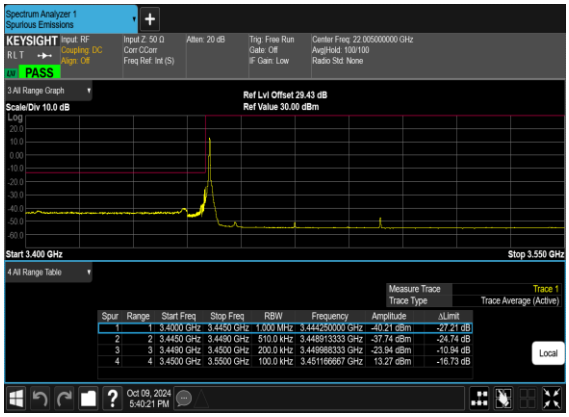
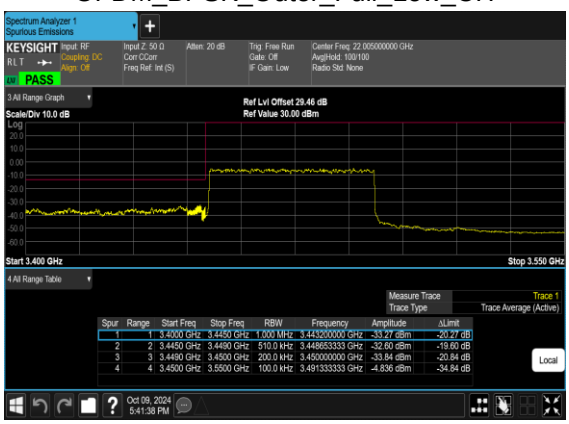
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

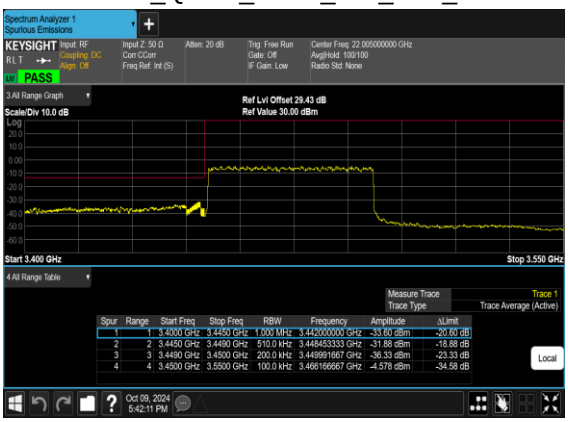


N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

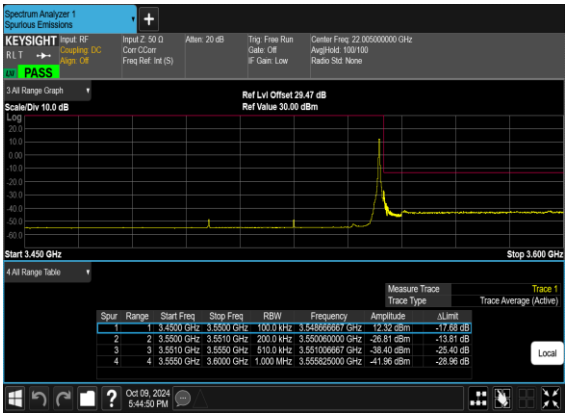


N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

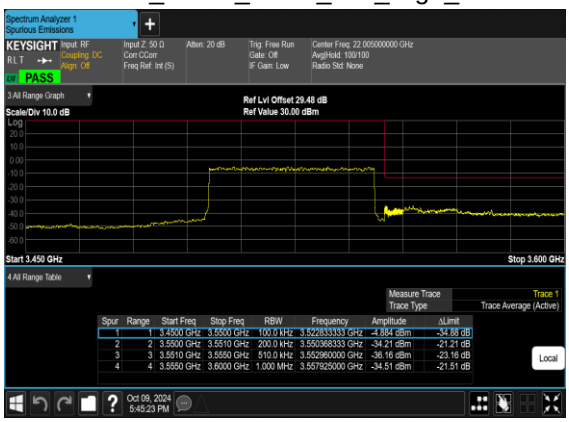


N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

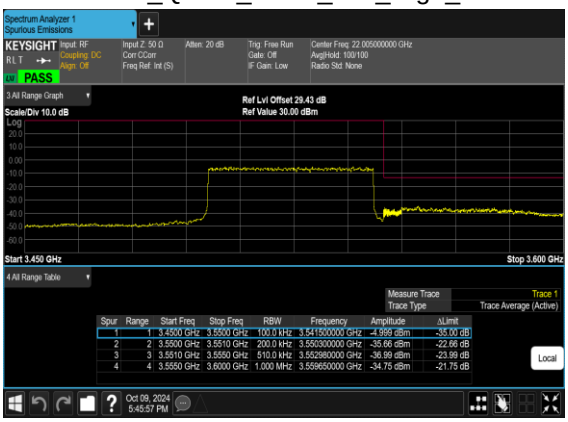
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

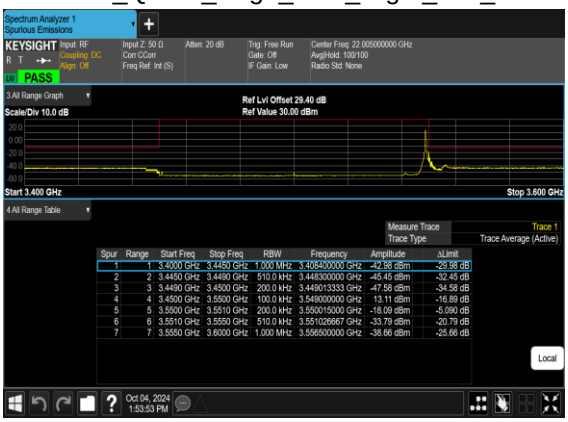


N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

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(ANT6)

Transmitter Conducted Output Power And EIRP, (GT - LC)=-2.5dBi

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP(W)
78	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	27.62	25.12	0.3251
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	27.57	25.07	0.3214
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	26.57	24.07	0.2553
78	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.51	25.01	0.3170
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.51	25.01	0.3170
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.43	23.93	0.2472
78	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	27.36	24.86	0.3062
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	27.31	24.81	0.3027
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	26.27	23.77	0.2382
78	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	25.77	23.27	0.2123
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.62	23.12	0.4285
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.62	23.12	0.4285
78	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.65	23.15	0.4315
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.54	23.04	0.4207
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.38	22.88	0.4055
78	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	25.59	23.09	0.4256
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.42	22.92	0.4093
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	25.43	22.93	0.4102
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	27.69	25.19	0.3304
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	27.63	25.13	0.3258
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	26.59	24.09	0.2564
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.52	25.02	0.3177
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.44	24.94	0.3119
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.37	23.87	0.2438
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	27.42	24.92	0.3105
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	27.42	24.92	0.3105
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	26.43	23.93	0.2472
78	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	1@1	25.96	23.46	0.4634
78	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	25.85	23.35	0.4519
78	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	25.65	23.15	0.4315
78	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.74	23.24	0.4406
78	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.65	23.15	0.4315
78	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.57	23.07	0.4236
78	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	1@1	25.60	23.10	0.4266
78	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	25.51	23.01	0.4178
78	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	25.45	22.95	0.4121
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	27.73	25.23	0.3334
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	27.68	25.18	0.3296

78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	26.69	24.19	0.2624
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.66	25.16	0.3281
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.64	25.14	0.3266
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.64	24.14	0.2594
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	27.79	25.29	0.3381
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	27.64	25.14	0.3266
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	26.64	24.14	0.2594
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	27.73	25.23	0.3334
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	27.71	25.21	0.3319
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	26.61	24.11	0.2576
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.60	25.10	0.3236
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.65	25.15	0.3273
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.48	23.98	0.2500
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	27.49	24.99	0.3155
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	27.48	24.98	0.3148
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	26.39	23.89	0.2449
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	27.75	25.25	0.3350
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	27.59	25.09	0.3228
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	26.58	24.08	0.2559
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.78	25.28	0.3373
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.70	25.20	0.3311
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.63	24.13	0.2588
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	27.49	24.99	0.3155
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	27.48	24.98	0.3148
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	26.51	24.01	0.2518
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	27.68	25.18	0.3296
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	27.51	25.01	0.3170
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	26.76	24.26	0.2667
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.56	25.06	0.3206
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.57	25.07	0.3214
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.50	24.00	0.2512
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	27.46	24.96	0.3133
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	27.39	24.89	0.3083
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	26.45	23.95	0.2483
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	27.64	25.14	0.3266
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	27.67	25.17	0.3289
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	26.45	23.95	0.2483
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.72	25.22	0.3327
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.59	25.09	0.3228
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.57	24.07	0.2553
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	27.81	25.31	0.3396
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	27.74	25.24	0.3342
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	26.57	24.07	0.2553
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	27.77	25.27	0.3365
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	27.83	25.33	0.3412

78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	27.64	25.14	0.3266
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.76	25.26	0.3357
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.73	25.23	0.3334
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.60	24.10	0.2570
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	27.77	25.27	0.3365
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	27.70	25.20	0.3311
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	26.82	24.32	0.2704
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	27.78	25.28	0.3373
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	27.78	25.28	0.3373
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	26.82	24.32	0.2704
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.83	25.33	0.3412
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.72	25.22	0.3327
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.64	24.14	0.2594
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	27.87	25.37	0.3443
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	27.86	25.36	0.3436
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	26.57	24.07	0.2553
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	27.66	25.16	0.3281
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.81	25.31	0.3396
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	27.39	24.89	0.3083
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	27.54	25.04	0.3192
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.85	25.35	0.3428
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	27.42	24.92	0.3105
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	26.56	24.06	0.2547
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.67	24.17	0.2612
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	26.19	23.69	0.2339
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	24.97	22.47	0.1766
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	25.17	22.67	0.1849
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	24.74	22.24	0.1675
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	23.28	20.78	0.1197
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	23.34	20.84	0.1213
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	22.89	20.39	0.1094
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	26.00	23.50	0.2239
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	26.42	23.92	0.2466
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	25.85	23.35	0.2163

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Bruce	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(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	6910	-57.50	-13	-44.50	-67.71	3.03	13.24	H
	10365.27	-59.66	-13	-46.66	-69.11	3.56	13.01	H
	13820	-59.18	-13	-46.18	-68.70	3.92	13.44	H
	6910	-57.84	-13	-44.84	-68.05	3.03	13.24	V
	10365	-58.45	-13	-45.45	-67.90	3.56	13.01	V
	13820.36	-59.45	-13	-46.45	-68.97	3.92	13.44	V

n78 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	6912	-62.51	-13	-49.51	-72.72	3.03	13.24	H
	10365.27	-60.51	-13	-47.51	-69.96	3.56	13.01	H
	13820.36	-59.95	-13	-46.95	-69.47	3.92	13.44	H
	6912	-62.82	-13	-49.82	-73.03	3.03	13.24	V
	10365.27	-60.31	-13	-47.31	-69.76	3.56	13.01	V
	13820.36	-60.10	-13	-47.10	-69.62	3.92	13.44	V

EN-DC_41A_n78A / LTE 20MHz + NR 100MHz / QPSK(ANT3+1)								
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	6910	-55.60	-13	-42.60	-65.81	3.03	13.24	H
	10365	-50.50	-13	-37.50	-59.95	3.56	13.01	H
	13820.36	-59.72	-13	-46.72	-69.24	3.92	13.44	H
	6910.18	-61.87	-13	-48.87	-72.08	3.03	13.24	V
	10365	-49.08	-13	-36.08	-58.53	3.56	13.01	V
	13820	-59.38	-13	-46.38	-68.90	3.92	13.44	V

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