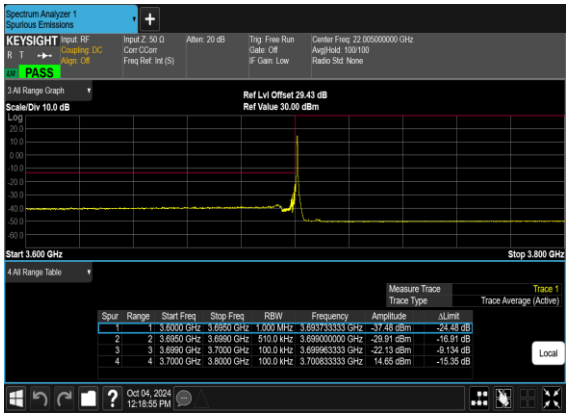
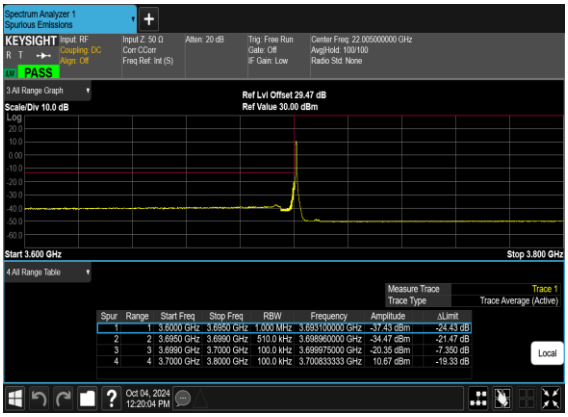
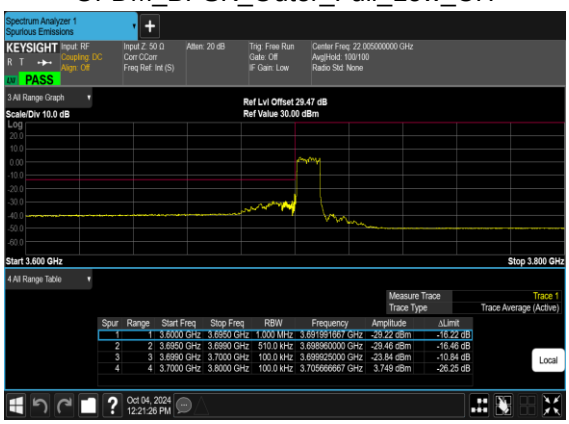
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



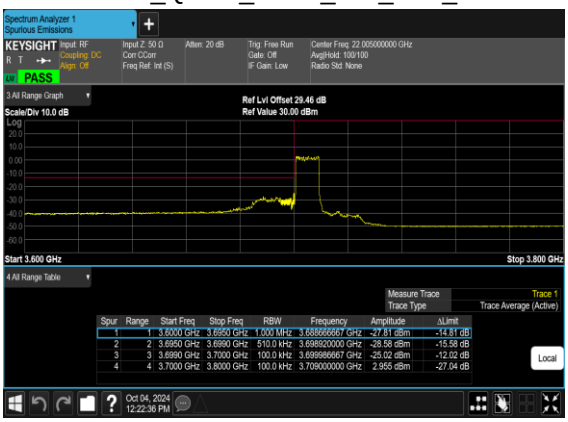
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

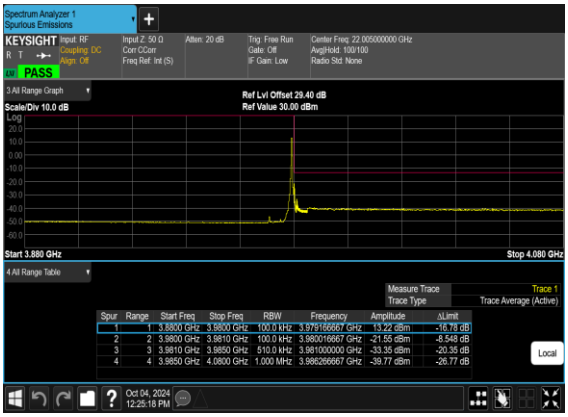


N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

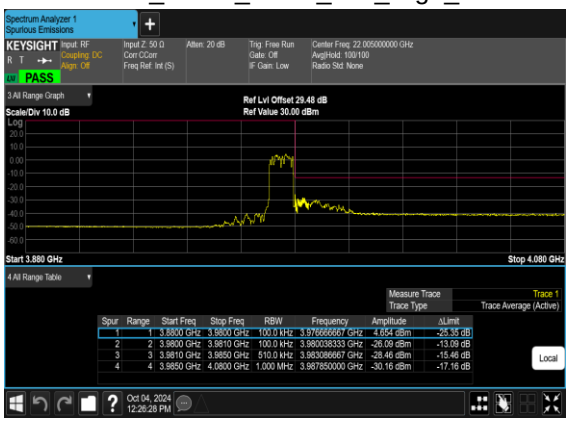


N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

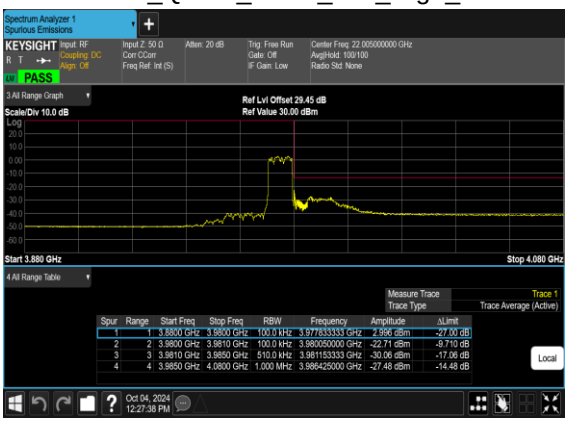
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



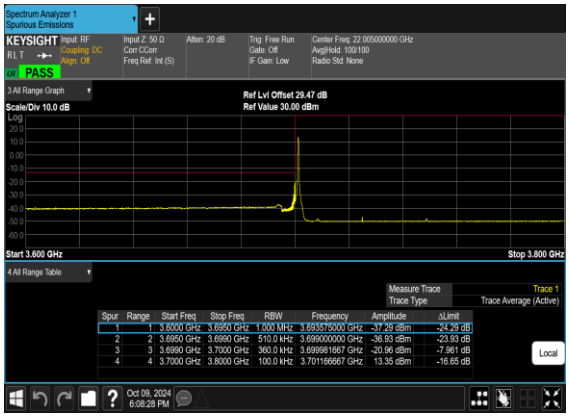
N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



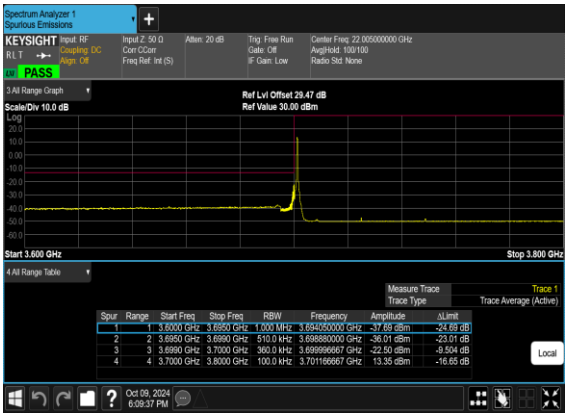
N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



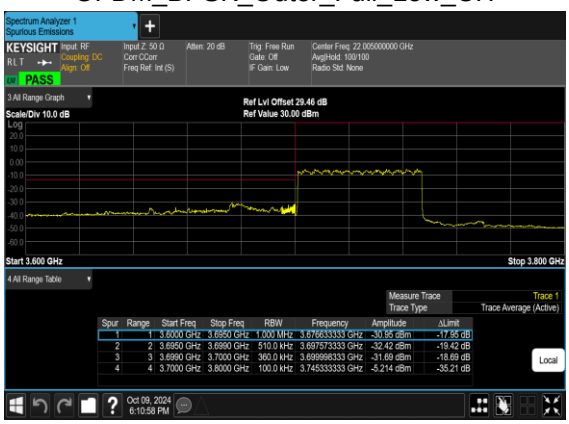
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



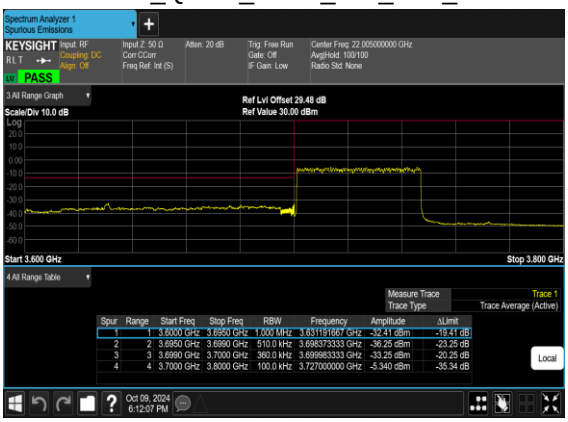
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



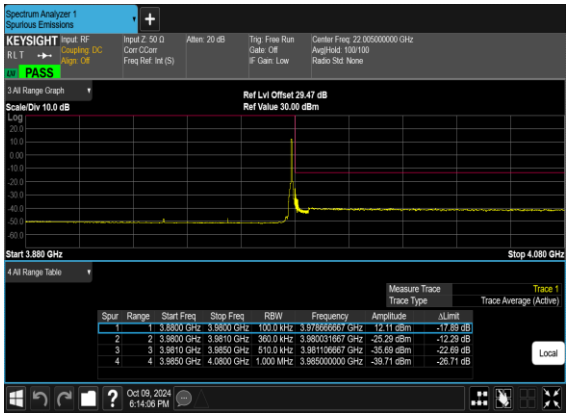
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



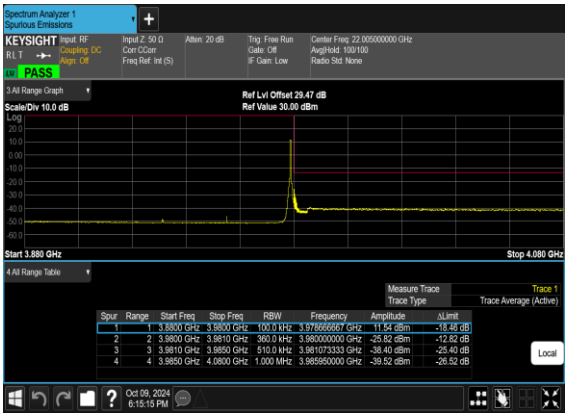
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



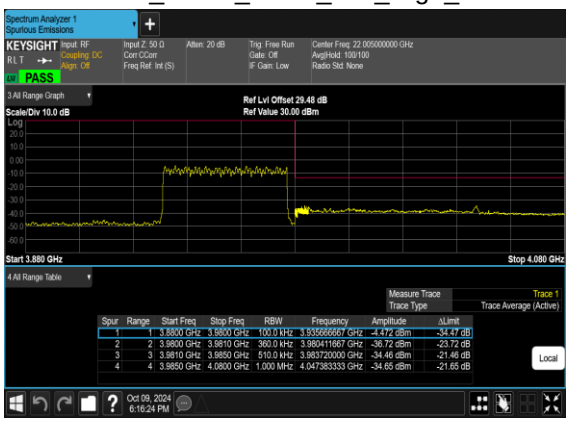
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



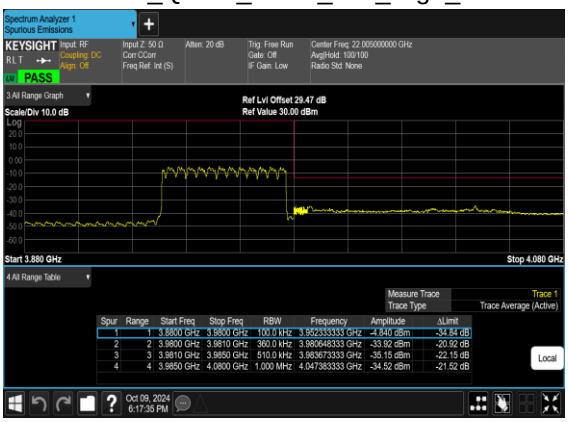
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



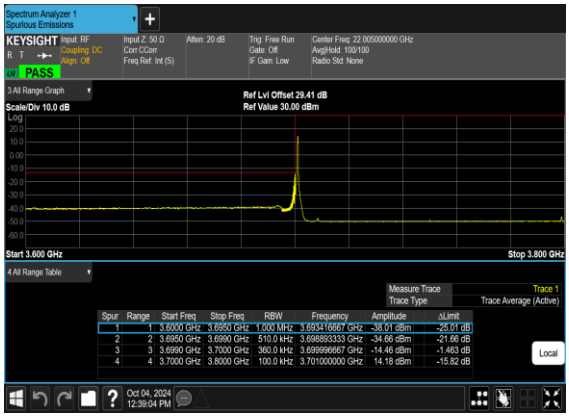
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



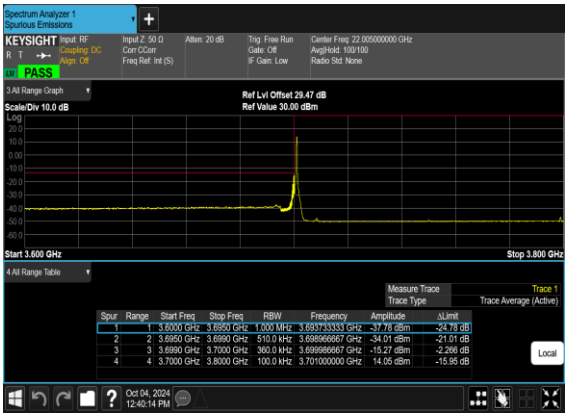
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



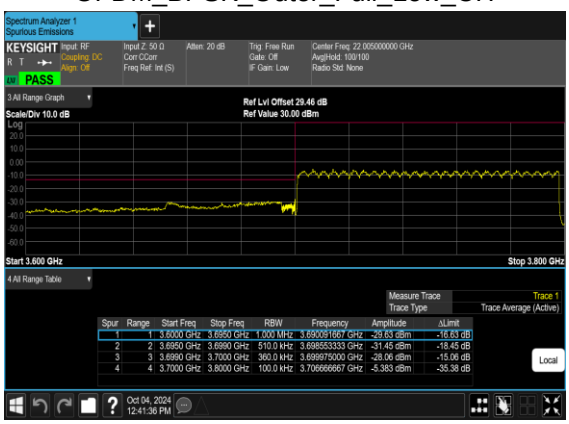
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



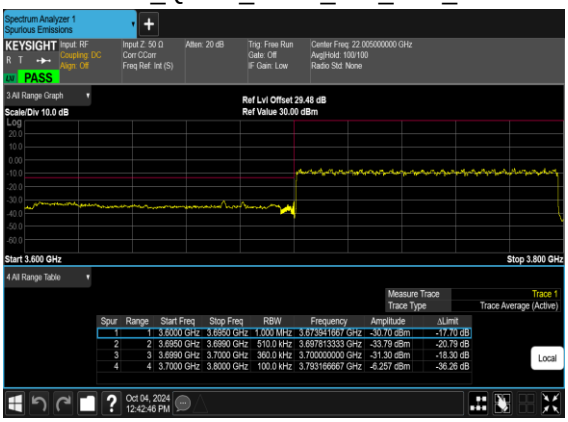
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



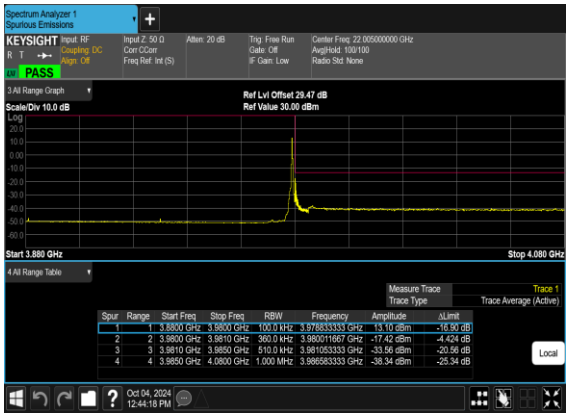
N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



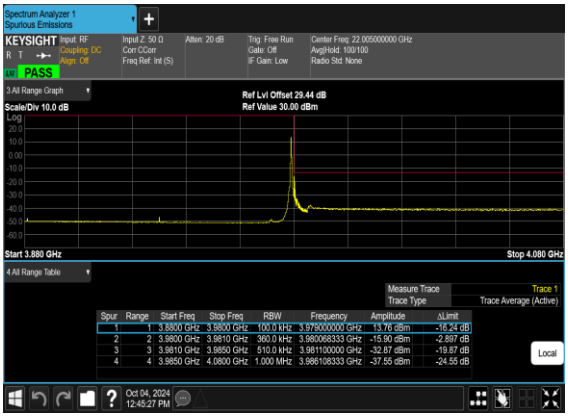
N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



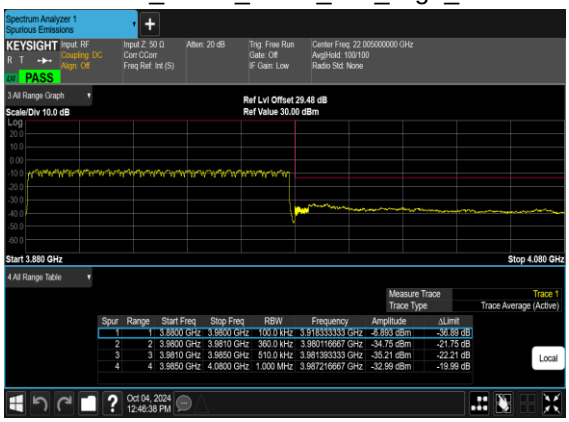
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



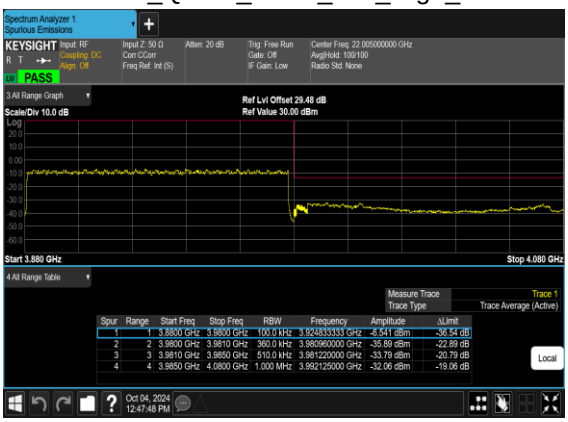
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



FR1 N78(ANT6)

LTE Band: 41(ANT2), LTE BW: 10M, LTE ARFCN: Mid

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	647000	3795	DFT-s-OFDM PI/2 BPSK	1@1	27.25	24.75	0.5309
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	27.09	24.59	0.5117
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	26.17	23.67	0.4140
78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.85	24.35	0.7709
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	26.69	24.19	0.7603
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.74	23.24	0.6180
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@1	27.25	24.75	0.5309
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	27.18	24.68	0.5224
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	26.32	23.82	0.4285
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	25.88	23.38	0.2178
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.81	23.31	0.2143
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.78	23.28	0.2128
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.34	22.84	0.1923
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	25.14	22.64	0.1837
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.33	22.83	0.1919
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	1@1	25.84	23.34	0.2158
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	25.83	23.33	0.2153
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	25.80	23.30	0.2138
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.83	23.33	0.2153
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.74	23.24	0.2109
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.67	23.17	0.2075
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.96	23.46	0.2218
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.83	23.33	0.2153
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.64	23.14	0.2061
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	25.76	23.26	0.2118
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.80	23.30	0.2138
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	25.65	23.15	0.2065
78	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	25.82	23.32	0.2148
78	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	25.84	23.34	0.2158
78	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	25.78	23.28	0.2128
78	30	25	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.39	23.89	0.2449
78	30	25	650000	3750	DFT-s-OFDM QPSK	1@1	26.22	23.72	0.2355
78	30	25	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.15	23.65	0.2317
78	30	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	1@1	26.23	23.73	0.2360
78	30	25	652500	3787.5	DFT-s-OFDM QPSK	1@1	26.17	23.67	0.2328
78	30	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@1	26.19	23.69	0.2339

78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	25.90	23.40	0.2188
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.92	23.42	0.2198
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.88	23.38	0.2178
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.33	23.83	0.2415
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	26.41	23.91	0.2460
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.33	23.83	0.2415
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@1	26.05	23.55	0.2265
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	26.06	23.56	0.2270
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	25.97	23.47	0.2223
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	25.86	23.36	0.2168
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.90	23.40	0.2188
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	25.74	23.24	0.2109
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.34	23.84	0.2421
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	26.41	23.91	0.2460
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.52	24.02	0.2523
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	24.97	22.47	0.1766
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	25.02	22.52	0.1786
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	25.01	22.51	0.1782
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.98	23.48	0.2228
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.98	23.48	0.2228
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.91	23.41	0.2193
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.33	23.83	0.2415
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	26.41	23.91	0.2460
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.82	24.32	0.2704
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	24.73	22.23	0.1671
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	24.73	22.23	0.1671
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	24.66	22.16	0.1644
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	25.81	23.31	0.2143
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.83	23.33	0.2153
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.62	23.12	0.2051
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.22	23.72	0.2355
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	26.01	23.51	0.2244
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.95	23.45	0.2213
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@1	25.65	23.15	0.2065
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	25.64	23.14	0.2061
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	25.47	22.97	0.1982
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	25.93	23.43	0.2203
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.94	23.44	0.2208
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	25.85	23.35	0.2163
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.52	24.02	0.2523
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	26.55	24.05	0.2541
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.47	23.97	0.2495
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@1	27.25	24.75	0.2985
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	27.76	25.26	0.3357
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	27.55	25.05	0.3199

78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	25.89	23.39	0.2183
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.94	23.44	0.2208
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.81	23.31	0.2143
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.22	23.72	0.2355
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	26.52	24.02	0.2523
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.39	23.89	0.2449
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@1	26.74	24.24	0.2655
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	26.88	24.38	0.2742
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	26.33	23.83	0.2415
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	27.12	24.62	0.2897
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	27.13	24.63	0.2904
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	27.05	24.55	0.2851
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.22	23.72	0.2355
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	26.39	23.89	0.2449
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.41	23.91	0.2460
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@1	26.52	24.02	0.2523
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	26.55	24.05	0.2541
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	26.57	24.07	0.2553
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	27.71	25.21	0.3319
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.65	25.15	0.3273
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	27.22	24.72	0.2965
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	26.66	24.16	0.2606
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	26.39	23.89	0.2449
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	26.48	23.98	0.2500
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.80	23.30	0.2138
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.21	23.71	0.2350
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	26.39	23.89	0.2449
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	25.03	22.53	0.1791
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	25.47	22.97	0.1982
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	25.57	23.07	0.2028
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	23.04	20.54	0.1132
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	23.28	20.78	0.1197
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	23.56	21.06	0.1276
78	30	100	650000	3750	CP-OFDM QPSK	137@68	25.68	23.18	0.2080
78	30	100	650000	3750	CP-OFDM QPSK	1@1	26.31	23.81	0.2404
78	30	100	650000	3750	CP-OFDM QPSK	1@271	26.63	24.13	0.2588

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	7596	-61.43	-13	-48.43	-71.64	3.03	13.24	H
	11385.27	-61.18	-13	-48.18	-70.63	3.56	13.01	H
	15180.36	-58.50	-13	-45.50	-68.02	3.92	13.44	H
	7596	-61.35	-13	-48.35	-71.56	3.03	13.24	V
	11385.27	-61.11	-13	-48.11	-70.56	3.56	13.01	V
	15180.36	-58.41	-13	-45.41	-67.93	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	7416	-61.94	-13	-48.94	-72.15	3.03	13.24	H
	11115.27	-60.25	-13	-47.25	-69.70	3.56	13.01	H
	14820.36	-58.58	-13	-45.58	-68.10	3.92	13.44	H
	7416	-61.95	-13	-48.95	-72.16	3.03	13.24	V
	11115.27	-60.18	-13	-47.18	-69.63	3.56	13.01	V
	14820.36	-58.55	-13	-45.55	-68.07	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	7404	-58.23	-13	-45.23	-68.44	3.03	13.24	H
	11115.27	-60.64	-13	-47.64	-70.09	3.56	13.01	H
	14820.36	-59.35	-13	-46.35	-68.87	3.92	13.44	H
	7404	-56.14	-13	-43.14	-66.35	3.03	13.24	V
	11115.27	-60.98	-13	-47.98	-70.43	3.56	13.01	V
	14820	-59.53	-13	-46.53	-69.05	3.92	13.44	V

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