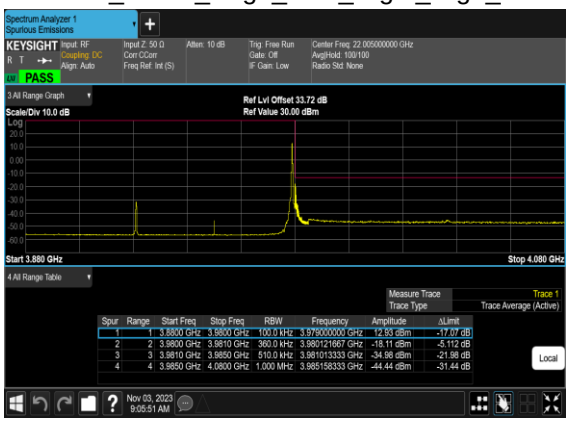
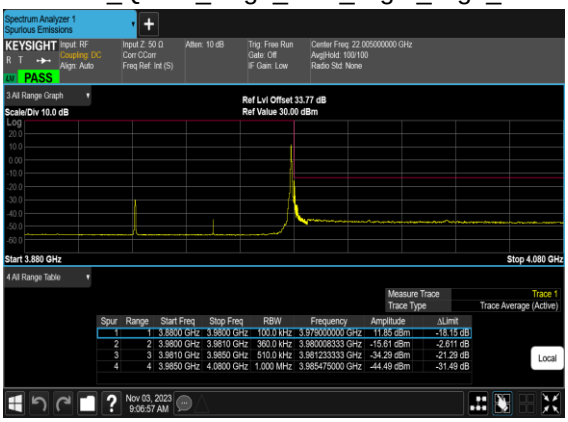
N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

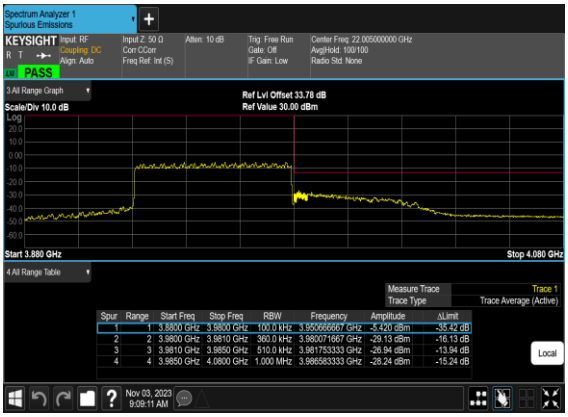


N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

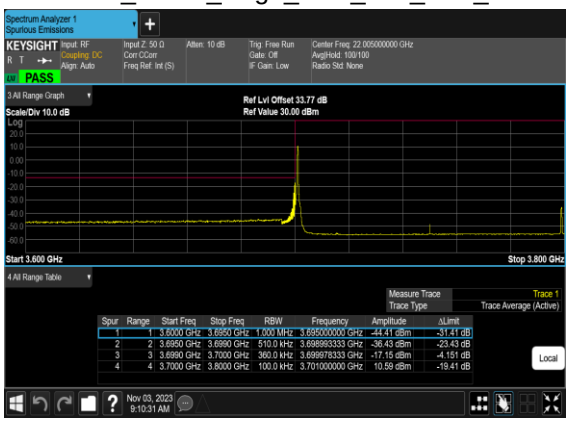


N77(60M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

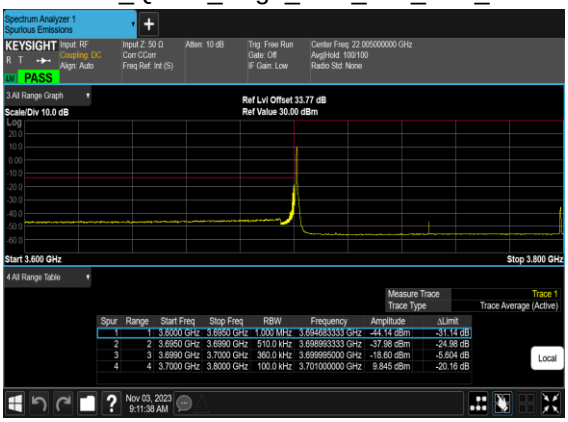
N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



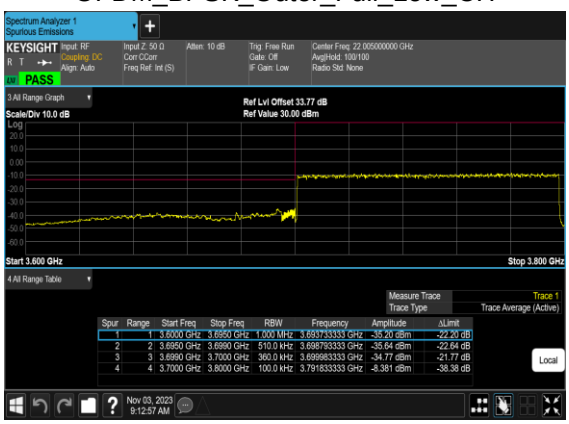
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



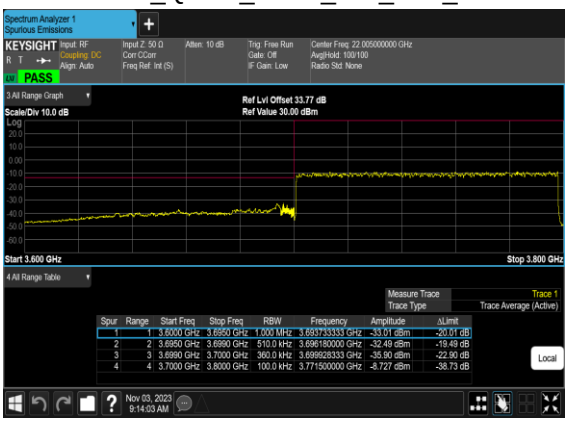
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



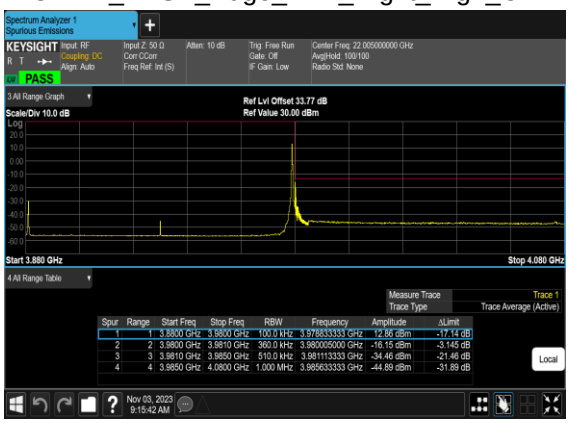
N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



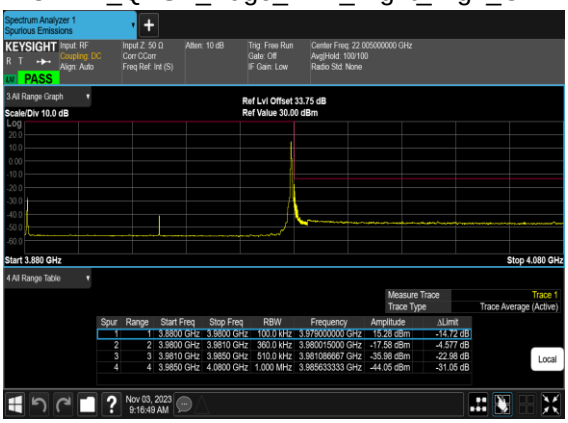
N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

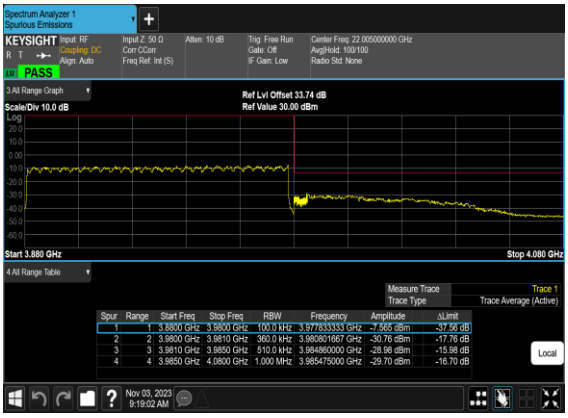


N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Software Version: 23.06.1602

FR1 N78 (ANT5)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-0.8dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.51	24.71	0.2958
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.34	24.54	0.2844
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	23.65	22.85	0.1928
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.49	24.69	0.2944
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.45	24.65	0.2917
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.87	23.07	0.2028
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	25.57	24.77	0.2999
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.6	24.8	0.3020
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	23.9	23.1	0.2042
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	25.47	24.67	0.2931
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.33	24.53	0.2838
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	23.58	22.78	0.1897
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.61	24.81	0.3027
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	25.45	24.65	0.2917
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.85	23.05	0.2018
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@1	25.38	24.58	0.2871
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	25.2	24.4	0.2754
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	23.5	22.7	0.1862
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	25.59	24.79	0.3013
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.43	24.63	0.2904
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	23.72	22.92	0.1959
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.33	24.53	0.2838
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	25.38	24.58	0.2871
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.86	23.06	0.2023
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	24.69	23.89	0.2449
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	24.51	23.71	0.2350
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	22.83	22.03	0.1596
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.07	24.27	0.2673
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.13	24.33	0.2710
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	23.24	22.44	0.1754
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.38	24.58	0.2871

78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	25.59	24.79	0.3013
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.81	23.01	0.2000
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	24.19	23.39	0.2183
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	24.13	23.33	0.2153
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	22.42	21.62	0.1452
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	25.03	24.23	0.2649
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	24.98	24.18	0.2618
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	23.29	22.49	0.1774
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.38	24.58	0.2871
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	25.46	24.66	0.2924
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.68	22.88	0.1941
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@1	25.32	24.52	0.2831
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	25.13	24.33	0.2710
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	23.42	22.62	0.1828
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	24.98	24.18	0.2618
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.07	24.27	0.2673
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	23.1	22.3	0.1698
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.34	24.54	0.2844
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	25.53	24.73	0.2972
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.59	22.79	0.1901
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@1	25.4	24.6	0.2884
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	25.47	24.67	0.2931
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	24.5	23.7	0.2344
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	24.79	23.99	0.2506
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	24.85	24.05	0.2541
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	22.85	22.05	0.1603
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.31	24.51	0.2825
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	25.39	24.59	0.2877
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.51	22.71	0.1866
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@1	25.3	24.5	0.2818
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	25.39	24.59	0.2877
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	23.45	22.65	0.1841
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	25.16	24.36	0.2729
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.27	24.47	0.2799
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	24.28	23.48	0.2228
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.31	24.51	0.2825
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	25.39	24.59	0.2877
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.34	22.54	0.1795

78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@1	25.29	24.49	0.2812
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	25.36	24.56	0.2858
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	23.39	22.59	0.1816
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	24.89	24.09	0.2564
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.78	23.98	0.2500
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.59	24.79	0.3013
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	24.93	24.13	0.2588
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	24.88	24.08	0.2559
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.64	24.84	0.3048
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.9	24.1	0.2570
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.89	24.09	0.2564
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	24.73	23.93	0.2472
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.35	22.55	0.1799
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.13	22.33	0.1710
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.97	23.17	0.2075
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.38	20.58	0.1143
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.15	20.35	0.1084
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	21.94	21.14	0.1300
78	30	100	650000	3750	CP-OFDM QPSK	137@68	24.3	23.5	0.2239
78	30	100	650000	3750	CP-OFDM QPSK	1@1	24.33	23.53	0.2254
78	30	100	650000	3750	CP-OFDM QPSK	1@271	25.12	24.32	0.2704

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jack zhou	Temperature :	23~25℃
		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 (ANT5)								
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)
Lowest	7404	-46.22	-13	-33.22	-56.43	3.03	13.24	H
	11100	-37.48	-13	-24.48	-46.93	3.56	13.01	H
	14808	-41.32	-13	-28.32	-50.84	3.92	13.44	H
	7404	-51.17	-13	-38.17	-61.38	3.03	13.24	V
	11100	-36.69	-13	-23.69	-46.14	3.56	13.01	V
	14808	-38.60	-13	-25.60	-48.12	3.92	13.44	V
Middle	7584	-51.52	-13	-38.52	-61.73	3.03	13.24	H
	11376	-36.12	-13	-23.12	-45.57	3.56	13.01	H
	15168	-42.74	-13	-29.74	-52.26	3.92	13.44	H
	7584	-55.45	-13	-42.45	-65.66	3.03	13.24	V
	11376	-39.22	-13	-26.22	-48.67	3.56	13.01	V
	15168	-42.44	-13	-29.44	-51.96	3.92	13.44	V
Highest	7764	-53.56	-13	-40.56	-63.77	3.03	13.24	H
	11640	-43.84	-13	-30.84	-53.29	3.56	13.01	H
	15528	-42.94	-13	-29.94	-52.46	3.92	13.44	H
	7764	-52.95	-13	-39.95	-63.16	3.03	13.24	V
	11640	-38.71	-13	-25.71	-48.16	3.56	13.01	V
	15528	-42.50	-13	-29.50	-52.02	3.92	13.44	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+5)								
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)
Lowest	7404	-54.17	-13	-41.17	-64.38	3.03	13.24	H
	11100	-45.58	-13	-32.58	-55.03	3.56	13.01	H
	14808	-58.06	-13	-45.06	-67.58	3.92	13.44	H
	7404	-54.81	-13	-41.81	-65.02	3.03	13.24	V
	11100	-43.61	-13	-30.61	-53.06	3.56	13.01	V
	14808	-58.28	-13	-45.28	-67.80	3.92	13.44	V
Middle	7584	-56.98	-13	-43.98	-67.19	3.03	13.24	H
	11376	-42.67	-13	-29.67	-52.12	3.56	13.01	H
	15168	-49.17	-13	-36.17	-58.69	3.92	13.44	H
	7584	-56.38	-13	-43.38	-66.59	3.03	13.24	V
	11376	-46.36	-13	-33.36	-55.81	3.56	13.01	V
	15168	-54.46	-13	-41.46	-63.98	3.92	13.44	V
Highest	7764	-57.99	-13	-44.99	-68.20	3.03	13.24	H
	11640	-42.33	-13	-29.33	-51.78	3.56	13.01	H
	15528	-55.63	-13	-42.63	-65.15	3.92	13.44	H
	7764	-55.49	-13	-42.49	-65.70	3.03	13.24	V
	11640	-41.93	-13	-28.93	-51.38	3.56	13.01	V
	15528	-51.80	-13	-38.80	-61.32	3.92	13.44	V

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