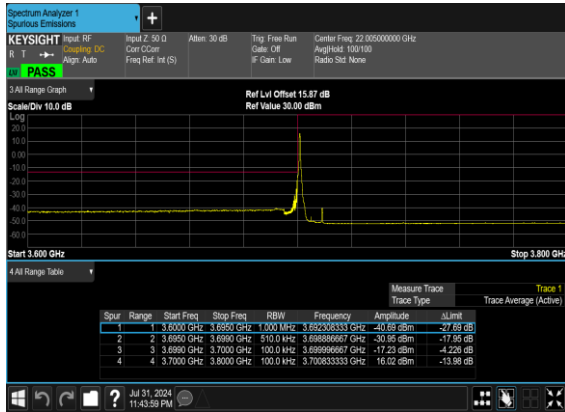
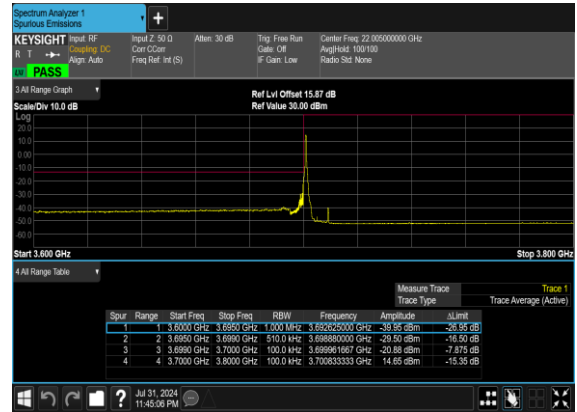




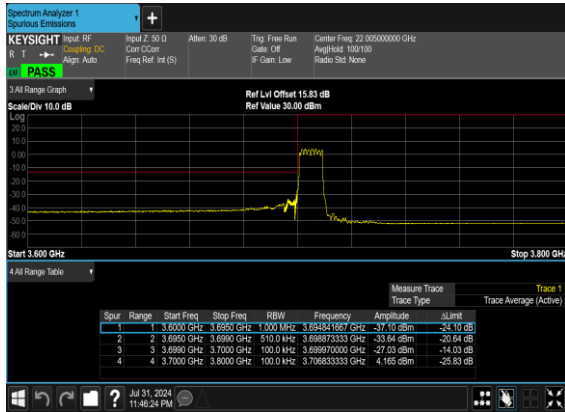
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



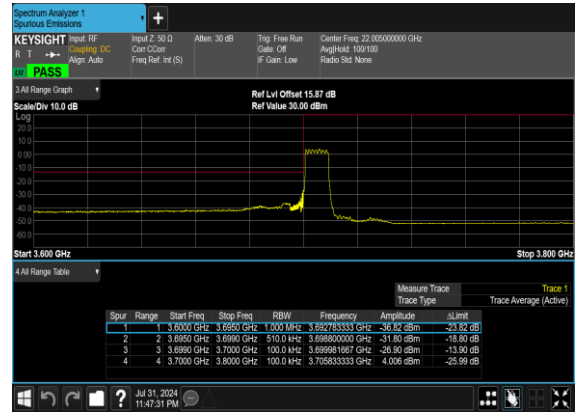
N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



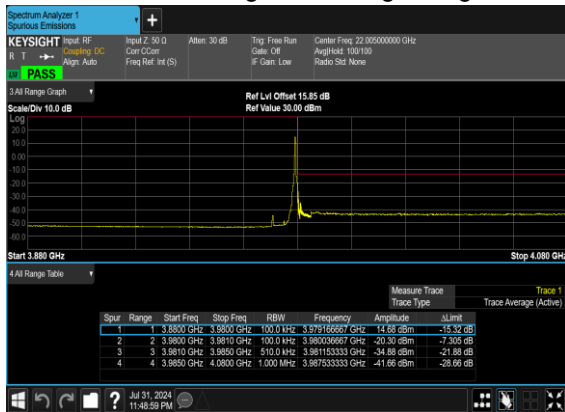
N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



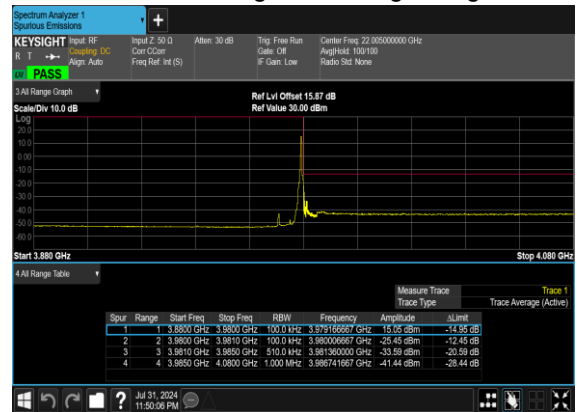
N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH

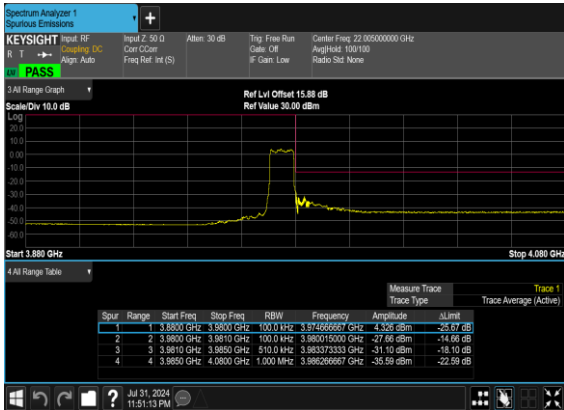


N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH

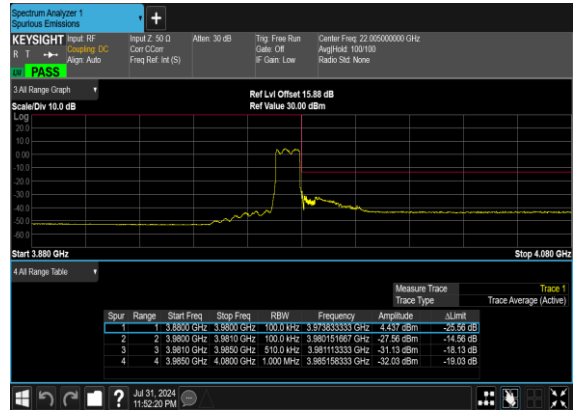




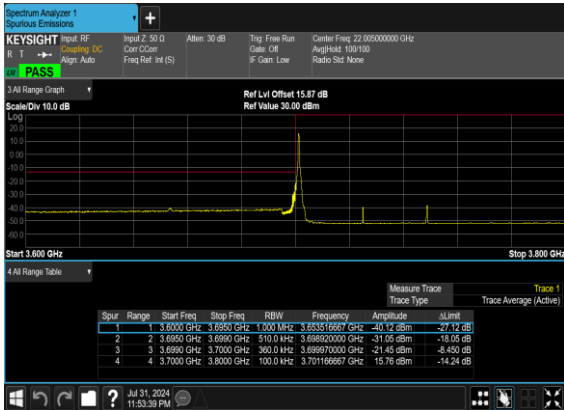
N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



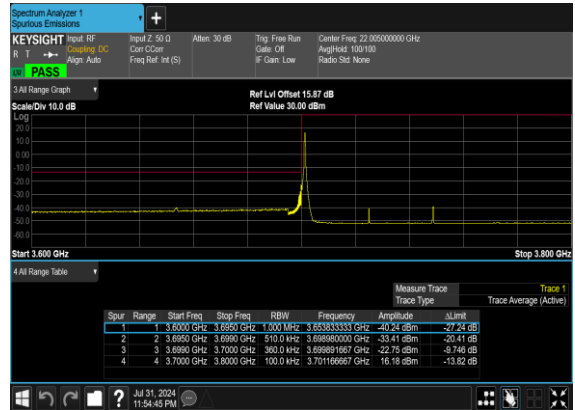
N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



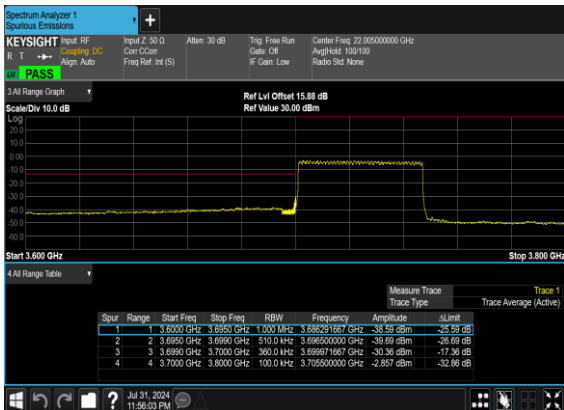
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



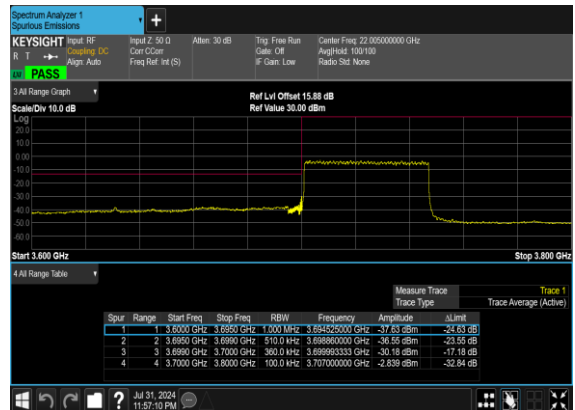
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH

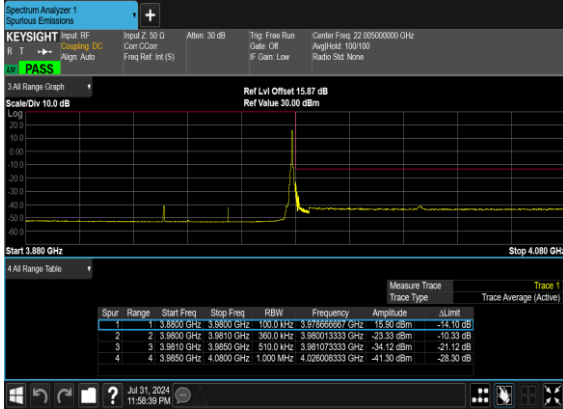


N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH

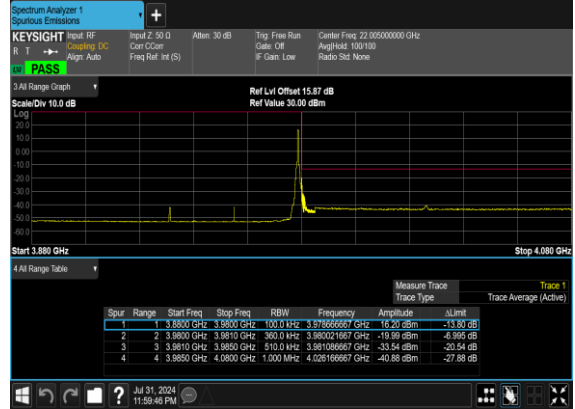




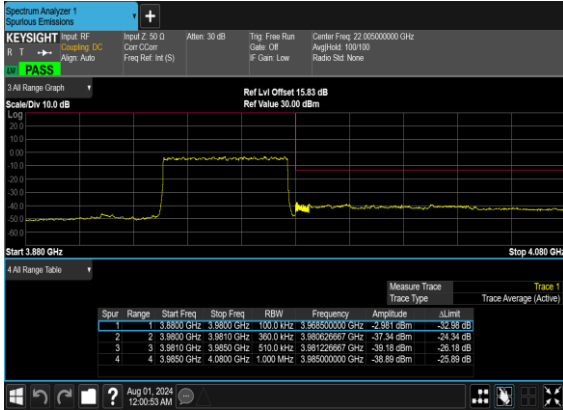
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



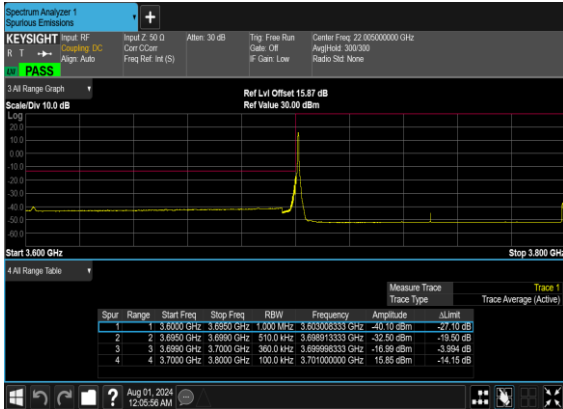
N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



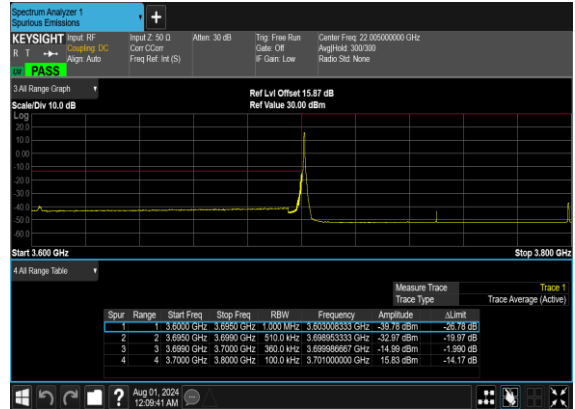
N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH

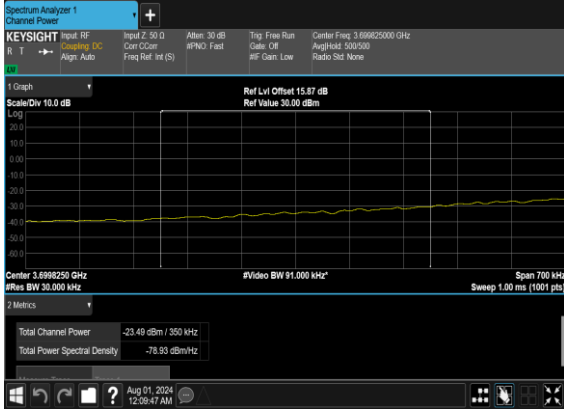


N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

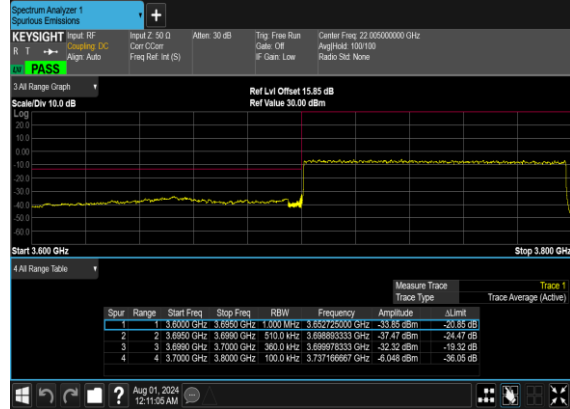




N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_PASS

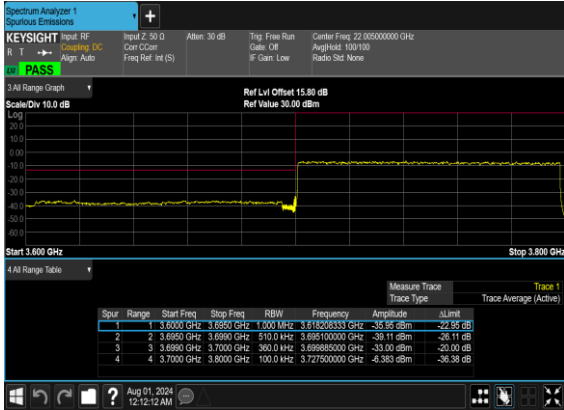


N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit
1	1	3.67000 GHz	3.68500 GHz	1.000 MHz	3.674725000 GHz	-33.85 dBm	-20.85 dB
2	2	3.68500 GHz	3.69000 GHz	510.0 kHz	3.688693333 GHz	-37.47 dBm	-24.47 dB
3	3	3.69000 GHz	3.70000 GHz	300.0 kHz	3.696979333 GHz	-39.32 dBm	-19.32 dB
4	4	3.70000 GHz	3.80000 GHz	100.0 kHz	3.731666667 GHz	-6.048 dBm	-36.05 dB

N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



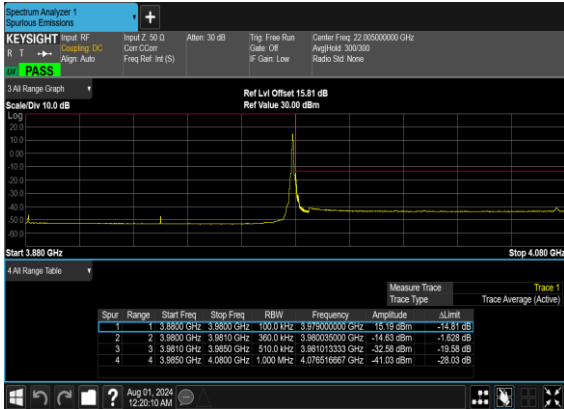
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit
1	1	3.67000 GHz	3.68500 GHz	1.000 MHz	3.672083333 GHz	-35.58 dBm	-22.58 dB
2	2	3.68500 GHz	3.69000 GHz	510.0 kHz	3.686100000 GHz	-38.11 dBm	-26.11 dB
3	3	3.69000 GHz	3.70000 GHz	300.0 kHz	3.698885000 GHz	-33.00 dBm	-20.00 dB
4	4	3.70000 GHz	3.80000 GHz	100.0 kHz	3.727500000 GHz	-6.363 dBm	-36.36 dB

N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



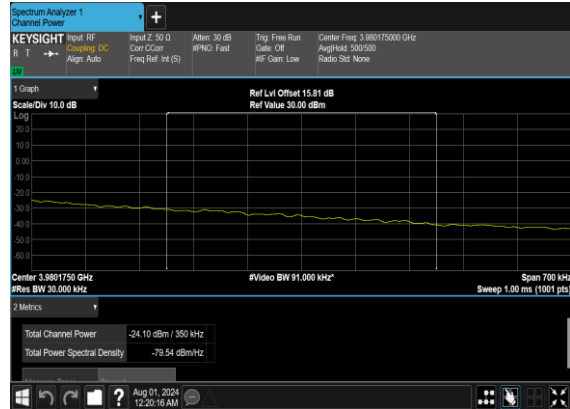
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit
1	1	3.88000 GHz	3.89000 GHz	100.0 kHz	3.878000000 GHz	16.44 dBm	-13.56 dB
2	2	3.89000 GHz	3.9810 GHz	360.0 kHz	3.960048333 GHz	-16.69 dBm	-3.69 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.981060000 GHz	-32.19 dBm	-18.19 dB
4	4	3.9850 GHz	4.0800 GHz	1.000 MHz	4.076750000 GHz	-41.15 dBm	-28.15 dB

N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



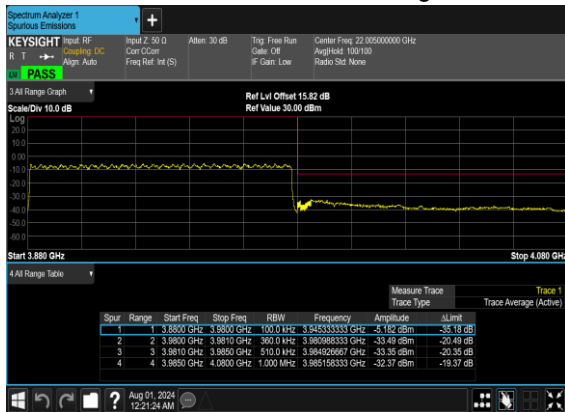
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit
1	1	3.88000 GHz	3.88000 GHz	100.0 kHz	3.879000000 GHz	15.13 dBm	-14.87 dB
2	2	3.88000 GHz	3.9810 GHz	360.0 kHz	3.960030000 GHz	-14.63 dBm	-11.63 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.981033333 GHz	-32.58 dBm	-19.58 dB
4	4	3.9850 GHz	4.0800 GHz	1.000 MHz	4.076516667 GHz	-41.03 dBm	-28.03 dB

N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH\_CHP\_PASS

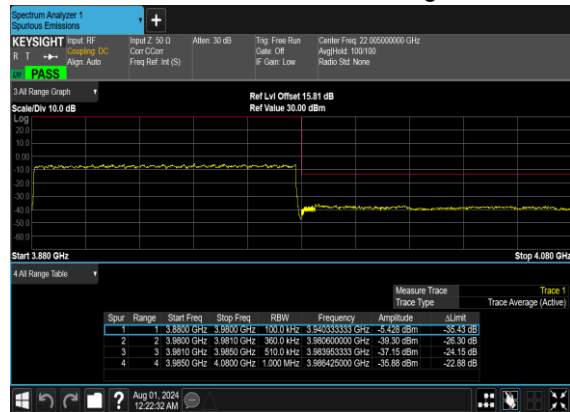




N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH





Software Version: 23.06.1602

# FR1 N78

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub> - L<sub>C</sub>)=0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	26.16	26.16	0.4130
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.31	25.31	0.3396
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	26.3	26.3	0.4266
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.54	25.54	0.3581
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	26.11	26.11	0.4083
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	25.28	25.28	0.3373
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	26.23	26.23	0.4198
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.37	25.37	0.3443
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	26.4	26.4	0.4365
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.52	25.52	0.3565
78	30	15	652832	3750	DFT-s-OFDM QPSK	1@1	26.34	26.34	0.4305
78	30	15	652832	3750	DFT-s-OFDM 16 QAM	1@1	25.5	25.5	0.3548
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	26.19	26.19	0.4159
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.2	25.2	0.3311
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	26.31	26.31	0.4276
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.42	25.42	0.3483
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.96	25.96	0.3945
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	25.05	25.05	0.3199
78	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	26.14	26.14	0.4111
78	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	25.2	25.2	0.3311
78	30	25	650000	3750	DFT-s-OFDM QPSK	1@1	26.2	26.2	0.4169
78	30	25	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.65	25.65	0.3673
78	30	25	652500	3787.5	DFT-s-OFDM QPSK	1@1	26	26	0.3981
78	30	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@1	25.12	25.12	0.3251
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	26.25	26.25	0.4217
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.3	25.3	0.3388
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	26.41	26.41	0.4375
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.57	25.57	0.3606
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	25.93	25.93	0.3917
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	25.17	25.17	0.3289
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	26.32	26.32	0.4285
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	25.18	25.18	0.3296
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	26.41	26.41	0.4375



78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.37	25.37	0.3443
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	26.29	26.29	0.4256
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	25.35	25.35	0.3428
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	26.27	26.27	0.4236
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.37	25.37	0.3443
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	26.28	26.28	0.4246
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.35	25.35	0.3428
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	26.38	26.38	0.4345
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	25.46	25.46	0.3516
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	26.07	26.07	0.4046
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.14	25.14	0.3266
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	26.09	26.09	0.4064
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.1	25.1	0.3236
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	26.4	26.4	0.4365
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	25.42	25.42	0.3483
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	26.4	26.4	0.4365
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	25.38	25.38	0.3451
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	26.11	26.11	0.4083
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.16	25.16	0.3281
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	26.38	26.38	0.4345
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	25.33	25.33	0.3412
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	26.34	26.34	0.4305
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.39	25.39	0.3459
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	26.09	26.09	0.4064
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.14	25.14	0.3266
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	26.13	26.13	0.4102
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	25.15	25.15	0.3273
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	26.4	26.4	0.4365
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.45	25.45	0.3508
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	26.25	26.25	0.4217
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.39	25.39	0.3459
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	26.16	26.16	0.4130
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	25.14	25.14	0.3266
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.03	26.03	0.4009
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.05	26.05	0.4027
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	26.42	26.42	0.4385
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	26.35	26.35	0.4315
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	26.33	26.33	0.4295
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	26.27	26.27	0.4236
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.28	25.28	0.3373



78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.53	25.53	0.3573
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	25.37	25.37	0.3443
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.95	23.95	0.2483
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.98	23.98	0.2500
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	24.01	24.01	0.2518
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.97	21.97	0.1574
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.8	21.8	0.1514
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	22.5	22.5	0.1778
78	30	100	650000	3750	CP-OFDM QPSK	137@68	24.66	24.66	0.2924
78	30	100	650000	3750	CP-OFDM QPSK	1@1	24.99	24.99	0.3155
78	30	100	650000	3750	CP-OFDM QPSK	1@271	24.68	24.68	0.2938





# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

Test Engineer :	Jia Kuang	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(ANT10)									
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)
Lowest	7402.40	-57.43	-13	-44.43	-66.35	-60.76	8.25	11.58	H
	11103.60	-54.02	-13	-41.02	-68.40	-55.57	10.45	12.00	H
	14804.80	-53.14	-13	-40.14	-70.20	-54.85	11.74	13.45	H
	7402.40	-57.37	-13	-44.37	-66.26	-60.70	8.25	11.58	V
	11103.60	-51.72	-13	-38.72	-68.03	-53.27	10.45	12.00	V
	14804.80	-52.60	-13	-39.60	-69.94	-54.31	11.74	13.45	V
Middle	7582.36	-57.33	-13	-44.33	-65.64	-60.63	8.30	11.60	H
	11373.54	-54.79	-13	-41.79	-69.13	-56.31	10.48	12.00	H
	15164.72	-52.07	-13	-39.07	-70.16	-53.77	11.80	13.50	H
	7582.36	-57.56	-13	-44.56	-65.87	-60.86	8.30	11.60	V
	11373.54	-50.19	-13	-37.19	-68.61	-51.71	10.48	12.00	V
	15164.72	-52.09	-13	-39.09	-70.17	-53.79	11.80	13.50	V
Highest	7762.40	-57.14	-13	-44.14	-64.98	-60.44	8.32	11.62	H
	11643.60	-53.23	-13	-40.23	-68.20	-54.91	10.52	12.20	H
	15524.80	-50.06	-13	-37.06	-69.38	-51.76	11.85	13.55	H
	7762.40	-53.55	-13	-40.55	-64.82	-56.85	8.32	11.62	V
	11643.60	-50.55	-13	-37.55	-68.37	-52.23	10.52	12.20	V
	15524.80	-51.46	-13	-38.46	-69.14	-53.16	11.85	13.55	V

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



EN-DC_30A_n77A / LTE 10MHz + NR 100MHz / QPSK(5+10)									
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 Lowest	7402.40	-57.42	-13	-44.42	-66.34	-60.75	8.25	11.58	H
	11103.60	-54.03	-13	-41.03	-68.41	-55.58	10.45	12.00	H
	14804.80	-53.12	-13	-40.12	-70.18	-54.83	11.74	13.45	H
	7402.40	-57.36	-13	-44.36	-66.25	-60.69	8.25	11.58	V
	11103.60	-52.24	-13	-39.24	-68.55	-53.79	10.45	12.00	V
	14804.80	-52.72	-13	-39.72	-70.06	-54.43	11.74	13.45	V
LTE Band30 Lowest	4611.00	-59.95	-40	-19.95	-64.90	-66.20	6.45	12.70	H
	6916.50	-58.06	-40	-18.06	-65.56	-61.46	8.40	11.80	H
	9222.00	-59.30	-40	-19.30	-68.82	-61.65	9.65	12.00	H
	4611.00	-59.71	-40	-19.71	-64.79	-65.96	6.45	12.70	V
	6916.50	-57.02	-40	-17.02	-65.62	-60.42	8.40	11.80	V
	9222.00	-57.76	-40	-17.76	-69.51	-60.11	9.65	12.00	V
NR n77 Middle	7582.36	-57.80	-13	-44.80	-66.11	-61.10	8.30	11.60	H
	11373.54	-54.94	-13	-41.94	-69.28	-56.46	10.48	12.00	H
	15164.72	-51.67	-13	-38.67	-69.76	-53.37	11.80	13.50	H
	7582.36	-57.86	-13	-44.86	-66.17	-61.16	8.30	11.60	V
	11373.54	-50.46	-13	-37.46	-68.88	-51.98	10.48	12.00	V
	15164.72	-51.95	-13	-38.95	-70.03	-53.65	11.80	13.50	V
LTE Band30 Middle	4611.00	-59.99	-40	-19.99	-64.94	-66.24	6.45	12.70	H
	6916.50	-57.97	-40	-17.97	-65.47	-61.37	8.40	11.80	H
	9222.00	-60.14	-40	-20.14	-69.66	-62.49	9.65	12.00	H
	4611.00	-59.97	-40	-19.97	-65.05	-66.22	6.45	12.70	V
	6916.50	-56.94	-40	-16.94	-65.54	-60.34	8.40	11.80	V
	9222.00	-57.77	-40	-17.77	-69.52	-60.12	9.65	12.00	V
NR n77 Highest	7762.40	-57.36	-13	-44.36	-65.20	-60.66	8.32	11.62	H
	11643.60	-53.50	-13	-40.50	-68.47	-55.18	10.52	12.20	H
	15524.80	-49.98	-13	-36.98	-69.30	-51.68	11.85	13.55	H
	7762.40	-53.71	-13	-40.71	-64.98	-57.01	8.32	11.62	V
	11643.60	-50.63	-13	-37.63	-68.45	-52.31	10.52	12.20	V
	15524.80	-51.20	-13	-38.20	-68.88	-52.90	11.85	13.55	V
LTE Band30 Highest	4611.00	-59.93	-40	-19.93	-64.88	-66.18	6.45	12.70	H
	6916.50	-58.08	-40	-18.08	-65.58	-61.48	8.40	11.80	H
	9222.00	-59.67	-40	-19.67	-69.19	-62.02	9.65	12.00	H
	4611.00	-59.62	-40	-19.62	-64.7	-65.87	6.45	12.70	V
	6916.50	-57.05	-40	-17.05	-65.65	-60.45	8.40	11.80	V
	9222.00	-57.73	-40	-17.73	-69.48	-60.08	9.65	12.00	V

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