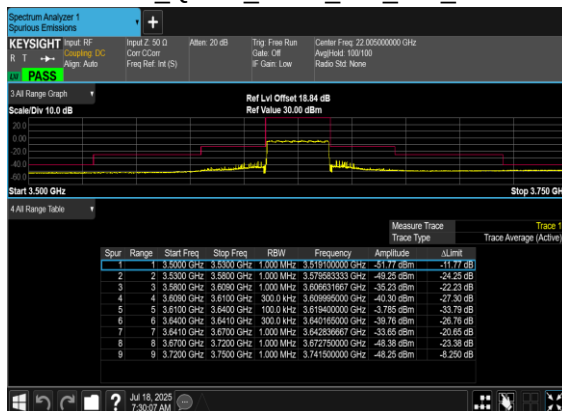
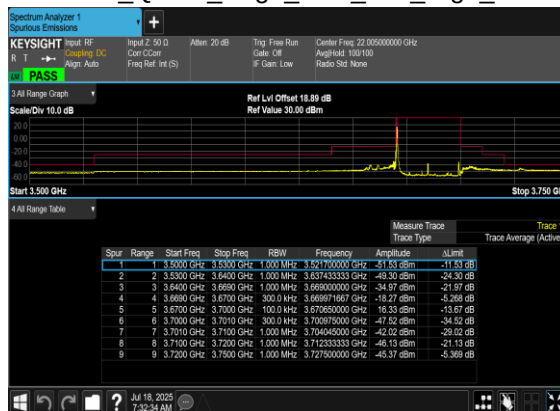




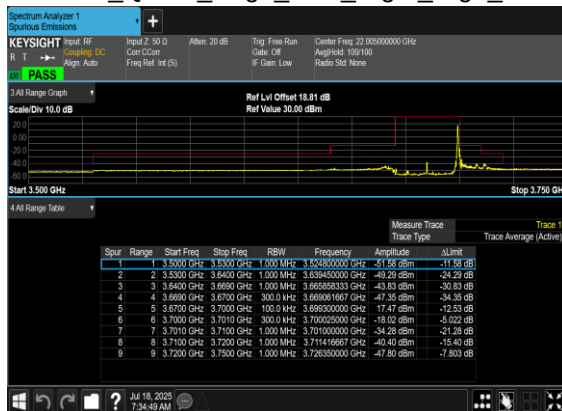
N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



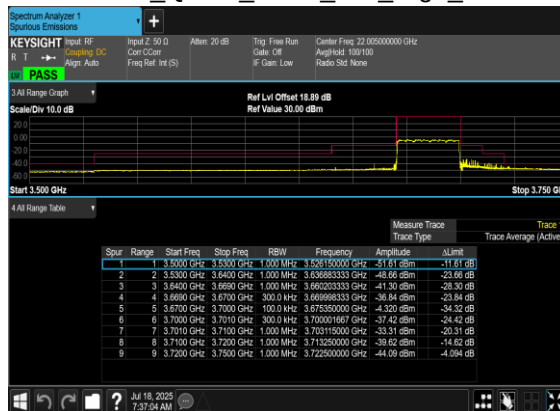
N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(30M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

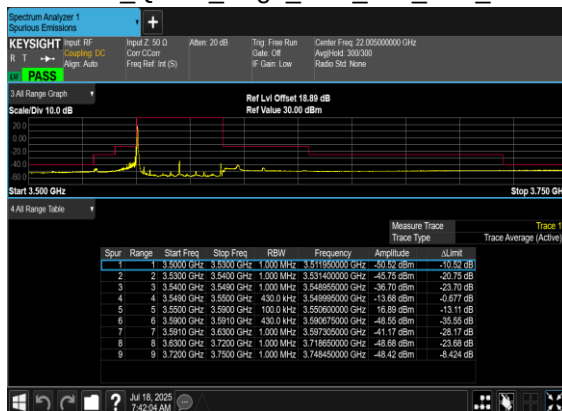


N48(30M)_CP-
OFDM_QPSK_Outer_Full_High_CH

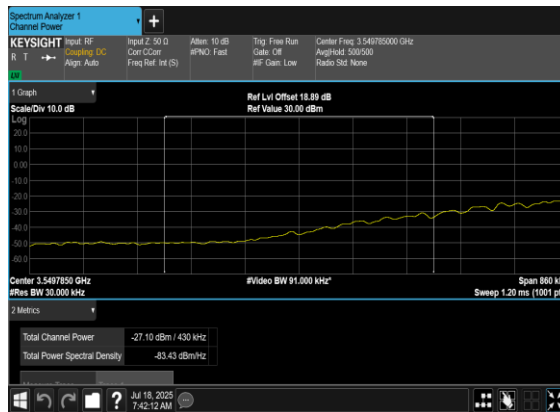




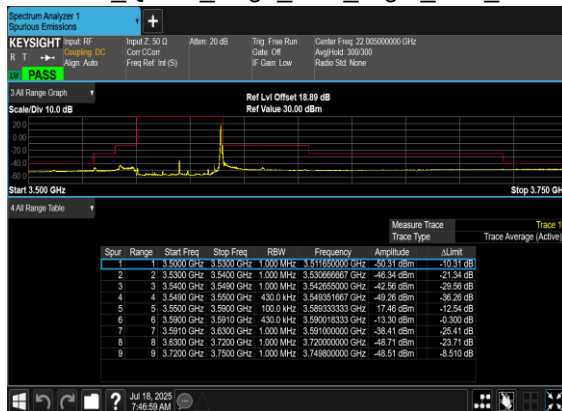
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



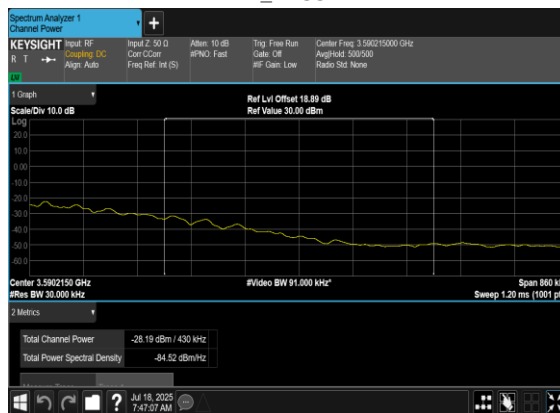
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH_chp_
PASS



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH

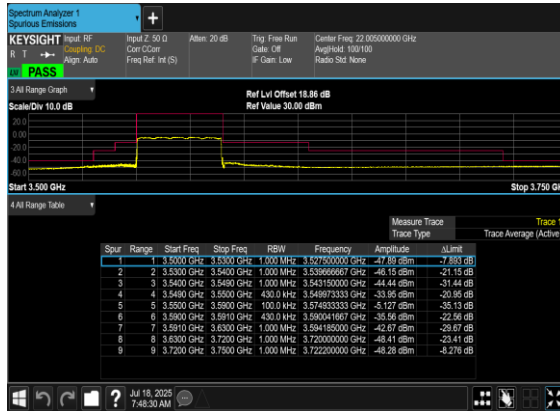


N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH_ch
P_PASS

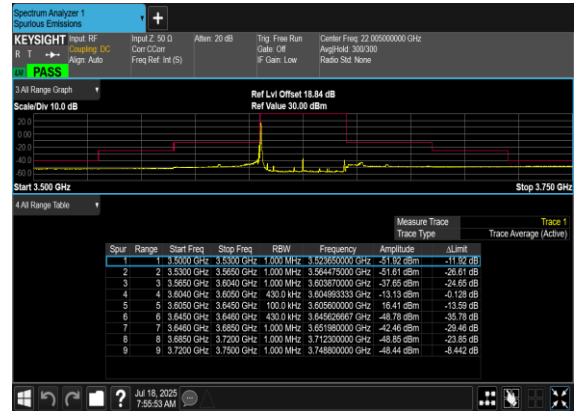




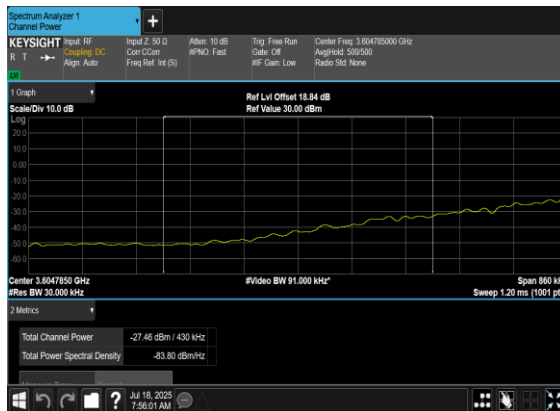
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



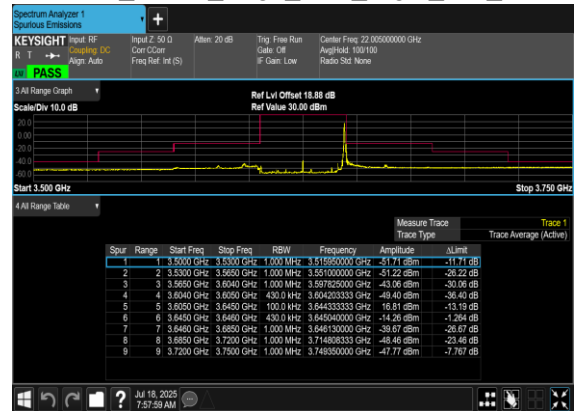
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH_CHP-
PASS

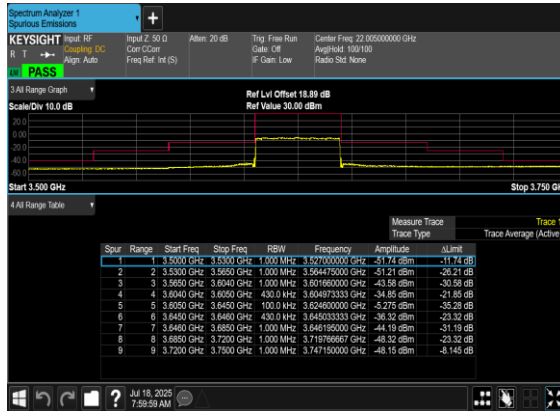


N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

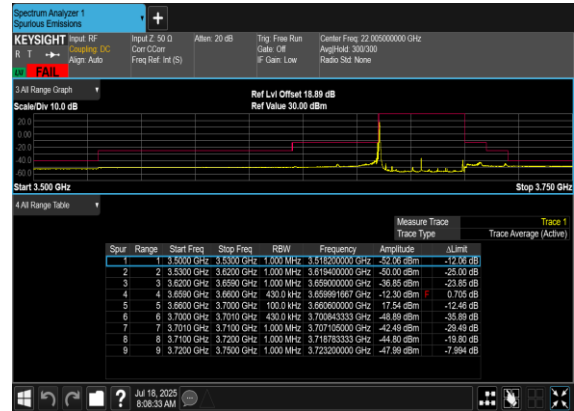




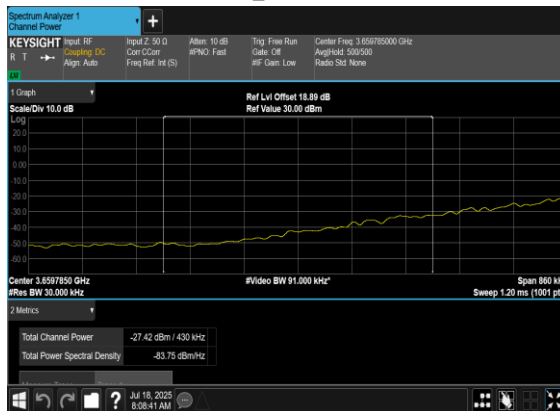
N48(40M)_CP-
OFDM_QPSK_Outter_Full_Mid_CH



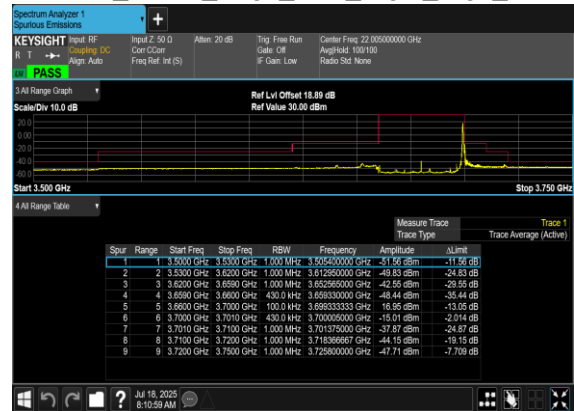
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH_CHP
_PASS

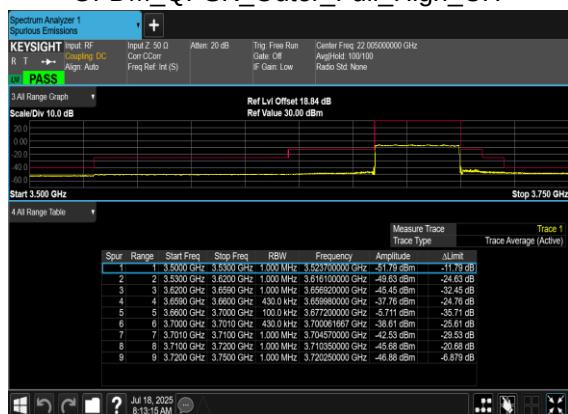


N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH





N48(40M)_CP-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 n48 UL MIMO(Ant 5)-30 kHz

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=1.22dBi

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT5 Power(dBm)	ANT6 Power(dBm)	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
48	30	10	637000	3555	CP-OFDM QPSK	12@6	16.12	16.4	19.27	20.49	0.1119
48	30	10	637000	3555	CP-OFDM QPSK	1@1	15.97	16.35	19.17	20.39	0.1094
48	30	10	637000	3555	CP-OFDM QPSK	1@22	16.11	16.34	19.24	20.46	0.1112
48	30	10	637000	3555	CP-OFDM 16 QAM	12@6	15.51	15.97	18.76	19.98	0.0995
48	30	10	637000	3555	CP-OFDM 16 QAM	1@1	15.46	15.89	18.69	19.91	0.0979
48	30	10	637000	3555	CP-OFDM 16 QAM	1@22	15.54	15.85	18.71	19.93	0.0984
48	30	10	641666	3624.99	CP-OFDM QPSK	12@6	16.28	16.63	19.47	20.69	0.1172
48	30	10	641666	3624.99	CP-OFDM QPSK	1@1	16.05	16.57	19.33	20.55	0.1135
48	30	10	641666	3624.99	CP-OFDM QPSK	1@22	16.2	16.58	19.40	20.62	0.1153
48	30	10	641666	3624.99	CP-OFDM 16 QAM	12@6	15.74	16.15	18.96	20.18	0.1042
48	30	10	641666	3624.99	CP-OFDM 16 QAM	1@1	15.58	16.07	18.84	20.06	0.1014
48	30	10	641666	3624.99	CP-OFDM 16 QAM	1@22	15.62	16.03	18.84	20.06	0.1014
48	30	10	646332	3694.98	CP-OFDM QPSK	12@6	16.28	16.39	19.35	20.57	0.1140
48	30	10	646332	3694.98	CP-OFDM QPSK	1@1	16.14	16.27	19.22	20.44	0.1107
48	30	10	646332	3694.98	CP-OFDM QPSK	1@22	16.15	16.31	19.24	20.46	0.1112
48	30	10	646332	3694.98	CP-OFDM 16 QAM	12@6	15.76	15.93	18.86	20.08	0.1019
48	30	10	646332	3694.98	CP-OFDM 16 QAM	1@1	15.59	15.79	18.70	19.92	0.0982
48	30	10	646332	3694.98	CP-OFDM 16 QAM	1@22	15.65	15.78	18.73	19.95	0.0989
48	30	15	637168	3557.52	CP-OFDM QPSK	19@9	16.13	16.49	19.32	20.54	0.1132
48	30	15	637168	3557.52	CP-OFDM QPSK	1@1	16.05	16.39	19.23	20.45	0.1109
48	30	15	637168	3557.52	CP-OFDM QPSK	1@36	16.21	16.43	19.33	20.55	0.1135
48	30	15	637168	3557.52	CP-OFDM 16 QAM	19@9	15.8	15.98	18.90	20.12	0.1028
48	30	15	637168	3557.52	CP-OFDM 16 QAM	1@1	15.67	15.91	18.80	20.02	0.1005
48	30	15	637168	3557.52	CP-OFDM 16 QAM	1@36	15.78	15.93	18.87	20.09	0.1021
48	30	15	641666	3624.99	CP-OFDM QPSK	19@9	16.17	16.63	19.42	20.64	0.1159
48	30	15	641666	3624.99	CP-OFDM QPSK	1@1	16.15	16.54	19.36	20.58	0.1143
48	30	15	641666	3624.99	CP-OFDM QPSK	1@36	16.33	16.61	19.48	20.70	0.1175
48	30	15	641666	3624.99	CP-OFDM 16 QAM	19@9	15.84	16.13	19.00	20.22	0.1052



48	30	15	641666	3624.99	CP-OFDM 16 QAM	1@1	15.72	16.04	18.89	20.11	0.1026
48	30	15	641666	3624.99	CP-OFDM 16 QAM	1@36	15.85	16.09	18.98	20.20	0.1047
48	30	15	646166	3692.49	CP-OFDM QPSK	19@9	16.13	16.4	19.28	20.50	0.1122
48	30	15	646166	3692.49	CP-OFDM QPSK	1@1	16.16	16.26	19.22	20.44	0.1107
48	30	15	646166	3692.49	CP-OFDM QPSK	1@36	16.21	16.34	19.29	20.51	0.1125
48	30	15	646166	3692.49	CP-OFDM 16 QAM	19@9	15.79	15.86	18.84	20.06	0.1014
48	30	15	646166	3692.49	CP-OFDM 16 QAM	1@1	15.78	15.76	18.78	20.00	0.1000
48	30	15	646166	3692.49	CP-OFDM 16 QAM	1@36	15.81	15.82	18.83	20.05	0.1012
48	30	20	637334	3560.01	CP-OFDM QPSK	25@12	16.23	16.58	19.42	20.64	0.1159
48	30	20	637334	3560.01	CP-OFDM QPSK	1@1	16.17	16.47	19.33	20.55	0.1135
48	30	20	637334	3560.01	CP-OFDM QPSK	1@49	16.14	16.48	19.32	20.54	0.1132
48	30	20	637334	3560.01	CP-OFDM 16 QAM	25@12	15.77	16.02	18.91	20.13	0.1030
48	30	20	637334	3560.01	CP-OFDM 16 QAM	1@1	15.69	15.96	18.84	20.06	0.1014
48	30	20	637334	3560.01	CP-OFDM 16 QAM	1@49	15.71	15.98	18.86	20.08	0.1019
48	30	20	641666	3624.99	CP-OFDM QPSK	25@12	16.27	16.68	19.49	20.71	0.1178
48	30	20	641666	3624.99	CP-OFDM QPSK	1@1	16.17	16.55	19.37	20.59	0.1146
48	30	20	641666	3624.99	CP-OFDM QPSK	1@49	16.34	16.53	19.45	20.67	0.1167
48	30	20	641666	3624.99	CP-OFDM 16 QAM	25@12	15.75	16.16	18.97	20.19	0.1045
48	30	20	641666	3624.99	CP-OFDM 16 QAM	1@1	15.74	16.1	18.93	20.15	0.1035
48	30	20	641666	3624.99	CP-OFDM 16 QAM	1@49	15.9	16.03	18.98	20.20	0.1047
48	30	20	646000	3690	CP-OFDM QPSK	25@12	16.18	16.32	19.26	20.48	0.1117
48	30	20	646000	3690	CP-OFDM QPSK	1@1	16.29	16.24	19.28	20.50	0.1122
48	30	20	646000	3690	CP-OFDM QPSK	1@49	16.15	16.3	19.24	20.46	0.1112
48	30	20	646000	3690	CP-OFDM 16 QAM	25@12	15.73	15.84	18.80	20.02	0.1005
48	30	20	646000	3690	CP-OFDM 16 QAM	1@1	15.78	15.74	18.77	19.99	0.0998
48	30	20	646000	3690	CP-OFDM 16 QAM	1@49	15.75	15.78	18.78	20.00	0.1000
48	30	30	637668	3565.02	CP-OFDM QPSK	39@19	16.21	16.52	19.38	20.60	0.1148
48	30	30	637668	3565.02	CP-OFDM QPSK	1@1	16.16	16.5	19.34	20.56	0.1138
48	30	30	637668	3565.02	CP-OFDM QPSK	1@76	15.85	16.41	19.15	20.37	0.1089
48	30	30	637668	3565.02	CP-OFDM 16 QAM	39@19	15.72	16.08	18.91	20.13	0.1030
48	30	30	637668	3565.02	CP-OFDM 16 QAM	1@1	15.74	16.05	18.91	20.13	0.1030
48	30	30	637668	3565.02	CP-OFDM 16 QAM	1@76	15.31	15.96	18.66	19.88	0.0973
48	30	30	641666	3624.99	CP-OFDM QPSK	39@19	16.31	16.7	19.52	20.74	0.1186
48	30	30	641666	3624.99	CP-OFDM QPSK	1@1	16.2	16.61	19.42	20.64	0.1159
48	30	30	641666	3624.99	CP-OFDM QPSK	1@76	16.44	16.55	19.51	20.73	0.1183



48	30	30	641666	3624.99	CP-OFDM 16 QAM	39@19	15.8	16.24	19.04	20.26	0.1062
48	30	30	641666	3624.99	CP-OFDM 16 QAM	1@1	15.8	16.16	18.99	20.21	0.1050
48	30	30	641666	3624.99	CP-OFDM 16 QAM	1@76	15.96	16.09	19.04	20.26	0.1062
48	30	30	645666	3684.99	CP-OFDM QPSK	39@19	16.4	16.45	19.44	20.66	0.1164
48	30	30	645666	3684.99	CP-OFDM QPSK	1@1	16.64	16.42	19.54	20.76	0.1191
48	30	30	645666	3684.99	CP-OFDM QPSK	1@76	16.32	16.45	19.40	20.62	0.1153
48	30	30	645666	3684.99	CP-OFDM 16 QAM	39@19	15.9	15.98	18.95	20.17	0.1040
48	30	30	645666	3684.99	CP-OFDM 16 QAM	1@1	16.19	15.88	19.05	20.27	0.1064
48	30	30	645666	3684.99	CP-OFDM 16 QAM	1@76	15.85	15.9	18.89	20.11	0.1026
48	30	40	638000	3570	CP-OFDM QPSK	53@26	16.13	16.61	19.39	20.61	0.1151
48	30	40	638000	3570	CP-OFDM QPSK	1@1	16.23	16.59	19.42	20.64	0.1159
48	30	40	638000	3570	CP-OFDM QPSK	1@104	15.88	16.51	19.22	20.44	0.1107
48	30	40	638000	3570	CP-OFDM 16 QAM	53@26	15.67	16.14	18.92	20.14	0.1033
48	30	40	638000	3570	CP-OFDM 16 QAM	1@1	15.81	16.17	19.00	20.22	0.1052
48	30	40	638000	3570	CP-OFDM 16 QAM	1@104	15.41	16.1	18.78	20.00	0.1000
48	30	40	638000	3570	CP-OFDM 64 QAM	53@26	14.1	14.66	17.40	18.62	0.0728
48	30	40	638000	3570	CP-OFDM 64 QAM	1@1	14.26	14.58	17.43	18.65	0.0733
48	30	40	638000	3570	CP-OFDM 64 QAM	1@104	13.92	14.56	17.26	18.48	0.0705
48	30	40	638000	3570	CP-OFDM 256 QAM	53@26	11.13	11.63	14.40	15.62	0.0365
48	30	40	638000	3570	CP-OFDM 256 QAM	1@1	11.34	11.87	14.62	15.84	0.0384
48	30	40	638000	3570	CP-OFDM 256 QAM	1@104	10.97	11.81	14.42	15.64	0.0366
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	16.29	16.69	19.50	20.72	0.1180
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	16.17	16.61	19.41	20.63	0.1156
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	16.55	16.53	19.55	20.77	0.1194
48	30	40	641666	3624.99	CP-OFDM 16 QAM	53@26	15.82	16.26	19.06	20.28	0.1067
48	30	40	641666	3624.99	CP-OFDM 16 QAM	1@1	15.71	16.09	18.91	20.13	0.1030
48	30	40	641666	3624.99	CP-OFDM 16 QAM	1@104	16.09	16.09	19.10	20.32	0.1076
48	30	40	641666	3624.99	CP-OFDM 64 QAM	53@26	14.29	14.72	17.52	18.74	0.0748
48	30	40	641666	3624.99	CP-OFDM 64 QAM	1@1	14.22	14.55	17.40	18.62	0.0728
48	30	40	641666	3624.99	CP-OFDM 64 QAM	1@104	14.61	14.52	17.58	18.80	0.0759
48	30	40	641666	3624.99	CP-OFDM 256 QAM	53@26	11.3	11.7	14.51	15.73	0.0374
48	30	40	641666	3624.99	CP-OFDM 256 QAM	1@1	11.25	11.85	14.57	15.79	0.0379
48	30	40	641666	3624.99	CP-OFDM 256 QAM	1@104	11.7	11.8	14.76	15.98	0.0396



48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	16.44	16.38	19.42	20.64	0.1159
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	16.77	16.31	19.56	20.78	0.1197
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	16.26	16.37	19.33	20.55	0.1135
48	30	40	645332	3679.98	CP-OFDM 16 QAM	53@26	15.99	15.9	18.96	20.18	0.1042
48	30	40	645332	3679.98	CP-OFDM 16 QAM	1@1	16.39	15.8	19.12	20.34	0.1081
48	30	40	645332	3679.98	CP-OFDM 16 QAM	1@104	15.74	15.84	18.80	20.02	0.1005
48	30	40	645332	3679.98	CP-OFDM 64 QAM	53@26	14.43	14.38	17.42	18.64	0.0731
48	30	40	645332	3679.98	CP-OFDM 64 QAM	1@1	14.83	14.26	17.56	18.78	0.0755
48	30	40	645332	3679.98	CP-OFDM 64 QAM	1@104	14.29	14.33	17.32	18.54	0.0714
48	30	40	645332	3679.98	CP-OFDM 256 QAM	53@26	11.45	11.34	14.41	15.63	0.0366
48	30	40	645332	3679.98	CP-OFDM 256 QAM	1@1	11.89	11.55	14.73	15.95	0.0394
48	30	40	645332	3679.98	CP-OFDM 256 QAM	1@104	11.33	11.63	14.49	15.71	0.0372

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Shunping You	Temperature :	22~25°C
		Relative Humidity :	48~52%

SA n48 / 40MHz / QPSK / ANT5									
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)
Middle	7154.00	-60.14	-40	-20.14	-56.20	-63.44	8.30	11.60	H
	10731.00	-55.12	-40	-15.12	-56.94	-56.64	10.48	12.00	H
	14308.00	-48.94	-40	-8.94	-56.37	-50.64	11.80	13.50	H
	7154.00	-60.26	-40	-20.26	-56.4	-63.56	8.30	11.60	V
	10731.00	-55.47	-40	-15.47	-57.12	-56.99	10.48	12.00	V
	14308.00	-49.28	-40	-9.28	-56.45	-50.98	11.80	13.50	V

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

SA n48 UL MIMO / 40MHz / QPSK / ANT5+6									
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)
Middle	7212.00	-58.47	-40	-18.47	-54.79	-61.77	8.30	11.60	H
	10818.00	-54.70	-40	-14.70	-57.08	-56.22	10.48	12.00	H
	14424.00	-49.10	-40	-9.10	-56.91	-50.80	11.80	13.50	H
	7212.00	-59.48	-40	-19.48	-55.84	-62.78	8.30	11.60	V
	10818.00	-54.93	-40	-14.93	-57.09	-56.45	10.48	12.00	V
	14424.00	-49.25	-40	-9.25	-56.84	-50.95	11.80	13.50	V

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