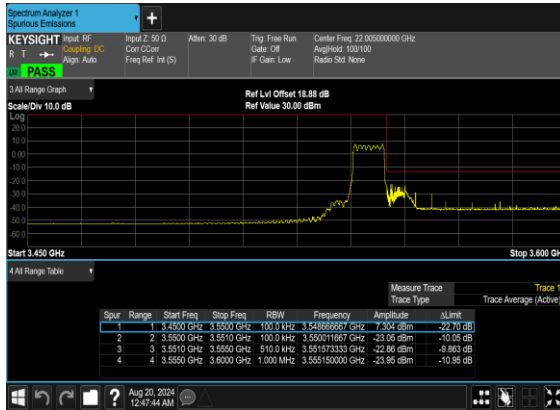
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



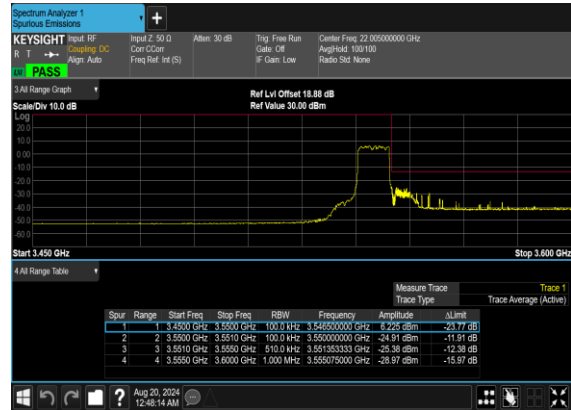
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

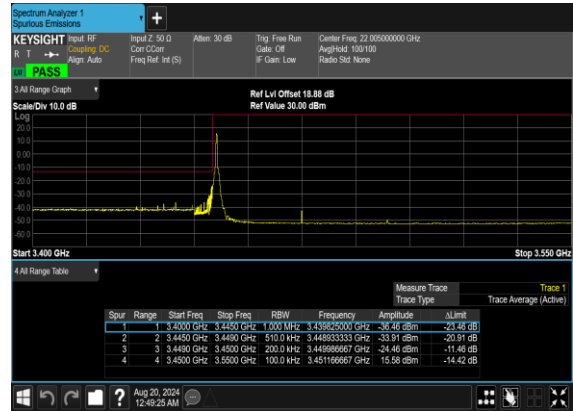




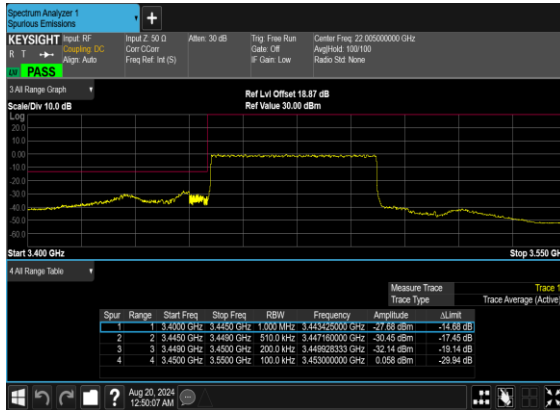
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



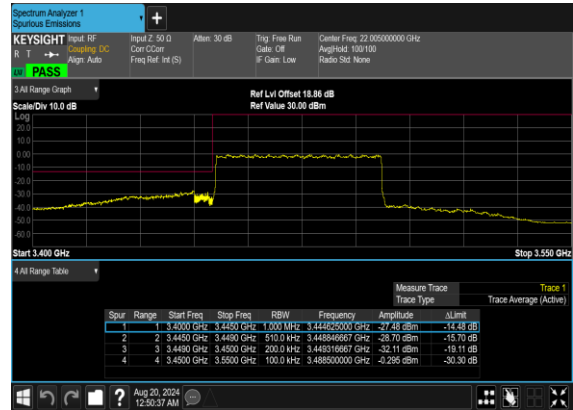
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





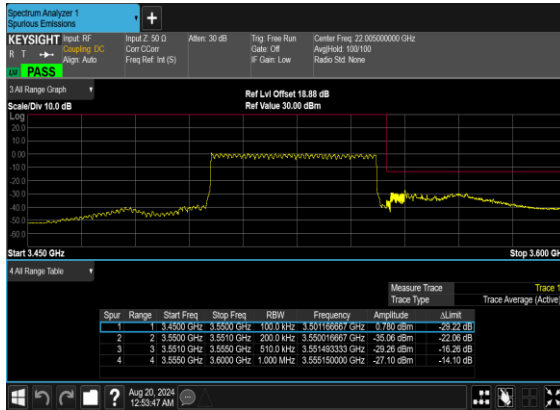
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

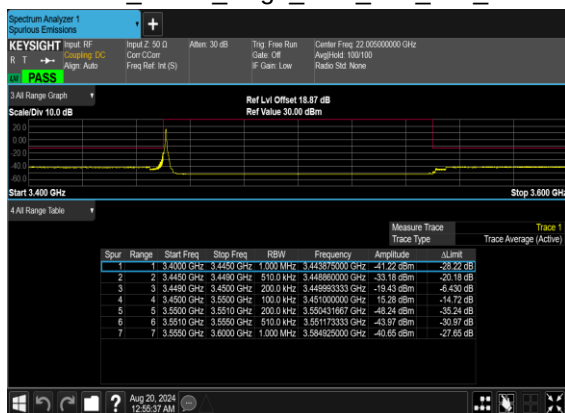


N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

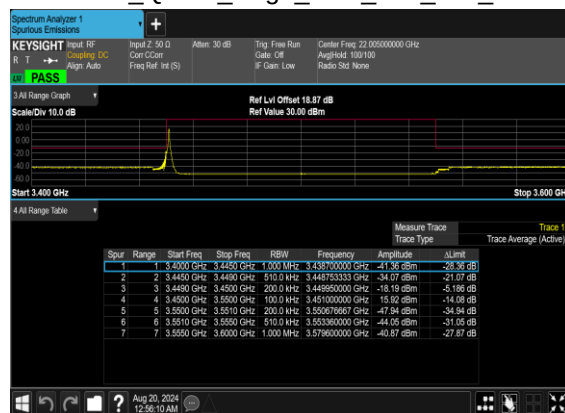




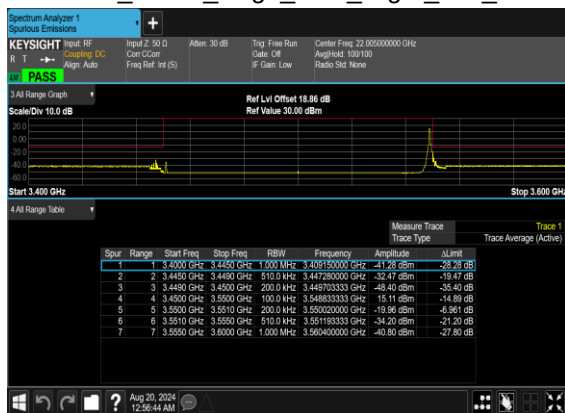
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



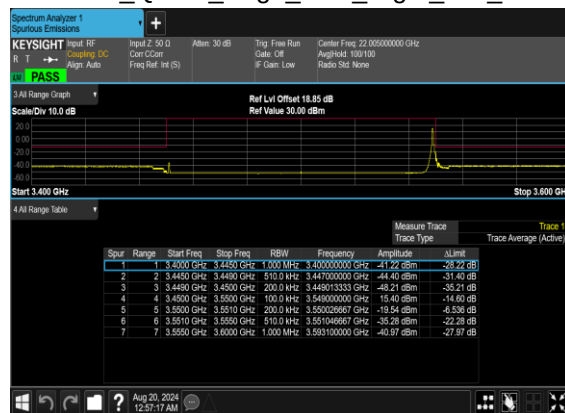
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH

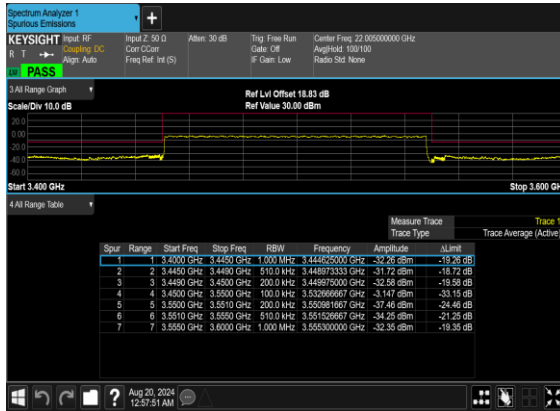


N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

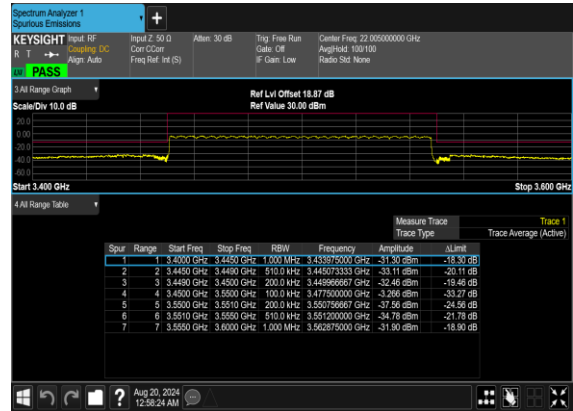




N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH





Software Version: 23.06.1602

FR1 N78 MIMO-Ant 0+Ant 1**Transmitter Conducted Output Power And EIRP, (G_T-L_C)=2.56dB**

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	ANT1 Power(dBm)	ANT0 Power(dBm)	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	22.77	23.61	26.22	28.78	0.7551
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	22.12	22.95	25.57	28.13	0.6501
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.66	23.51	26.12	28.68	0.7379
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22	22.87	25.47	28.03	0.6353
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	22.75	23.54	26.17	28.73	0.7464
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	22.07	22.85	25.49	28.05	0.6383
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	22.74	23.61	26.21	28.77	0.7534
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	22.12	22.95	25.57	28.13	0.6501
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.62	23.63	26.16	28.72	0.7447
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.96	22.83	25.43	27.99	0.6295
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	22.6	23.39	26.02	28.58	0.7211
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	21.9	22.8	25.38	27.94	0.6223
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	22.83	23.72	26.31	28.87	0.7709
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	22.14	23.04	25.62	28.18	0.6577
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.67	23.63	26.19	28.75	0.7499
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.96	22.87	25.45	28.01	0.6324
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	22.72	23.36	26.06	28.62	0.7278
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	21.96	22.74	25.38	27.94	0.6223
78	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	22.97	23.81	26.42	28.98	0.7907
78	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	22.3	23.21	25.79	28.35	0.6839
78	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.8	23.69	26.28	28.84	0.7656
78	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.16	23	25.61	28.17	0.6561
78	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	22.59	23.65	26.16	28.72	0.7447
78	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	21.89	22.96	25.47	28.03	0.6353
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	22.82	23.73	26.31	28.87	0.7709
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	22.21	23.07	25.67	28.23	0.6653
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.82	23.71	26.30	28.86	0.7691
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.18	23.01	25.63	28.19	0.6592
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	22.64	23.72	26.22	28.78	0.7551
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	21.87	23.05	25.51	28.07	0.6412
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	22.85	23.75	26.33	28.89	0.7745
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	22.17	23.09	25.66	28.22	0.6637
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.71	23.63	26.20	28.76	0.7516
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.05	23.01	25.57	28.13	0.6501
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	22.52	23.69	26.15	28.71	0.7430
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	21.86	22.97	25.46	28.02	0.6339
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	22.91	23.81	26.39	28.95	0.7852
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	22.34	23.14	25.77	28.33	0.6808
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.83	23.74	26.32	28.88	0.7727
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.17	23.16	25.70	28.26	0.6699



78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	22.71	23.7	26.24	28.8	0.7586
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	22.06	23.01	25.57	28.13	0.6501
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	22.78	23.68	26.26	28.82	0.7621
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	22.11	23.09	25.64	28.2	0.6607
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.61	23.56	26.12	28.68	0.7379
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.94	22.95	25.48	28.04	0.6368
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	22.66	23.63	26.18	28.74	0.7482
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	22.06	22.86	25.49	28.05	0.6383
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	22.8	23.61	26.23	28.79	0.7568
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	22.14	23.05	25.63	28.19	0.6592
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.61	23.61	26.15	28.71	0.7430
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.03	23.08	25.60	28.16	0.6546
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	22.62	23.6	26.15	28.71	0.7430
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	22.08	23.07	25.61	28.17	0.6561
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	22.99	23.81	26.43	28.99	0.7925
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	22.24	23.15	25.73	28.29	0.6745
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.86	23.81	26.37	28.93	0.7816
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.19	23.19	25.73	28.29	0.6745
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	22.77	23.75	26.30	28.86	0.7691
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.14	23.04	25.62	28.18	0.6577
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	22.96	23.79	26.41	28.97	0.7889
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	22.3	23.16	25.76	28.32	0.6792
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.93	23.81	26.40	28.96	0.7870
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.21	23.18	25.73	28.29	0.6745
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	22.9	23.84	26.41	28.97	0.7889
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	22.25	23.25	25.79	28.35	0.6839
V	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	22.52	23.52	26.06	28.62	0.7278
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.97	23.84	26.44	29	0.7943
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	22.88	23.58	26.25	28.81	0.7603
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	22.53	23.45	26.02	28.58	0.7211
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.94	23.8	26.40	28.96	0.7870
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	22.82	23.57	26.22	28.78	0.7551
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	21.98	22.99	25.52	28.08	0.6427
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.29	23.19	25.77	28.33	0.6808
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	22.3	23.02	25.69	28.25	0.6683
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	20.11	21.1	23.64	26.2	0.4169
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.22	21.15	23.72	26.28	0.4246
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	20.13	20.94	23.56	26.12	0.4093
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	17.13	18.13	20.67	23.23	0.2104
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	17.37	18.25	20.84	23.4	0.2188
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	17.4	18.12	20.79	23.35	0.2163
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	19.01	19.92	22.50	25.06	0.3206
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.86	22.93	25.44	28	0.6310
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.8	22.63	25.25	27.81	0.6039



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	HuaCong Liang	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(ANT1)									
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	6904.00	-45.86	-13	-32.86	-50.12	-49.16	8.30	11.60	H
	10356.00	-57.12	-13	-44.12	-68.88	-58.64	10.48	12.00	H
	13808.00	-54.12	-13	-41.12	-69.43	-55.82	11.80	13.50	H
	6904.00	-45.98	-13	-32.98	-50.72	-49.28	8.30	11.60	V
	10356.00	-58.24	-13	-45.24	-69.13	-59.76	10.48	12.00	V
	13808.00	-48.59	-13	-35.59	-63.24	-50.29	11.80	13.50	V

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

EN-DC_30A_n77A / LTE 10MHz + NR 100MHz / QPSK (ANT0+1)									
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 n77 Middle	6904.00	-49.02	-13	-36.02	-53.28	-52.32	8.30	11.60	H
	10356.00	-55.18	-13	-42.18	-66.94	-56.70	10.48	12.00	H
	13808.00	-51.31	-13	-38.31	-66.62	-53.01	11.80	13.50	H
	6904.00	-45.63	-13	-32.63	-50.37	-48.93	8.30	11.60	V
	10356.00	-55.80	-13	-42.80	-66.69	-57.32	10.48	12.00	V
	13808.00	-45.48	-13	-32.48	-60.13	-47.18	11.80	13.50	V
LTE Band30 Middle	4611.00	-62.78	-40	-22.78	-62.14	-69.03	6.45	12.70	H
	6916.50	-60.24	-40	-20.24	-64.63	-63.64	8.40	11.80	H
	9222.00	-55.90	-40	-15.90	-67.51	-58.25	9.65	12.00	H
	4611.00	-62.09	-40	-22.09	-61.83	-68.34	6.45	12.70	V
	6916.50	-59.54	-40	-19.54	-64.41	-62.94	8.40	11.80	V
	9222.00	-56.49	-40	-16.49	-67.28	-58.84	9.65	12.00	V

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



n77 UL MIMO / NR 100+100MHz / QPSK(ANT1+0)									
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	6904.00	-47.46	-13	-34.46	-51.72	-50.76	8.30	11.60	H
	10356.00	-52.85	-13	-39.85	-64.61	-54.37	10.48	12.00	H
	13808.00	-39.67	-13	-26.67	-54.98	-41.37	11.80	13.50	H
	6904.00	-44.35	-13	-31.35	-49.09	-47.65	8.30	11.60	V
	10356.00	-50.93	-13	-37.93	-61.82	-52.45	10.48	12.00	V
	13808.00	-34.01	-13	-21.01	-48.66	-35.71	11.80	13.50	V

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