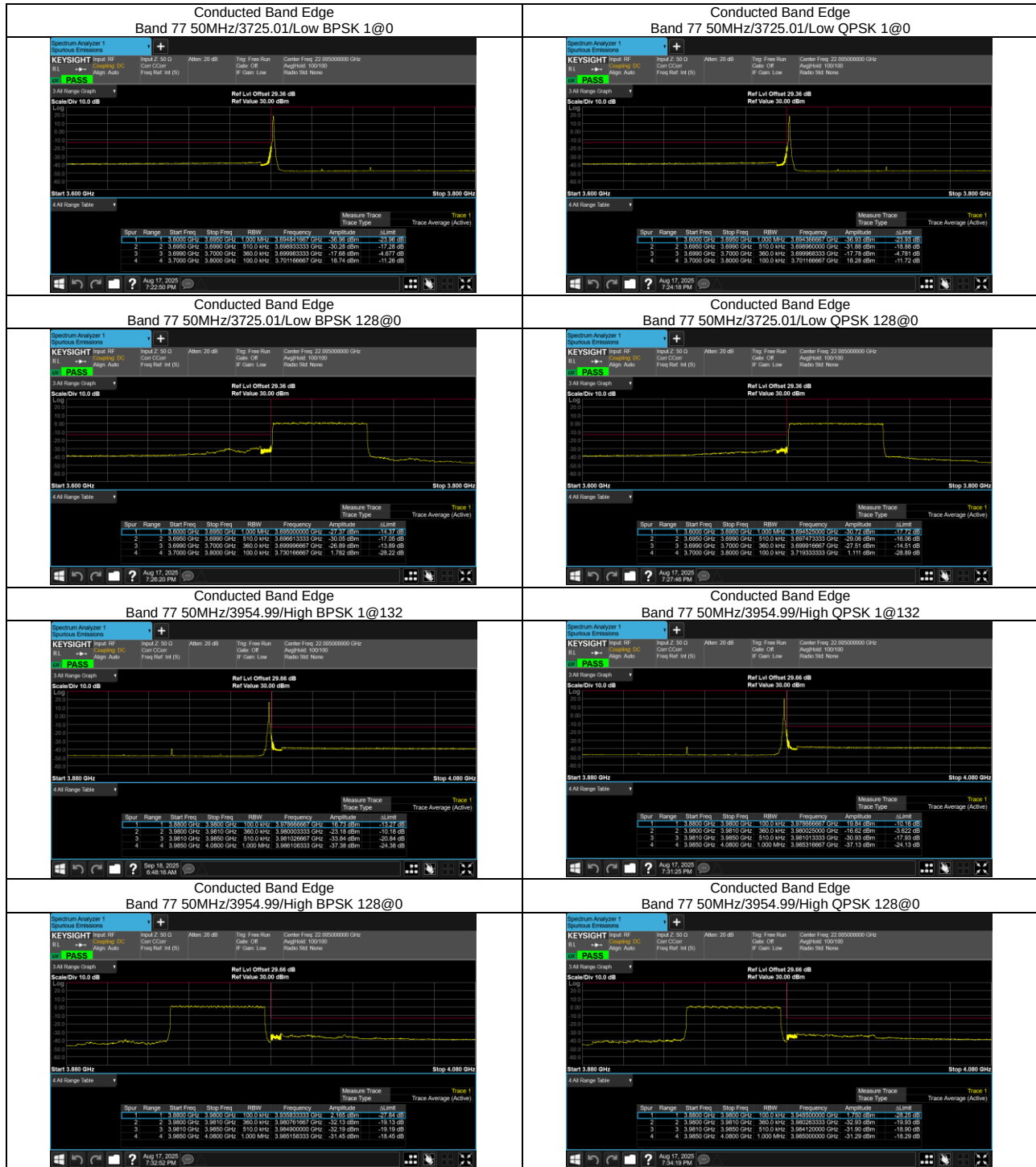










Software Version: 23.06.1602

FR1 N78 (Ant.6)

Transmitter Conducted Output Power And EIRP, (GT - LC)= 0.6dB

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	25.86	26.46	0.4426
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.65	26.25	0.4217
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.58	26.18	0.4150
78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.73	26.33	0.4295
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	25.88	26.48	0.4446
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.42	26.02	0.3999
78	30	10	653000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.70	26.30	0.4266
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	25.86	26.46	0.4426
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	25.70	26.30	0.4266
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	25.75	26.35	0.4315
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.66	26.26	0.4227
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.86	26.46	0.4426
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.01	26.61	0.4581
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	25.79	26.39	0.4355
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.90	26.50	0.4467
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	1@1	25.82	26.42	0.4385
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	25.95	26.55	0.4519
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	26.07	26.67	0.4645
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.67	26.27	0.4236
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.50	26.10	0.4074
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.74	26.34	0.4305
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.66	26.26	0.4227
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.69	26.29	0.4256
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.91	26.51	0.4477
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	25.83	26.43	0.4395
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.85	26.45	0.4416
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	25.84	26.44	0.4406
78	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	25.77	26.37	0.4335
78	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	25.75	26.35	0.4315
78	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	25.83	26.43	0.4395
78	30	25	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.72	26.32	0.4285
78	30	25	650000	3750	DFT-s-OFDM QPSK	1@1	25.90	26.50	0.4467
78	30	25	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.70	26.30	0.4266
78	30	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	1@1	26.02	26.62	0.4592



NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	25	652500	3787.5	DFT-s-OFDM QPSK	1@1	25.98	26.58	0.4550
78	30	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@1	26.15	26.75	0.4732
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	25.68	26.28	0.4246
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.73	26.33	0.4295
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.64	26.24	0.4207
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.84	26.44	0.4406
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	25.71	26.31	0.4276
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.36	24.96	0.3133
78	30	30	652332	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.63	26.23	0.4198
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	26.17	26.77	0.4753
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	25.96	26.56	0.4529
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	25.58	26.18	0.4150
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.81	26.41	0.4375
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.25	24.85	0.3055
78	30	40	650000	3720	DFT-s-OFDM PI/2 BPSK	1@1	25.51	26.11	0.4083
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	25.76	26.36	0.4325
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.61	26.21	0.4178
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	26.05	26.65	0.4624
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	25.84	26.44	0.4406
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	25.92	26.52	0.4487
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.91	26.51	0.4477
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.73	26.33	0.4295
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.77	26.37	0.4335
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.60	26.20	0.4169
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	25.54	26.14	0.4111
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.16	25.76	0.3767
78	30	50	651666	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.64	26.24	0.4207
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	26.14	26.74	0.4721
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	26.02	26.62	0.4592
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	25.45	26.05	0.4027
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.67	26.27	0.4236
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.58	26.18	0.4150
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.33	25.93	0.3917
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	25.35	25.95	0.3936
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.58	26.18	0.4150
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@1	26.01	26.61	0.4581
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	25.89	26.49	0.4457
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	25.96	26.56	0.4529
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	25.83	26.43	0.4395
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.69	26.29	0.4256
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	25.85	26.45	0.4416



NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.69	26.29	0.4256
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	25.69	26.29	0.4256
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.78	26.38	0.4345
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@1	25.90	26.50	0.4467
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	25.95	26.55	0.4519
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	26.10	26.70	0.4677
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	25.74	26.34	0.4305
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.90	26.50	0.4467
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.65	26.25	0.4217
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.79	26.39	0.4355
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	25.80	26.40	0.4365
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.64	26.24	0.4207
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@1	25.87	26.47	0.4436
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	25.71	26.31	0.4276
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	25.67	26.27	0.4236
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	25.94	26.54	0.4508
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.79	26.39	0.4355
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.65	26.25	0.4217
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.59	26.19	0.4159
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	25.64	26.24	0.4207
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.69	26.29	0.4256
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@1	25.54	26.14	0.4111
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	25.65	26.25	0.4217
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	25.69	26.29	0.4256
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.60	26.20	0.4169
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@0	23.35	23.95	0.2483
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	26.00	26.60	0.4571
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	2@0	23.71	24.31	0.2698
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.06	26.66	0.4634
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	2@271	23.47	24.07	0.2553
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	270@0	25.64	26.24	0.4207
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.92	26.52	0.4487
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@0	23.38	23.98	0.2500
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.71	26.31	0.4276
78	30	100	650000	3750	DFT-s-OFDM QPSK	2@0	23.48	24.08	0.2559
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.70	26.30	0.4266
78	30	100	650000	3750	DFT-s-OFDM QPSK	2@271	23.69	24.29	0.2685
78	30	100	650000	3750	DFT-s-OFDM QPSK	270@0	25.89	26.49	0.4457
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.05	26.65	0.4624
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	25.55	26.15	0.4121
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	23.29	23.89	0.2449



NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	270@0	25.85	26.45	0.4416
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	270@0	25.42	26.02	0.3999
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	270@0	23.44	24.04	0.2535
78	30	100	650000	3750	CP-OFDM QPSK	1@1	25.68	26.28	0.4246
78	30	100	650000	3750	CP-OFDM 16 QAM	1@1	25.96	26.56	0.4529
78	30	100	650000	3750	CP-OFDM 64 QAM	1@1	24.69	25.29	0.3381
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.67	26.27	0.4236
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@0	23.34	23.94	0.2477
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.61	26.21	0.4178
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	2@0	23.47	24.07	0.2553
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.97	26.57	0.4539
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	2@271	23.58	24.18	0.2618
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	270@0	25.84	26.44	0.4406
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.64	26.24	0.4207
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@0	23.39	23.99	0.2506
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.66	26.26	0.4227
78	30	100	650000	3750	DFT-s-OFDM QPSK	2@0	23.71	24.31	0.2698
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.82	26.42	0.4385
78	30	100	650000	3750	DFT-s-OFDM QPSK	2@271	23.67	24.27	0.2673
78	30	100	650000	3750	DFT-s-OFDM QPSK	270@0	25.70	26.30	0.4266
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.81	26.41	0.4375
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	25.46	26.06	0.4036
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	23.61	24.21	0.2636
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	270@0	25.94	26.54	0.4508
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	270@0	25.43	26.03	0.4009
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	270@0	23.43	24.03	0.2529
78	30	100	650000	3750	CP-OFDM QPSK	1@1	25.57	26.17	0.4140
78	30	100	650000	3750	CP-OFDM 16 QAM	1@1	26.13	26.73	0.4710
78	30	100	650000	3750	CP-OFDM 64 QAM	1@1	24.49	25.09	0.3228
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.65	26.25	0.4217
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@0	23.49	24.09	0.2564
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.73	26.33	0.4295
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	2@0	23.74	24.34	0.2716
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.83	26.43	0.4395
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	2@271	23.51	24.11	0.2576
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	270@0	25.88	26.48	0.4446
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.88	26.48	0.4446
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@0	23.34	23.94	0.2477
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.76	26.36	0.4325
78	30	100	650000	3750	DFT-s-OFDM QPSK	2@0	23.33	23.93	0.2472
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.68	26.28	0.4246



NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	100	650000	3750	DFT-s-OFDM QPSK	2@271	23.76	24.36	0.2729
78	30	100	650000	3750	DFT-s-OFDM QPSK	270@0	25.63	26.23	0.4198
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.69	26.29	0.4256
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	25.50	26.10	0.4074
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	23.60	24.20	0.2630
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	270@0	25.70	26.30	0.4266
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	270@0	25.48	26.08	0.4055
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	270@0	23.42	24.02	0.2523
78	30	100	650000	3750	CP-OFDM QPSK	1@1	25.81	26.41	0.4375
78	30	100	650000	3750	CP-OFDM 16 QAM	1@1	26.16	26.76	0.4742
78	30	100	650000	3750	CP-OFDM 64 QAM	1@1	24.64	25.24	0.3342



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jake	Temperature :	21~25℃
		Relative Humidity :	51~53%

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

n77 SA / NR 100MHz / QPSK(ANT7)								
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	7583	-56.06	-13	-43.06	-66.27	3.03	13.24	H
	11378	-54.92	-13	-41.92	-64.37	3.56	13.01	H
	15162	-58.21	-13	-45.21	-67.73	3.92	13.44	H
	7583	-59.70	-13	-46.70	-69.91	3.03	13.24	V
	11378	-48.20	-13	-35.20	-57.65	3.56	13.01	V
	15162	-57.84	-13	-44.84	-67.36	3.92	13.44	V

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

EN-DC_7A_n77A / LTE 20MHz + NR 100MHz / QPSK(8+6)								
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	7584	-56.31	-13	-43.31	-66.52	3.03	13.24	H
	11376	-58.50	-13	-45.50	-67.95	3.56	13.01	H
	15180	-58.79	-13	-45.79	-68.31	3.92	13.44	H
	7584	-58.99	-13	-45.99	-69.20	3.03	13.24	V
	11376	-55.00	-13	-42.00	-64.45	3.56	13.01	V
	15180	-58.49	-13	-45.49	-68.01	3.92	13.44	V

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