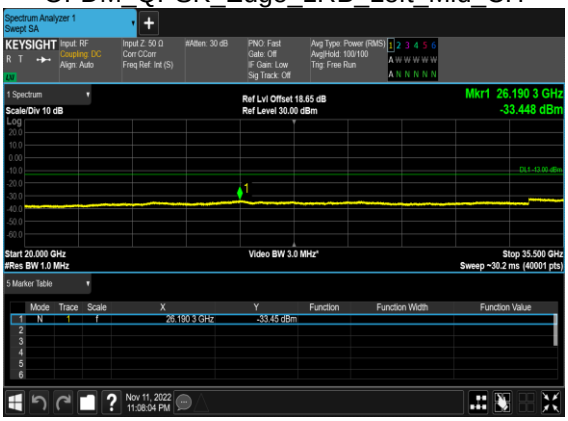
N77(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH

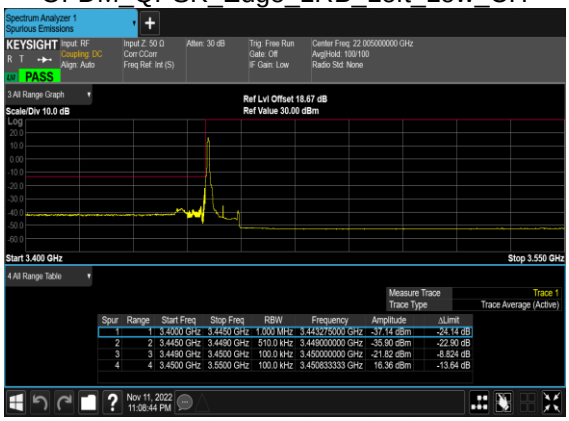
N77(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



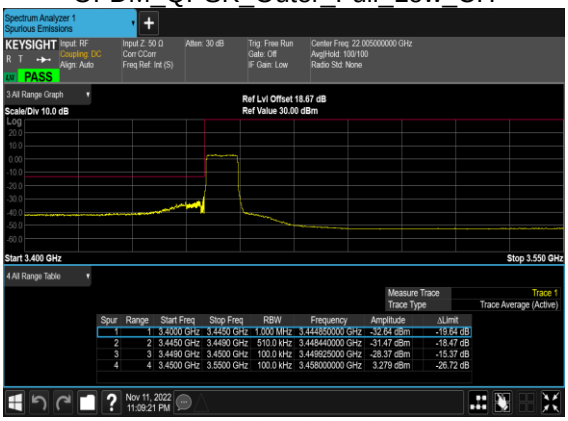
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	630334	3455.01	CP-OFDM QPSK	24@0	see graph	**PASS**
77	30	10	636332	3544.98	CP-OFDM QPSK	1@23	see graph	**PASS**
77	30	10	636332	3544.98	CP-OFDM QPSK	24@0	see graph	**PASS**
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	CP-OFDM QPSK	133@0	see graph	**PASS**
77	30	50	635000	3525.0	CP-OFDM QPSK	1@132	see graph	**PASS**
77	30	50	635000	3525.0	CP-OFDM QPSK	133@0	see graph	**PASS**
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	CP-OFDM QPSK	1@272	see graph	**PASS**
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	see graph	**PASS**

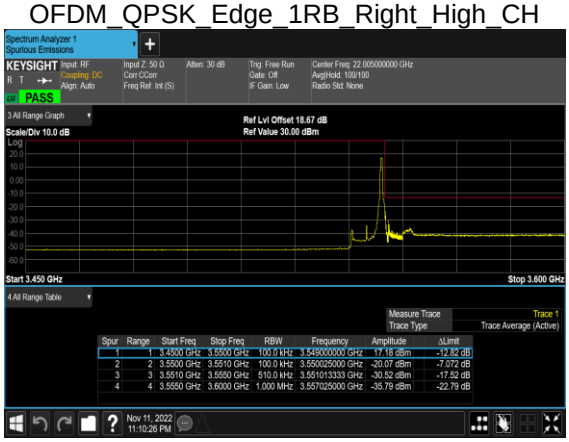
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



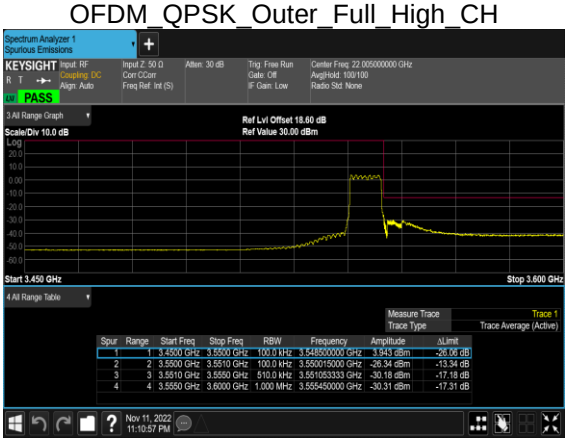
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



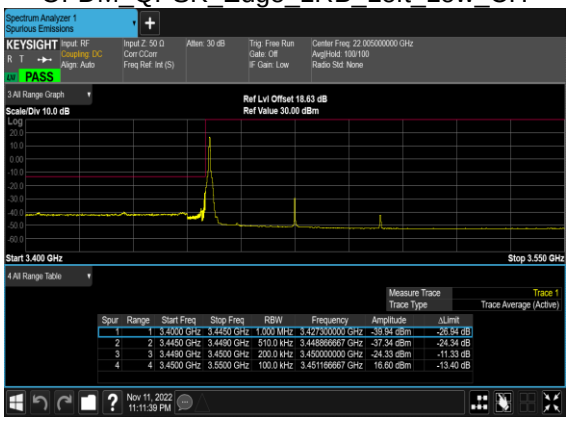
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



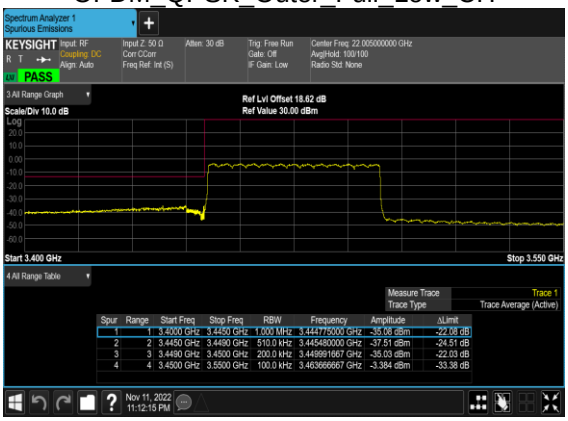
N77(10M)_CP-
OFDM_QPSK_Outer_Full_High_CH



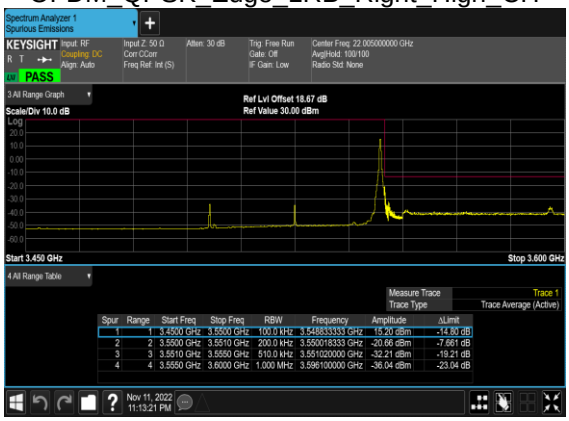
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



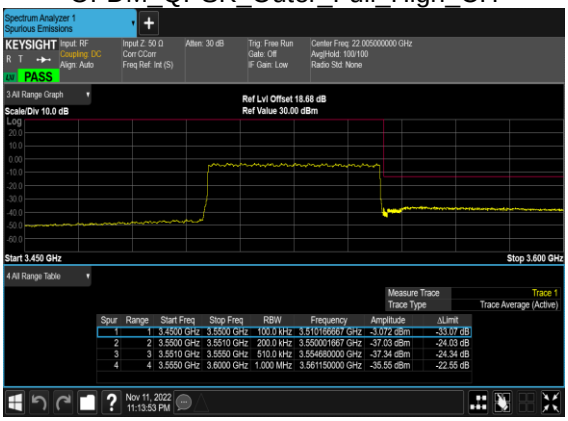
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



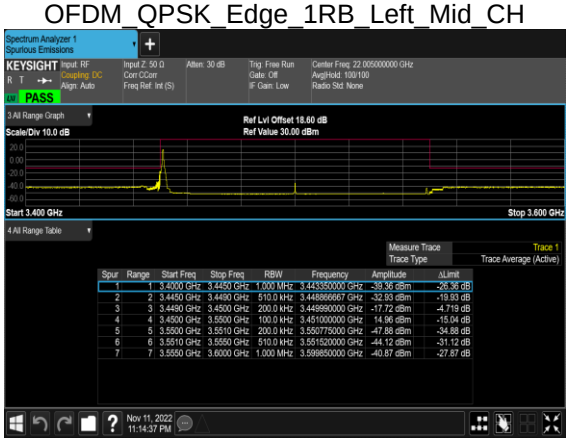
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



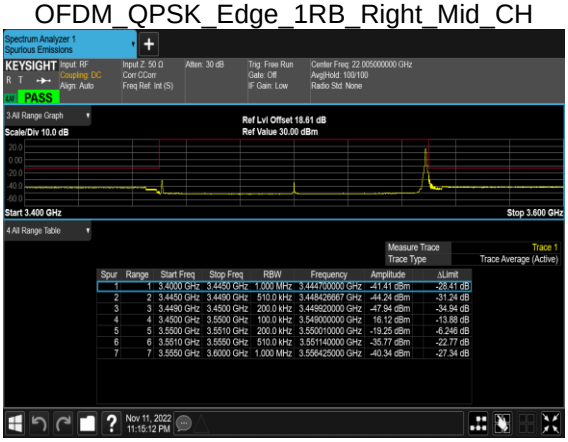
N77(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH



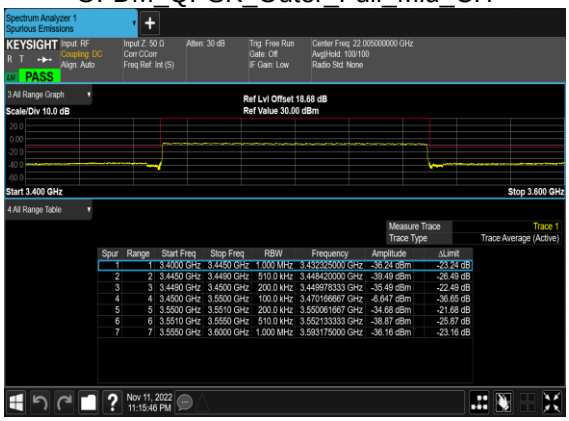
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



Software Version: 22.09.0601

FR1 N77 MIMO-ANT10

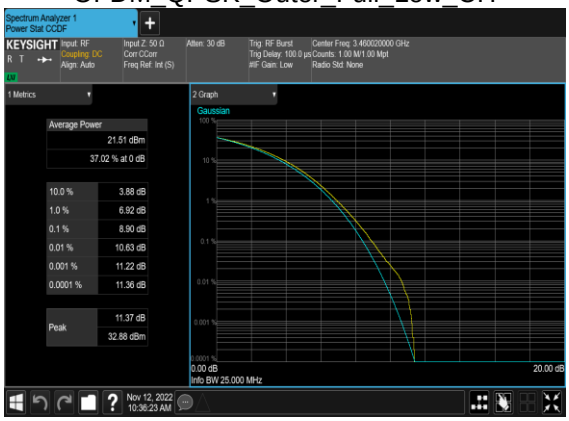
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0047	**PASS**	NV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0066	**PASS**	LV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0049	**PASS**	HV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0053	**PASS**	-30℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0060	**PASS**	-20℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0025	**PASS**	-10℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0044	**PASS**	0℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0056	**PASS**	10℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0047	**PASS**	20℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0064	**PASS**	30℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0036	**PASS**	40℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0020	**PASS**	50℃

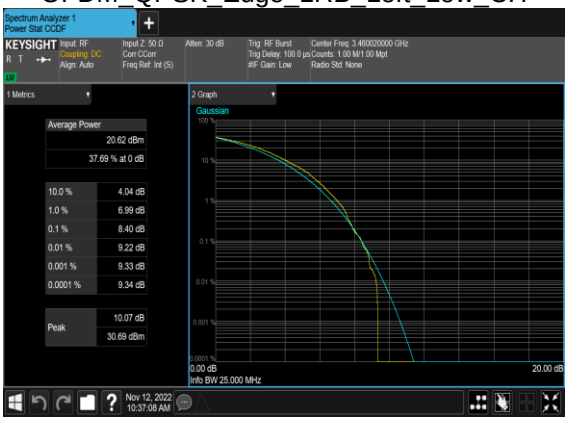
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	51@0	8.9	13	**PASS**
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	8.4	13	**PASS**
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	8.89	13	**PASS**
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	8.32	13	**PASS**
77	30	20	636000	3540.0	CP-OFDM QPSK	51@0	9.07	13	**PASS**
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	8.17	13	**PASS**

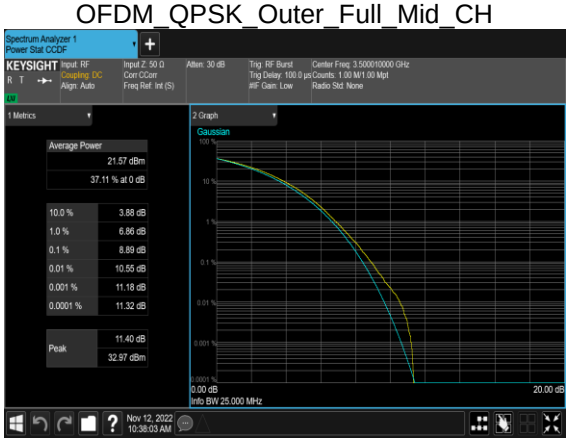
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



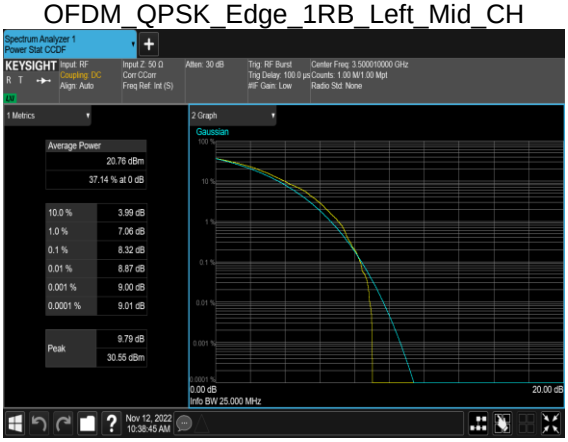
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



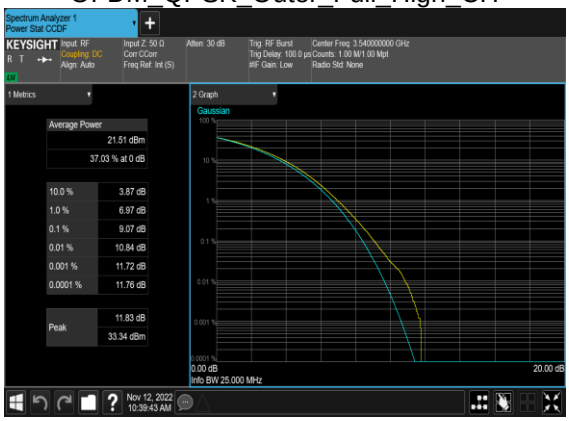
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



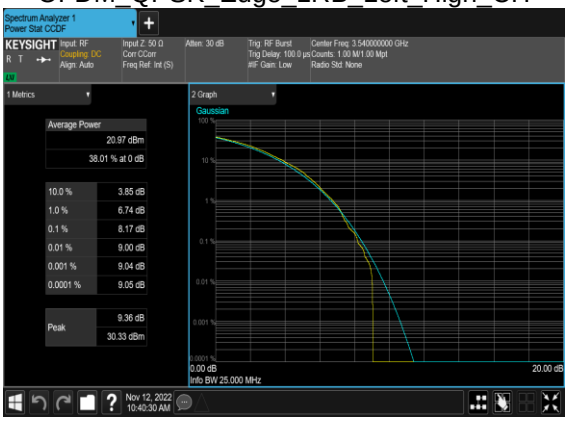
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

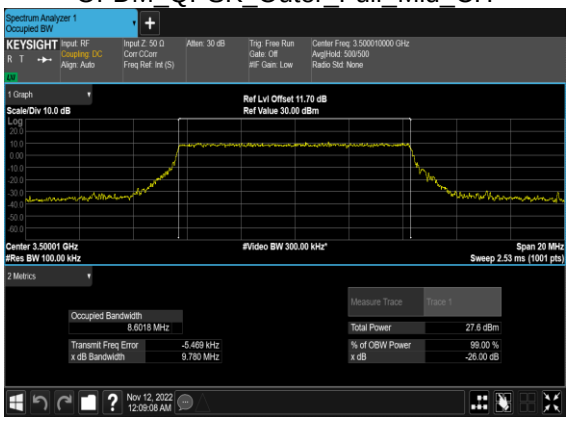


Occupied Bandwidth

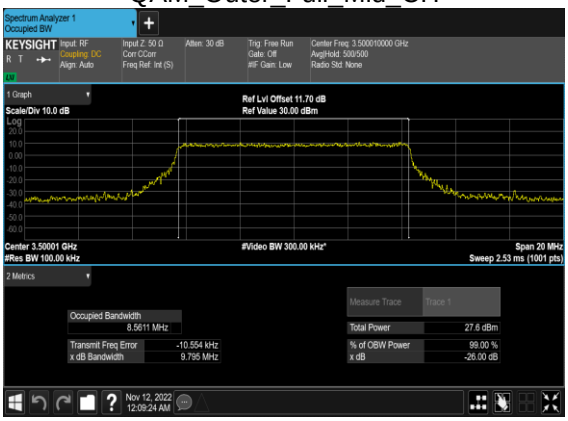
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.6018	9.78
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5611	9.795
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5695	9.885
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5673	9.479
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.558	14.75
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.565	14.92
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.578	14.95
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.547	14.96
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.227	19.64
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.188	19.67
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.216	19.61
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.187	19.16
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.799	29.34
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.809	29.24
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.834	29.42
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.777	28.94
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.826	39.69
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.801	39.63
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.823	39.44
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.836	39.74
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.398	49.74
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.494	49.27
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.498	49.19
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.51	49.43
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.795	60.14
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.907	59.99
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.794	60.31
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.817	59.97
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.483	69.83
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.55	70.34
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.469	69.63
77	30	70	633334	3500.01	CP-OFDM	189@0	67.514	69.53

					256 QAM			
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.625	80.41
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.465	80.05
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.502	80.0
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.49	80.36
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.491	90.35
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.463	90.36
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.504	90.06
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.418	90.49
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.555	100.6
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.267	100.6
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.298	100.7
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	96.994	100.4

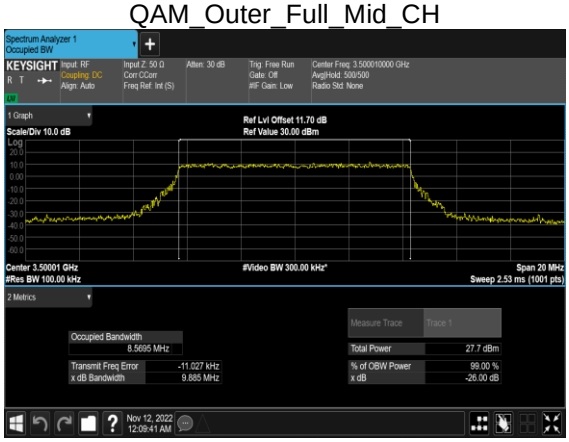
N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



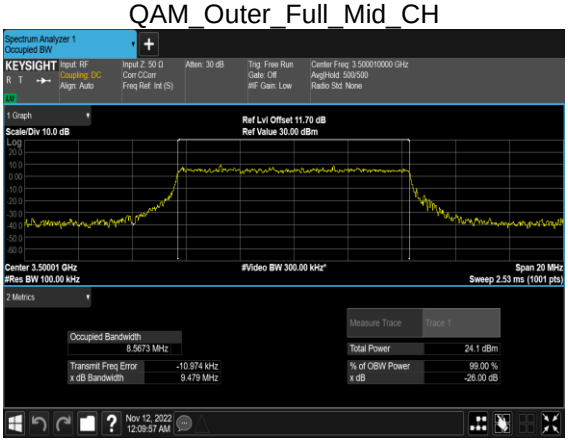
N77(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



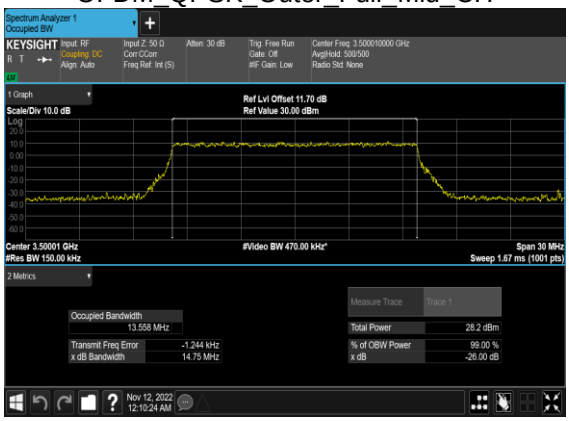
N77(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



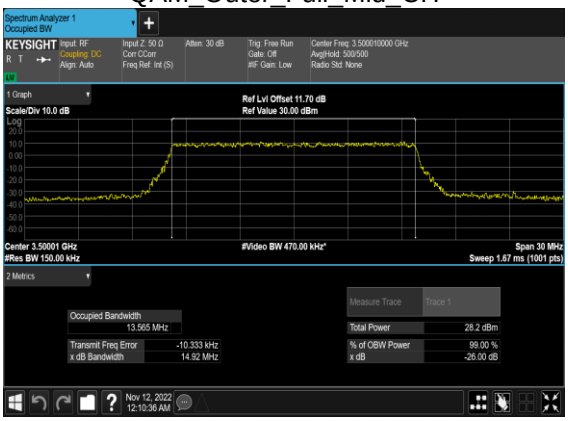
N77(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



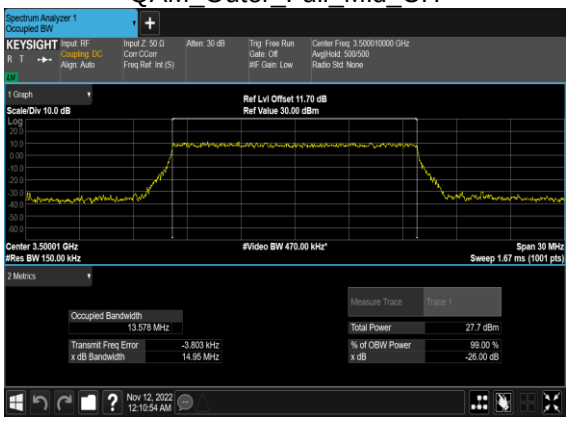
N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



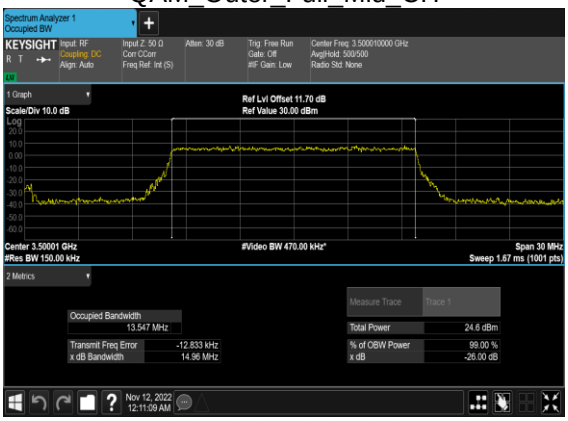
N77(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



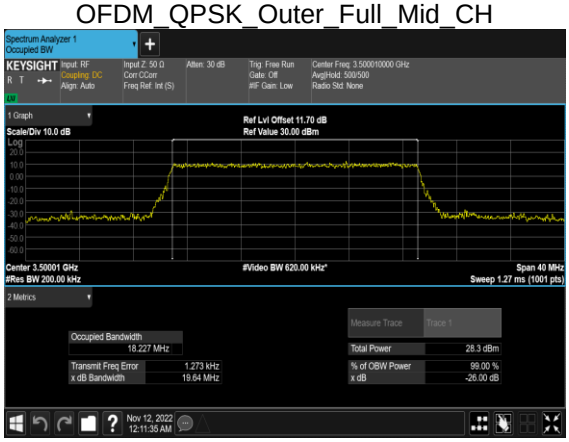
N77(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



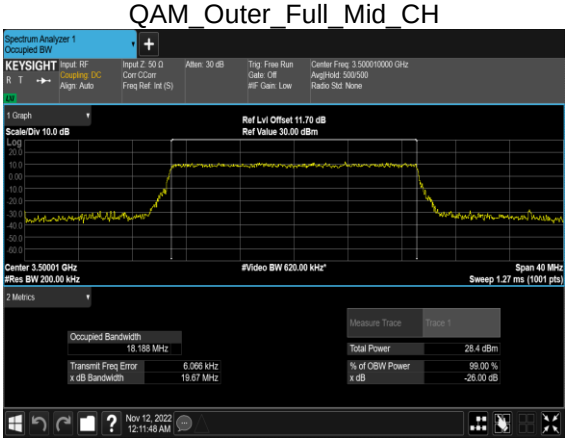
N77(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



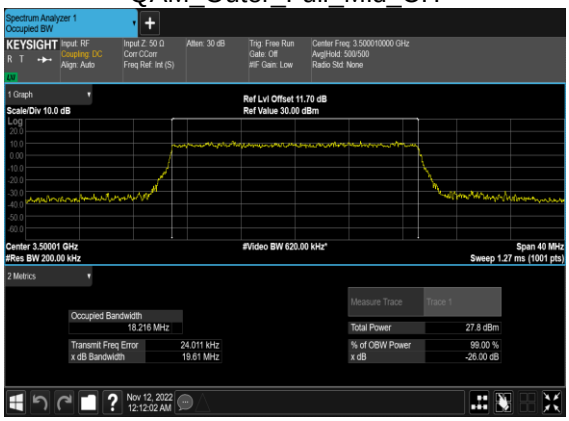
N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



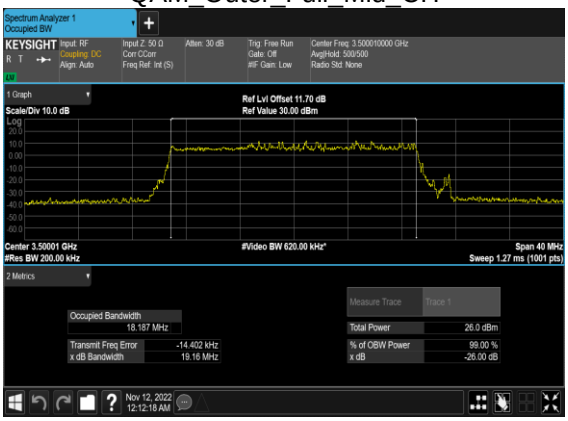
N77(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



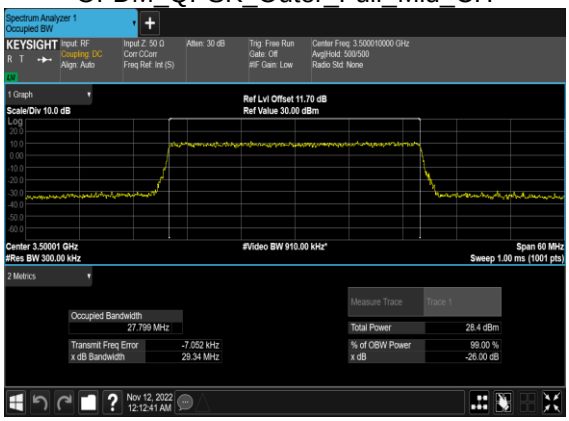
N77(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



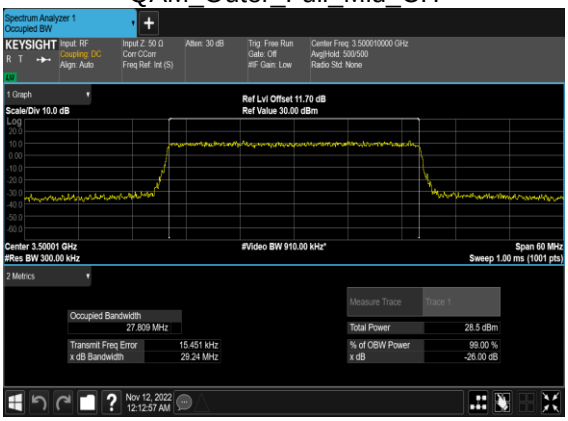
N77(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



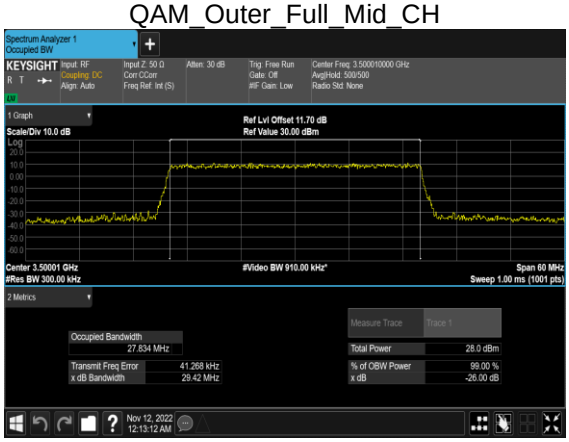
N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



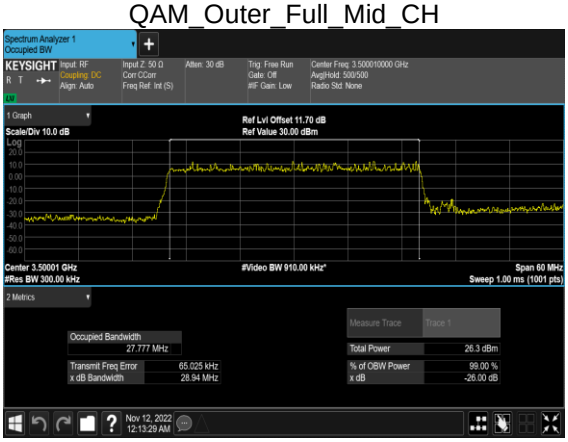
N77(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



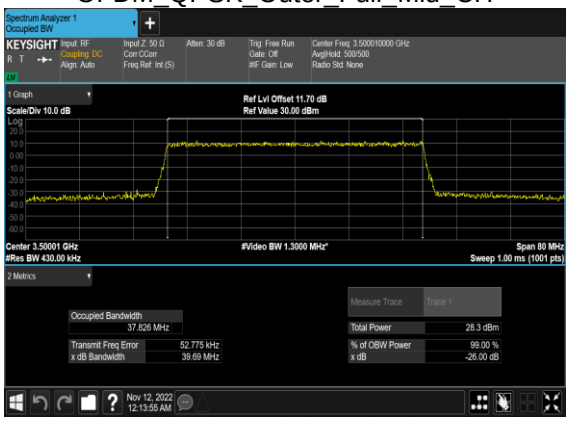
N77(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



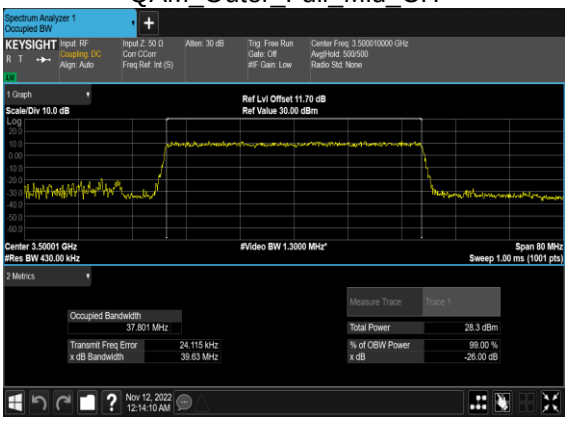
N77(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



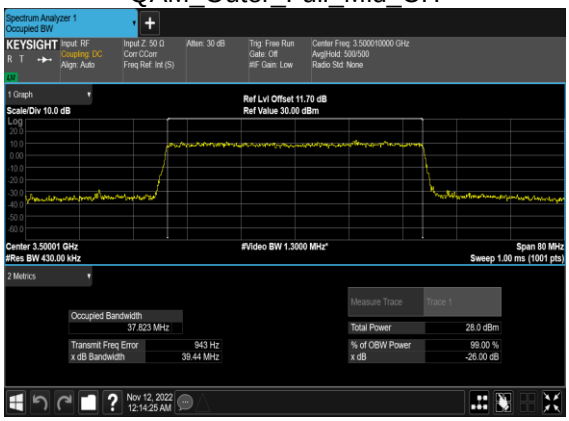
N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



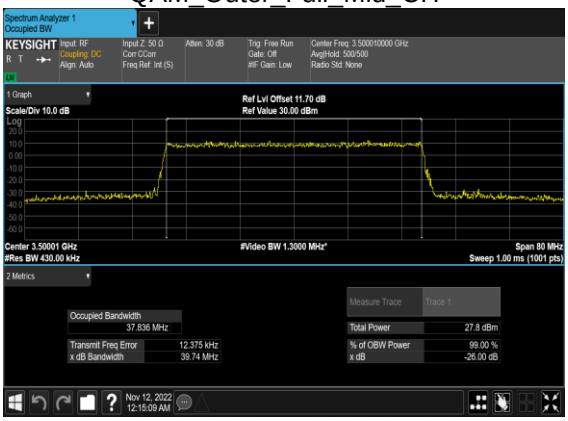
N77(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



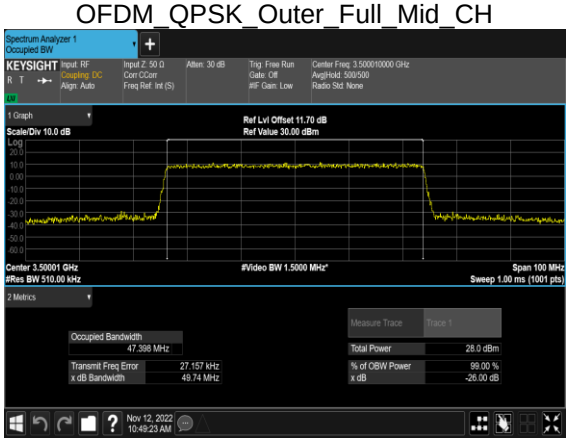
N77(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



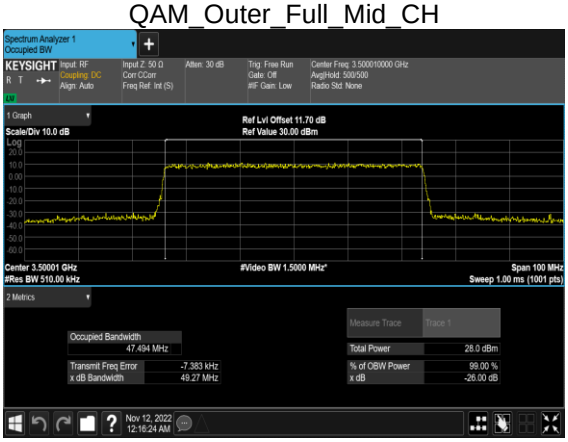
N77(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



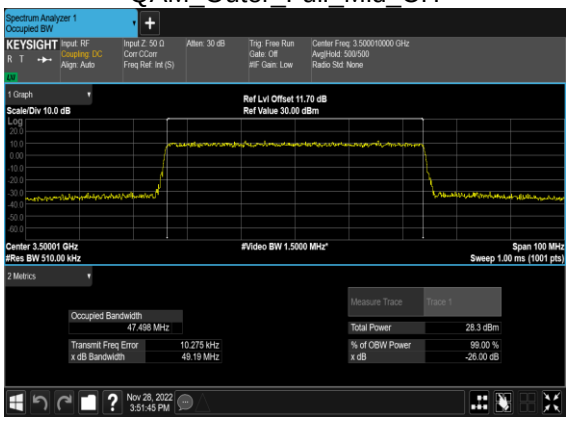
N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



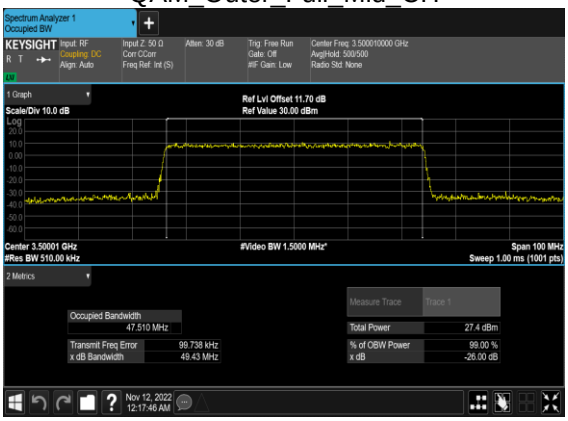
N77(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



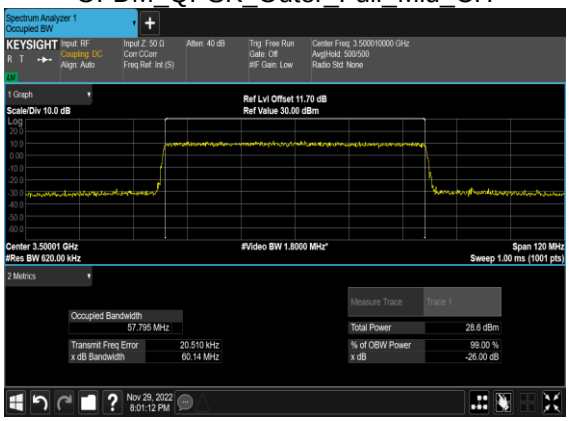
N77(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



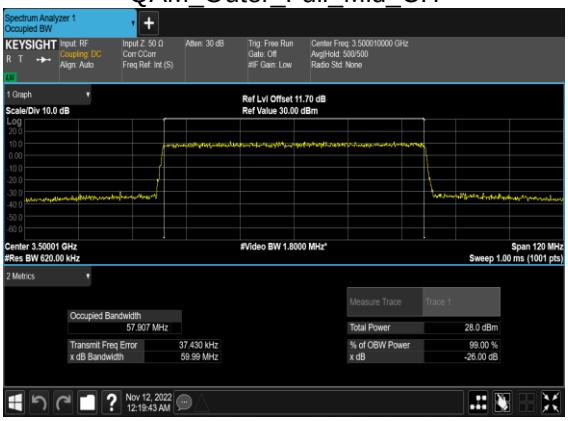
N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



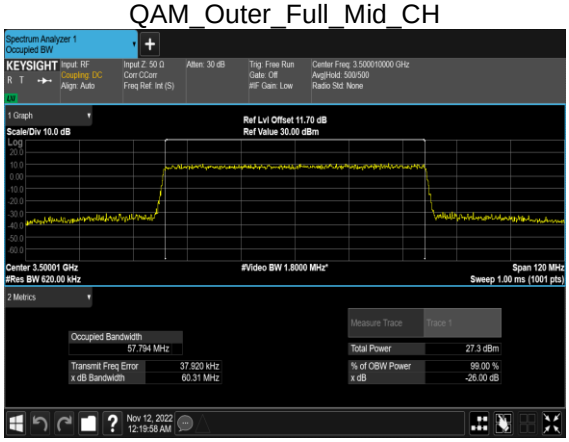
N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



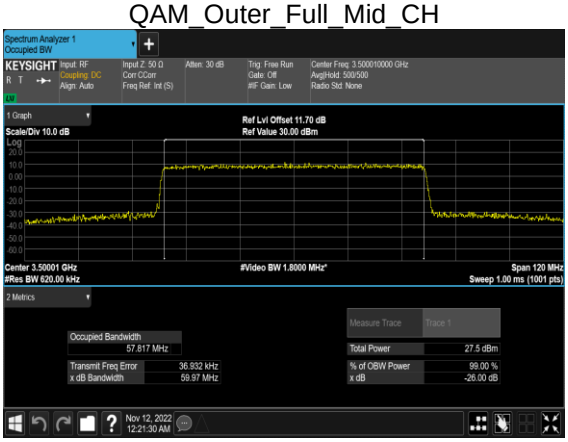
N77(60M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



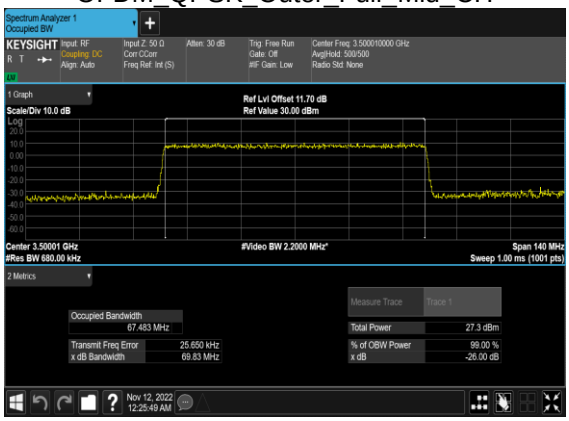
N77(60M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



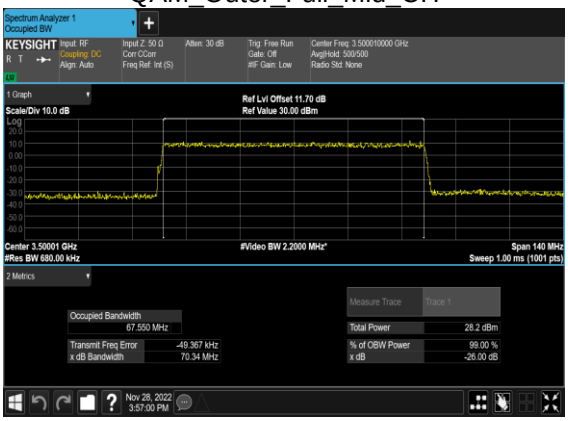
N77(60M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



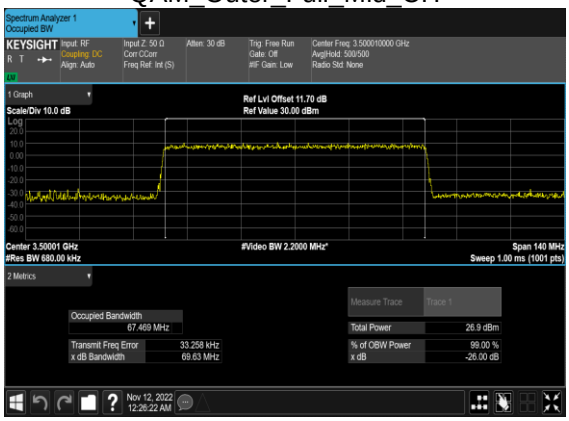
N77(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



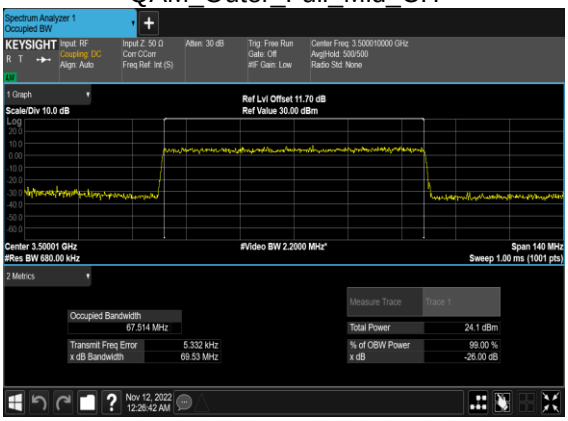
N77(70M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



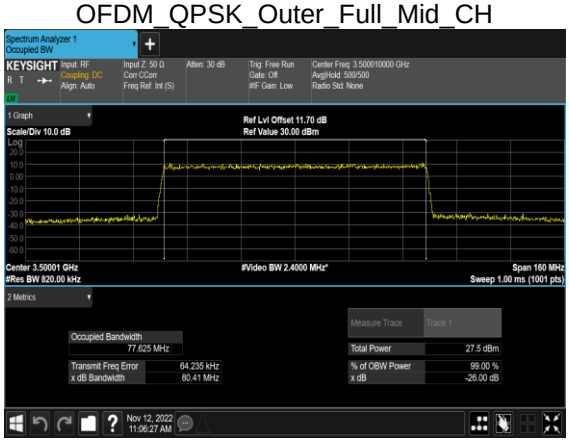
N77(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



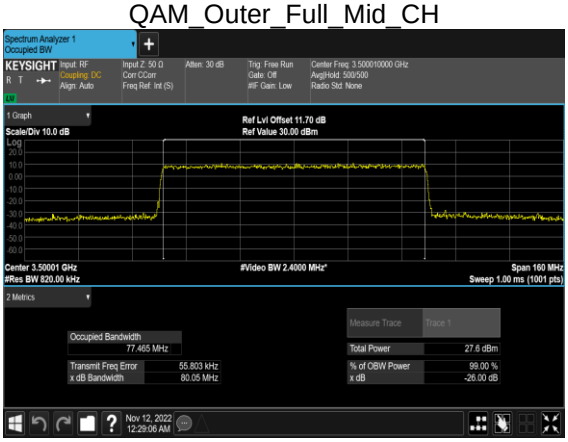
N77(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



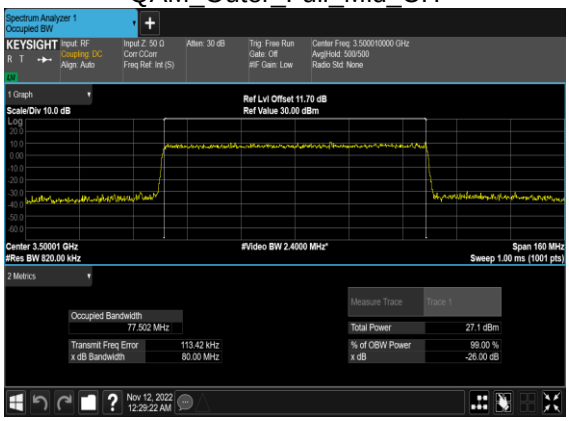
N77(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



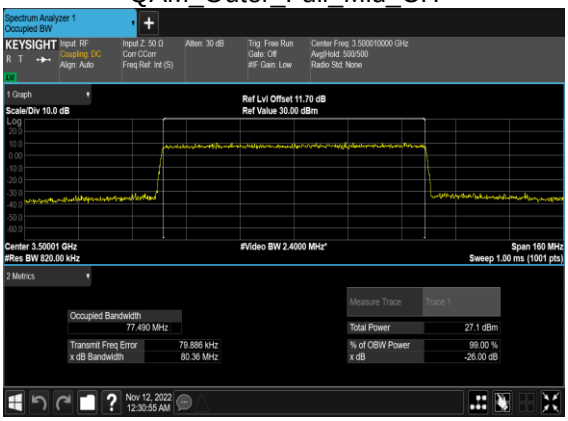
N77(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



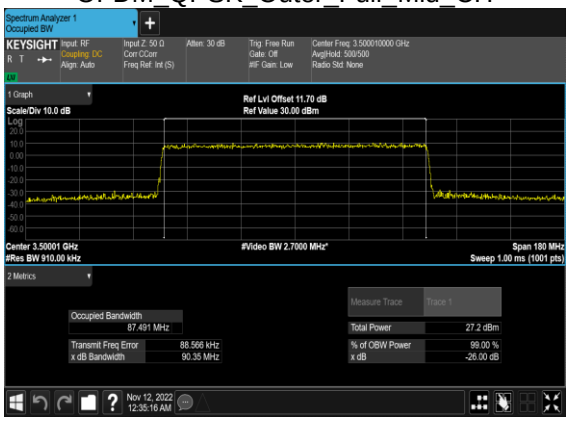
N77(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



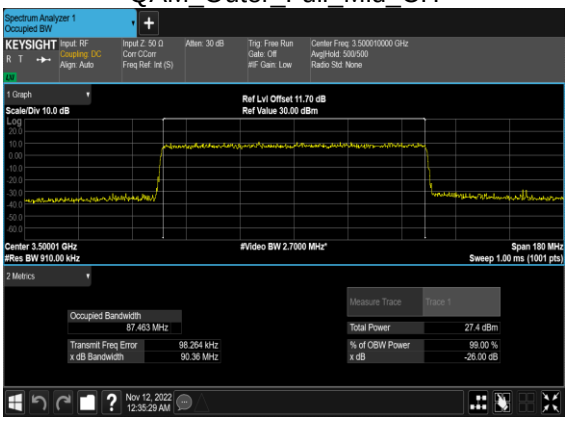
N77(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



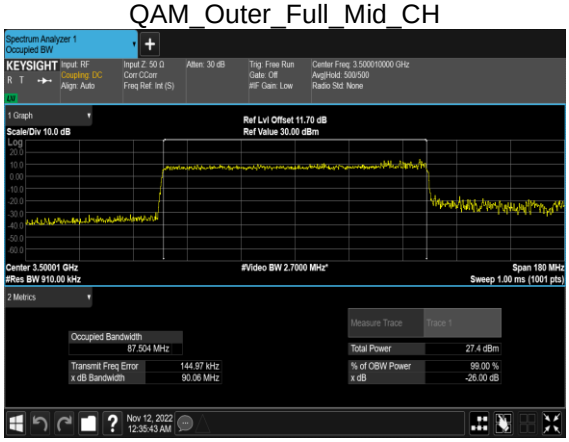
N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



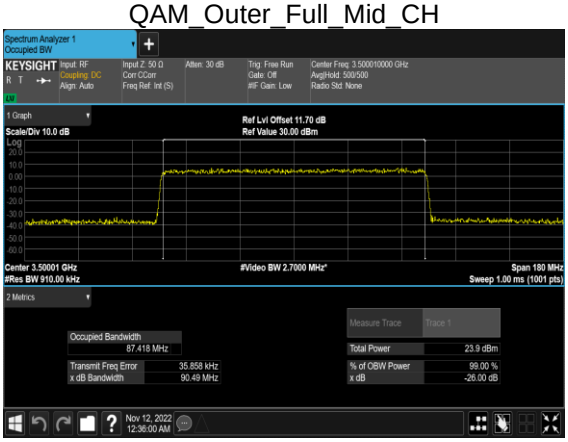
N77(90M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



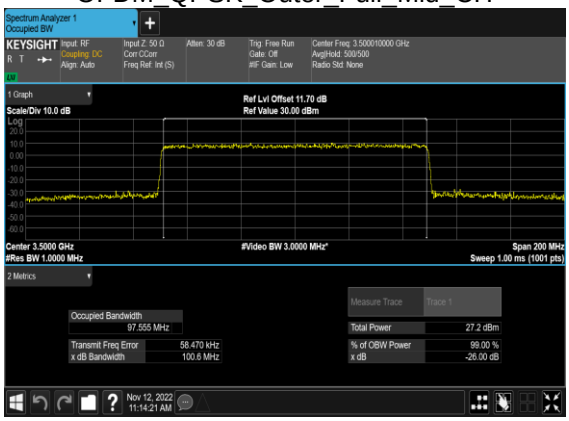
N77(90M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



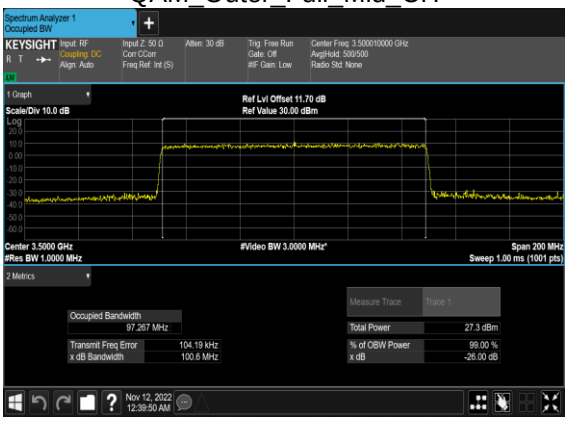
N77(90M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



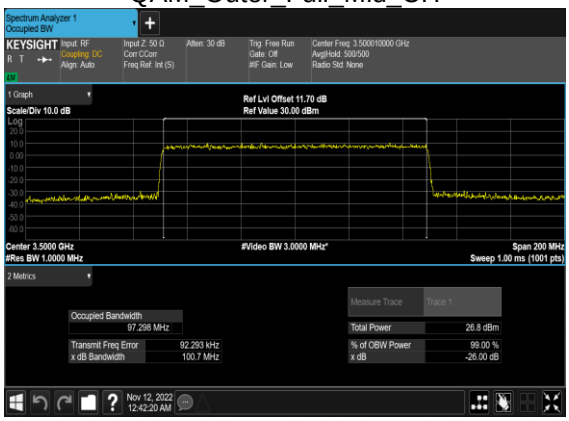
N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



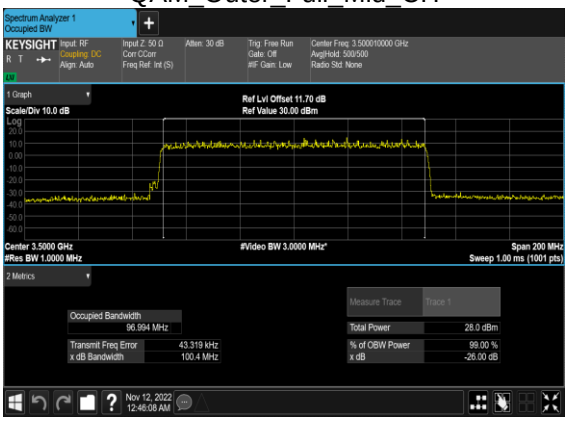
N77(100M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



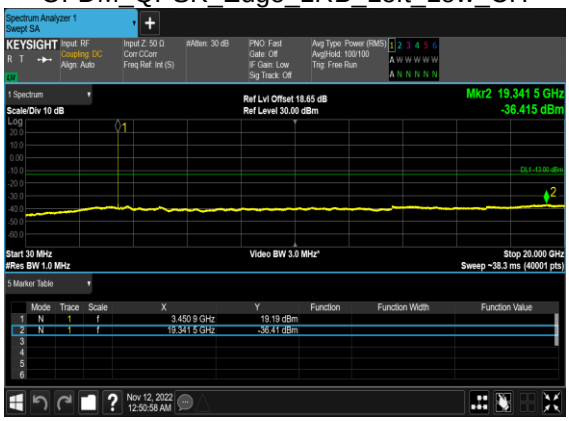
N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



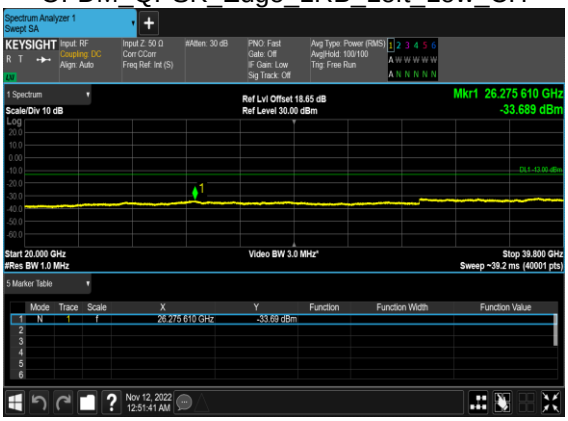
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	**---**
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**---**
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	**---**
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	**---**
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**---**
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	**---**
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**---**
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**

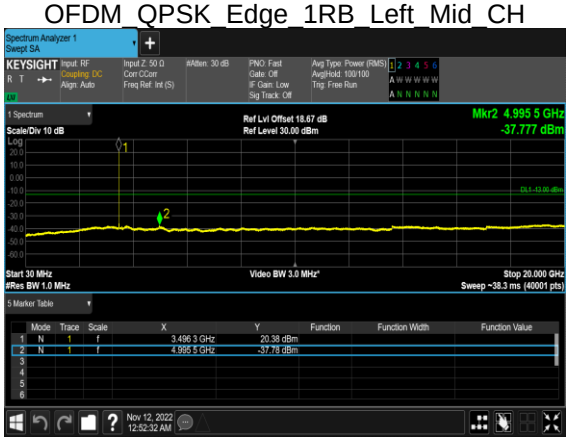
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



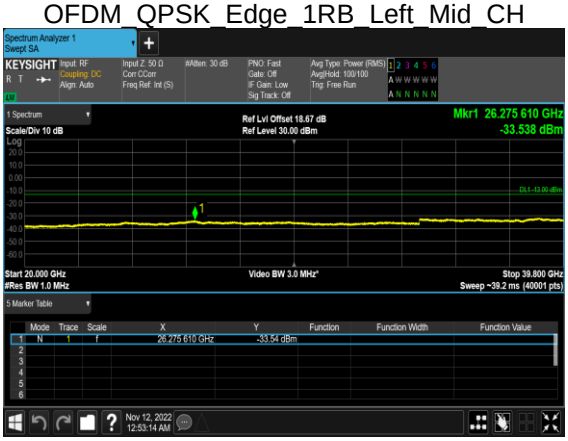
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

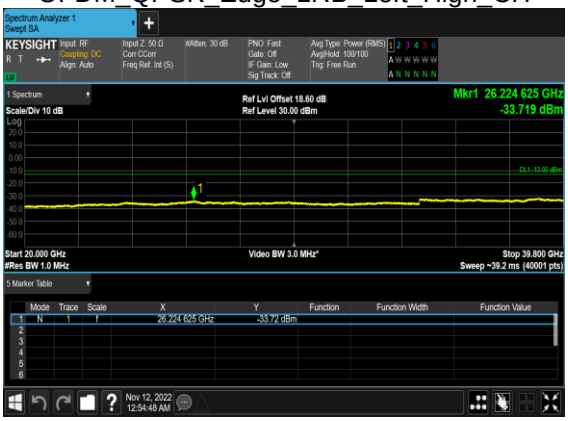


N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



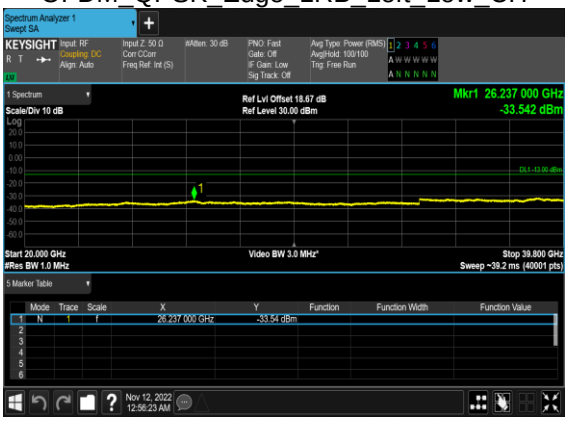
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

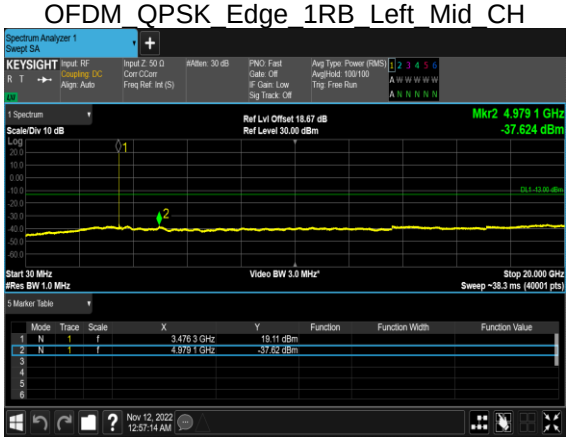


N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

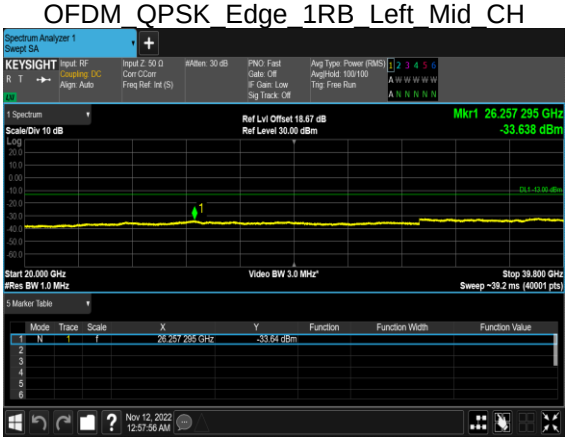
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



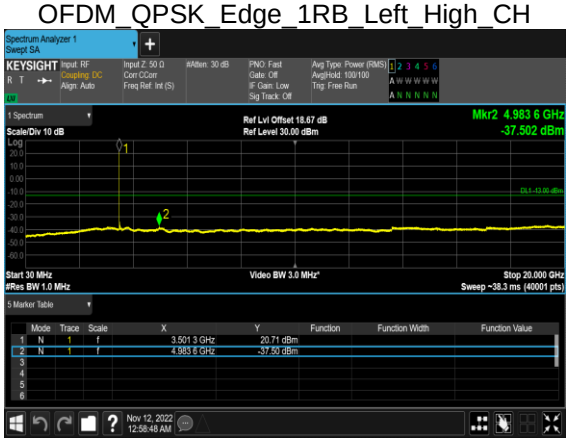
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



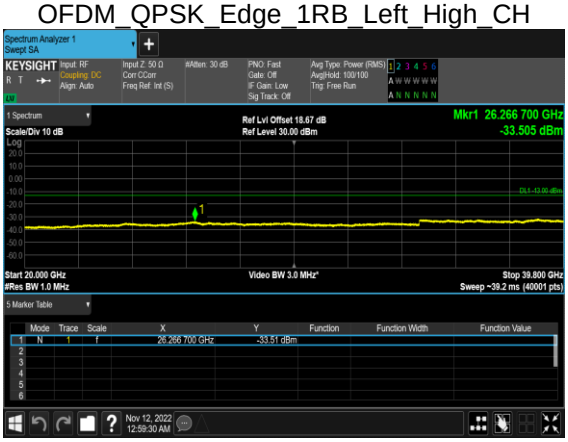
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

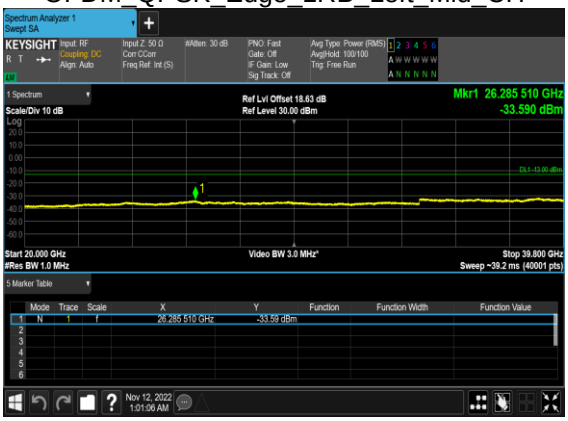


N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N77(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH

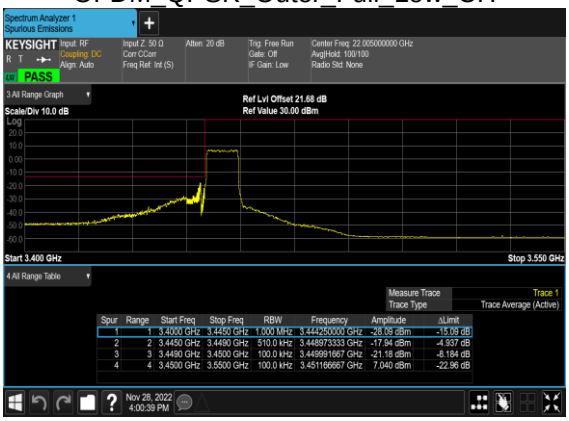


Conducted Band Edge

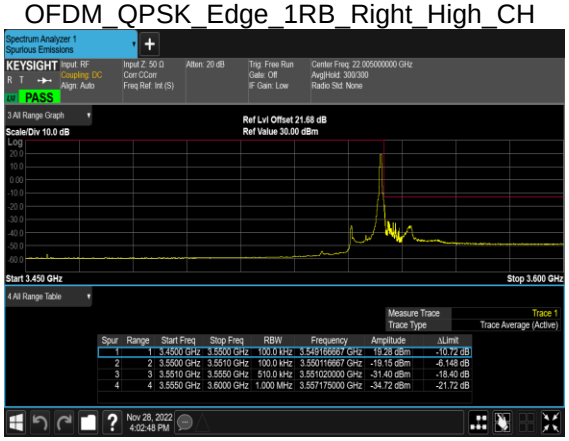
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	630334	3455.01	CP-OFDM QPSK	24@0	see graph	**PASS**
77	30	10	636332	3544.98	CP-OFDM QPSK	1@23	see graph	**PASS**
77	30	10	636332	3544.98	CP-OFDM QPSK	24@0	see graph	**PASS**
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	CP-OFDM QPSK	133@0	see graph	**PASS**
77	30	50	635000	3525.0	CP-OFDM QPSK	1@132	see graph	**PASS**
77	30	50	635000	3525.0	CP-OFDM QPSK	133@0	see graph	**PASS**
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	CP-OFDM QPSK	1@272	see graph	**PASS**
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	see graph	**PASS**

N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

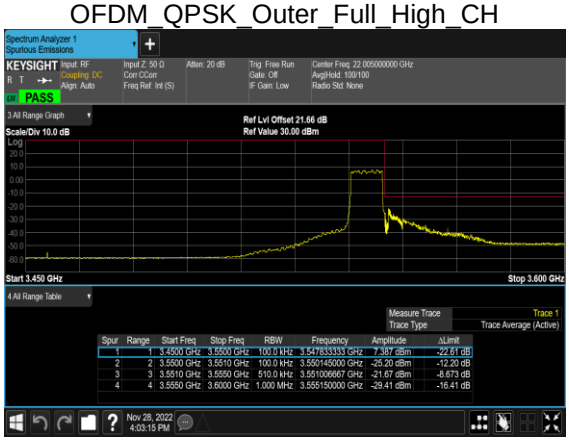
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



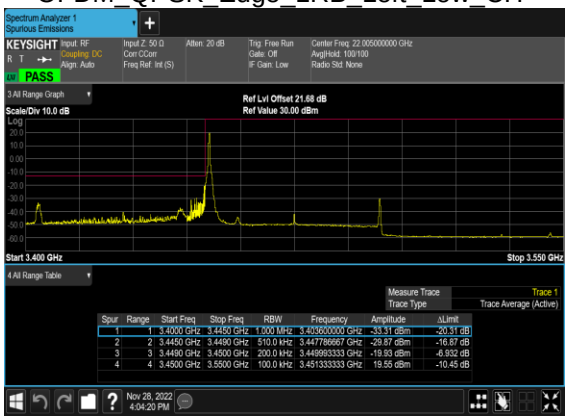
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



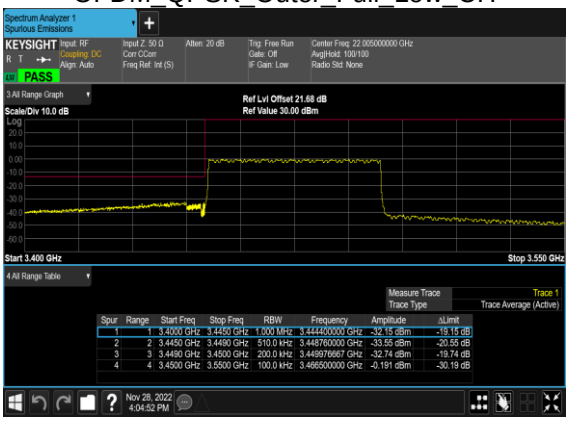
N77(10M)_CP-
OFDM_QPSK_Outer_Full_High_CH



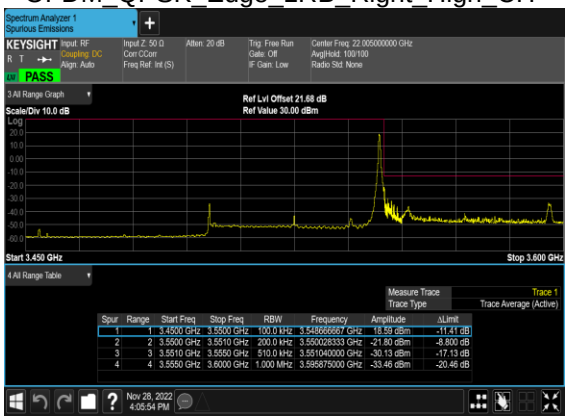
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



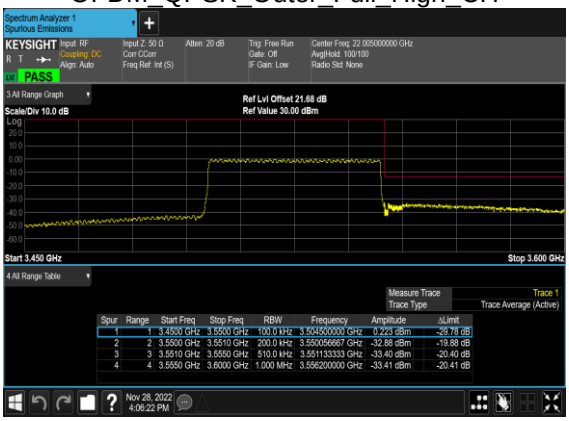
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

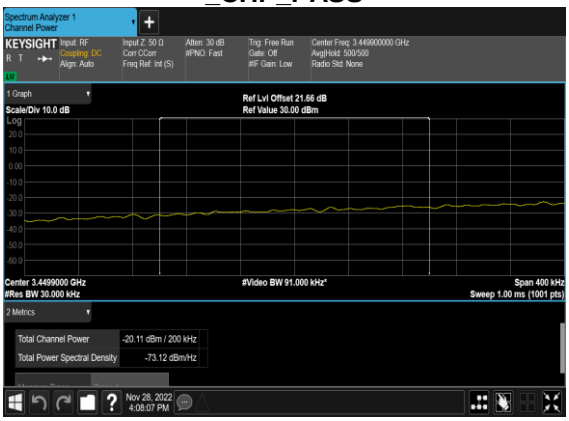


N77(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH



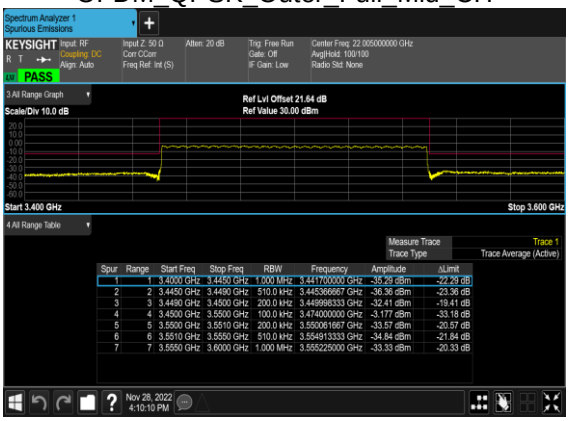
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH
_CHP_PASS



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



Software Version: 22.09.0601

FR1 N78(ANT6)

Transmitter Conducted Output Power and EIRP, (G_T - L_C)=-2dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	25.01	23.01	0.2000
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	24.09	22.09	0.1618
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.17	23.17	0.2075
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.26	22.26	0.1683
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.12	23.12	0.2051
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.16	22.16	0.1644
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.14	23.14	0.2061
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	24.25	22.25	0.1679
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.29	23.29	0.2133
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.35	22.35	0.1718
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.26	23.26	0.2118
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.42	22.42	0.1746
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.23	23.23	0.2104
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.31	22.31	0.1702
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.22	23.22	0.2099
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.51	22.51	0.1782
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.28	23.28	0.2128
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.36	22.36	0.1722
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.27	23.27	0.2123
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.43	22.43	0.1750
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.21	23.21	0.2094
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.28	22.28	0.1690
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.22	23.22	0.2099
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.41	22.41	0.1742
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.03	23.03	0.2009
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.11	22.11	0.1626
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.13	23.13	0.2056
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.16	22.16	0.1644
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.13	23.13	0.2056
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.23	22.23	0.1671
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.11	23.11	0.2046
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.22	22.22	0.1667
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.17	23.17	0.2075
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.29	22.29	0.1694

78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.24	23.24	0.2109
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.33	22.33	0.1710
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.05	23.05	0.2018
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.06	22.06	0.1607
78	30	70	633334	3485.01	DFT-s-OFDM QPSK	1@1	24.96	22.96	0.1977
78	30	70	633334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.04	22.04	0.1600
78	30	70	634332	3485.01	DFT-s-OFDM QPSK	1@1	24.97	22.97	0.1982
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.16	22.16	0.1644
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	24.95	22.95	0.1972
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.03	22.03	0.1596
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.97	22.97	0.1982
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.05	22.05	0.1603
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.02	23.02	0.2004
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.11	22.11	0.1626
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	24.9	22.9	0.1950
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	23.99	21.99	0.1581
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.91	22.91	0.1954
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.99	21.99	0.1581
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25	23	0.1995
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.07	22.07	0.1611
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.3	23.3	0.2138
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.97	22.97	0.1982
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	24.77	22.77	0.1892
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	24.99	22.99	0.1991
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.9	22.9	0.1950
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	24.69	22.69	0.1858
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.01	22.01	0.1589
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.94	21.94	0.1563
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	23.58	21.58	0.1439
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	22.49	20.49	0.1119
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.44	20.44	0.1107
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.28	20.28	0.1067
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	20.52	18.52	0.0711
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.27	18.27	0.0671
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	20.08	18.08	0.0643
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	23.52	21.52	0.1419
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.54	21.54	0.1426
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.48	21.48	0.1406

Software Version: 22.09.0601

FR1 N78 MIMO-ANT6+ANT10

Transmitter Conducted Output Power and EIRP, (G_T - L_C)=-2dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT6 Power (dBm)	ANT10 Power (dBm)	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	CP-OFDM QPSK	1@1	20.32	19.41	22.90	20.90	0.1230
78	30	10	630334	3455.01	CP-OFDM 16 QAM	1@1	19.76	19.09	22.45	20.45	0.1109
78	30	10	633334	3500.01	CP-OFDM QPSK	1@1	20.21	19.18	22.74	20.74	0.1186
78	30	10	633334	3500.01	CP-OFDM 16 QAM	1@1	19.64	18.86	22.28	20.28	0.1067
78	30	10	636332	3544.98	CP-OFDM QPSK	1@1	20.22	18.87	22.61	20.61	0.1151
78	30	10	636332	3544.98	CP-OFDM 16 QAM	1@1	19.68	18.51	22.14	20.14	0.1033
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	20.5	19.63	23.10	21.10	0.1288
78	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	19.89	19.23	22.58	20.58	0.1143
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	20.48	19.71	23.12	21.12	0.1294
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	19.88	19.29	22.61	20.61	0.1151
78	30	20	636000	3540	CP-OFDM QPSK	1@1	20.47	19.19	22.89	20.89	0.1227
78	30	20	636000	3540	CP-OFDM 16 QAM	1@1	19.9	18.59	22.30	20.30	0.1072
78	30	30	631000	3465	CP-OFDM QPSK	1@1	20.65	19.8	23.26	21.26	0.1337
78	30	30	631000	3465	CP-OFDM 16 QAM	1@1	20.02	19.36	22.71	20.71	0.1178
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	20.55	19.74	23.17	21.17	0.1309
78	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	19.94	19.12	22.56	20.56	0.1138
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	20.56	19.39	23.02	21.02	0.1265
78	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	19.95	18.96	22.49	20.49	0.1119
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	20.47	19.85	23.18	21.18	0.1312
78	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	20.09	19.46	22.80	20.80	0.1202
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	20.61	19.61	23.15	21.15	0.1303
78	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	20.03	19.19	22.64	20.64	0.1159
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	20.59	19.57	23.12	21.12	0.1294
78	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	20.04	19.26	22.68	20.68	0.1169
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	20.35	19.51	22.96	20.96	0.1247
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	19.75	19.12	22.46	20.46	0.1112
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	20.39	19.39	22.93	20.93	0.1239
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	19.82	18.99	22.44	20.44	0.1107
78	30	50	635000	3525	CP-OFDM QPSK	1@1	20.27	19.31	22.83	20.83	0.1211
78	30	50	635000	3525	CP-OFDM 16 QAM	1@1	19.68	18.89	22.31	20.31	0.1074
78	30	60	632000	3480	CP-OFDM QPSK	1@1	20.45	19.6	23.06	21.06	0.1276
78	30	60	632000	3480	CP-OFDM 16 QAM	1@1	19.83	19.22	22.55	20.55	0.1135
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	20.5	19.56	23.07	21.07	0.1279
78	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	19.89	19.18	22.56	20.56	0.1138

78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	20.33	19.38	22.89	20.89	0.1227
78	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	19.73	18.96	22.37	20.37	0.1089
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	19.05	18.62	21.85	19.85	0.0966
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	18.53	18.23	21.39	19.39	0.0869
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	19.08	18.58	21.85	19.85	0.0966
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	18.59	18.1	21.36	19.36	0.0863
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	19.1	18.52	21.83	19.83	0.0962
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	18.56	18.08	21.34	19.34	0.0859
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	20.31	19.51	22.94	20.94	0.1242
78	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	19.68	19.11	22.41	20.41	0.1099
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	20.28	19.47	22.90	20.90	0.1230
78	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	19.73	19.11	22.44	20.44	0.1107
78	30	80	634000	3510	CP-OFDM QPSK	1@1	20.39	19.47	22.96	20.96	0.1247
78	30	80	634000	3510	CP-OFDM 16 QAM	1@1	19.78	19	22.42	20.42	0.1102
78	30	90	633000	3495	CP-OFDM QPSK	1@1	20.3	19.59	22.97	20.97	0.1250
78	30	90	633000	3495	CP-OFDM 16 QAM	1@1	19.75	19.12	22.46	20.46	0.1112
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	20.25	19.52	22.91	20.91	0.1233
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	19.78	19.08	22.45	20.45	0.1109
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	20.3	19.56	22.96	20.96	0.1247
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	19.74	19.11	22.45	20.45	0.1109
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	20.25	19.59	22.94	20.94	0.1242
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	20.67	19.85	23.29	21.29	0.1346
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	20.42	18.98	22.77	20.77	0.1194
78	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	19.71	18.65	22.22	20.22	0.1052
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	19.66	19.13	22.41	20.41	0.1099
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	19.29	18	21.70	19.70	0.0933
78	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	18.22	17.09	20.70	18.70	0.0741
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	18.41	17.73	21.09	19.09	0.0811
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	18.05	16.59	20.39	18.39	0.0690
78	30	100	633334	3500.01	CP-OFDM 256 QAM	137@68	15.33	14.32	17.86	15.86	0.0385
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	15.66	14.78	18.25	16.25	0.0422
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	15.27	13.87	17.64	15.64	0.0366

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25℃
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

SA n77 / 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)
Middle	6901.50	-44.57	-13	-31.57	-51.17	-47.87	8.30	11.60	H
	10352.25	-48.77	-13	-35.77	-60.52	-50.29	10.48	12.00	H
	13803.00	-55.55	-13	-42.55	-69.70	-57.25	11.80	13.50	H
	17253.75	-41.18	-13	-28.18	-58.47	-41.78	13.00	13.60	V
	6901.50	-37.41	-13	-24.41	-45.29	-40.71	8.30	11.60	V
	10352.25	-48.72	-13	-35.72	-62.27	-50.24	10.48	12.00	V

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

EN-DC_30A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT6 (LTE) & ANT10(NR)									
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 Middle	6901.50	-58.93	-13	-45.93	-65.53	-62.23	8.30	11.60	H
	10352.25	-56.42	-13	-43.42	-68.17	-57.94	10.48	12.00	H
	13803.00	-55.45	-13	-42.45	-69.60	-57.15	11.80	13.50	H
	6901.50	-57.73	-13	-44.73	-65.61	-61.03	8.30	11.60	V
	10352.25	-54.41	-13	-41.41	-67.96	-55.93	10.48	12.00	V
	13803.00	-56.59	-13	-43.59	-69.55	-58.29	11.80	13.50	V
LTE Band30 Middle	4611.00	-60.84	-40	-20.84	-65.13	-67.09	6.45	12.70	H
	6916.50	-58.48	-40	-18.48	-65.10	-61.88	8.40	11.80	H
	9222.00	-59.59	-40	-19.59	-68.62	-61.94	9.65	12.00	H
	4611.00	-60.57	-40	-20.57	-64.99	-66.82	6.45	12.70	V
	6916.50	-55.86	-40	-15.86	-63.58	-59.26	8.40	11.80	V
	9222.00	-54.38	-40	-14.38	-65.64	-56.73	9.65	12.00	V

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

n77 UL_MIMO / 100MHz / QPSK / ANT13+7									
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	7000.02	-58.57	-13	-45.57	-65.34	-61.87	8.30	11.60	H
	10500.03	-56.10	-13	-43.10	-68.00	-57.62	10.48	12.00	H
	14000.04	-56.26	-13	-43.26	-69.97	-57.96	11.80	13.50	H
	7000.02	-58.72	-13	-45.72	-65.67	-62.02	8.30	11.60	V
	10500.03	-54.11	-13	-41.11	-68.33	-55.63	10.48	12.00	V
	14000.04	-57.55	-13	-44.55	-70.48	-59.25	11.80	13.50	V

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